# 28. Construction and Housing[1]

**Construction.**—Monthly estimates of the value of work put in place are probably the most widely used of the current Federal statistics on construction. These estimates are prepared jointly by the Department of Commerce and the Bureau of Labor Statistics. Estimates of private nonresidential construction activity are primarily the responsibility of the Department of Commerce. Publicly financed construction of all types and housing construction activity are primarily the responsibilities of the Bureau of Labor Statistics.

Estimates of privately financed nonresidential construction such as stores, warehouses, and factories are based primarily on F. W. Dodge Corporation reports of construction contracts awarded, supplemented by building permit data for States which the Dodge Corp. does not cover. Public utility construction estimates are derived from data reported by the Interstate Commerce Commission and other Federal regulatory agencies, and by private associations such as the American Gas Association and the American Transit Association.

A considerable number of Federal agencies administer construction programs or award contracts for construction; some of them engage in construction themselves. In this field, construction activity data are derived by the Bureau of Labor Statistics from the reports of the respective Federal agencies. Data on other State and local governmental construction activity are obtained from F. W. Dodge Corporation and Engineering News Record reports.

Estimates of residential construction activity, including number of housing units started, average construction costs, and number of units per structure, are based primarily upon reports of building permits granted which are received from approximately 4,000 permit-granting authorities. Field surveys on a sample basis are used to obtain data on construction activity in nonpermit areas. Sample field surveys are also conducted in permit areas to determine such factors as the proportion of permits allowed to lapse, the time lag between the grant of the permit and the date of start, the relationship between permit valuation and contract valuation, and the length of the building period.

The Bureau of the Census has taken a Census of Construction for 1929, 1935, and 1939. The last census covered all persons or establishments whose principal business in 1939 was utilizing construction materials and labor in construction work for others, or for themselves for speculative and investment purposes on projects located within the limits of continental United States. Because the Census excluded force account work, its coverage was substantially less than current estimates of value of work put in place.

**Housing.**—The first national Census of Housing was taken in 1940 by the Bureau of the Census as part of the Sixteenth Decennial Census and provided comprehensive data on housing characteristics. (See tables 902–911, 913–917, 919–921.) In contrast, collection of current statistics on housing places emphasis upon data directed toward the administrative needs of specific programs. Data on housing characteristics, roughly comparable to those collected in the 1940 Census of Housing, were collected in April 1947 by the Bureau of the Census in its current population survey. During 1946 and 1947 these national figures on housing units started and on average construction costs were supplemented by national data on units completed and by corresponding data for each of 60 local areas. The current program of the Bureau of Labor Statistics provides monthly estimates of the number of housing starts in the nation as a whole, but the series on completions and the local area data have been discontinued.

Data on home mortgages and foreclosures are provided by the Home Loan Bank Board. The Federal Housing Administration compiles data on its real estate financial operations, such as volume of mortgages insured, type of lending institution, etc.

[1] Based on "Statistical Services of the United States Government", a paper prepared by the Division of Statistical Standards, Bureau of the Budget, for International Statistical Conferences, August 29, 1947.

## No. 880.—Construction in the United States—Estimated Expenditures for Private and Public Construction: 1930 to 1947

[Represents value of work put-in-place during year; consequently differs from building permit and construction contract data which measure value of work started. In addition, coverage generally broader than permit and contract data. Includes value and cost of installation of equipment which is integral part of structure, but not that of machinery, shipbuilding, or land costs. Annual estimates, 1915-29, comparable with data below, available in Office of Domestic Commerce, Bureau of Foreign and Domestic Commerce]

[In millions of dollars]

| TYPE OF CONSTRUCTION | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 |
|---|---|---|---|---|---|---|---|---|---|
| **Total** | **11,692** | **8,990** | **5,684** | **4,782** | **5,976** | **6,483** | **9,392** | **9,845** | **9,873** |
| New construction, total | 8,042 | 5,967 | 3,290 | 2,376 | 2,805 | 3,230 | 4,836 | 5,487 | 5,186 |
| Private, total | 5,265 | 3,375 | 1,467 | 1,012 | 1,235 | 1,676 | 2,550 | 3,390 | 3,076 |
| Residential (excl. farm)[1] | 1,446 | 1,228 | 462 | 278 | 361 | 665 | 1,131 | 1,372 | 1,511 |
| Nonresidential building | 2,099 | 1,104 | 499 | 404 | 455 | 472 | 712 | 1,088 | 764 |
| Industrial[2] | 532 | 221 | 74 | 176 | 191 | 158 | 266 | 492 | 232 |
| Warehouses, office and loft bldgs | 559 | 259 | 110 | 41 | 62 | 70 | 104 | 128 | 89 |
| Stores, restaurants and garages | 297 | 178 | 106 | 86 | 107 | 136 | 179 | 250 | 190 |
| Other nonresidential | 711 | 446 | 209 | 101 | 95 | 108 | 163 | 218 | 253 |
| Farm construction | 193 | 97 | 39 | 69 | 93 | 176 | 189 | 225 | 196 |
| Residential | 107 | 59 | 26 | 43 | 54 | 96 | 104 | 118 | 104 |
| Nonresidential | 86 | 38 | 13 | 26 | 39 | 80 | 85 | 107 | 92 |
| Public utility | 1,527 | 946 | 467 | 261 | 326 | 363 | 518 | 705 | 605 |
| Railroad | 521 | 292 | 139 | 94 | 128 | 116 | 149 | 199 | 119 |
| Telephone and telegraph | 333 | 166 | 87 | 45 | 47 | 52 | 67 | 102 | 92 |
| Other public utility | 673 | 488 | 241 | 122 | 151 | 195 | 302 | 404 | 394 |
| Public, total | 2,777 | 2,592 | 1,823 | 1,364 | 1,570 | 1,554 | 2,286 | 2,097 | 2,110 |
| Residential | | | | | 1 | 9 | 61 | 93 | 35 |
| Nonresidential building | 623 | 578 | 392 | 205 | 286 | 278 | 604 | 470 | 568 |
| Industrial[2] | (2) | (2) | (2) | 2 | 11 | 2 | 4 | 2 | 12 |
| Educational | 344 | 269 | 123 | 43 | 110 | 130 | 323 | 221 | 266 |
| Hospital and institutional | 111 | 104 | 78 | 43 | 41 | 31 | 63 | 62 | 83 |
| Other nonresidential | 168 | 205 | 191 | 117 | 124 | 115 | 214 | 185 | 207 |
| Military and naval | 29 | 40 | 34 | 36 | 47 | 37 | 29 | 37 | 62 |
| Highway | 1,505 | 1,351 | 961 | 809 | 826 | 709 | 927 | 902 | 858 |
| Sewer and water | 343 | 270 | 156 | 81 | 116 | 137 | 208 | 174 | 179 |
| Misc. public service enterprises | 157 | 209 | 135 | 61 | 41 | 59 | 111 | 101 | 94 |
| Conservation and development | 111 | 135 | 139 | 168 | 245 | 317 | 339 | 310 | 299 |
| All other public | 9 | 9 | 6 | 4 | 8 | 8 | 7 | 10 | 15 |
| Work relief | | | | 161 | 658 | 490 | 1,359 | 924 | 1,403 |
| Maintenance and repair | 3,650 | 3,023 | 2,394 | 2,245 | 2,513 | 2,763 | 3,197 | 3,434 | 3,284 |

| TYPE OF CONSTRUCTION | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|---|
| **Total** | **10,938** | **11,600** | **15,196** | **17,757** | **12,005** | **8,636** | **9,782** | **16,284** | **21,081** |
| New construction, total | 6,307 | 7,042 | 10,490 | 13,412 | 7,784 | 4,136 | 4,808 | 10,458 | 13,977 |
| Private, total | 3,808 | 4,390 | 5,426 | 3,007 | 1,744 | 1,823 | 2,716 | 8,253 | 10,893 |
| Residential (excl. farm)[1] | 2,114 | 2,355 | 2,765 | 1,315 | 650 | 535 | 684 | 3,183 | 5,260 |
| Nonresidential building | 785 | 1,028 | 1,486 | 635 | 232 | 350 | 1,014 | 3,346 | 3,131 |
| Industrial | 254 | 442 | 801 | 346 | 156 | 208 | 642 | 1,689 | 1,702 |
| Warehouses, office and loft bldgs | 76 | 85 | 114 | 57 | 13 | 16 | 52 | 309 | 216 |
| Stores, restaurants and garages | 211 | 257 | 286 | 93 | 19 | 39 | 147 | 801 | 619 |
| Other nonresidential | 244 | 244 | 285 | 139 | 44 | 87 | 173 | 547 | 594 |
| Farm construction | 226 | 236 | 303 | 271 | 292 | 213 | 191 | 350 | 450 |
| Residential | 120 | 127 | 174 | 144 | 185 | 136 | 116 | 212 | 250 |
| Nonresidential | 106 | 109 | 129 | 127 | 107 | 77 | 75 | 138 | 200 |
| Public utility | 683 | 771 | 872 | 786 | 570 | 725 | 827 | 1,374 | 2,052 |
| Railroad | 137 | 167 | 187 | 197 | 211 | 247 | 264 | 258 | 318 |
| Telephone and telegraph | 93 | 122 | 179 | 155 | 61 | 83 | 117 | 305 | 510 |
| Other public utility | 453 | 482 | 506 | 434 | 298 | 395 | 446 | 811 | 1,224 |
| Public, total | 2,499 | 2,652 | 5,064 | 10,405 | 6,040 | 2,313 | 2,092 | 2,205 | 3,084 |
| Residential | 65 | 200 | 430 | 545 | 700 | 190 | 71 | 369 | 182 |
| Nonresidential building | 859 | 556 | 1,584 | 3,653 | 1,805 | 638 | 652 | 325 | 505 |
| Industrial | 23 | 164 | 1,280 | 3,437 | 1,668 | 507 | 470 | 84 | 25 |
| Educational | 418 | 132 | 135 | 116 | 62 | 41 | 59 | 101 | 275 |
| Hospital and institutional | 114 | 50 | 34 | 32 | 43 | 58 | 85 | 85 | 81 |
| Other nonresidential | 304 | 210 | 135 | 68 | 32 | 32 | 38 | 55 | 124 |
| Military and naval | 125 | 385 | 1,620 | 5,016 | 2,550 | 837 | 690 | 188 | 204 |
| Highway | 867 | 882 | 800 | 616 | 420 | 346 | 386 | 772 | 1,233 |
| Sewer and water | 162 | 194 | 168 | 139 | 102 | 79 | 97 | 194 | 331 |
| Misc. public service enterprises | 91 | 90 | 63 | 36 | 43 | 46 | 55 | 87 | 117 |
| Conservation and development | 310 | 310 | 354 | 350 | 285 | 163 | 130 | 240 | 396 |
| All other public | 20 | 35 | 45 | 50 | 135 | 14 | 11 | 30 | 116 |
| Work relief | 1,189 | 918 | 711 | 330 | 38 | | | | |
| Maintenance and repair | 3,442 | 3,640 | 3,995 | 4,015 | 4,183 | 4,500 | 4,974 | 5,826 | 7,104 |

[1] Estimates of new private nonfarm residential construction prepared by Bureau of Labor Statistics.
[2] Public industrial building not segregable from private construction in 1930-1932.

Source: Estimates of new construction for 1939-47 are joint estimates of Dept. of Commerce, Bureau of Foreign and Domestic Commerce, and Dept. of Labor, Bureau of Labor Statistics; other data except as indicated in note 1, are estimates of Bureau of Foreign and Domestic Commerce. Current estimates are published monthly in the Industry Report on Construction and Construction Materials and Survey of Current Business.

## No. 881.—New Permanent Dwelling Units Started in Nonfarm Areas, by Type: 1920 to 1947

[Figures are estimates covering construction of all new permanent family dwelling units in nonfarm area of United States, based upon building-permit reports, and from 1946, on building-permit information, supplemented by data from field surveys in non-permit-issuing places. This area consists of all urban and rural nonfarm places. Urban designation is applied to all incorporated places with a population of 2,500 or more in 1940, and, by special rule, to a small number of unincorporated civil divisions. Rural nonfarm construction includes all construction for nonagricultural use in unincorporated areas and incorporated places of less than 2,500 population. Hence, urban construction is classified by location, whereas rural nonfarm construction is classified according to the intended use of individual buildings. The series published formerly in the Statistical Abstract included temporary as well as permanent dwelling units from 1941. The official series of the Bureau of Labor Statistics now excludes temporary units, as such units do not add to the country's lasting inventory of housing.]

| Year | Total nonfarm | Area [1] | | Type of dwelling | | |
|---|---|---|---|---|---|---|
| | | Urban | Rural nonfarm | 1-family | 2-family [2] | Multifamily [3] |
| 1920 | 247,000 | 196,000 | 51,000 | 202,000 | 24,000 | 21,000 |
| 1921 | 449,000 | 359,000 | 90,000 | 316,000 | 70,000 | 63,000 |
| 1922 | 716,000 | 574,000 | 142,000 | 437,000 | 146,000 | 133,000 |
| 1923 | 871,000 | 698,000 | 173,000 | 513,000 | 175,000 | 183,000 |
| 1924 | 893,000 | 716,000 | 177,000 | 534,000 | 173,000 | 186,000 |
| 1925 | 937,000 | 752,000 | 185,000 | 572,000 | 157,000 | 208,000 |
| 1926 | 849,000 | 681,000 | 168,000 | 491,000 | 117,000 | 241,000 |
| 1927 | 810,000 | 643,000 | 167,000 | 454,000 | 99,000 | 257,000 |
| 1928 | 753,000 | 594,000 | 159,000 | 436,000 | 78,000 | 239,000 |
| 1929 | 509,000 | 400,000 | 109,000 | 316,000 | 51,000 | 142,000 |
| 1930 | 330,000 | 236,000 | 94,000 | 227,000 | 29,000 | 74,000 |
| 1931 | 254,000 | 174,000 | 80,000 | 187,000 | 22,000 | 45,000 |
| 1932 | 134,000 | 64,000 | 70,000 | 118,000 | 7,000 | 9,000 |
| 1933 | 93,000 | 45,000 | 48,000 | 76,000 | 5,000 | 12,000 |
| 1934 | 126,000 | 49,000 | 77,000 | 109,000 | 5,000 | 12,000 |
| 1935 | 221,000 | 117,000 | 104,000 | 183,000 | 8,000 | 30,000 |
| 1936 | 319,000 | 211,000 | 108,000 | 244,000 | 14,000 | 61,000 |
| 1937 | 336,000 | 218,000 | 118,000 | 267,000 | 16,000 | 53,000 |
| 1938 | 406,000 | 262,000 | 144,000 | 317,000 | 18,000 | 71,000 |
| 1939 | 515,000 | 359,000 | 156,000 | 399,000 | 29,000 | 87,000 |
| 1940 | 603,000 | 397,000 | 206,000 | 486,000 | 37,000 | 80,000 |
| 1941 | 706,100 | 434,300 | 271,800 | 603,500 | 34,300 | 68,300 |
| 1942 | 356,000 | 227,400 | 128,600 | 292,800 | 20,100 | 43,100 |
| 1943 | 191,000 | 124,400 | 66,600 | 143,600 | 17,800 | 29,600 |
| 1944 | 141,900 | 96,200 | 45,700 | 117,700 | 10,600 | 13,600 |
| 1945 | 209,300 | 133,900 | 75,400 | 184,600 | 8,800 | 15,900 |
| 1946 | 670,500 | 403,600 | 266,900 | 590,000 | 24,300 | 56,200 |
| 1947 [4] | 854,600 | 477,300 | 377,300 | 745,000 | 34,300 | 75,300 |

[1] Urban and rural nonfarm classification for years 1920–29 are based on 1930 Census; for years 1930–47, on 1940 Census.
[2] Includes 1- and 2-family dwellings with stores.
[3] Includes multifamily dwellings with stores.
[4] Preliminary.

Source: 1920–29, National Bureau of Economic Research; 1930 and later years, Department of Labor, Bureau of Labor Statistics. Annual and current data are published in monthly releases and in the monthly pamphlet, Construction.

## No. 882.—Building Construction in All Urban Areas—Value, by Class of Construction and by Source of Funds: 1946 and 1947

[**In thousands of dollars.** Compiled from estimates of construction costs made by prospective builders when applying for permits to build and value of contracts awarded by Federal Government. Covers entire urban area of United States which includes all incorporated places of 2,500 or more in 1940 and, by special rule, a small number of unincorporated civil divisions]

| CLASS OF CONSTRUCTION | TOTAL | | NON-FEDERAL | | FEDERAL [2] | |
|---|---|---|---|---|---|---|
| | 1946 | 1947 [1] | 1946 | 1947 [1] | 1946 | 1947 [1] |
| **All building construction** | 4,743,415 | 5,549,718 | 4,303,972 | 5,356,457 | 439,443 | 193,261 |
| **New buildings** | 3,972,392 | 4,658,605 | 3,574,700 | 4,493,901 | 397,692 | 164,704 |
| Residential buildings [2] | 2,513,789 | 2,945,933 | 2,158,202 | 2,910,736 | 355,587 | 35,197 |
| 1-family dwellings | 2,106,421 | 2,369,476 | 1,830,260 | 2,361,509 | 276,161 | 7,967 |
| 2-family dwellings [3] | 103,042 | 156,618 | 103,042 | 156,408 | ---------- | 210 |
| Multifamily dwellings [4] | 238,814 | 390,008 | 181,531 | 363,009 | 57,283 | 26,999 |
| Nonhousekeeping buildings | 65,512 | 29,831 | 43,369 | 29,810 | 22,143 | 21 |
| *Nonresidential buildings* | 1,458,603 | 1,712,672 | 1,416,498 | 1,583,165 | 42,105 | 129,507 |
| Amusement buildings | 33,123 | 43,216 | 33,123 | 43,216 | ---------- | ---------- |
| Churches | 36,971 | 76,234 | 36,971 | 76,234 | ---------- | ---------- |
| Factories and workshops | 397,237 | 321,845 | 395,562 | 321,845 | 1,675 | ---------- |
| Public garages | 73,513 | 61,713 | 73,513 | 61,713 | ---------- | ---------- |
| Private garages | 58,490 | 77,914 | 58,490 | 77,914 | ---------- | ---------- |
| Service stations | 23,088 | 25,440 | 23,088 | 25,440 | ---------- | ---------- |
| Institutions | 55,163 | 144,796 | 41,595 | 79,036 | 13,568 | 65,760 |
| Office buildings | 83,998 | 95,258 | 83,998 | 95,258 | ---------- | ---------- |
| Public buildings | 12,042 | 40,699 | 3,625 | 14,874 | 8,417 | 25,825 |
| Public works and utilities | 102,242 | 143,824 | 93,033 | 143,824 | 9,209 | ---------- |
| Schools and libraries | 98,029 | 185,861 | 88,793 | 147,939 | 9,236 | 37,922 |
| Sheds, stables and barns | 12,210 | 14,621 | 12,210 | 14,621 | ---------- | ---------- |
| Stores and warehouses | 455,852 | 461,294 | 455,852 | 461,294 | ---------- | ---------- |
| All other | 16,645 | 19,957 | 16,645 | 19,957 | ---------- | ---------- |
| **Additions, alterations and repairs** | 771,023 | 891,113 | 729,272 | 862,556 | 41,751 | 28,557 |
| On residential buildings | 328,574 | 371,113 | 301,207 | 368,555 | 27,367 | 2,558 |
| Housekeeping dwellings | *315,697* | *356,163* | *289,396* | *353,769* | *26,301* | 2,394 |
| Nonhousekeeping buildings | 12,877 | 14,950 | 11,811 | 14,786 | 1,066 | 164 |
| On nonresidential buildings | 442,449 | 520,000 | 428,065 | 494,001 | 14,384 | 25,999 |

[1] Preliminary.
[2] Housing financed solely by State and local governments is included under "Federal" to segregate public from private housing. Includes for 1946 $55,991,000 and for 1947 $21,966,000, estimated cost of 8,027 and 2,942 dwelling units built by the New York City Housing Authority. Also includes for 1947 $7,243,000 estimated cost of 1,474 units financed by all other public housing authorities.
[3] Includes 1- and 2-family dwellings with stores. [4] Includes multifamily dwellings with stores.

Source: Department of Labor, Bureau of Labor Statistics; annual and current data are published in the monthly pamphlet, Construction, in monthly releases, and in the Monthly Labor Review.

## No. 883.—Construction Projects Financed Wholly or Partially From Federal Funds—Value of Contracts Awarded and Force Account Work Started: 1935 to 1947

[**In thousands of dollars.** Covers continental U. S. only, excluding unknown value of some secret work]

| TYPE OF PROJECT | 1935 | 1939 | 1941 | 1943 | 1945 | 1946 | 1947 [1] |
|---|---|---|---|---|---|---|---|
| **Total** | 1,478,073 | 1,586,604 | 5,931,536 | 2,506,786 | 902,265 | 1,450,252 | 1,261,125 |
| Airport construction [2] | (3) | 4,753 | 499,427 | 243,443 | 41,219 | 14,859 | 15,252 |
| Building construction: | | | | | | | |
| Residential | [4] 7,833 | 231,071 | 322,248 | 375,471 | 53,133 | 435,453 | 48,965 |
| Nonresidential | 434,949 | 438,151 | 4,099,883 | 1,322,608 | 563,868 | 114,203 | 211,701 |
| Electrification [5] | 5,497 | 29,775 | 4,125 | 12,299 | 4,608 | 4,556 | 7,484 |
| Reclamation | 158,027 | 115,612 | 41,880 | 101,270 | 30,765 | 169,253 | 76,677 |
| *River, harbor, and flood control* | 280,698 | 109,811 | 157,804 | 54,467 | 41,385 | 131,152 | 225,114 |
| Streets, roads, and highways [6] | 381,037 | 355,701 | 446,903 | 161,852 | 100,969 | 535,784 | 656,822 |
| Water and sewerage | 136,243 | 118,131 | 23,672 | 37,694 | 23,020 | 13,231 | 7,660 |
| Miscellaneous [7] | 73,789 | 183,599 | 335,594 | 197,682 | 43,298 | 31,761 | 11,450 |

[1] Preliminary. [2] Exclusive of hangars and other buildings. [3] Included in miscellaneous.
[4] Includes nonresidential construction at site of 3 Resettlement Administration projects for which breakdown of residential and nonresidential costs is not available.
[5] Excludes loans granted by Rural Electrification Administration.
[6] Includes work under jurisdiction of Public Roads Administration.
[7] Includes forestry and railroad construction and repair projects.

Source: Department of Labor, Bureau of Labor Statistics; current data published in Monthly Labor Review.

## No. 884.—Construction Contracts Awarded in 37 States—Value of Construction and Floor Space of Buildings, by Class of Construction: 1927 to 1946

[For State figures, see table 885. Public works and public utilities cover some projects not measurable in terms of floor space, such as highways, pipe lines, subways, etc. Statistics for the 37 States were not compiled for years prior to 1925, but available figures covering a varying number of States for earlier years have been published in the 1932 and previous issues of the Statistical Abstract. Figures for the individual States and districts in table 885 represent the value of construction contracts awarded in the States and districts where the work was actually done]

**[Values in millions of dollars; floor space in thousands of square feet]**

| YEAR | Total | Residential | Commercial [1] | Manufacturing buildings [2] | Public works | Public utilities [1 2] | Educational | Hospital and institutional | Public buildings | Religious | Social and recreational | Miscellaneous nonresidential |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VALUE OF CONSTRUCTION | | | | | | | | | | | | |
| 1927 | 6,303.1 | 2,573.3 | 932.9 | 375.9 | 972.9 | 318.3 | 368.9 | 162.5 | 79.5 | 156.5 | 260.9 | 101.5 |
| 1928 | 6,628.3 | 2,788.3 | 884.6 | 508.8 | 984.4 | 417.4 | 390.0 | 164.7 | 76.2 | 127.9 | 218.8 | 67.0 |
| 1929 | 5,750.8 | 1,915.7 | 929.2 | 545.9 | 940.1 | 469.6 | 369.6 | 152.2 | 120.8 | 106.1 | 146.6 | 54.9 |
| 1930 | 4,523.1 | 1,101.3 | 616.3 | 256.6 | 969.6 | 629.8 | 366.2 | 163.1 | 139.8 | 92.8 | 116.6 | 70.9 |
| 1931 | 3,092.8 | 811.4 | 311.1 | 116.2 | 880.9 | 259.9 | 223.4 | 121.2 | 181.3 | 53.1 | 98.7 | 35.8 |
| 1932 | 1,351.2 | 280.1 | 122.7 | 43.5 | 521.1 | 62.4 | 80.7 | 48.4 | 118.0 | 27.3 | 33.9 | 13.2 |
| 1933 | 1,255.7 | 249.3 | 99.4 | 127.5 | 504.5 | 84.5 | 38.9 | 37.3 | 50.9 | 17.7 | 27.2 | 18.7 |
| 1934 [3] | 1,543.1 | 248.8 | 150.6 | 116.1 | 631.6 | 111.5 | 112.3 | 37.3 | 55.7 | 18.3 | 46.2 | 14.7 |
| 1935 | 1,844.5 | 478.8 | 164.5 | 108.9 | 589.1 | 95.7 | 168.3 | 47.1 | 97.8 | 23.7 | 54.9 | 16.0 |
| 1936 | 2,675.3 | 801.6 | 249.1 | 198.0 | 721.8 | 192.1 | 219.0 | 74.1 | 102.2 | 28.3 | 74.9 | 14.2 |
| 1937 | 2,913.1 | 905.3 | 297.0 | 313.7 | 588.7 | 262.9 | 223.2 | 81.8 | 104.9 | 36.9 | 83.8 | 14.8 |
| 1938 | 3,196.9 | 985.8 | 216.8 | 121.1 | 850.2 | 288.8 | 334.1 | 115.6 | 114.1 | 35.8 | 108.0 | 27.7 |
| 1939 | 3,550.5 | 1,334.3 | 246.9 | 174.8 | 961.7 | 289.0 | 201.4 | 82.9 | 110.0 | 38.4 | 82.2 | 28.9 |
| 1940 | 4,004.0 | 1,596.9 | 318.3 | 442.4 | 831.3 | 281.1 | 147.2 | 94.1 | 80.2 | 45.7 | 62.6 | 104.2 |
| 1941 | 6,007.5 | 1,953.8 | 471.2 | 1,181.5 | 1,109.3 | 628.7 | 140.9 | 88.5 | 89.4 | 52.5 | 78.1 | 213.6 |
| 1942 | 8,255.1 | 1,817.7 | 302.2 | 2,227.5 | 1,302.5 | 1,238.1 | 147.9 | 184.9 | 101.6 | 23.5 | 101.3 | 807.7 |
| 1943 | 3,274.0 | 867.8 | 120.7 | 766.2 | 470.6 | 511.4 | 62.4 | 110.7 | 24.7 | 7.1 | 58.2 | 274.2 |
| 1944 | 1,994.0 | 348.4 | 80.8 | 472.7 | 429.6 | 316.5 | 69.2 | 59.2 | 11.9 | 11.6 | 32.7 | 161.3 |
| 1945 | 3,299.3 | 563.5 | 346.4 | 1,027.0 | 482.6 | 402.8 | 100.2 | 112.6 | 15.9 | 34.8 | 60.3 | 153.2 |
| 1946 | 7,489.7 | 3,142.1 | 773.2 | 1,317.3 | 1,194.7 | 436.6 | 221.4 | 130.9 | 25.1 | 67.6 | 92.5 | 88.3 |
| FLOOR SPACE OF BUILDINGS | | | | | | | | | | | | |
| 1927 | 850,578 | 494,565 | 141,815 | 68,131 | 918 | 4,535 | 53,917 | 18,802 | 9,943 | 17,192 | 33,520 | 7,240 |
| 1928 | 966,558 | 568,382 | 159,192 | 92,902 | 609 | 3,496 | 61,490 | 20,004 | 11,288 | 15,398 | 28,012 | 5,785 |
| 1929 | 791,099 | 387,670 | 161,264 | 105,524 | 450 | 5,353 | 58,639 | 19,496 | 12,626 | 12,818 | 21,457 | 5,802 |
| 1930 | 510,382 | 230,040 | 96,586 | 48,019 | 826 | 7,611 | 56,955 | 19,121 | 17,023 | 10,864 | 16,089 | 7,248 |
| 1931 | 365,841 | 190,274 | 50,037 | 20,109 | 496 | 4,550 | 36,598 | 16,880 | 24,257 | 5,578 | 14,018 | 3,044 |
| 1932 | 155,577 | 73,607 | 23,884 | 9,048 | 575 | 1,219 | 13,710 | 7,319 | 16,198 | 3,518 | 5,535 | 964 |
| 1933 | 147,053 | 72,783 | 22,551 | 18,985 | 170 | 1,491 | 5,523 | 5,598 | 9,474 | 2,633 | 5,606 | 2,239 |
| 1934 | 152,394 | 64,255 | 28,261 | 17,566 | 292 | 1,804 | 16,775 | 4,222 | 9,425 | 2,650 | 6,532 | 612 |
| 1935 | 251,558 | 135,416 | 35,391 | 20,638 | 915 | 1,077 | 26,046 | 6,176 | 13,522 | 3,534 | 7,909 | 934 |
| 1936 | 409,676 | 222,514 | 57,178 | 40,291 | 1,038 | 3,360 | 41,985 | 10,369 | 14,282 | 4,312 | 12,852 | 1,495 |
| 1937 | 446,084 | 235,515 | 62,283 | 60,816 | 1,301 | 5,197 | 36,489 | 11,411 | 12,464 | 5,730 | 13,544 | 1,334 |
| 1938 | 429,028 | 240,568 | 41,789 | 25,246 | 1,088 | 1,679 | 57,022 | 17,235 | 15,564 | 5,303 | 17,691 | 5,893 |
| 1939 | 513,380 | 332,656 | 48,798 | 44,268 | 603 | 1,319 | 34,418 | 11,593 | 15,121 | 6,213 | 12,371 | 6,020 |
| 1940 | 690,459 | 420,531 | 66,588 | 94,772 | 330 | 1,536 | 24,761 | 14,401 | 11,869 | 7,108 | 11,909 | 36,653 |
| 1941 | 956,719 | 502,676 | 105,851 | 187,923 | 11,647 | 2,104 | 24,499 | 15,394 | 14,453 | 8,567 | 14,761 | 68,844 |
| 1942 | 1,314,220 | 449,454 | 74,079 | 446,055 | 13,400 | 3,837 | 30,586 | 34,083 | 19,806 | 3,477 | 23,326 | 216,117 |
| 1943 | 448,244 | 200,647 | 22,171 | 105,822 | 1,851 | 1,090 | 11,969 | 19,947 | 4,754 | 1,001 | 12,862 | 66,130 |
| 1944 | 234,549 | 73,955 | 12,490 | 84,356 | 1,290 | 3,748 | 9,797 | 7,637 | 1,999 | 1,420 | 5,096 | 32,769 |
| 1945 | 412,423 | 111,244 | 63,197 | 158,207 | 1,348 | 13,701 | 12,453 | 11,331 | 1,858 | 4,569 | 8,097 | 26,423 |
| 1946 | 959,610 | 516,256 | 118,563 | 235,238 | 919 | 10,537 | 25,883 | 15,245 | 2,211 | 8,404 | 11,292 | 15,060 |

[1] Data for airports now included with "Public utilities"; prior to 1930, included with "Commercial."
[2] Data for pipe lines now included with "Public utilities"; prior to 1929, included with "Manufacturing buildings."
[3] Excludes data for 23 Civil Works Program projects, valued at $29,551,900, not available by class of construction.

Source: The F. W. Dodge Corporation, New York, N. Y.; Statistical and Research Division, historical record. Figures published currently in Statistical Research Service.

## No. 885.—Construction Contracts Awarded in 37 States—Value by Districts and States: 1939 to 1946

[Value in thousands of dollars. See headnote, table 884]

| District and State | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 |
|---|---|---|---|---|---|---|---|---|
| **Total (37 states)** | **3,550,543** | **4,003,957** | **6,007,474** | **8,255,061** | **3,273,990** | **1,994,016** | **3,299,303** | **7,489,722** |
| **New England** | **255,223** | **324,695** | **439,407** | **415,903** | **190,756** | **88,778** | **164,627** | **563,411** |
| Connecticut | 76,781 | 84,789 | 128,405 | 94,175 | 54,901 | 23,623 | 55,313 | 172,129 |
| Maine | 8,193 | 13,774 | 35,567 | 47,967 | 27,427 | 6,531 | 6,816 | 38,347 |
| Massachusetts | 126,990 | 150,145 | 200,131 | 152,946 | 74,113 | 39,988 | 82,895 | 292,511 |
| New Hampshire | 12,354 | 11,574 | 23,911 | 19,344 | 2,789 | 3,456 | 4,704 | 17,367 |
| Rhode Island | 23,692 | 55,203 | 43,158 | 96,466 | 27,038 | 13,980 | 12,121 | 29,741 |
| Vermont | 7,213 | 9,210 | 8,235 | 5,005 | 4,488 | 1,200 | 2,778 | 13,316 |
| **Metrop. N. Y. and No. N. J.** | **547,176** | **488,360** | **561,699** | **421,722** | **165,443** | **156,949** | **247,454** | **897,443** |
| Northern New Jersey | 116,018 | 125,327 | 190,607 | 195,810 | 72,986 | 103,743 | 101,618 | 307,756 |
| Metropolitan New York [1] | 431,158 | 363,033 | 371,092 | 225,912 | 92,457 | 53,206 | 145,836 | 589,687 |
| **Upstate New York [2]** | **138,691** | **111,198** | **174,856** | **316,581** | **77,604** | **54,612** | **79,289** | **269,767** |
| **Middle Atlantic** | **433,455** | **577,747** | **863,729** | **1,167,468** | **485,371** | **337,381** | **458,308** | **958,407** |
| Delaware | 13,635 | 16,612 | 13,255 | 34,192 | 15,332 | 7,837 | 13,913 | 17,918 |
| District of Columbia | 77,175 | 64,790 | 84,011 | 101,974 | 33,682 | 30,382 | 41,510 | 61,633 |
| Maryland | 80,833 | 122,564 | 193,571 | 228,822 | 106,942 | 83,951 | 101,725 | 297,933 |
| Southern New Jersey | 24,738 | 39,240 | 39,308 | 38,089 | 39,487 | 14,157 | 30,745 | 71,995 |
| Eastern Pennsylvania | 158,572 | 165,648 | 283,312 | 351,385 | 116,686 | 93,807 | 157,784 | 316,033 |
| Virginia | 78,502 | 168,893 | 250,272 | 413,006 | 173,242 | 107,247 | 112,631 | 192,895 |
| **Southeast** | **373,123** | **529,678** | **900,115** | **1,113,353** | **703,820** | **256,159** | **483,917** | **1,025,337** |
| Alabama | 42,352 | 56,630 | 157,706 | 204,128 | 65,493 | 30,484 | 50,870 | 141,245 |
| Florida | 92,223 | 167,058 | 157,603 | 290,697 | 164,556 | 81,256 | 106,027 | 287,847 |
| Georgia | 64,837 | 91,277 | 158,910 | 188,641 | 73,711 | 42,300 | 66,759 | 195,737 |
| North Carolina | 68,402 | 80,843 | 200,331 | 170,694 | 91,438 | 46,293 | 80,564 | 180,286 |
| South Carolina | 41,077 | 48,833 | 87,579 | 110,324 | 52,160 | 21,784 | 21,948 | 119,020 |
| Eastern Tennessee | 64,232 | 85,037 | 137,986 | 148,869 | 256,462 | 34,042 | 157,749 | 101,202 |
| **Pittsburgh** | **141,348** | **143,421** | **197,758** | **252,198** | **62,975** | **61,515** | **91,797** | **245,649** |
| Western Pennsylvania | 104,837 | 102,808 | 137,190 | 182,181 | 40,654 | 35,799 | 60,953 | 161,577 |
| West Virginia | 36,511 | 40,613 | 60,568 | 70,017 | 22,321 | 25,716 | 30,844 | 84,072 |
| **Cleveland (North and East Ohio)** | **194,950** | **195,725** | **259,807** | **369,341** | **146,942** | **99,071** | **184,027** | **431,438** |
| **Cincinnati** | **216,803** | **127,789** | **198,178** | **268,437** | **105,345** | **46,605** | **110,110** | **235,520** |
| *Kentucky* | *167,166* | *56,555* | *106,424* | *169,822* | *34,954* | *22,338* | *45,565* | *100,582* |
| Southwest Ohio | 49,637 | 71,234 | 91,754 | 98,615 | 70,391 | 24,267 | 64,545 | 134,938 |
| **Southern Michigan** | **155,998** | **211,307** | **270,524** | **260,062** | **160,769** | **85,619** | **173,979** | **390,318** |
| **Chicago** | **401,282** | **442,113** | **725,895** | **1,035,388** | **273,449** | **258,952** | **509,695** | **963,007** |
| Northern Illinois | 191,559 | 179,615 | 265,426 | 363,617 | 119,354 | 99,007 | 201,114 | 426,158 |
| Indiana | 87,155 | 125,990 | 254,783 | 403,562 | 89,772 | 66,032 | 184,712 | 253,837 |
| Iowa | 55,206 | 58,801 | 111,347 | 65,255 | 35,785 | 33,297 | 48,792 | 118,846 |
| Northern Michigan | 5,898 | 5,481 | 7,591 | 36,954 | 908 | 2,551 | 2,680 | 12,254 |
| Southeast Wisconsin | 61,464 | 72,226 | 86,748 | 166,000 | 27,630 | 58,065 | 72,397 | 151,912 |
| **St. Louis** | **196,930** | **216,916** | **392,431** | **510,643** | **126,918** | **110,985** | **214,991** | **320,689** |
| Arkansas | 29,172 | 29,103 | 83,195 | 153,499 | 44,555 | 42,251 | 76,568 | 88,103 |
| Southern Illinois | 78,380 | 77,977 | 91,828 | 186,355 | 38,597 | 30,531 | 46,043 | 65,597 |
| Eastern Missouri | 71,242 | 88,506 | 155,769 | 87,946 | 20,097 | 27,800 | 63,314 | 105,385 |
| Western Tennessee | 18,136 | 21,330 | 61,639 | 82,843 | 23,669 | 10,403 | 29,066 | 61,604 |
| **New Orleans** | **93,279** | **122,164** | **200,484** | **381,612** | **121,203** | **73,481** | **70,413** | **119,327** |
| Louisiana | 61,677 | 70,066 | 135,246 | 182,789 | 82,345 | 52,796 | 46,312 | 74,638 |
| Mississippi | 31,602 | 52,098 | 65,238 | 198,823 | 38,858 | 20,685 | 24,101 | 44,689 |
| **Minneapolis** | **95,018** | **93,585** | **125,539** | **251,889** | **39,695** | **40,823** | **83,335** | **243,648** |
| Minnesota | 69,446 | 66,132 | 94,021 | 153,613 | 18,548 | 27,967 | 56,635 | 170,748 |
| North Dakota | 8,364 | 7,335 | 8,658 | 3,445 | 3,710 | 4,400 | 6,703 | 22,747 |
| South Dakota | 7,696 | 9,817 | 10,799 | 36,899 | 13,090 | 4,228 | 7,626 | 28,381 |
| Northwest Wisconsin | 9,512 | 10,301 | 12,061 | 57,932 | 4,347 | 4,228 | 12,371 | 21,772 |
| **Kansas City** | **127,930** | **165,407** | **299,314** | **652,231** | **294,432** | **163,230** | **162,757** | **292,252** |
| Kansas | 35,478 | 51,989 | 100,683 | 264,352 | 80,025 | 67,551 | 49,511 | 92,988 |
| Western Missouri | 24,101 | 33,483 | 49,818 | 69,500 | 11,266 | 16,048 | 30,080 | 59,315 |
| Nebraska | 33,938 | 25,568 | 29,618 | 158,808 | 83,150 | 43,447 | 38,217 | 50,025 |
| Oklahoma | 34,413 | 54,367 | 119,195 | 159,571 | 119,991 | 36,184 | 44,949 | 89,924 |
| **Texas** | **179,337** | **253,852** | **397,738** | **838,233** | **319,268** | **159,856** | **264,604** | **533,509** |
| **Totals for States in more than one district:** | | | | | | | | |
| Illinois | 269,939 | 257,592 | 357,254 | 549,972 | 157,951 | 129,538 | 247,157 | 491,755 |
| Michigan | 161,896 | 216,788 | 278,115 | 297,016 | 161,677 | 88,170 | 176,659 | 402,572 |
| Missouri | 95,343 | 121,989 | 205,587 | 157,446 | 31,363 | 43,848 | 93,394 | 164,700 |
| New Jersey | 140,756 | 164,567 | 229,915 | 233,899 | 112,473 | 117,900 | 132,363 | 379,751 |
| New York | 569,849 | 474,231 | 545,948 | 542,493 | 170,061 | 107,818 | 225,125 | 859,454 |
| Ohio | 244,587 | 266,959 | 351,561 | 467,956 | 217,333 | 123,338 | 248,572 | 566,376 |
| Pennsylvania | 263,409 | 268,456 | 420,502 | 533,566 | 157,340 | 129,606 | 218,737 | 477,610 |
| Tennessee | 82,368 | 106,367 | 199,625 | 231,712 | 280,131 | 44,445 | 186,815 | 162,806 |
| Wisconsin | 70,976 | 82,527 | 98,809 | 223,932 | 31,977 | 62,293 | 84,768 | 173,684 |

[1] Includes 5 boroughs, Nassau, Orange, Putnam, Rockland, Suffolk, and Westchester Counties.
[2] All counties north of Orange, Putnam, and Rockland.

Source: The F. W. Dodge Corporation, New York, N. Y.; figures published currently in Statistical Research Service.

## No. 886.—Construction Contracts Awarded—Indexes of Value: 1920 to 1947

[1923–25 average=100. Indexes are derived from monthly figures of construction contracts awarded reported by F. W. Dodge Corporation. Reports covered 37 States beginning with May 1924 and a varying number for earlier years. In order to obtain comparable figures from 1919 to date, total value of construction contracts awarded in 37 States was estimated for January 1919 through April 1924. Seasonal adjustments computed separately for "residential" and "all other" types of construction and the two series combined. Indexes based on a 3-month moving average, centered at middle month. For more detailed description of indexes, see Federal Reserve Bulletin for July 1931]

| YEAR | Total | Residential | All other | YEAR AND MONTH | Total | Residential | All other | YEAR AND MONTH | Total | Residential | All other |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1920 | 63 | 30 | 90 | 1938 | 64 | 45 | 80 | 1946—Con. | | | |
| 1921 | 56 | 44 | 65 | 1939 | 72 | 60 | 81 | September | 151 | 147 | 155 |
| 1922 | 79 | 68 | 88 | 1940 | 81 | 72 | 89 | October | 145 | 140 | 148 |
| 1923 | 84 | 81 | 86 | 1941 | 122 | 89 | 149 | November | 139 | 122 | 152 |
| 1924 | 94 | 95 | 94 | 1942 | 166 | 82 | 235 | December | 154 | 143 | 163 |
| 1925 | 122 | 124 | 120 | 1943 | 68 | 40 | 92 | 1947 | | | |
| 1926 | 129 | 121 | 135 | 1944 | 41 | 16 | 61 | January | 146 | 144 | 148 |
| 1927 | 129 | 117 | 139 | 1945 | 68 | 26 | 102 | February | 151 | 152 | 149 |
| 1928 | 135 | 126 | 142 | 1946 | 153 | 143 | 161 | March | 132 | 129 | 134 |
| 1929 | 117 | 87 | 142 | 1947 | 157 | 142 | 169 | April | 133 | 123 | 142 |
| | | | | | | | | May | 127 | 110 | 140 |
| 1930 | 92 | 50 | 125 | 1946 | | | | June | 136 | 116 | 152 |
| 1931 | 63 | 37 | 84 | January | 107 | 61 | 145 | | | | |
| 1932 | 28 | 13 | 40 | February | 136 | 95 | 169 | July | 155 | 136 | 170 |
| 1933 | 25 | 11 | 37 | March | 147 | 129 | 161 | August | 166 | 150 | 179 |
| 1934 | 32 | 12 | 48 | April | 170 | 172 | 168 | September | 183 | 168 | 195 |
| | | | | May | 169 | 179 | 161 | October | 184 | 170 | 196 |
| 1935 | 37 | 21 | 50 | June | 174 | 177 | 172 | November | 193 | 163 | 217 |
| 1936 | 55 | 37 | 70 | July | 165 | 161 | 168 | December | 197 | 161 | 227 |
| 1937 | 59 | 41 | 74 | August | 158 | 157 | 158 | | | | |

Source: Board of Governors of the Federal Reserve System; figures published currently in Federal Reserve Bulletin.

## No. 887.—Engineering Construction Contracts Awarded—Volume, by Type: 1926 to 1947

[**In millions of dollars.** Covers continental U. S. construction projects of following minimum costs through 1945 (except for 1932–35): Waterworks, excavation, drainage, and irrigation, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000. For 1946, these minimums were raised to $22,500, $40,000, $55,000, and $205,000, respectively, to account for rise in construction costs. For 1947, minimums used were: $28,000, $50,000, $68,000, and $250,000. For 1932–35, minimums used were: $10,500, $17,500, $28,000, and $105,000]

| YEAR | Total | PUBLIC WORKS CONTRACTS | | | | | BUILDINGS | | | Unclassified |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Waterworks | Sewerage | Bridges | Earthwork, irr., drain. | Streets, roads | Industrial | Commercial | Public | |
| 1926 | 2,854 | 62 | 104 | 87 | 55 | 486 | 312 | 1,277 | 227 | 244 |
| 1927 | 3,254 | 54 | 118 | 144 | 68 | 528 | 321 | 1,398 | 254 | 368 |
| 1928 | 3,579 | 100 | 101 | 133 | 74 | 617 | 355 | 1,596 | 290 | 313 |
| 1929 | 3,950 | 49 | 88 | 137 | 77 | 542 | 547 | 1,670 | 356 | 484 |
| 1930 | 3,173 | 49 | 83 | 131 | 77 | 585 | 331 | 1,034 | 356 | 528 |
| 1931 | 2,432 | 57 | 73 | 116 | 143 | 545 | 166 | 561 | 384 | 387 |
| 1932 | 1,219 | 35 | 25 | 84 | 101 | 380 | 93 | 166 | 241 | 95 |
| 1933 | 1,068 | 67 | 22 | 98 | 137 | 288 | 152 | 106 | 121 | 77 |
| 1934 | 1,361 | 92 | 61 | 99 | 266 | 345 | 105 | 81 | 204 | 106 |
| 1935 | 1,590 | 81 | 100 | 98 | 259 | 325 | 172 | 109 | 298 | 148 |
| 1936 | 2,387 | 92 | 121 | 188 | 182 | 483 | 309 | 275 | 436 | 300 |
| 1937 | 2,437 | 104 | 95 | 133 | 110 | 415 | 477 | 460 | 333 | 309 |
| 1938 | 2,792 | 131 | 136 | 135 | 268 | 638 | 152 | 550 | 503 | 279 |
| 1939 | 3,003 | 163 | 160 | 151 | 233 | 644 | 283 | 388 | 593 | 390 |
| 1940 | 3,987 | 70 | 91 | 120 | 234 | 678 | 594 | 400 | 1,196 | 603 |
| 1941 | 5,869 | 77 | 89 | 112 | 245 | 583 | 496 | 486 | 2,786 | 996 |
| 1942 | [1] 9,306 | 151 | 118 | 50 | 251 | 531 | 200 | 292 | 5,678 | 2,034 |
| 1943 | [2] 3,062 | 46 | 41 | 26 | 47 | 227 | 167 | 231 | 1,419 | 858 |
| 1944 | 1,730 | 33 | 32 | 17 | 64 | 196 | 174 | 140 | 658 | 416 |
| 1945 | 2,289 | 61 | 35 | 53 | 57 | 227 | 635 | 387 | 463 | 371 |
| 1946 | 5,176 | 109 | 114 | 127 | 328 | 769 | 1,113 | 1,846 | 414 | 356 |
| 1947 | 5,659 | 139 | 175 | 195 | 327 | 794 | 862 | 1,898 | 615 | 653 |

[1] $1,300 millions canceled by W. P. B. [2] Add $1,357 millions for Atomic Bomb plants.

Source: Market and Media File, MKT. 1–5, Feb. 15, 1946; and Engineering Construction Markets, Jan.-Feb. 1948; published by Engineering News-Record and Construction Methods, New York, N. Y.

## No. 888.—Engineering Construction Contracts Awarded—Volume, by Type, by States: 1947

[**In thousands of dollars.** Covers continental U. S. construction projects of following minimum costs: Waterworks, excavation, and irrigation, $28,000; other public works, $50,000; industrial buildings, $68,000; other buildings, $250,000]

| STATE | Total | PUBLIC WORKS CONTRACTS | | | | | BUILDINGS | | | Unclassified |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Waterworks | Sewerage | Bridges | Earthwork, irr., drain. | Streets, roads | Industrial | Commercial | Public | |
| **United States** | **5,659,232** | **139,141** | **174,764** | **195,223** | **326,856** | **794,133** | **862,205** | **1,897,961** | **615,492** | **653,457** |
| Alabama | 63,144 | 1,617 | 761 | 1,878 | 1,263 | 11,778 | 6,248 | 21,677 | 4,963 | 12,959 |
| Arizona | 12,299 | 1,680 | ------- | 697 | 590 | 907 | 175 | 750 | 3,260 | 4,240 |
| Arkansas | 97,265 | 1,166 | 694 | 6,688 | 44,313 | 11,215 | 9,505 | 3,066 | 3,151 | 17,467 |
| California | 544,681 | 24,794 | 18,346 | 19,978 | 21,784 | 41,522 | 73,745 | 246,921 | 52,386 | 45,205 |
| Colorado | 57,650 | 671 | 47 | 1,161 | 21,166 | 10,070 | 9,738 | 275 | 5,832 | 8,690 |
| Connecticut | 99,220 | 388 | 472 | 6,857 | 1,521 | 5,803 | 28,760 | 42,736 | 11,260 | 1,423 |
| Delaware | 39,726 | 355 | 993 | 314 | 199 | 2,520 | 6,511 | 27,494 | 1,083 | 257 |
| Dist. of Columbia | 32,271 | 1,725 | 937 | 8,985 | 19 | 6,581 | 724 | 9,890 | 2,113 | 1,297 |
| Florida | 178,097 | 2,166 | 7,501 | 4,749 | 4,001 | 17,396 | 9,025 | 92,619 | 21,051 | 19,589 |
| Georgia | 124,286 | 2,908 | 2,006 | 3,001 | 16,598 | 11,097 | 11,503 | 59,585 | 9,797 | 7,791 |
| Idaho | 30,442 | ------- | ------- | 132 | 2,055 | 4,510 | 4,208 | 15,757 | 1,520 | 2,260 |
| Illinois | 279,389 | 2,780 | 34,308 | 10,177 | 25,326 | 43,990 | 47,344 | 36,869 | 33,699 | 44,896 |
| Indiana | 85,630 | 2,074 | 1,080 | 3,509 | 2,208 | 17,142 | 18,130 | 24,851 | 13,082 | 3,554 |
| Iowa | 56,169 | 987 | 984 | 4,806 | 2,366 | 15,059 | 11,837 | 7,345 | 8,269 | 4,516 |
| Kansas | 79,556 | 2,061 | 2,769 | 5,160 | 1,681 | 19,793 | 13,268 | 4,852 | 6,341 | 23,691 |
| Kentucky | 83,572 | 712 | 842 | 3,511 | 659 | 23,319 | 7,906 | 15,016 | 9,049 | 22,558 |
| Louisiana | 134,204 | 566 | 1,215 | 3,955 | 17,744 | 16,794 | 39,016 | 32,033 | 17,283 | 5,598 |
| Maine | 18,951 | ------- | ------- | 1,563 | ------- | 2,729 | ------- | ------- | 353 | 14,306 |
| Maryland | 66,306 | 10,766 | 1,582 | 1,355 | 1,010 | 4,293 | 3,017 | 25,192 | 12,019 | 7,072 |
| Massachusetts | 50,737 | 1,519 | 2,467 | 1,525 | 4,011 | 9,612 | 9,958 | 8,802 | 6,113 | 6,730 |
| Michigan | 94,771 | 4,471 | 7,682 | 8,055 | 998 | 12,439 | 15,924 | 4,370 | 11,434 | 29,398 |
| Minnesota | 69,641 | 1,126 | 1,903 | 1,104 | 3,111 | 21,269 | 16,665 | 6,230 | 9,083 | 9,150 |
| Mississippi | 57,796 | 927 | 271 | 2,770 | 16,768 | 21,943 | 1,908 | 4,698 | 2,565 | 5,946 |
| Missouri | 138,593 | 898 | 751 | 9,494 | 5,588 | 13,580 | 21,969 | 55,753 | 15,739 | 14,821 |
| Montana | 42,682 | 386 | 632 | 736 | 2,248 | 4,991 | 11,306 | 17,641 | 2,164 | 2,578 |
| Nebraska | 38,102 | 1,091 | 823 | 969 | 2,795 | 7,433 | 2,903 | 2,261 | 13,308 | 6,519 |
| Nevada | 12,986 | 11 | 62 | ------- | 86 | 3,586 | 135 | 1,655 | 3,010 | 4,441 |
| New Hampshire | 3,926 | ------- | ------- | 1,103 | 14 | 2,108 | ------- | ------- | 364 | 337 |
| New Jersey | 226,503 | 161 | 1,750 | 5,738 | 3,208 | 14,406 | 46,155 | 132,508 | 20,783 | 1,794 |
| New Mexico | 31,097 | 338 | ------- | 146 | 1,025 | 7,919 | 541 | ---------- | 5,623 | 15,505 |
| New York | 493,810 | 15,762 | 11,804 | 7,679 | 9,557 | 52,943 | 30,026 | 214,183 | 121,840 | 30,016 |
| North Carolina | 80,795 | 2,948 | 946 | 4,011 | 1,302 | 24,213 | 7,220 | 26,494 | 7,191 | 6,470 |
| North Dakota | 33,482 | 792 | 573 | ------- | 13,350 | 8,078 | 1,030 | 2,142 | 4,360 | 3,157 |
| Ohio | 179,696 | 10,303 | 6,432 | 2,068 | 4,823 | 35,179 | 23,709 | 73,870 | 17,348 | 5,964 |
| Oklahoma | 75,672 | 6,576 | 4,890 | 4,745 | 4,445 | 12,461 | 14,523 | 6,834 | 8,888 | 12,310 |
| Oregon | 70,259 | 1,241 | 2,047 | 1,490 | 11,767 | 16,526 | 7,951 | 8,495 | 13,656 | 7,086 |
| Pennsylvania | 677,979 | 4,227 | 17,439 | 17,089 | 11,900 | 63,076 | 129,371 | 388,422 | 18,919 | 27,536 |
| Rhode Island | 27,981 | 212 | ------- | 220 | 193 | 1,630 | 3,437 | 19,820 | 2,093 | 376 |
| South Carolina | 64,252 | 1,406 | 1,719 | 3,368 | 15,896 | 15,010 | 9,929 | 11,203 | 3,107 | 2,614 |
| South Dakota | 24,072 | 857 | 580 | 620 | 1,243 | 7,260 | 1,013 | 3,260 | 3,491 | 5,748 |
| Tennessee | 84,207 | 2,403 | 1,547 | 5,294 | 3,149 | 18,277 | 6,376 | 29,565 | 12,263 | 5,333 |
| Texas | 552,424 | 10,533 | 20,220 | 8,017 | 14,644 | 71,170 | 131,520 | 145,926 | 35,527 | 114,867 |
| Utah | 29,408 | 1,212 | 141 | 160 | 878 | 5,401 | 7,918 | 2,001 | 2,906 | 8,791 |
| Vermont | 3,197 | ------- | ------- | 127 | ------- | 2,750 | ------- | ------- | 320 | ------- |
| Virginia | 74,058 | 1,694 | 3,791 | 7,503 | 1,329 | 18,505 | 5,065 | 10,790 | 11,224 | 14,157 |
| Washington | 146,023 | 7,127 | 4,107 | 4,410 | 6,758 | 15,815 | 11,266 | 42,965 | 36,402 | 17,173 |
| West Virginia | 34,171 | 775 | ------- | 4,292 | 4,630 | 7,657 | 2,920 | 904 | 603 | 12,390 |
| Wisconsin | 119,145 | 2,733 | 7,593 | 3,593 | 592 | 25,243 | 37,106 | 10,241 | 7,397 | 24,647 |
| Wyoming | 38,909 | 56 | 57 | 421 | 16,045 | 7,135 | 3,701 | ---------- | 1,260 | 10,234 |

Source: Engineering Construction Markets, January-February 1948; published by Engineering News-Record and Construction Methods, New York, N. Y.

## No. 889.—Building Construction in Cities of 50,000 or More Inhabitants—Value of All Construction and Number of New Dwelling Units: 1943 to 1947

[Valuation figures are derived from estimates of construction costs made by prospective builders when applying for permits to build and value of contracts awarded by Federal Government. No land costs are included. For type of building covered see table 882. Cities shown had a population of 50,000 and over in 1940]

| City | Value of all construction ($1,000) | | | | | Number of new dwelling units | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1943 | 1944 | 1945 | 1946 | 1947 [1] | 1943 | 1944 | 1945 | 1946 | 1947 [1] |
| Akron, Ohio | 15,926 | 7,838 | 10,300 | 13,880 | 18,037 | 2,520 | 635 | 850 | 1,381 | 1,006 |
| Albany, N. Y. | 560 | 727 | 1,471 | 4,935 | 7,184 | | | 11 | 108 | 449 |
| Allentown, Pa. | 2,113 | 1,890 | 1,658 | 4,498 | 5,632 | 416 | 391 | 24 | 275 | 391 |
| Altoona, Pa. | 368 | 406 | 728 | 1,491 | 2,708 | 1 | 1 | 8 | 185 | 119 |
| Amarillo, Tex. | 641 | 1,264 | 3,833 | 7,566 | 9,111 | 150 | 346 | 545 | 1,193 | 1,152 |
| Arlington Co., Va. [2] | 16,143 | 7,007 | 6,874 | 14,023 | 24,709 | 3,640 | 557 | 523 | 1,458 | 2,611 |
| Asheville, N. C. | 217 | 261 | 1,318 | 1,753 | 2,951 | 4 | 14 | 55 | 231 | 263 |
| Atlanta, Ga. | 1,993 | 4,070 | 8,665 | 23,403 | 28,439 | 289 | 604 | 534 | 1,533 | 1,379 |
| Atlantic City, N. J. | 400 | 1,331 | 1,685 | 2,188 | 2,017 | | 1 | 5 | 167 | 16 |
| Augusta, Ga. | 646 | 369 | 554 | 1,965 | 3,592 | 1 | 14 | 51 | 263 | 285 |
| Austin, Tex. | 438 | 661 | 5,229 | 19,033 | 20,608 | 120 | 179 | 744 | 3,789 | 2,234 |
| Baltimore, Md. | 11,932 | 11,210 | 12,361 | 50,016 | 45,168 | 2,629 | 944 | 665 | 5,045 | 5,513 |
| Bayonne, N. J. | 986 | 1,274 | 1,777 | 1,774 | 1,786 | | | 1 | 219 | 169 |
| Beaumont, Tex. | 352 | 805 | 1,729 | 3,798 | 6,708 | 75 | 239 | 190 | 663 | 800 |
| Berkeley, Calif. | 6,290 | 2,856 | 4,331 | 7,079 | 8,590 | 2,571 | 540 | 383 | 389 | 309 |
| Bethlehem, Pa. | 1,545 | 483 | 788 | 2,581 | 2,671 | 410 | 2 | 33 | 165 | 164 |
| Binghamton, N. Y. | 722 | 715 | 3,069 | 3,102 | 4,010 | | 1 | 33 | 372 | 159 |
| Birmingham, Ala. | 3,773 | 3,207 | 5,636 | 15,764 | 18,041 | 60 | 129 | 354 | 2,067 | 2,416 |
| Boston, Mass. [3] | 6,056 | 4,886 | 10,404 | 42,906 | 31,239 | 27 | | 48 | 1,023 | 975 |
| Bridgeport, Conn. | 4,884 | 1,009 | 2,736 | 5,304 | 5,953 | 623 | 40 | 58 | 222 | 441 |
| Brockton, Mass. | 212 | 251 | 587 | 1,683 | 3,113 | 1 | | 21 | 127 | 170 |
| Buffalo, N. Y. | 6,235 | 3,911 | 4,596 | 16,197 | 25,906 | 933 | 61 | 149 | 270 | 466 |
| Cambridge, Mass. | 1,483 | 1,519 | 2,038 | 8,818 | 9,331 | | 2 | 101 | 766 | 57 |
| Camden, N. J. | 1,165 | 768 | 2,440 | 5,314 | 9,885 | 138 | 2 | 42 | 362 | 349 |
| Canton, Ohio | 2,785 | 1,147 | 2,139 | 4,672 | 4,527 | 405 | 54 | 128 | 364 | 356 |
| Cedar Rapids, Iowa | 974 | 1,170 | 2,218 | 5,644 | 4,057 | 9 | 60 | 119 | 645 | 348 |
| Charleston, S. C. | 1,648 | 1,190 | 2,842 | 1,546 | 1,809 | 26 | 11 | 35 | 44 | 60 |
| Charleston, W. Va. | 1,426 | 401 | 2,654 | 3,403 | [4] | 25 | 5 | 67 | 238 | [4] |
| Charlotte, N. C. | 275 | 803 | 4,217 | 9,700 | 10,955 | 2 | 2 | 208 | 1,129 | 1,357 |
| Chattanooga, Tenn. | 569 | 710 | 2,128 | 4,923 | 6,782 | 14 | 10 | 150 | 580 | 513 |
| Chester, Pa. | 1,238 | 181 | 676 | 3,713 | 1,146 | 310 | 2 | 13 | 355 | 35 |
| Chicago, Ill. | 69,775 | 35,751 | 63,094 | 122,405 | 120,743 | 4,055 | 3,970 | 4,727 | 7,341 | 5,455 |
| Cicero, Ill. | 1,447 | 1,413 | 2,748 | 2,707 | 3,098 | 197 | 191 | 223 | 76 | 158 |
| Cincinnati, Ohio | 2,140 | 2,460 | 7,517 | 35,625 | 31,117 | 24 | 9 | 410 | 2,132 | 1,144 |
| Cleveland, Ohio | 23,774 | 22,271 | 24,872 | 38,547 | 43,028 | 3,011 | 1,821 | 881 | 2,157 | 2,123 |
| Cleveland Heights, Ohio | 509 | 304 | 2,398 | 1,361 | 3,394 | 123 | 49 | 236 | 99 | 182 |
| Columbia, S. C. | 243 | 166 | 1,243 | 3,328 | 5,542 | 59 | 7 | 137 | 565 | 577 |
| Columbus, Ga. | 279 | 794 | 1,842 | 3,483 | 3,687 | 3 | 182 | 145 | 120 | 206 |
| Columbus, Ohio | 2,066 | 1,732 | 7,444 | 19,464 | 23,849 | 363 | 69 | 498 | 2,516 | 1,977 |
| Corpus Christi, Tex. | 1,802 | 2,855 | 3,775 | 9,873 | 14,612 | 338 | 356 | 641 | 1,156 | 1,705 |
| Covington, Ky. | 48 | 74 | [4] | 958 | 835 | | | [4] | 22 | 28 |
| Dallas, Tex. | 5,879 | 7,105 | 17,477 | 44,628 | 53,082 | 1,430 | 1,620 | 1,459 | 5,546 | 7,736 |
| Davenport, Iowa | 629 | 553 | 1,475 | 4,270 | 4,637 | 8 | 8 | 92 | 438 | 319 |
| Dayton, Ohio | 10,168 | 3,350 | 12,466 | 10,488 | 13,259 | 2,968 | 323 | 652 | 859 | 1,148 |
| Dearborn, Mich. | 12,905 | 2,192 | 6,771 | 9,819 | 17,137 | 1,146 | 119 | 162 | 774 | 1,352 |
| Decatur, Ill. | 929 | 1,128 | 606 | 2,349 | 4,057 | 129 | 244 | 50 | 259 | 229 |
| Denver, Colo. | 2,688 | 4,716 | 16,305 | 30,049 | 29,178 | 288 | 556 | 2,403 | 5,181 | 2,692 |
| Des Moines, Iowa | 316 | 3,474 | 3,980 | 13,255 | 12,661 | 11 | 15 | 121 | 1,394 | 968 |
| Detroit, Mich. | 46,978 | 34,161 | 67,975 | 116,848 | 147,607 | 9,166 | 3,709 | 4,027 | 9,496 | 10,973 |
| Duluth, Minn. | 2,068 | 1,054 | 1,712 | 4,432 | 4,540 | 13 | 21 | 64 | 524 | 299 |
| Durham, N. C. | 497 | 482 | 2,065 | 4,380 | 5,646 | 65 | 2 | 107 | 326 | 516 |
| East Chicago, Ind. | 1,765 | 1,046 | 2,436 | 3,570 | 2,614 | 8 | 42 | 18 | 46 | 40 |
| East Orange, N. J. | 549 | 451 | 850 | 2,310 | 4,348 | 61 | | 2 | 304 | 336 |
| East St. Louis, Ill. | 682 | 666 | 1,675 | 3,135 | 2,307 | 2 | 11 | 49 | 191 | 213 |
| Elizabeth, N. J. | 780 | 542 | 849 | 2,789 | 5,395 | 114 | | 13 | 289 | 717 |
| El Paso, Tex. | 449 | 1,346 | 2,448 | 5,325 | 7,870 | 47 | 199 | 127 | 707 | 566 |
| Erie, Pa. | 4,722 | 1,094 | 2,152 | 5,739 | 4,663 | 302 | 61 | 97 | 578 | 433 |
| Evanston, Ill. | 130 | 718 | 4,425 | 6,910 | 8,154 | | 31 | 159 | 441 | 502 |
| Evansville, Ind. | 4,116 | 1,532 | 2,599 | 3,573 | 4,624 | 1,918 | 351 | 123 | 337 | 787 |
| Fall River, Mass. | 150 | 393 | 914 | 2,025 | 1,788 | 1 | 1 | 16 | 204 | 118 |
| Flint, Mich. | 3,672 | 3,330 | 6,422 | 10,497 | 11,141 | 456 | 301 | 243 | 891 | 875 |
| Fort Wayne, Ind. | 1,158 | 1,094 | 2,255 | 7,002 | 8,647 | 82 | 118 | 142 | 790 | 772 |
| Fort Worth, Tex. | 6,798 | 4,569 | 9,241 | 24,227 | 27,897 | 2,371 | 1,133 | 1,558 | 4,234 | 4,493 |
| Fresno, Calif. | 876 | 1,318 | 3,103 | 8,750 | 14,786 | | 206 | 255 | 909 | 755 |
| Galveston, Tex. | 2,228 | 888 | 1,349 | 2,939 | 2,472 | 734 | 192 | 66 | 261 | 206 |

For footnotes, see p. 791.

## No. 889.—Building Construction in Cities of 50,000 or More Inhabitants—Value of All Construction and Number of New Dwelling Units: 1943 to 1947—Continued

| City | Value of all construction ($1,000) | | | | | Number of new dwelling units | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1943 | 1944 | 1945 | 1946 | 1947[1] | 1943 | 1944 | 1945 | 1946 | 1947[1] |
| Gary, Ind | 1,632 | 2,221 | 3,062 | 6,079 | 9,194 | 84 | 337 | 303 | 686 | 1,199 |
| Glendale, Calif | 344 | 1,597 | 4,098 | 8,272 | 10,360 | 38 | 359 | 454 | 857 | 972 |
| Grand Rapids, Mich | 1,044 | 1,236 | 5,431 | 8,632 | 9,460 | ------- | 33 | 331 | 873 | 658 |
| Greensboro, N. C | 126 | 312 | 3,591 | 4,299 | 8,888 | 2 | 19 | 147 | 618 | 1,160 |
| Hamilton, Ohio | 503 | 150 | 542 | 2,562 | 4,542 | 33 | 1 | 43 | 301 | 419 |
| Hammond, Ind | 2,395 | 1,964 | 6,063 | 7,682 | 6,723 | 164 | 166 | 227 | 744 | 659 |
| Harrisburg, Pa | 867 | 1,970 | 866 | 4,237 | 5,662 | 119 | 115 | 12 | 448 | 172 |
| Hartford, Conn | 3,725 | 1,057 | 2,925 | 10,459 | 10,171 | 636 | 8 | 23 | 366 | 207 |
| Highland Park, Mich | 535 | 661 | 2,192 | 1,351 | 3,301 | ------- | ------- | 3 | 2 | 1 |
| Hoboken, N. J | 2,190 | 481 | 682 | 1,786 | 2,315 | ------- | ------- | ------- | ------- | ------- |
| Holyoke, Mass | 412 | 273 | 614 | 1,826 | 1,767 | 52 | 2 | 24 | 36 | 130 |
| Houston, Tex | 6,273 | 10,314 | 45,336 | 53,899 | 72,631 | 1,563 | 1,517 | 1,980 | 5,709 | 5,881 |
| Huntington, W. Va | 202 | 1,024 | 2,100 | 4,095 | 4,965 | 6 | 40 | 160 | 740 | 584 |
| Indianapolis, Ind | 2,997 | 6,049 | 6,874 | 14,783 | 26,806 | 308 | 494 | 523 | 1,771 | 2,377 |
| Irvington, N. J | 631 | 971 | 517 | 799 | 2,462 | 182 | 246 | 13 | 36 | 326 |
| Jackson, Miss | 531 | 895 | 3,662 | 6,946 | 9,661 | 100 | 199 | 382 | 835 | 934 |
| Jacksonville, Fla | 6,756 | 5,152 | 7,879 | 15,686 | 21,128 | 1,775 | 509 | 585 | 1,460 | 1,541 |
| Jersey City, N. J | 1,683 | 1,209 | 1,295 | 3,878 | 6,357 | ------- | 1 | ------- | 377 | 13 |
| Johnstown, Pa | 175 | 579 | 851 | 1,641 | 994 | 1 | 1 | 5 | 44 | 39 |
| Kalamazoo, Mich | 264 | 572 | 2,061 | 3,232 | 2,809 | 1 | 3 | 4 | 271 | 62 |
| Kansas City, Kans | 612 | 2,672 | 2,076 | 2,997 | 3,847 | 124 | 519 | 117 | 295 | 304 |
| Kansas City, Mo | 4,194 | 6,684 | 9,401 | 18,202 | 17,668 | 35 | 631 | 228 | 1,545 | 910 |
| Knoxville, Tenn | 818 | 4,317 | 4,426 | 13,383 | 10,656 | 83 | 765 | 287 | 1,272 | 812 |
| Lakewood, Ohio | 880 | 200 | 667 | 1,294 | 1,577 | 217 | 7 | 32 | 229 | 78 |
| Lancaster, Pa | 554 | 432 | 638 | 1,628 | 4,640 | 48 | 30 | 17 | 118 | 285 |
| Lansing, Mich | 865 | 1,517 | 1,969 | 4,483 | 4,612 | 46 | 30 | 71 | 391 | 355 |
| Lawrence, Mass | 202 | 348 | 924 | 1,611 | 1,997 | 1 | 1 | 7 | 49 | 100 |
| Lincoln, Nebr | 742 | 1,439 | 2,113 | 7,124 | 9,875 | 70 | 127 | 159 | 447 | 1,023 |
| Little Rock, Ark | 381 | 1,156 | 2,890 | 7,585 | 11,722 | 43 | 85 | 343 | 844 | 1,713 |
| Long Beach, Calif | 10,816 | 16,673 | 16,073 | 37,426 | 35,208 | 2,971 | 3,354 | 2,679 | 3,330 | 3,979 |
| Los Angeles, Calif | 39,591 | 66,295 | 91,570 | 227,742 | 259,041 | 3,408 | 9,091 | 8,063 | 24,532 | 21,138 |
| Louisville, Ky | 4,471 | 4,613 | 7,994 | 15,957 | 18,769 | 613 | 259 | 302 | 1,877 | 2,665 |
| Lowell, Mass | 155 | 211 | 419 | 1,697 | 1,871 | 3 | 3 | 4 | 323 | 82 |
| Lynn, Mass | 861 | 597 | 686 | 2,897 | 2,962 | 3 | 1 | 11 | 218 | 124 |
| Macon, Ga | 759 | 892 | 1,150 | 2,438 | 2,937 | 153 | 23 | 27 | 175 | 132 |
| Madison, Wis | 1,394 | 830 | 2,621 | 6,183 | 5,354 | 73 | 25 | 215 | 399 | 625 |
| Malden, Mass | 352 | 166 | 234 | 2,293 | 1,798 | 84 | 1 | 4 | 150 | 82 |
| Manchester, N. H | 288 | 405 | 1,080 | 3,578 | 4,830 | 3 | 4 | 65 | 344 | 460 |
| McKeesport, Pa | 427 | 195 | 521 | 1,203 | 1,567 | 39 | 4 | 9 | 36 | 66 |
| Medford, Mass | 250 | 62 | 377 | 1,926 | 2,003 | ------- | 1 | 5 | 354 | 77 |
| Memphis, Tenn | 4,225 | 7,927 | 15,305 | 22,581 | 27,047 | 686 | 740 | 1,253 | 2,488 | 3,440 |
| Miami, Fla | 6,196 | 5,237 | 14,564 | 26,396 | 51,628 | ------- | 459 | 1,438 | 2,615 | 6,043 |
| Milwaukee, Wis | 7,077 | 6,368 | 16,657 | 36,263 | 31,614 | 767 | 402 | 1,125 | 2,783 | 1,733 |
| Minneapolis, Minn | 2,521 | 6,077 | 16,384 | 29,770 | 30,931 | 4 | 192 | 872 | 2,935 | 1,381 |
| Mobile, Ala | 2,961 | 1,297 | 3,736 | 5,297 | 5,493 | 621 | 310 | 270 | 771 | 688 |
| Montgomery, Ala | 284 | 1,822 | 3,616 | 4,281 | 6,015 | 79 | 431 | 356 | 876 | 965 |
| Mount Vernon, N. Y | 101 | 134 | 869 | 1,640 | 2,655 | ------- | ------- | 211 | 70 | 106 |
| Nashville, Tenn | 3,157 | 1,536 | 4,160 | 7,959 | 6,798 | 18 | 53 | 238 | 701 | 522 |
| Newark, N. J | 5,709 | 2,751 | 6,319 | 11,127 | 16,080 | 70 | 29 | 298 | 419 | 695 |
| New Bedford, Mass | 384 | 796 | 744 | 2,649 | 2,166 | ------- | 1 | 28 | 268 | 126 |
| New Britain, Conn | 442 | 397 | 2,185 | 3,080 | 1,707 | 20 | 7 | 43 | 413 | 143 |
| New Haven, Conn | 1,477 | 1,395 | 2,929 | 8,087 | 7,774 | 79 | 14 | 35 | 732 | 338 |
| New Orleans, La | 27,664 | 20,237 | 7,362 | 15,072 | 12,452 | 982 | 4,563 | 1,731 | 2,427 | 1,335 |
| New Rochelle, N. Y | 183 | 167 | 964 | 2,557 | 2,785 | ------- | 1 | 29 | 192 | 90 |
| Newton, Mass | 313 | 271 | 941 | 3,522 | 7,625 | 7 | ------- | 90 | 296 | 385 |
| New York, N. Y.:[5] | | | | | | | | | | |
| Bronx | 2,636 | 4,776 | 2,504 | 10,578 | 14,781 | 4 | 17 | 104 | 888 | 908 |
| Brooklyn | 7,771 | 15,630 | 7,260 | 34,367 | 46,872 | 7 | 2 | 549 | 4,443 | 2,474 |
| Manhattan | 4,093 | 11,916 | 14,829 | 141,757 | 62,268 | 2 | ------- | 389 | 25,776 | 5,530 |
| Queens | 7,582 | 7,213 | 9,666 | 64,412 | 79,062 | 11 | 96 | 735 | 8,151 | 8,893 |
| Richmond | 3,148 | 1,868 | 832 | 3,285 | 3,816 | 9 | 35 | 55 | 239 | 345 |
| Niagara Falls, N. Y | 6,407 | 936 | 1,891 | 4,233 | 6,654 | 2,448 | 21 | 64 | 249 | 398 |
| Norfolk, Va | 7,397 | 9,659 | 5,654 | 5,474 | 16,402 | 943 | 13 | 84 | 585 | 1,419 |
| Oakland, Calif | 19,441 | 24,689 | 15,562 | 23,363 | 27,389 | 3,239 | 1,022 | 1,130 | 1,406 | 1,708 |
| Oak Park, Ill | 152 | 182 | 571 | 866 | 1,607 | 14 | ------- | 16 | 89 | 165 |
| Oklahoma City, Okla | 5,408 | 2,443 | 6,123 | 13,822 | 14,276 | 949 | 473 | 612 | 1,538 | 1,935 |
| Omaha, Nebr | 5,263 | 5,476 | 4,773 | 13,155 | 8,823 | 159 | 490 | 322 | 1,059 | 931 |
| Pasadena, Calif | 583 | 1,521 | 4,395 | 12,959 | 13,819 | 2 | 34 | 379 | 782 | 883 |
| Passaic, N. J | 404 | 446 | 1,300 | 2,575 | 3,038 | 48 | ------- | 88 | 194 | 240 |
| Paterson, N. J | 811 | 1,284 | 1,535 | 3,821 | 3,108 | 30 | 4 | 5 | 309 | 99 |
| Pawtucket, R. I | 178 | 168 | 831 | 2,561 | 5,505 | ------- | ------- | 68 | 273 | 435 |

For footnotes, see p. 791.

No. 889.—BUILDING CONSTRUCTION IN CITIES OF 50,000 OR MORE INHABITANTS—VALUE OF ALL CONSTRUCTION AND NUMBER OF NEW DWELLING UNITS: 1943 TO 1947—Continued

| CITY | VALUE OF ALL CONSTRUCTION ($1,000) | | | | | NUMBER OF NEW DWELLING UNITS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1943 | 1944 | 1945 | 1946 | 1947 [1] | 1943 | 1944 | 1945 | 1946 | 1947 [1] |
| Peoria, Ill. | 497 | 992 | 2,318 | 4,436 | 4,451 | 1 | 1 | 51 | 316 | 314 |
| Phoenix, Ariz. | 1,918 | 2,471 | 6,923 | 8,534 | 9,656 | 384 | 310 | 867 | 817 | 818 |
| Philadelphia, Pa. | 23,420 | 17,424 | 22,632 | 65,499 | 72,386 | 4,015 | 170 | 750 | 5,611 | 5,321 |
| Pittsburgh, Pa. | 5,170 | 3,330 | 8,234 | 18,204 | 19,700 | 580 | 213 | 274 | 1,386 | 1,760 |
| Pontiac, Mich. | 1,248 | 1,598 | 8,777 | 9,605 | 4,438 | 172 | 214 | 84 | 345 | 241 |
| Portland, Maine. | 2,427 | 498 | 1,411 | 2,643 | 3,336 | 761 | 35 | 13 | 104 | 183 |
| Portland, Oreg. | 18,850 | 8,022 | 12,336 | 34,922 | 39,953 | 4,830 | 666 | 710 | 2,434 | 2,274 |
| Portsmouth, Va. | 5,645 | 833 | 1,220 | 1,588 | 1,596 | 1,401 | 16 | 51 | 61 | 324 |
| Providence, R. I. | 884 | 987 | 2,670 | 12,529 | 8,636 | ------- | 2 | 46 | 197 | 178 |
| Pueblo, Colo. | 536 | 737 | 885 | 2,132 | 1,966 | 103 | 52 | 152 | 332 | 308 |
| Quincy, Mass. | 900 | 634 | 1,151 | 3,618 | 4,064 | 39 | ------- | 36 | 274 | 324 |
| Racine, Wis. | 709 | 1,749 | 2,139 | 3,206 | 6,563 | 87 | 225 | 157 | 274 | 348 |
| Reading, Pa. | 775 | 553 | 1,364 | 2,776 | 2,645 | ------- | ------- | 27 | 101 | 29 |
| Richmond, Va. | 1,409 | 2,558 | 7,770 | 18,266 | 16,611 | 40 | 209 | 1,066 | 1,799 | 1,722 |
| Roanoke, Va. | 153 | 321 | 1,241 | 5,982 | 7,504 | ------- | 6 | 103 | 565 | 455 |
| Rochester, N. Y. | 1,483 | 1,607 | 11,296 | 10,918 | 15,847 | 23 | ------- | 148 | 631 | 1,090 |
| Rockford, Ill. | 732 | 1,109 | 2,325 | 3,736 | 4,713 | 61 | 83 | 131 | 539 | 352 |
| Sacramento, Calif. | 580 | 1,085 | 11,757 | 13,427 | 12,849 | 3 | 7 | 377 | 1,779 | 1,174 |
| Saginaw, Mich. | 2,295 | 1,216 | 1,857 | 4,460 | 3,405 | 333 | 120 | 81 | 602 | 378 |
| St. Joseph, Mo. | 414 | 76 | 140 | 759 | 1,154 | 3 | 5 | 12 | 68 | 99 |
| St. Louis, Mo. | 4,019 | 8,077 | 14,756 | 31,639 | 28,493 | 39 | 57 | 190 | 2,370 | 841 |
| St. Paul, Minn. | 1,771 | 6,579 | 9,513 | 20,118 | 19,126 | 4 | 93 | 553 | 1,797 | 1,174 |
| St. Petersburg, Fla. | 612 | 829 | 4,614 | 11,088 | 17,426 | 1 | 46 | 565 | 1,533 | 2,295 |
| Salt Lake City, Utah | 2,626 | 4,621 | 6,233 | 14,057 | 11,368 | 292 | 734 | 400 | 1,709 | 1,146 |
| San Antonio, Tex. | 3,571 | 5,332 | 14,518 | 25,654 | 30,203 | 1,040 | 879 | 1,741 | 3,788 | 5,222 |
| San Diego, Calif. | 21,393 | 19,697 | 22,167 | 23,100 | 30,428 | 5,827 | 1,942 | 2,244 | 2,931 | 3,438 |
| San Francisco, Calif. | 28,432 | 24,564 | 2,780 | 50,959 | 48,290 | 4,722 | 3,814 | 3,762 | 3,530 | 3,102 |
| San Jose, Calif. | 429 | 1,131 | 3,526 | 10,376 | 11,451 | ------- | 8 | 269 | 994 | 818 |
| Santa Monica, Calif. | 1,375 | 1,666 | 3,245 | 9,894 | 11,817 | 166 | 352 | 364 | 1,265 | 1,428 |
| Savannah, Ga. | 2,898 | 1,107 | 2,156 | 3,443 | 5,886 | 808 | 210 | 214 | 480 | 578 |
| Schenectady, N. Y. | 578 | 2,599 | 2,348 | 4,553 | 2,541 | 1 | ------- | 5 | 177 | 124 |
| Scranton, Pa. | 5,788 | 1,211 | 1,326 | 2,417 | 3,253 | ------- | ------- | 2 | 25 | 27 |
| Seattle, Wash. | 24,148 | 17,290 | 20,828 | 41,807 | 40,435 | 4,306 | 1,724 | 2,827 | 3,364 | 3,346 |
| Shreveport, La. | 409 | 1,608 | 2,636 | 9,040 | 22,004 | 24 | 78 | 418 | 1,247 | 1,202 |
| Sioux City, Iowa. | 109 | 601 | 1,184 | 2,740 | 3,293 | 1 | 5 | 37 | 442 | 231 |
| Somerville, Mass. | 182 | 216 | 670 | 1,609 | 2,500 | ------- | ------- | ------- | 2 | 63 |
| South Bend, Ind. | 2,694 | 3,040 | 6,437 | 7,085 | 9,814 | 101 | 483 | 398 | 906 | 640 |
| Spokane, Wash. | 12,162 | 3,320 | 7,622 | 14,181 | 18,597 | 3,453 | 64 | 333 | 1,623 | 1,731 |
| Springfield, Ill. | 189 | 425 | 816 | 4,915 | 4,865 | 16 | 10 | 39 | 472 | 351 |
| Springfield, Mass. | 4,293 | 1,845 | 4,780 | 9,606 | 11,220 | 666 | 15 | 200 | 929 | 574 |
| Springfield, Mo. | 507 | 1,033 | 1,890 | 4,336 | 4,762 | 8 | 74 | 238 | 637 | 589 |
| Springfield, Ohio. | 1,065 | 830 | 2,217 | 2,937 | 5,038 | 179 | 68 | 29 | 308 | 257 |
| Stockton, Calif. | 2,240 | 1,375 | 10,662 | 6,110 | 6,627 | 715 | 21 | 445 | 604 | 575 |
| Syracuse, N. Y. | 1,238 | 1,504 | 3,097 | 7,254 | 6,503 | 62 | 22 | 115 | 874 | 374 |
| Tacoma, Wash. | 6,011 | 2,058 | 5,750 | 11,273 | 11,570 | 1,099 | 270 | 457 | 1,073 | 753 |
| Tampa, Fla. | 1,765 | 3,325 | 4,746 | 8,157 | 9,316 | 299 | 703 | 402 | 868 | 887 |
| Terre Haute, Ind. | 373 | 491 | 596 | 3,059 | 1,372 | 2 | ------- | ------- | 527 | 119 |
| Toledo, Ohio. | 1,988 | 2,179 | 5,752 | 10,213 | 12,017 | ------- | 157 | 358 | 948 | 646 |
| Topeka, Kans. | 59 | 892 | 1,190 | 4,257 | 3,780 | 3 | 55 | 212 | 855 | 446 |
| Trenton, N. J. | 1,542 | 927 | 2,132 | 2,858 | 3,058 | 320 | 1 | 13 | 172 | 61 |
| Troy, N. Y. | 148 | 265 | 444 | 4,350 | 2,166 | 1 | 1 | ------- | 637 | 19 |
| Tulsa, Okla. | 1,371 | 1,158 | 4,228 | 9,511 | 11,288 | 209 | 275 | 525 | 1,266 | 1,233 |
| Union City, N. J. | 87 | 370 | 428 | 614 | 795 | ------- | ------- | ------- | 1 | 1 |
| Upper Darby Township, Pa. [2] | 1,266 | 131 | 1,069 | 4,179 | 4,803 | 381 | ------- | 157 | 570 | 601 |
| Utica, N. Y. | 265 | 1,218 | 1,450 | 2,502 | 2,233 | ------- | 187 | 9 | 76 | 129 |
| Waco, Tex. | 549 | 954 | 2,168 | 5,016 | 8,731 | 106 | 272 | 416 | 983 | 853 |
| Washington, D. C. | 24,315 | 19,918 | 26,574 | 46,253 | 42,964 | 5,234 | 2,598 | 3,352 | 4,000 | 4,303 |
| Waterbury, Conn. | 2,394 | 1,182 | 1,640 | 3,238 | 4,317 | 550 | 106 | 65 | 432 | 261 |
| Waterloo, Iowa. | 290 | 757 | 2,847 | 5,137 | 4,413 | 1 | 23 | 165 | 588 | 312 |
| Wheeling, W. Va. | 291 | 449 | 1,823 | 2,389 | 3,257 | 1 | 1 | 1 | 42 | 46 |
| Wichita, Kans. | 4,687 | 2,251 | 3,029 | 14,003 | 16,643 | 1,484 | 38 | 165 | 1,690 | 1,993 |
| Wilkes-Barre, Pa. | 275 | 369 | 569 | 1,154 | 3,648 | ------- | ------- | ------- | ------- | 97 |
| Wilmington, Del. | 3,706 | 1,144 | 4,254 | 5,063 | 3,332 | 796 | 60 | 48 | 208 | 111 |
| Winston-Salem, N. C. | 380 | 1,086 | 1,492 | 3,387 | 6,057 | 2 | 4 | 119 | 434 | 584 |
| Worcester, Mass. | 645 | 1,064 | 3,164 | 7,443 | 8,033 | 12 | 13 | 288 | 800 | 563 |
| Yonkers, N. Y. | 322 | 514 | 1,281 | 6,843 | 10,288 | ------- | 2 | 66 | 577 | 1,152 |
| York, Pa. | 382 | 278 | 765 | 2,221 | 3,205 | 50 | ------- | 13 | 176 | 115 |
| Youngstown, Ohio. | 400 | 607 | 1,914 | 4,822 | 6,528 | 12 | 8 | 60 | 466 | 366 |

[1] Preliminary. [2] Classified as urban under special rule by Bureau of the Census, 1940.
[3] Figures represent applications filed. [4] Not available.
[5] 1943–44 represent applications filed, adjusted to eliminate large postwar projects. Data for 1945 to 1947 represent work actually started, based on inspections instead of on applications filed, as in previous years.

Source: Department of Labor, Bureau of Labor Statistics: 1943 from annual reports on building construction; subsequent annual and current data for cities of 100,000 or more published in monthly releases; data for cities 50,000 to 100,000 from records not published elsewhere.

## No. 890.—Construction and Building Cost Indexes: 1913 to 1947

[1913=100 except Aberthaw for which base year is 1914. For Bureau of Labor Statistics index of building material prices, see pp. 296 and 297]

| Year | AAC (new) [1] | AGC [2] | ENR Const.[3] | ENR Bldg.[3] | Boeckh, N. Y.[4] | Aberthaw [5] | Fuller [6] | Turner [7] |
|---|---|---|---|---|---|---|---|---|
| 1913 | 100 | 100 | 100 | 100 | 100 | ---------- | 100 | 100 |
| 1914 | 98 | 99 | 89 | 92 | 102 | 100 | 102 | 100 |
| 1915 | 101 | 100 | 93 | 95 | 99 | 100 | 130 | 103 |
| 1916 | 116 | 114 | 130 | 131 | 116 | 107 | 143 | 120 |
| 1917 | 143 | 152 | 181 | 167 | 135 | 126 | 156 | 147 |
| 1918 | 177 | 175 | 189 | 159 | 155 | 147 | 160 | 166 |
| 1919 | 229 | 198 | 198 | 159 | 171 | 172 | 168 | 196 |
| 1920 | 283 | 247 | 251 | 207 | 230 | 234 | 209 | 252 |
| 1921 | 216 | 200 | 202 | 166 | 193 | 179 | 188 | 183 |
| 1922 | 200 | 184 | 174 | 155 | 187 | 170 | 175 | 175 |
| 1923 | 224 | 201 | 214 | 186 | 215 | 202 | 190 | 196 |
| 1924 | 222 | 202 | 215 | 186 | 215 | 198 | 194 | 194 |
| 1925 | 217 | 199 | 207 | 183 | 211 | 195 | 193 | 195 |
| 1926 | 217 | 197 | 208 | 185 | 230 | 197 | 202 | 195 |
| 1927 | 217 | 200 | 206 | 186 | 223 | 193 | 197 | 190 |
| 1928 | 217 | 199 | 207 | 188 | 238 | 191 | 196 | 190 |
| 1929 | 217 | 203 | 207 | 191 | 242 | 190 | 201 | 185 |
| 1930 | 200 | 200 | 203 | 185 | 238 | 186 | 199 | 165 |
| 1931 | 178 | 196 | 181 | 169 | 230 | 176 | 180 | 145 |
| 1932 | 155 | 171 | 157 | 141 | 208 | 168 | 157 | 136 |
| 1933 | 150 | 163 | 170 | 148 | 197 | 170 | 155 | 140 |
| 1934 | 161 | 178 | 198 | 167 | 209 | 176 | 171 | 160 |
| 1935 | 162 | 176 | 196 | 166 | 200 | 177 | 167 | 162 |
| 1936 | 170 | 179 | 206 | 172 | 205 | 184 | 168 | 169 |
| 1937 | 198 | 188 | 235 | 196 | 226 | 199 | 187 | 192 |
| 1938 | 199 | 189 | 236 | 197 | 243 | 191 | 192 | 188 |
| 1939 | 200 | 188 | 236 | 197 | 248 | 190 | 195 | 182 |
| 1940 | 204 | 189 | 242 | 203 | 251 | 193 | 196 | 193 |
| 1941 | 217 | 198 | 258 | 211 | 255 | 208 | 206 | 215 |
| 1942 | 241 | 209 | 276 | 222 | 260 | 223 | 229 | 245 |
| 1943 | 252 | 216 | 290 | 229 | 264 | 225 | 238 | 257 |
| 1944 | 261 | 223 | 299 | 235 | 284 | 227 | 240 | 244 |
| 1945 | 271 | 231 | 308 | 239 | 294 | 236 | 241 | 263 |
| 1946 | 322 | 257 | 346 | 262 | 333 | 279 | 290 | 318 |
| 1947 | 430 | 296 | 407 | 308 | 386 | 304 | 354 | 380 |

[1] American Appraisal Co. Average for 30 cities of 4 types of buildings: Wood frame, brick-wood frame, brick-steel frame, reinforced concrete. Mechanicals not included. Based on actual appraisal costs. Available for individual cities. Recently revised to include adjustments for social security taxes, unemployment insurance and corresponding "overhead."

[2] Associated General Contractors of America. Wages and materials for 12 cities combined in 40-60 ratio. Wages, prevailing rates for hod carriers and common labor. Materials, weighted: Sand, gravel and crushed stone, 1; cement, 1; lumber, 1; hollow tile, ½; structural and reinforcing steel, ½.

[3] Engineering News Record construction cost index has 4 components: (1) Structural steel shapes, base price; (2) cement at Chicago; (3) lumber, which until 1935 was 12 x 12 long leaf yellow pine wholesale at New York, and since 1935 is 2 x 4 S4S pine and fir in carload lots, ENR 20-cities average; (4) common labor, ENR 20-cities average of wage rates in force. This construction cost index is designed to predict changes in construction cost trends and to measure the movement of construction costs in general. It is not intended to apply to any specific class of construction or to a particular locality. ENR Building Cost index: In practice, the construction cost index has been used widely to apply to building costs, and when common and skilled labor rates move in similar trends it is a satisfactory measure of relative building cost movement. However, following the low wage rates of 1932, common labor climbed much faster than skilled and reached new all-time highs by July 1937. The increase was in the lower ranges between union and nonunion. When "prevailing" wages became synonymous with union wages the gap closed up, hence the ENR 20-cities wage average increased more rapidly than the union rates. To provide a more representative measure of building cost movement, the skilled labor trend has been substituted for the common labor trend in the ENR Construction Cost index, and the ENR Building Cost index computed.

[4] E. H. Boeckh & Assoc., Inc. Individual series for 10 types of buildings for 16 areas. Weights based on studies of actual building costs—vary with different type of structures. Material prices are those paid by contractors to material dealers. Prevailing skilled and common wage rates from contractors. Base: United States average, 1926-29=100. Series given here is brick and concrete, New York, converted to 1913=100 base.

[5] Aberthaw. Until Mar. 31, 1946, New England, 7-story and basement (62' 4" x 202' 4"), reinforced concrete building built in 1914, repriced quarterly as a construction bid to duplicate original building; labor costs based on current experience with similar construction. Since Mar. 31, 1946, New England, composite of 36 major cost items in 3 multi-story and 2 one-story industrial buildings, including all mechanical trades, repriced using actual and estimated labor and material costs.

[6] George A. Fuller Company. Composite of 36 major cost elements, in 3 commercial type buildings, including mechanicals, elevators, wiring, heating and ventilating, repriced.

[7] Turner Construction Co. Eastern Cities. Own building cost experience applied to these factors: Labor rates, material prices, productivity of labor, efficiency of plant and management, competitive conditions.

Source: Engineering News-Record, New York, N. Y.; May 27, 1948 issue.

## No. 891.—Materials Consumption for New Construction: 1944 and 1945

[Data represent estimated quantities of materials required by construction activity, both public and private, in the United States. They are divided into 4 major categories: (1) Military, which covers Army and Navy establishments, camps, cantonments, hospitals, airfields and bases, storage facilities, etc. (2) Plant expansion, which includes the construction of industrial plants engaged in the production of ships, aircraft, and other war materials, (3) Housing, which represents civilian, nonmilitary housing, and (4) All other nonmilitary construction such as schools, hospitals, commercial establishments, streets, roads, sewer and water development, farm construction, and utilities. Estimates do not include materials consumed in the manufacture of machines, machine tool and processing equipment]

| Material and unit of measure | Year | Grand total | Maintenance, etc. | Total construction | Military | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Total | Housing | Aeronautics facilities | Other |
| Asphalt—1,000 short tons | 1944 | 1,379 | ---------- | 1,379 | 468 | 90 | 261 | 117 |
| | 1945 | 1,548 | ---------- | 1,548 | 307 | 73 | 125 | 109 |
| Brick (common and face)—millions | 1944 | 2,004 | [1] 652 | 1,352 | 161 | 49 | 44 | 68 |
| | 1945 | 2,213 | [1] 698 | 1,515 | 116 | 67 | 17 | 32 |
| Building blocks—do | 1944 | 276 | 80 | 196 | 4 | 2 | [2] | 2 |
| | 1945 | 335 | 95 | 240 | 5 | 3 | [2] | 2 |
| Building boards—million sq. ft. | 1944 | 1,088 | 322 | 766 | 254 | 82 | 104 | 68 |
| | 1945 | 1,058 | 360 | 698 | 123 | 39 | 38 | 46 |
| Cast iron—1,000 short tons | 1944 | 392 | ---------- | 392 | 141 | 44 | 24 | 73 |
| | 1945 | 429 | ---------- | 429 | 111 | 28 | 13 | 70 |
| Cement—1,000 bbls. | 1944 | 94,230 | [1] 17,972 | 76,258 | 17,224 | 2,308 | 9,957 | 4,959 |
| | 1945 | 108,597 | [1] 25,872 | 82,725 | 11,877 | 1,509 | 6,691 | 3,677 |
| Copper—short tons | 1944 | 29,616 | ---------- | 29,616 | 7,147 | 2,154 | 3,177 | 1,816 |
| | 1945 | 32,946 | ---------- | 32,946 | 4,640 | 1,604 | 1,420 | 1,616 |
| Gypsum board—million sq. ft. | 1944 | 2,107 | 235 | 1,872 | 234 | 75 | 94 | 65 |
| | 1945 | 2,172 | 285 | 1,887 | 142 | 57 | 39 | 46 |
| Lead—short tons | 1944 | 37,784 | ---------- | 37,784 | 11,694 | 3,573 | 3,444 | 4,677 |
| | 1945 | 34,572 | ---------- | 34,572 | 6,414 | 1,579 | 1,293 | 3,542 |
| Lumber—million bd. ft. | 1944 | 5,840 | ---------- | 5,840 | 1,273 | 610 | 269 | 394 |
| | 1945 | 4,603 | ---------- | 4,603 | 610 | 275 | 147 | 188 |
| Roofing materials—1,000 squares | 1944 | 65,317 | 52,328 | 12,989 | 6,704 | 2,149 | 2,749 | 1,806 |
| | 1945 | 66,940 | 53,448 | 13,492 | 4,907 | 1,440 | 1,614 | 1,853 |
| Sewer pipe (clay)—1,000 tons | 1944 | 784 | 235 | 549 | 114 | 35 | 31 | 48 |
| | 1945 | 818 | 236 | 582 | 76 | 29 | 18 | 29 |
| Steel—1,000 short tons | 1944 | 2,067 | ---------- | 2,067 | 207 | 38 | 93 | 76 |
| | 1945 | 2,746 | ---------- | 2,746 | 211 | 32 | 71 | 108 |
| Steel plate—do | 1944 | 286 | ---------- | 286 | 53 | 3 | 23 | 27 |
| | 1945 | 381 | ---------- | 381 | 43 | 5 | 16 | 22 |
| Structural tile—1,000 tons | 1944 | 800 | [1] 202 | 598 | 39 | 18 | 5 | 16 |
| | 1945 | 826 | [1] 197 | 629 | 22 | 6 | 5 | 11 |
| Zinc—short tons | 1944 | 10,370 | ---------- | 10,370 | 1,688 | 295 | 929 | 464 |
| | 1945 | 10,027 | ---------- | 10,027 | 1,124 | 258 | 452 | 414 |

| Material and unit of measure | Year | War plant expansion | | | Civilian housing | | | All other | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total | Government financed | Privately financed | Total | Government financed | Privately financed | Public | Private |
| Asphalt—1,000 short tons | 1944 | 186 | 149 | 37 | 169 | 63 | 106 | 422 | 134 |
| | 1945 | 231 | 129 | 102 | 166 | 34 | 132 | 619 | 225 |
| Brick—millions | 1944 | 452 | 344 | 108 | 701 | 194 | 507 | 8 | 30 |
| | 1945 | 586 | 300 | 286 | 731 | 126 | 605 | 29 | 53 |
| Building blocks—do | 1944 | 47 | 27 | 20 | 106 | 18 | 88 | 11 | 28 |
| | 1945 | 64 | 30 | 34 | 122 | 30 | 92 | 15 | 34 |
| Building boards—million sq. ft. | 1944 | 131 | 100 | 31 | 93 | 26 | 67 | 130 | 158 |
| | 1945 | 168 | 80 | 88 | 87 | 13 | 74 | 138 | 182 |
| Cast iron—1,000 short tons | 1944 | 130 | 114 | 17 | 59 | 14 | 45 | 38 | 24 |
| | 1945 | 181 | 106 | 75 | 61 | 9 | 52 | 42 | 34 |
| Cement—1,000 bbls. | 1944 | 9,079 | 8,239 | 840 | 6,966 | 1,993 | 4,973 | 33,259 | 9,730 |
| | 1945 | 11,248 | 6,254 | 4,994 | 6,841 | 851 | 5,990 | 39,189 | 13,570 |
| Copper—short tons | 1944 | 11,155 | 9,371 | 1,784 | 1,548 | 430 | 1,118 | 3,733 | 6,033 |
| | 1945 | 16,643 | 9,119 | 7,524 | 1,966 | 512 | 1,454 | 1,935 | 7,762 |
| Gypsum board—million sq. ft. | 1944 | 154 | 121 | 33 | 909 | 255 | 654 | 263 | 312 |
| | 1945 | 188 | 106 | 82 | 824 | 118 | 706 | 265 | 468 |
| Lead—short tons | 1944 | 9,231 | 7,943 | 1,288 | 6,219 | 1,728 | 4,491 | 3,554 | 6,986 |
| | 1945 | 12,361 | 7,669 | 4,692 | 5,476 | 901 | 4,575 | 2,826 | 7,495 |
| Lumber—million bd. ft. | 1944 | 726 | 556 | 170 | 1,518 | 407 | 1,111 | 405 | 1,918 |
| | 1945 | 551 | 286 | 265 | 1,634 | 169 | 1,465 | 312 | 1,496 |
| Roofing materials—1,000 squares | 1944 | 2,806 | 1,835 | 971 | 1,771 | 493 | 1,278 | 767 | 941 |
| | 1945 | 2,905 | 1,560 | 1,345 | 1,623 | 171 | 1,452 | 1,532 | 2,525 |
| Sewer pipe (clay)—1,000 tons | 1944 | 107 | 82 | 25 | 5 | 3 | 2 | 253 | 70 |
| | 1945 | 114 | 82 | 32 | 9 | 3 | 6 | 281 | 102 |
| Steel—1,000 short tons | 1944 | 916 | 786 | 130 | 74 | 19 | 55 | 518 | 352 |
| | 1945 | 1,331 | 864 | 467 | 96 | 16 | 80 | 488 | 620 |
| Steel plate—do | 1944 | 153 | 118 | 35 | 7 | 2 | 5 | 42 | 31 |
| | 1945 | 256 | 177 | 79 | 7 | 1 | 6 | 36 | 39 |
| Structural tile—1,000 tons | 1944 | 504 | 380 | 124 | 35 | 10 | 25 | 5 | 15 |
| | 1945 | 535 | 280 | 255 | 45 | 7 | 38 | 9 | 18 |
| Zinc—short tons | 1944 | 1,612 | 1,152 | 460 | 2,504 | 705 | 1,799 | 1,558 | 3,008 |
| | 1945 | 2,603 | 1,290 | 1,313 | 2,373 | 323 | 2,050 | 1,212 | 2,715 |

[1] Includes exports.
[2] Less than indicated unit.
Source: War Production Board; published in Facts for Industry Series 50–5.

## No. 892.—Building Costs, Small-House—Indexes: 1936 to 1947

[**Average month of 1935–39=100.** This index is a 3-month moving average of cost estimates for building a standard 6-room frame house. Data have been revised to reflect a new system of data collection utilizing Bureau of Labor Statistics facilities. See source publication for discussion of old and new concepts. Series discontinued after July 1947]

| YEAR | Yearly average | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL COST | | | | | | | | | | | | | |
| 1936 | 96.4 | 95.1 | 95.1 | 95.2 | 95.5 | 95.9 | 96.1 | 96.5 | 96.8 | 97.0 | 97.3 | 97.8 | 98.7 |
| 1937 | 104.5 | 99.9 | 101.1 | 102.9 | 104.3 | 105.2 | 105.8 | 106.2 | 106.3 | 106.2 | 105.9 | 105.5 | 104.8 |
| 1938 | 102.6 | 104.2 | 103.7 | 103.3 | 103.0 | 102.7 | 102.6 | 102.5 | 102.1 | 102.0 | 101.7 | 101.7 | 101.6 |
| 1939 | 101.5 | 101.5 | 101.5 | 101.6 | 101.4 | 101.2 | 101.1 | 101.0 | 100.9 | 101.3 | 101.8 | 102.3 | 102.3 |
| 1940 | 103.2 | 102.2 | 102.3 | 102.2 | 102.1 | 102.1 | 102.1 | 102.1 | 102.3 | 102.9 | 104.7 | 106.1 | 107.6 |
| 1941 | 113.1 | 108.4 | 109.2 | 109.7 | 110.2 | 110.7 | 111.8 | 112.8 | 114.3 | 115.7 | 117.6 | 118.2 | 118.8 |
| 1942 | 122.4 | 119.5 | 120.4 | 121.3 | 121.6 | 122.0 | 122.6 | 123.0 | 123.4 | 123.3 | 123.5 | 123.6 | 124.3 |
| 1943 | 127.0 | 124.4 | 124.9 | 125.1 | 125.5 | 126.0 | 126.3 | 126.7 | 127.3 | 127.8 | 129.1 | 130.1 | 131.0 |
| 1944 | 134.1 | 131.7 | 132.1 | 132.6 | 133.2 | 133.7 | 134.1 | 134.3 | 134.7 | 135.0 | 135.3 | 135.9 | 136.0 |
| 1945 | 137.4 | 136.1 | 136.3 | 136.7 | 136.8 | 136.9 | 137.0 | 137.2 | 137.4 | 138.0 | 138.5 | 139.1 | 139.3 |
| 1946 | 147.8 | 139.7 | 140.3 | 141.0 | 142.1 | 143.6 | 145.7 | 147.7 | 149.8 | 151.8 | 154.0 | 156.7 | 159.8 |
| 1947 | ------- | 167.0 | 173.8 | 179.6 | 182.5 | 183.7 | 184.8 | 185.1 | ------- | ------- | ------- | ------- | ------- |
| MATERIAL COSTS | | | | | | | | | | | | | |
| 1936 | 97.1 | 95.9 | 96.1 | 96.2 | 96.3 | 96.5 | 96.7 | 97.0 | 97.4 | 97.5 | 97.8 | 98.3 | 99.5 |
| 1937 | 105.6 | 101.0 | 102.6 | 104.6 | 106.0 | 106.7 | 107.0 | 107.2 | 107.3 | 107.0 | 106.5 | 105.9 | 105.0 |
| 1938 | 101.5 | 104.1 | 103.4 | 102.6 | 102.1 | 101.7 | 101.5 | 101.2 | 100.5 | 100.4 | 100.3 | 100.2 | 100.0 |
| 1939 | 100.0 | 99.9 | 99.9 | 99.9 | 99.8 | 99.6 | 99.5 | 99.4 | 99.3 | 99.9 | 100.5 | 101.3 | 101.4 |
| 1940 | 102.1 | 101.3 | 101.3 | 101.3 | 101.1 | 101.2 | 101.2 | 101.1 | 101.3 | 101.9 | 103.3 | 104.5 | 105.7 |
| 1941 | 111.0 | 106.4 | 107.2 | 107.9 | 108.2 | 108.4 | 109.0 | 110.2 | 112.1 | 113.8 | 115.7 | 116.3 | 117.1 |
| 1942 | 120.4 | 118.0 | 119.0 | 119.7 | 120.1 | 120.4 | 120.5 | 120.7 | 120.8 | 121.1 | 121.2 | 121.4 | 121.4 |
| 1943 | 123.7 | 121.3 | 121.5 | 121.7 | 121.9 | 122.4 | 122.6 | 123.1 | 123.8 | 124.5 | 126.1 | 127.2 | 128.1 |
| 1944 | 131.2 | 128.8 | 129.4 | 129.8 | 130.4 | 130.9 | 131.4 | 131.6 | 132.1 | 132.2 | 132.2 | 132.4 | 132.5 |
| 1945 | 133.8 | 132.5 | 132.8 | 133.1 | 133.2 | 133.4 | 133.5 | 133.8 | 133.9 | 134.1 | 134.6 | 135.0 | 135.2 |
| 1946 | 144.1 | 135.5 | 136.3 | 137.1 | 138.0 | 139.2 | 141.6 | 143.7 | 146.1 | 148.0 | 150.3 | 153.6 | 158.6 |
| 1947 | ------- | 168.2 | 177.6 | 185.6 | 188.8 | 189.1 | 189.0 | 188.5 | ------- | ------- | ------- | ------- | ------- |
| LABOR COSTS | | | | | | | | | | | | | |
| 1936 | 95.0 | 93.4 | 93.2 | 93.3 | 93.9 | 94.6 | 95.0 | 95.4 | 95.5 | 95.9 | 96.3 | 96.9 | 97.2 |
| 1937 | 102.4 | 97.6 | 98.2 | 99.4 | 101.1 | 102.2 | 103.5 | 104.2 | 104.5 | 104.6 | 104.7 | 104.8 | 104.5 |
| 1938 | 104.7 | 104.3 | 104.2 | 104.6 | 104.7 | 104.6 | 104.8 | 105.0 | 105.3 | 105.1 | 104.7 | 104.6 | 104.8 |
| 1939 | 104.4 | 104.7 | 104.8 | 104.9 | 104.5 | 104.3 | 104.2 | 104.2 | 104.1 | 104.3 | 104.5 | 104.2 | 104.2 |
| 1940 | 105.4 | 104.0 | 104.2 | 104.2 | 103.9 | 104.0 | 103.9 | 104.0 | 104.3 | 104.7 | 107.3 | 109.2 | 111.5 |
| 1941 | 117.3 | 112.6 | 113.2 | 113.3 | 114.2 | 115.3 | 117.3 | 117.9 | 118.8 | 119.5 | 121.6 | 121.9 | 122.4 |
| 1942 | 126.8 | 122.7 | 123.2 | 124.4 | 124.7 | 125.1 | 126.7 | 127.8 | 128.6 | 129.3 | 129.5 | 129.5 | 130.0 |
| 1943 | 133.7 | 130.5 | 131.8 | 132.0 | 132.8 | 133.4 | 133.7 | 133.9 | 134.1 | 134.3 | 135.3 | 135.7 | 136.9 |
| 1944 | 139.9 | 137.3 | 137.6 | 138.2 | 138.9 | 139.2 | 139.4 | 139.8 | 139.9 | 140.8 | 141.4 | 142.8 | 143.0 |
| 1945 | 144.8 | 143.3 | 143.4 | 143.9 | 143.9 | 143.8 | 143.9 | 144.1 | 144.5 | 146.0 | 146.3 | 147.3 | 147.5 |
| 1946 | 155.3 | 147.9 | 148.5 | 148.9 | 150.6 | 152.5 | 153.8 | 155.6 | 157.2 | 159.3 | 161.6 | 163.1 | 164.8 |
| 1947 | ------- | 166.8 | 168.6 | 170.2 | 172.4 | 175.5 | 179.2 | 181.0 | ------- | ------- | ------- | ------- | ------- |

Source: Housing and Home Finance Agency, Home Loan Bank Board; Statistical Supplement to Federal Home Loan Bank Review, 1947, and records.

## No. 893.—Construction—Value of Work Performed, for Cities of 100,000 or More Inhabitants, by Size Groups: 1939

[Geographic distribution based on office address of reporting establishment, not location of construction project. See also headnote, table 894]

| CITY-SIZE GROUP | Number of cities | Percent of United States population | ESTABLISHMENTS | | WORK PERFORMED | |
|---|---|---|---|---|---|---|
| | | | Number | Percent of United States total | Value (1,000 dollars) | Percent of United States total |
| **All cities** | 92 | 28.8 | 79,755 | 37.1 | 2,475,405 | 54.7 |
| 500,000 and over | 14 | 17.0 | 44,425 | 20.7 | 1,460,366 | 32.3 |
| 250,000 to 499,999 | 23 | 5.9 | 17,175 | 8.0 | 547,735 | 12.1 |
| 100,000 to 249,999 | 55 | 5.9 | 18,155 | 8.4 | 467,304 | 10.3 |

Source: Department of Commerce, Bureau of the Census; Census of Business, 1939, Vol. IV, Construction.

## No. 894.—Construction—Summary, by Kind of Contractor, by Size Groups: 1939

[The 1939 Census of Construction covered all persons or establishments whose principal business in 1939 was utilizing construction materials and labor in construction work for others, or for themselves for speculative and investment purposes, on projects located within the limits of continental United States. It included erection and installation departments of manufacturers and merchandisers, when it was an important but not necessarily major portion of their business enterprise. Force-account work, ship and boat building, and installation and servicing of domestic appliances were not included. "Work performed" represents contract or order value of work done by the contractor's or builder's own forces. Work sublet to others was not included as work performed in the report of the builder or general contractor, but was reported as part of the business of the special trade contractor who received the subcontract. "Construction work" includes alterations and repairs, as well as new construction and additions. Data for establishments reporting less than $500 of work performed in 1939 are not included. The canvass is known to have been incomplete in coverage of small contractors who operated from their homes. Most of this shortage occurred in metropolitan districts. It is believed that this undercoverage affects materially only number of establishments and number of proprietors]

| Kind of contractor | Number of establishments | | | Value of work performed (1,000 dollars) | | | Materials used and equipment installed (1,000 dollars)[1] | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | $25,000 and over[2] | Under $25,000 (2) | Total | $25,000 and over[2] | Under $25,000 (2) | Total | $25,000 and over[2] | Under $25,000 (2) |
| **United States** | 215,050 | 30,912 | 184,138 | 4,519,794 | 3,479,671 | 1,040,123 | 2,046,613 | 1,625,344 | 421,269 |
| **Builders** | 3,705 | 1,534 | 2,171 | 108,258 | 89,919 | 18,339 | 72,976 | 61,438 | 11,538 |
| **General contractors** | 35,158 | 14,880 | 20,278 | 2,403,630 | 2,208,080 | 195,550 | 1,085,735 | 989,266 | 96,469 |
| Building contractors | 29,641 | 10,636 | 19,005 | 1,174,693 | 993,629 | 181,064 | 588,832 | 496,358 | 92,474 |
| Highway contractors | 3,627 | 2,667 | 960 | 590,571 | 579,704 | 10,867 | 248,395 | 245,380 | 3,015 |
| Heavy contractors | 1,890 | 1,577 | 313 | 638,366 | 634,747 | 3,619 | 248,508 | 247,528 | 980 |
| **Special trade contractors** | 176,187 | 14,498 | 161,689 | 2,007,906 | 1,181,672 | 826,234 | 887,902 | 574,640 | 313,262 |
| Air conditioning [3] | 798 | 338 | 460 | 40,396 | 35,459 | 4,937 | 22,911 | 20,318 | 2,593 |
| Carpentering | 30,044 | 467 | 29,577 | 132,957 | 24,521 | 108,436 | 48,199 | 10,890 | 37,309 |
| Concreting | 4,464 | 397 | 4,067 | 57,030 | 32,486 | 24,544 | 24,030 | 14,545 | 9,485 |
| Electrical (other than power lines) | 15,915 | 1,640 | 14,275 | 222,774 | 137,472 | 85,302 | 102,028 | 64,324 | 37,704 |
| Elevator (installation and repair) | 409 | 130 | 279 | 45,083 | 42,351 | 2,732 | 20,985 | 20,108 | 877 |
| Excavating and foundation | 405 | 75 | 330 | 8,007 | 5,321 | 2,686 | 2,750 | 1,915 | 835 |
| Excavating and grading | 1,852 | 201 | 1,651 | 22,536 | 10,389 | 12,147 | 2,016 | 826 | 1,190 |
| Flooring (wood only) | 1,088 | 111 | 977 | 13,735 | 7,041 | 6,694 | 6,397 | 3,765 | 2,632 |
| Flooring (wood and other) | 445 | 173 | 272 | 17,636 | 15,259 | 2,377 | 9,771 | 8,779 | 992 |
| Flooring (surfacing and resurfacing) | 645 | 12 | 633 | 2,821 | 466 | 2,355 | 592 | 127 | 465 |
| Heating and plumbing group | 37,112 | 4,686 | 32,426 | 572,878 | 349,987 | 222,891 | 299,691 | 192,240 | 107,451 |
| Heating and piping | 2,882 | 743 | 2,139 | 75,550 | 57,048 | 18,502 | 40,133 | 30,706 | 9,427 |
| Heating and piping, with sheet metal | 1,572 | 289 | 1,283 | 36,297 | 25,305 | 10,992 | 18,560 | 13,345 | 5,215 |
| Heating, piping, and plumbing | 13,166 | 2,165 | 11,001 | 251,075 | 161,635 | 89,440 | 134,617 | 90,330 | 44,287 |
| Heating, piping, plumbing, with sheet metal | 2,122 | 533 | 1,589 | 62,384 | 48,078 | 14,306 | 33,761 | 26,439 | 7,322 |
| Plumbing | 16,609 | 914 | 15,695 | 141,334 | 55,724 | 85,610 | 69,546 | 30,283 | 39,263 |
| Plumbing, with sheet metal | 761 | 42 | 719 | 6,238 | 2,197 | 4,041 | 3,074 | 1,137 | 1,937 |
| Insulation | 708 | 273 | 435 | 26,509 | 22,132 | 4,377 | 11,356 | 9,495 | 1,861 |
| Lathing | 522 | 58 | 464 | 9,417 | 6,561 | 2,856 | 2,136 | 1,742 | 394 |
| Plastering and lathing | 720 | 251 | 469 | 24,762 | 20,015 | 4,747 | 8,703 | 6,907 | 1,796 |
| Plastering | 5,347 | 401 | 4,946 | 55,756 | 27,614 | 28,142 | 20,202 | 10,449 | 9,753 |
| Ornamental iron | 622 | 144 | 478 | 14,421 | 10,814 | 3,607 | 7,061 | 5,539 | 1,522 |
| Painting | 10,046 | 228 | 9,818 | 46,347 | 12,519 | 33,828 | 11,017 | 2,997 | 8,020 |
| Painting, paperhanging, and decorating | 39,973 | 829 | 39,144 | 180,917 | 46,931 | 133,986 | 43,979 | 10,783 | 33,196 |
| Roofing and sheet metal group | 11,793 | 1,782 | 10,011 | 187,655 | 118,128 | 69,527 | 84,043 | 54,715 | 29,328 |
| Roofing | 4,875 | 844 | 4,031 | 78,716 | 51,068 | 27,648 | 35,221 | 22,934 | 12,287 |
| Roofing and sheet metal | 3,046 | 646 | 2,400 | 68,725 | 49,489 | 19,236 | 32,133 | 24,079 | 8,054 |
| Sheet metal | 3,872 | 292 | 3,580 | 40,214 | 17,571 | 22,643 | 16,689 | 7,702 | 8,987 |
| Masonry | 7,029 | 702 | 6,327 | 97,339 | 60,921 | 36,418 | 39,540 | 26,888 | 12,652 |
| Tile and mantel | 2,149 | 519 | 1,630 | 48,944 | 35,223 | 13,721 | 22,904 | 16,324 | 6,580 |
| Steel erection and repair | 567 | 266 | 301 | 80,863 | 77,838 | 3,025 | 51,124 | 50,285 | 839 |
| Weather stripping | 419 | 56 | 363 | 7,214 | 4,856 | 2,358 | 2,588 | 1,706 | 882 |
| Glass and glazing | 1,040 | 180 | 860 | 17,821 | 12,698 | 5,123 | 8,336 | 6,112 | 2,224 |
| House moving | 608 | 33 | 575 | 4,016 | 1,449 | 2,567 | 388 | 193 | 195 |
| Other | 1,467 | 546 | 921 | 70,072 | 63,221 | 6,851 | 35,155 | 32,668 | 2,487 |

For footnotes, see next page.

## No. 894.—Construction—Summary, by Kind of Contractor, and by Size Groups: 1939—Continued

| Kind of contractor | Active proprietors and firm members: Total | Active proprietors and firm members: $25,000 and over [2] | Active proprietors and firm members: Under $25,000 [2] | Employees (average for year) [4]: Total | Employees (average for year) [4]: $25,000 and over [2] | Employees (average for year) [4]: Under $25,000 [2] | Total pay roll (1,000 dollars) [4]: Total | Total pay roll (1,000 dollars) [4]: $25,000 and over [2] | Total pay roll (1,000 dollars) [4]: Under $25,000 [2] |
|---|---|---|---|---|---|---|---|---|---|
| **United States** | 226,784 | 26,367 | 200,417 | 1,073,655 | 809,474 | 264,181 | 1,403,771 | 1,144,862 | 258,909 |
| **Builders** | 3,300 | 1,173 | 2,127 | 20,268 | 16,230 | 4,038 | 25,798 | 21,868 | 3,930 |
| **General contractors** | 36,111 | 13,608 | 22,503 | 600,974 | 548,127 | 52,847 | 770,766 | 722,623 | 48,143 |
| Building contractors | 31,336 | 10,186 | 21,150 | 304,274 | 256,746 | 47,528 | 389,151 | 345,446 | 43,705 |
| Highway contractors | 3,361 | 2,331 | 1,030 | 161,317 | 157,403 | 3,914 | 171,946 | 168,733 | 3,213 |
| Heavy contractors | 1,414 | 1,091 | 323 | 135,383 | 133,978 | 1,405 | 209,669 | 208,444 | 1,225 |
| **Special trade contractors** | 187,373 | 11,586 | 175,787 | 452,413 | 245,117 | 207,296 | 607,207 | 400,371 | 206,836 |
| Air conditioning [3] | 671 | 187 | 484 | 6,754 | 5,691 | 1,063 | 10,715 | 9,534 | 1,181 |
| Carpentering | 32,718 | 479 | 32,239 | 31,282 | 5,854 | 25,428 | 32,872 | 9,315 | 23,557 |
| Concreting | 4,944 | 365 | 4,579 | 18,106 | 8,809 | 9,297 | 19,467 | 12,247 | 7,220 |
| Electrical (other than power lines) | 16,121 | 1,213 | 14,908 | 42,390 | 25,198 | 17,192 | 68,749 | 49,828 | 18,921 |
| Elevator (installation and repair) | 289 | 53 | 236 | 7,016 | 6,320 | 696 | 15,138 | 14,211 | 927 |
| Excavating and foundation | 446 | 69 | 377 | 2,826 | 1,692 | 1,134 | 2,932 | 2,042 | 890 |
| Excavating and grading | 1,992 | 182 | 1,810 | 7,943 | 3,457 | 4,486 | 8,017 | 4,075 | 3,942 |
| Flooring (wood only) | 1,197 | 92 | 1,105 | 3,050 | 1,388 | 1,662 | 4,094 | 2,297 | 1,797 |
| Flooring (wood and other) | 402 | 105 | 297 | 3,280 | 2,652 | 628 | 4,811 | 4,130 | 681 |
| Flooring (surfacing and resurfacing) | 706 | 8 | 698 | 828 | 146 | 682 | 853 | 228 | 625 |
| Heating and plumbing group | 38,138 | 3,897 | 34,241 | 108,173 | 62,604 | 45,569 | 146,622 | 101,189 | 45,433 |
| Heating and piping | 2,265 | 324 | 1,941 | 14,251 | 9,882 | 4,369 | 21,796 | 17,308 | 4,488 |
| Heating and piping, with sheet metal | 1,713 | 260 | 1,453 | 6,821 | 4,375 | 2,446 | 10,259 | 7,744 | 2,515 |
| Heating, piping, and plumbing | 13,761 | 1,976 | 11,785 | 47,381 | 29,118 | 18,263 | 64,008 | 45,514 | 18,494 |
| Heating, piping, plumbing, with sheet metal | 2,283 | 471 | 1,812 | 11,954 | 8,950 | 3,004 | 17,044 | 14,024 | 3,020 |
| Plumbing | 17,281 | 825 | 16,456 | 26,412 | 9,830 | 16,582 | 32,070 | 15,959 | 16,111 |
| Plumbing, with sheet metal | 835 | 41 | 794 | 1,354 | 449 | 905 | 1,445 | 640 | 805 |
| Insulation | 508 | 106 | 402 | 6,970 | 5,673 | 1,297 | 10,025 | 8,707 | 1,318 |
| Lathing | 608 | 49 | 559 | 3,253 | 1,838 | 1,415 | 5,276 | 3,831 | 1,445 |
| Plastering and lathing | 811 | 254 | 557 | 7,754 | 6,164 | 1,590 | 11,686 | 9,940 | 1,746 |
| Plastering | 6,045 | 411 | 5,634 | 17,413 | 8,500 | 8,913 | 21,625 | 12,831 | 8,794 |
| Ornamental iron | 607 | 85 | 522 | 2,622 | 1,839 | 783 | 3,926 | 3,051 | 875 |
| Painting | 11,023 | 213 | 10,810 | 13,733 | 4,116 | 9,617 | 16,916 | 6,729 | 10,187 |
| Painting, paperhanging, and decorating | 44,253 | 804 | 43,449 | 52,077 | 15,119 | 36,958 | 65,586 | 26,142 | 39,444 |
| Roofing and sheet metal group | 12,354 | 1,416 | 10,938 | 44,631 | 27,320 | 17,311 | 56,474 | 39,572 | 16,902 |
| Roofing | 4,986 | 634 | 4,352 | 18,951 | 11,842 | 7,109 | 23,290 | 16,861 | 6,429 |
| Roofing and sheet metal | 3,216 | 533 | 2,683 | 16,906 | 11,802 | 5,104 | 21,434 | 16,497 | 4,937 |
| Sheet metal | 4,152 | 249 | 3,903 | 8,774 | 3,676 | 5,098 | 11,750 | 6,214 | 5,536 |
| Masonry | 7,712 | 648 | 7,064 | 30,273 | 17,821 | 12,452 | 36,765 | 25,199 | 11,566 |
| Tile and mantel | 2,134 | 400 | 1,734 | 11,362 | 8,326 | 3,036 | 16,174 | 12,799 | 3,375 |
| Steel erection and repair | 379 | 113 | 266 | 10,404 | 9,298 | 1,106 | 18,501 | 17,211 | 1,290 |
| Weather stripping | 402 | 21 | 381 | 1,793 | 1,283 | 510 | 2,833 | 2,225 | 608 |
| Glass and glazing | 978 | 96 | 882 | 3,142 | 2,171 | 971 | 5,134 | 4,056 | 1,078 |
| House moving | 708 | 33 | 675 | 1,912 | 484 | 1,428 | 1,649 | 637 | 1,012 |
| Other | 1,227 | 287 | 940 | 13,426 | 11,354 | 2,072 | 20,367 | 18,345 | 2,022 |

[1] Cost at site.
[2] Value of work performed by establishment reporting.
[3] Air conditioning with or without heating, plumbing, or sheet metal.
[4] Employees and pay roll include data for paid executives of corporations but not proprietors of unincorporated businesses.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1939, Vol. IV, Construction.

## No. 895.—Construction—Summary, by States: 1939

[Geographic distribution based on office address of reporting establishment, not location of construction project
See headnote, table 894]

| DIVISION AND STATE | Number of establishments | Value of work performed (thousands of dollars) | Active proprietors and firm members | Employees (average for year)[1] | Total pay roll (thousands of dollars)[1] | Materials used and equipment installed (thousands of dollars)[2] |
|---|---|---|---|---|---|---|
| **United States** | **215,050** | **4,519,794** | **226,784** | **1,073,655** | **1,403,771** | **2,046,613** |
| **New England** | **18,910** | **323,471** | **19,118** | **76,089** | **106,757** | **138,669** |
| Maine | 1,696 | 16,261 | 1,738 | 4,837 | 5,161 | 6,573 |
| New Hampshire | 992 | 11,426 | 1,030 | 3,439 | 3,644 | 4,801 |
| Vermont | 746 | 6,976 | 772 | 2,104 | 2,091 | 2,940 |
| Massachusetts | 8,509 | 167,691 | 8,529 | 38,353 | 57,111 | 72,252 |
| Rhode Island | 1,565 | 26,811 | 1,601 | 6,472 | 8,561 | 11,662 |
| Connecticut | 5,402 | 94,306 | 5,448 | 20,884 | 30,189 | 40,441 |
| **Middle Atlantic** | **50,979** | **1,190,993** | **51,749** | **249,846** | **393,141** | **534,158** |
| New York | 24,632 | 675,167 | 24,296 | 137,279 | 238,005 | 289,324 |
| New Jersey | 9,128 | 153,275 | 8,901 | 32,768 | 47,814 | 67,230 |
| Pennsylvania | 17,219 | 362,551 | 18,552 | 79,799 | 107,322 | 177,604 |
| **East North Central** | **47,263** | **946,952** | **49,705** | **204,097** | **302,899** | **431,194** |
| Ohio | 12,407 | 246,358 | 13,150 | 49,983 | 74,847 | 118,137 |
| Indiana | 6,172 | 93,714 | 6,603 | 22,846 | 28,718 | 42,942 |
| Illinois | 12,855 | 322,305 | 13,498 | 69,705 | 113,549 | 134,455 |
| Michigan | 8,822 | 179,327 | 9,218 | 37,630 | 53,608 | 87,947 |
| Wisconsin | 7,007 | 105,248 | 7,236 | 23,933 | 32,177 | 47,713 |
| **West North Central** | **23,892** | **418,053** | **25,874** | **103,298** | **118,781** | **190,522** |
| Minnesota | 6,006 | 120,257 | 6,766 | 28,381 | 33,799 | 55,663 |
| Iowa | 5,063 | 79,765 | 5,585 | 19,435 | 21,705 | 37,768 |
| Missouri | 6,527 | 124,450 | 6,643 | 31,468 | 38,853 | 54,977 |
| North Dakota | 557 | 9,506 | 612 | 2,434 | 2,533 | 4,006 |
| South Dakota | 708 | 10,296 | 759 | 2,612 | 2,641 | 4,003 |
| Nebraska | 2,167 | 37,508 | 2,365 | 8,903 | 9,614 | 17,268 |
| Kansas | 2,864 | 36,271 | 3,144 | 10,065 | 9,636 | 16,837 |
| **South Atlantic** | **17,634** | **497,683** | **18,023** | **151,486** | **149,088** | **241,943** |
| Delaware | 813 | 14,435 | 795 | 4,109 | 4,780 | 6,549 |
| Maryland | 3,302 | 77,580 | 3,357 | 21,427 | 25,265 | 36,387 |
| District of Columbia | 1,147 | 54,929 | 1,073 | 13,933 | 19,605 | 25,396 |
| Virginia | 3,142 | 75,738 | 3,291 | 22,983 | 21,732 | 38,348 |
| West Virginia | 1,436 | 26,420 | 1,506 | 7,701 | 7,885 | 10,194 |
| North Carolina | 2,410 | 82,820 | 2,572 | 27,090 | 23,384 | 41,301 |
| South Carolina | 843 | 27,874 | 854 | 9,942 | 7,919 | 14,120 |
| Georgia | 1,936 | 66,456 | 1,996 | 22,451 | 18,060 | 34,059 |
| Florida | 2,605 | 71,431 | 2,579 | 21,850 | 20,458 | 35,589 |
| **East South Central** | **7,494** | **161,700** | **8,026** | **52,630** | **45,083** | **75,714** |
| Kentucky | 2,767 | 48,187 | 2,993 | 13,281 | 13,318 | 23,010 |
| Tennessee | 2,382 | 60,424 | 2,523 | 19,882 | 17,375 | 25,179 |
| Alabama | 1,233 | 36,060 | 1,322 | 13,042 | 9,958 | 19,291 |
| Mississippi | 1,112 | 17,029 | 1,188 | 6,425 | 4,432 | 8,234 |
| **West South Central** | **13,034** | **303,988** | **13,893** | **87,280** | **82,330** | **144,780** |
| Arkansas | 1,121 | 14,274 | 1,240 | 5,141 | 3,682 | 6,160 |
| Louisiana | 1,641 | 55,218 | 1,657 | 16,129 | 15,608 | 25,585 |
| Oklahoma | 2,106 | 47,497 | 2,217 | 12,820 | 13,293 | 23,394 |
| Texas | 8,166 | 186,999 | 8,779 | 53,190 | 49,747 | 89,641 |
| **Mountain** | **6,751** | **137,424** | **7,512** | **32,477** | **39,635** | **57,883** |
| Montana | 769 | 16,721 | 850 | 4,123 | 5,044 | 7,225 |
| Idaho | 708 | 13,715 | 821 | 3,077 | 4,095 | 4,982 |
| Wyoming | 556 | 9,104 | 624 | 2,255 | 2,555 | 3,573 |
| Colorado | 2,028 | 40,165 | 2,199 | 9,668 | 11,668 | 17,122 |
| New Mexico | 503 | 11,393 | 550 | 3,039 | 3,194 | 5,179 |
| Arizona | 865 | 15,296 | 936 | 3,751 | 4,509 | 6,560 |
| Utah | 1,104 | 24,398 | 1,287 | 5,270 | 6,726 | 10,664 |
| Nevada | 218 | 6,632 | 245 | 1,294 | 1,844 | 2,578 |
| **Pacific** | **29,093** | **539,530** | **32,884** | **116,452** | **166,057** | **231,750** |
| Washington | 3,478 | 83,840 | 3,743 | 17,113 | 27,282 | 30,066 |
| Oregon | 2 036 | 38,372 | 2,196 | 9,638 | 11,751 | 16,921 |
| California | 23,579 | 417,318 | 26,945 | 89,701 | 127,024 | 184,763 |

[1] Employees and pay roll include paid executives of corporations but not number and compensation of proprietors of unincorporated businesses. [2] Cost at site.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1939, Vol. IV, Construction.

## No. 896.—Construction—Value of Work Performed on Projects Within Each State, by Resident and Nonresident Establishments: 1939

[**Value of work performed in thousands of dollars.** All figures in this table are based on location of construction project and differ therefore from figures in tables 893, 895 and 898, in which geographic distribution is based on office address of reporting establishment]

| Division and State | All contractors | | | | | |
|---|---|---|---|---|---|---|
| | Total | | Resident | | Nonresident | |
| | Number of establishments | Value of work performed [1] | Number of establishments | Value of work performed | Number of establishments | Value of work performed |
| **New England:** | | | | | | |
| Maine | 1,877 | 21,882 | 1,694 | 15,851 | 183 | 6,031 |
| New Hampshire | 1,332 | 17,282 | 989 | 10,441 | 343 | 6,841 |
| Vermont | 923 | 10,615 | 739 | 6,624 | 184 | 3,991 |
| Massachusetts | 8,812 | 146,245 | 8,483 | 132,054 | 329 | 14,191 |
| Rhode Island | 1,847 | 30,090 | 1,557 | 22,844 | 290 | 7,246 |
| Connecticut | 6,036 | 99,182 | 5,397 | 83,610 | 639 | 15,572 |
| **Middle Atlantic:** | | | | | | |
| New York | 25,155 | 665,932 | 24,561 | 608,657 | 594 | 57,275 |
| New Jersey | 9,880 | 164,399 | 9,099 | 128,337 | 781 | 36,062 |
| Pennsylvania | 17,814 | 314,934 | 17,182 | 271,758 | 632 | 43,176 |
| **East North Central:** | | | | | | |
| Ohio | 12,815 | 227,447 | 12,371 | 209,807 | 444 | 17,640 |
| Indiana | 6,746 | 116,625 | 6,158 | 85,075 | 588 | 31,550 |
| Illinois | 13,395 | 288,496 | 12,801 | 258,942 | 594 | 29,554 |
| Michigan | 9,180 | 179,995 | 8,815 | 163,065 | 365 | 16,930 |
| Wisconsin | 7,375 | 112,140 | 6,993 | 100,207 | 382 | 11,933 |
| **West North Central:** | | | | | | |
| Minnesota | 6,179 | 98,102 | 5,971 | 92,536 | 208 | 5,566 |
| Iowa | 5,428 | 78,185 | 5,039 | 65,192 | 389 | 12,993 |
| Missouri | 6,764 | 97,322 | 6,480 | 84,176 | 284 | 13,146 |
| North Dakota | 666 | 10,832 | 552 | 7,650 | 114 | 3,182 |
| South Dakota | 818 | 10,213 | 703 | 8,252 | 115 | 1,961 |
| Nebraska | 2,291 | 40,346 | 2,157 | 31,092 | 134 | 9,254 |
| Kansas | 3,271 | 43,605 | 2,847 | 29,866 | 424 | 13,739 |
| **South Atlantic:** | | | | | | |
| Delaware | 1,057 | 17,629 | 808 | 13,104 | 249 | 4,525 |
| Maryland | 3,974 | 79,304 | 3,278 | 59,970 | 696 | 19,334 |
| District of Columbia | 1,420 | 60,787 | 1,113 | 40,412 | 307 | 20,375 |
| Virginia | 3,736 | 91,321 | 3,131 | 64,173 | 605 | 27,148 |
| West Virginia | 1,731 | 34,778 | 1,421 | 24,138 | 310 | 10,640 |
| North Carolina | 2,610 | 76,164 | 2,406 | 63,357 | 204 | 12,807 |
| South Carolina | 1,059 | 35,149 | 840 | 21,939 | 219 | 13,210 |
| Georgia | 2,135 | 58,717 | 1,924 | 46,979 | 211 | 11,738 |
| Florida | 2,782 | 72,657 | 2,602 | 63,512 | 180 | 9,145 |
| **East South Central:** | | | | | | |
| Kentucky | 3,080 | 55,988 | 2,749 | 42,420 | 331 | 13,568 |
| Tennessee | 2,571 | 52,628 | 2,358 | 42,927 | 213 | 9,701 |
| Alabama | 1,409 | 48,501 | 1,224 | 29,973 | 185 | 18,528 |
| Mississippi | 1,315 | 40,941 | 1,109 | 15,478 | 206 | 25,463 |
| **West South Central:** | | | | | | |
| Arkansas | 1,334 | 24,545 | 1,117 | 12,985 | 217 | 11,560 |
| Louisiana | 1,858 | 71,164 | 1,635 | 48,924 | 223 | 22,240 |
| Oklahoma | 2,242 | 37,305 | 2,091 | 30,632 | 151 | 6,673 |
| Texas | 8,380 | 199,540 | 8,144 | 170,138 | 236 | 29,402 |
| **Mountain:** | | | | | | |
| Montana | 897 | 22,703 | 766 | 15,903 | 131 | 6,800 |
| Idaho | 873 | 13,739 | 704 | 8,536 | 169 | 5,203 |
| Wyoming | 658 | 14,439 | 556 | 8,121 | 102 | 6,318 |
| Colorado | 2,112 | 40,399 | 2,026 | 34,788 | 86 | 5,611 |
| New Mexico | 606 | 15,031 | 501 | 10,810 | 105 | 4,221 |
| Arizona | 945 | 18,286 | 864 | 14,395 | 81 | 3,891 |
| Utah | 1,148 | 18,665 | 1,095 | 16,308 | 53 | 2,357 |
| Nevada | 326 | 9,669 | 218 | 6,339 | 108 | 3,330 |
| **Pacific:** | | | | | | |
| Washington | 3,637 | 90,678 | 3,464 | 78,336 | 173 | 12,342 |
| Oregon | 2,133 | 37,061 | 2,029 | 32,553 | 104 | 4,508 |
| California | 23,670 | 408,137 | 23,566 | 397,949 | 104 | 10,188 |

[1] Total value of work performed by each class of contractor is as follows: All contractors, $4,519,794,000; building $1,282,951,000; highway, $590,571,000; heavy, $638,366,000; special trade, $2,007,906,000.

Source: Department of Commerce, Bureau of the Census; *Census of Business, 1939, Vol. IV, Construction.*

## No. 897.—Construction—Value of Work Performed, by Type of Construction, by Kind of Contractor: 1939

[All value figures in thousands of dollars. See headnote, table 894]

| Kind of contractor | Number of establishments | Value of all work performed [1] | Work performed on buildings: Total: Value [2] | Work performed on buildings: Total: Percent of all work performed | Work performed on buildings: New and additions, value | Work performed on buildings: Repairs and alterations, value | Work performed other than on buildings: Value | Work performed other than on buildings: Percent of all work performed |
|---|---|---|---|---|---|---|---|---|
| **United States** | 215,050 | 4,519,794 | 3,156,701 | 69.9 | 2,224,930 | 915,502 | 1,312,671 | 29.0 |
| **Builders** | 3,705 | 108,258 | 108,090 | 99.8 | 105,617 | 2,473 | 168 | .2 |
| **General contractors** | 35,158 | 2,403,630 | 1,181,425 | 49.2 | 1,014,736 | 164,341 | 1,221,126 | 50.8 |
| Building contractors | 29,641 | 1,174,593 | 1,149,712 | 97.9 | 984,978 | 162,386 | 23,902 | 2.0 |
| Highway contractors | 3,627 | 590,571 | 8,502 | 1.4 | 7,770 | 732 | 582,069 | 98.6 |
| Heavy contractors | 1,890 | 638,366 | 23,211 | 3.6 | 21,988 | 1,223 | 615,155 | 96.4 |
| **Special trade contractors** | 176,187 | 2,007,906 | 1,867,186 | 92.9 | 1,104,577 | 748,688 | 91,377 | 4.6 |
| Air conditioning [3] | 798 | 40,396 | 39,722 | 98.4 | 31,503 | 7,826 | 301 | .7 |
| Carpentering | 30,044 | 132,957 | 130,965 | 98.5 | 66,079 | 64,826 | 1,992 | 1.5 |
| Concreting | 4,464 | 57,030 | 47,503 | 83.3 | 38,658 | 8,748 | 9,343 | 16.4 |
| Electrical (other than power lines) | 15,915 | 222,774 | 209,806 | 94.2 | 141,676 | 67,351 | 11,174 | 5.0 |
| Elevator (installation and repair) | 409 | 45,083 | 45,014 | 99.8 | 21,898 | 23,087 | 69 | .2 |
| Excavating and foundation | 405 | 8,007 | 7,037 | 87.9 | 6,213 | 824 | 918 | 11.5 |
| Excavating and grading | 1,852 | 22,536 | 9,972 | 44.2 | 9,084 | 888 | 12,055 | 53.5 |
| Flooring (wood only) | 1,088 | 13,735 | 13,709 | 99.8 | 10,310 | 3,399 | 26 | .2 |
| Flooring (wood and other) | 445 | 17,636 | 17,609 | 99.8 | 12,824 | 4,075 | 27 | .2 |
| Flooring (surfacing and resurfacing) | 645 | 2,821 | 2,820 | 100.0 | 969 | 1,851 | 1 | (4) |
| Heating and plumbing group | 37,112 | 572,878 | 554,834 | 96.9 | 330,243 | 223,183 | 10,900 | 1.9 |
| Heating and piping | 2,882 | 75,550 | 72,398 | 95.8 | 41,306 | 30,552 | 2,262 | 3.0 |
| Heating and piping, with sheet metal | 1,572 | 36,297 | 34,634 | 95.5 | 24,576 | 10,032 | 920 | 2.5 |
| Heating, piping, plumbing | 13,109 | 251,075 | 244,513 | 97.4 | 151,133 | 93,075 | 3,081 | 1.2 |
| Heating, piping, plumbing, with sheet metal | 2,122 | 62,384 | 60,384 | 96.8 | 39,771 | 20,473 | 666 | 1.1 |
| Plumbing | 16,609 | 141,334 | 137,011 | 96.9 | 70,490 | 66,231 | 3,660 | 2.6 |
| Plumbing with sheet metal | 761 | 6,238 | 5,894 | 94.5 | 2,967 | 2,820 | 311 | 5.0 |
| Insulation | 708 | 26,509 | 26,328 | 99.3 | 12,825 | 11,270 | 121 | .5 |
| Lathing | 522 | 9,417 | 9,401 | 99.8 | 8,429 | 972 | 16 | .2 |
| Plastering and lathing | 720 | 24,762 | 24,735 | 99.9 | 21,778 | 2,957 | 27 | .1 |
| Plastering | 5,347 | 55,756 | 55,638 | 99.8 | 43,581 | 11,979 | 118 | .2 |
| Ornamental iron | 622 | 14,421 | 13,655 | 94.7 | 10,523 | 3,036 | 740 | 5.1 |
| Painting | 10,046 | 46,347 | 43,732 | 94.3 | 11,955 | 31,690 | 2,589 | 5.6 |
| Painting, paperhanging, and decorating | 39,973 | 180,917 | 179,310 | 99.1 | 46,870 | 132,156 | 1,263 | .7 |
| Roofing and sheet metal group | 11,793 | 187,655 | 180,925 | 96.4 | 79,602 | 98,465 | 3,991 | 2.1 |
| Roofing | 4,875 | 78,716 | 78,183 | 99.3 | 21,869 | 54,909 | 319 | .4 |
| Roofing and sheet metal | 3,046 | 68,725 | 65,760 | 95.7 | 36,746 | 27,611 | 892 | 1.3 |
| Sheet metal | 3,872 | 40,214 | 36,982 | 92.0 | 20,987 | 15,945 | 2,780 | 6.9 |
| Masonry | 7,029 | 97,339 | 94,368 | 96.9 | 76,717 | 17,596 | 2,782 | 2.9 |
| Tile and mantel | 2,149 | 48,944 | 47,960 | 98.0 | 40,627 | 6,823 | 548 | 1.1 |
| Steel erection and repair | 567 | 80,863 | 32,782 | 40.6 | 30,160 | 2,622 | 13,933 | 17.2 |
| Weather stripping | 419 | 7,214 | 7,205 | 99.9 | 2,048 | 1,550 | 9 | .1 |
| Glass and glazing | 1,040 | 17,821 | 17,616 | 98.8 | 9,647 | 7,786 | 205 | 1.2 |
| House moving | 608 | 4,016 | 3,858 | 96.1 | 85 | 3,773 | 112 | 2.8 |
| Other | 1,467 | 70,072 | 50,742 | 72.4 | 40,273 | 9,955 | 18,117 | 25.9 |

[1] Includes value of work performed, amounting to $50,422,000, not specified as on buildings or other than on buildings, not shown separately or elsewhere included.

[2] Includes value of work performed, amounting to $16,269,000, not specified as new construction or repairs, not shown separately.

[3] Air conditioning with or without heating, piping, plumbing, or sheet metal.

[4] Less than one-tenth of 1 percent.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1939, Vol. IV, Construction.

## No. 898.—Construction—Summary for Establishments Reporting Business of $25,000 or More, by States: 1929 and 1939

[1929 and 1939 comparisons must be limited to establishments reporting business of $25,000 or more as the 1929 census covered only that size group. That size group in 1939 accounted for 77 percent of total value of work performed by all contractors and builders regardless of size. Geographic distribution is based on office address of reporting establishment, not location of construction project]

| Kind of contractors, division, and state | Number of establishments | | Work performed: Value (1,000 dollars) | | Work performed: Percent change | Pay roll (1,000 dollars)[1] | | Materials used and equipment installed (1,000 dollars) | |
|---|---|---|---|---|---|---|---|---|---|
| | 1929 | 1939 | 1929 | 1939 | | 1929 | 1939 | 1929 | 1939 |
| **United States** | 30,597 | 30,912 | 4,794,771 | 3,479,671 | −27.4 | 1,769,613 | 1,144,862 | 2,055,598 | 1,625,344 |
| Builders and building contractors | 10,881 | 12,170 | 1,547,726 | 1,083,548 | −30.0 | 626,406 | 367,314 | 674,766 | 557,796 |
| Highway and heavy contractors | 4,635 | 4,244 | 1,429,144 | 1,214,451 | −15.0 | 491,900 | 377,177 | 536,524 | 492,908 |
| Special trade contractors | 15,081 | 14,498 | 1,817,901 | 1,181,672 | −35.0 | 651,307 | 400,371 | 844,308 | 574,640 |
| **New England** | 2,780 | 2,218 | 370,192 | 222,693 | −39.8 | 152,738 | 79,849 | 144,376 | 99,613 |
| Maine | 142 | 118 | 11,593 | 8,448 | −27.1 | 5,175 | 3,056 | 4,185 | 3,508 |
| New Hampshire | 113 | 87 | 9,135 | 6,232 | −31.8 | 3,512 | 2,182 | 4,091 | 2,816 |
| Vermont | 61 | 53 | 5,612 | 3,488 | −37.8 | 2,106 | 1,127 | 2,511 | 1,641 |
| Massachusetts | 1,434 | 1,131 | 229,778 | 122,113 | −46.9 | 94,720 | 44,534 | 88,448 | 55,167 |
| Rhode Island | 226 | 199 | 25,290 | 17,934 | −29.1 | 10,318 | 6,257 | 9,958 | 7,983 |
| Connecticut | 804 | 630 | 88,784 | 64,478 | −27.4 | 36,907 | 22,693 | 35,083 | 28,499 |
| **Middle Atlantic** | 8,546 | 6,949 | 1,608,972 | 941,998 | −41.5 | 635,410 | 332,068 | 658,851 | 436,164 |
| New York | 4,372 | 3,943 | 938,099 | 556,380 | −40.7 | 387,289 | 209,296 | 363,751 | 242,853 |
| New Jersey | 1,483 | 950 | 235,061 | 106,335 | −54.8 | 80,440 | 35,984 | 110,025 | 48,593 |
| Pennsylvania | 2,691 | 2,056 | 435,812 | 279,283 | −35.9 | 167,681 | 86,788 | 185,075 | 144,718 |
| **East North Central** | 7,934 | 6,927 | 1,224,664 | 716,327 | −41.5 | 451,229 | 241,506 | 542,728 | 340,980 |
| Ohio | 2,043 | 1,817 | 310,519 | 188,836 | −39.2 | 109,901 | 60,301 | 144,722 | 95,771 |
| Indiana | 746 | 649 | 86,760 | 68,044 | −21.6 | 30,878 | 22,072 | 40,614 | 32,971 |
| Illinois | 2,497 | 2,221 | 454,524 | 256,281 | −43.6 | 181,376 | 94,161 | 186,280 | 110,227 |
| Michigan | 1,501 | 1,380 | 252,993 | 134,765 | −46.7 | 88,122 | 42,277 | 115,431 | 69,932 |
| Wisconsin | 1,147 | 860 | 119,868 | 68,401 | −42.9 | 40,952 | 22,695 | 55,681 | 32,079 |
| **West North Central** | 2,490 | 2,790 | 367,544 | 316,734 | −13.8 | 125,037 | 94,945 | 160,143 | 150,217 |
| Minnesota | 561 | 840 | 88,111 | 92,446 | 4.9 | 31,032 | 27,507 | 35,259 | 44,174 |
| Iowa | 486 | 494 | 68,660 | 58,555 | −14.7 | 21,685 | 16,522 | 30,042 | 29,792 |
| Missouri | 759 | 863 | 120,296 | 95,657 | −20.5 | 44,903 | 31,439 | 52,422 | 43,562 |
| North Dakota | 81 | 68 | 7,428 | 7,331 | −1.3 | 2,114 | 2,068 | 3,557 | 3,165 |
| South Dakota | 70 | 70 | 7,591 | 7,804 | 2.8 | 2,238 | 2,082 | 2,958 | 3,125 |
| Nebraska | 243 | 216 | 40,314 | 29,506 | −26.8 | 12,323 | 7,951 | 18,631 | 14,067 |
| Kansas | 290 | 239 | 35,144 | 25,435 | −27.6 | 10,742 | 7,376 | 17,274 | 12,332 |
| **South Atlantic** | 2,184 | 3,626 | 338,238 | 410,081 | 21.2 | 116,591 | 126,615 | 152,130 | 203,664 |
| Delaware | 91 | 134 | 14,789 | 10,468 | −29.2 | 4,944 | 3,847 | 6,702 | 4,832 |
| Maryland | 407 | 577 | 82,030 | 60,802 | −25.9 | 28,124 | 20,773 | 33,390 | 29,441 |
| District of Columbia | 253 | 437 | 39,846 | 49,430 | 24.1 | 16,327 | 17,847 | 15,501 | 23,289 |
| Virginia | 337 | 631 | 41,682 | 59,322 | 42.3 | 14,900 | 17,582 | 19,604 | 30,960 |
| West Virginia | 169 | 178 | 20,053 | 20,501 | 2.2 | 7,244 | 6,395 | 7,946 | 7,974 |
| North Carolina | 293 | 492 | 47,800 | 70,207 | 46.9 | 14,974 | 20,359 | 24,767 | 35,435 |
| South Carolina | 116 | 166 | 14,833 | 23,588 | 59.0 | 4,682 | 6,810 | 8,161 | 12,116 |
| Georgia | 230 | 395 | 46,490 | 58,317 | 25.4 | 14,086 | 16,128 | 23,624 | 30,457 |
| Florida | 288 | 616 | 30,715 | 57,446 | 87.0 | 11,310 | 16,874 | 12,435 | 29,160 |
| **East South Central** | 936 | 1,052 | 137,100 | 128,626 | −6.2 | 44,563 | 37,269 | 62,135 | 61,658 |
| Kentucky | 330 | 341 | 34,321 | 36,229 | 5.6 | 11,821 | 10,526 | 13,872 | 17,945 |
| Tennessee | 314 | 363 | 53,065 | 49,669 | −6.4 | 16,033 | 14,773 | 23,706 | 20,719 |
| Alabama | 197 | 240 | 38,841 | 29,970 | −22.8 | 13,224 | 8,556 | 19,380 | 16,467 |
| Mississippi | 95 | 108 | 10,873 | 12,758 | 17.3 | 3,485 | 3,414 | 5,177 | 6,527 |
| **West South Central** | 1,609 | 1,950 | 256,850 | 246,343 | −4.1 | 82,599 | 69,278 | 118,364 | 119,791 |
| Arkansas | 118 | 86 | 14,557 | 10,095 | −30.7 | 4,433 | 2,784 | 7,156 | 4,538 |
| Louisiana | 178 | 348 | 28,599 | 46,843 | 63.8 | 9,334 | 13,337 | 11,733 | 21,999 |
| Oklahoma | 312 | 272 | 49,212 | 38,974 | −20.8 | 15,630 | 11,488 | 22,225 | 19,755 |
| Texas | 1,001 | 1,244 | 164,482 | 150,431 | −8.5 | 53,202 | 41,669 | 77,250 | 73,499 |
| **Mountain** | 709 | 934 | 74,202 | 104,384 | 40.7 | 24,575 | 32,127 | 29,218 | 43,754 |
| Montana | 119 | 138 | 10,208 | 12,926 | 26.6 | 3,268 | 4,121 | 4,551 | 5,675 |
| Idaho | 44 | 71 | 6,268 | 9,976 | 59.2 | 2,406 | 3,369 | 1,168 | 3,298 |
| Wyoming | 40 | 67 | 2,765 | 6,424 | (2) | 949 | 1,909 | 984 | 2,548 |
| Colorado | 211 | 227 | 23,040 | 30,370 | 31.8 | 7,513 | 9,368 | 10,009 | 13,062 |
| New Mexico | 41 | 83 | 5,744 | 8,765 | 52.6 | 1,649 | 2,616 | 2,030 | 3,934 |
| Arizona | [3] 102 | 131 | [3] 9,312 | 11,278 | 21.1 | [3] 2,983 | 3,590 | [3] 4,404 | 4,839 |
| Utah | 129 | 155 | 12,899 | 19,235 | 49.1 | 4,753 | 5,643 | 4,717 | 8,333 |
| Nevada | 20 | 62 | 2,956 | 5,410 | (2) | 879 | 1,511 | 790 | 2,065 |
| **Pacific** | 3,409 | 4,466 | 417,009 | 392,485 | −5.9 | 136,871 | 131,205 | 187,653 | 169,503 |
| Washington | 404 | 429 | 55,263 | 66,994 | 21.2 | 19,353 | 23,178 | 25,616 | 22,999 |
| Oregon | 249 | 287 | 26,315 | 28,479 | 8.2 | 9,377 | 9,531 | 10,915 | 12,531 |
| California | 2,756 | 3,750 | 335,431 | 297,012 | −11.5 | 108,141 | 98,496 | 151,122 | 133,973 |

[1] See note 1, table 895. [2] Not comparable due to undercoverage in 1929.
[3] Revised. Revision not carried to totals.

Source: Dept. of Commerce, Bur. of the Census; Census of Business, 1939, Vol. IV, Construction.

## No. 899.—Public Housing—Number of Dwelling Units Completed for Occupancy: 1935 to 1947

[Covers programs administered by Housing and Home Finance Agency or Public Housing Administration]

| YEAR | All public housing | LOW-RENT HOUSING | | | WAR HOUSING | | | Veterans' reuse housing |
|---|---|---|---|---|---|---|---|---|
| | | Total | U. S. Housing Act | All other [1] | Total | Built for war use | Low-rent housing in war use [2] | |
| **Total** | **1,213,949** | **134,854** | **107,833** | **27,021** | **845,358** | **784,817** | **60,541** | [3] 233,737 |
| 1935 | 1,171 | 1,171 | | 1,171 | | | | |
| 1936 | 1,009 | 1,009 | | 1,009 | | | | |
| 1937 | 8,255 | 8,255 | | 8,255 | | | | |
| 1938 | 16,586 | 16,586 | | 16,586 | | | | |
| 1939 | 5,588 | 5,588 | 5,588 | | | | | |
| 1940 | 34,423 | 33,798 | 33,798 | | 625 | | 625 | |
| 1941 | 135,326 | 55,455 | 55,455 | | 79,871 | 73,473 | 6,398 | |
| 1942 | 166,565 | 10,591 | 10,591 | | 155,974 | 131,390 | 24,584 | |
| 1943 | 405,844 | 102 | 102 | | 405,742 | 382,047 | 23,695 | |
| 1944 | 162,464 | | | | 162,464 | 159,486 | 2,978 | |
| 1945 | 39,601 | | | | 37,695 | 35,434 | 2,261 | 1,906 |
| 1946 | 131,651 | 1,833 | 1,833 | | 2,987 | 2,987 | | 126,831 |
| 1947 | 105,466 | 466 | 466 | | | | | 105,000 |

[1] Includes PWA low-rent, Subsistence Homestead and Greenbelt projects.
[2] Units financed under U. S. Housing Act and its amendment.
[3] Includes 81,052 units financed by local bodies.

Source: Housing and Home Finance Agency, Public Housing Administration.

## No. 900.—Number of Dwelling Units Owned or Supervised by the Public Housing Administration, by Program, as of Dec. 31, 1947

[Excludes units which have been sold to mutual housing associations, limited dividend corporations (PWA) and homestead associations on which PHA holds mortgages for collection]

| PROGRAM | TOTAL | | Federally owned | Locally owned |
|---|---|---|---|---|
| | Number | Net change since December 31, 1946 | | |
| Active | 854,313 | −39,065 | 443,680 | 410,633 |
| Veterans' reuse | 261,573 | +4,470 | 1,603 | [1] 259,970 |
| Under management | 232,086 | +103,349 | 1,603 | 230,483 |
| Under construction | 21,559 | −93,015 | | 21,559 |
| Not under construction [2] | 7,928 | −5,864 | | 7,928 |
| Public War Housing (Lanham Constructed) | 361,802 | −23,534 | 361,802 | |
| Homes Conversion | 34,243 | −9,464 | 34,243 | |
| Defense Homes Corporation | 2,001 | −5,904 | 2,001 | |
| U. S. Housing Act | 192,012 | −4,268 | 41,349 | 150,663 |
| Under management | 189,733 | +325 | 41,349 | 148,384 |
| Under construction | 146 | −320 | | 146 |
| Not under construction | 2,133 | −4,273 | | [3] 2,133 |
| PL-412 | 119,101 | −3,830 | 11,855 | 107,246 |
| PL-671 | 51,288 | −450 | 7,871 | 43,417 |
| PWA | 21,623 | +12 | 21,623 | |
| Subsistence Homestead and Greenbelt Towns | 2,682 | −365 | 2,682 | |
| Inactive: | | | | |
| Public War Housing (Lanham Constructed) | 38,475 | −2,365 | 38,475 | |
| Deferred—U. S. Housing Act | 23,150 | +4,298 | 23,150 | |

[1] Considered as disposed of to local public bodies or educational institutions even though improvements provided by PHA may not be wholly complete or title to them formally transferred.
[2] Includes accommodations allocated but with no local contract.
[3] Includes 1,423 rural units not yet built which are parts of active rural projects.

Source: Housing and Home Finance Agency, Public Housing Administration; Annual Report.

No. 901 —Active Public Housing Owned or Supervised by the Public Housing Administration—Number of Projects and Dwelling Units, by State or Other Area, as of Dec. 31, 1947

[See headnote, table 900]

| State or other area | Total program | | Veterans reuse housing | | War housing [1] | | Low rent housing [2] | |
|---|---|---|---|---|---|---|---|---|
| | Number of projects | Number of units | Number of projects | Number of units | Number of projects | Number of units | Number of projects | Number of units |
| **Total** | **4,705** | **854,313** | **2,607** | **261,573** | **1,449** | **398,046** | **649** | **194,694** |
| Alabama | 98 | 19,964 | 38 | 5,043 | 40 | 9,476 | 20 | 5,445 |
| Arizona | 92 | 8,093 | 31 | 2,028 | 54 | 5,171 | 7 | 894 |
| Arkansas | 59 | 6,817 | 45 | 4,528 | 6 | 1,358 | 8 | 931 |
| California | 615 | 128,614 | 271 | 23,256 | 305 | 95,964 | 39 | 9,394 |
| Colorado | 43 | 5,061 | 28 | 3,199 | 10 | 1,092 | 5 | 770 |
| Connecticut | 96 | 21,254 | 24 | 2,975 | 55 | 12,047 | 17 | 6,232 |
| Delaware | 15 | 2,773 | 6 | 378 | 7 | 2,015 | 2 | 380 |
| District of Columbia | 47 | 13,573 | 9 | 2,223 | 28 | 8,203 | 10 | 3,147 |
| Florida | 91 | 18,452 | 28 | 5,166 | 31 | 5,952 | 32 | 7,334 |
| Georgia | 109 | 22,671 | 42 | 3,949 | 26 | 7,360 | 41 | 11,362 |
| Idaho | 43 | 3,640 | 33 | 2,691 | 8 | 865 | 2 | 84 |
| Illinois | 138 | 26,374 | 84 | 9,955 | 20 | 3,772 | 34 | 12,647 |
| Indiana | 111 | 17,107 | 72 | 8,654 | 24 | 5,196 | 15 | 3,257 |
| Iowa | 91 | 8,541 | 86 | 7,459 | 5 | 1,082 | ---- | ---- |
| Kansas | 61 | 12,397 | 41 | 3,700 | 20 | 8,697 | ---- | ---- |
| Kentucky | 93 | 8,611 | 73 | 3,274 | 4 | 984 | 16 | 4,353 |
| Louisiana | 56 | 14,343 | 33 | 6,133 | 10 | 2,406 | 13 | 5,804 |
| Maine | 19 | 3,616 | 5 | 1,315 | 14 | 2,301 | ---- | ---- |
| Maryland | 60 | 20,567 | 10 | 1,318 | 36 | 13,061 | 14 | 6,188 |
| Massachusetts | 83 | 18,817 | 53 | 7,808 | 13 | 3,096 | 17 | 7,913 |
| Michigan | 179 | 34,653 | 86 | 6,859 | 84 | 22,615 | 9 | 5,179 |
| Minnesota | 72 | 4,487 | 69 | 3,910 | 2 | 113 | 1 | 464 |
| Mississippi | 103 | 10,943 | 66 | 5,002 | 15 | 3,775 | 22 | 2,166 |
| Missouri | 63 | 7,608 | 58 | 5,231 | 3 | 1,062 | 2 | 1,315 |
| Montana | 32 | 2,993 | 23 | 2,119 | 5 | 341 | 4 | 533 |
| Nebraska | 66 | 5,989 | 53 | 2,038 | 10 | 2,873 | 3 | 1,078 |
| Nevada | 36 | 2,355 | 14 | 510 | 22 | 1,845 | ---- | ---- |
| New Hampshire | 9 | 2,119 | 5 | 636 | 4 | 1,483 | ---- | ---- |
| New Jersey | 132 | 20,843 | 79 | 6,088 | 19 | 5,651 | 34 | 9,104 |
| New Mexico | 35 | 3,108 | 25 | 2,333 | 10 | 775 | ---- | ---- |
| New York | 158 | 57,216 | 112 | 30,876 | 26 | 8,862 | 20 | 17,478 |
| North Carolina | 82 | 12,119 | 46 | 3,943 | 21 | 5,207 | 15 | 2,969 |
| North Dakota | 40 | 1,253 | 40 | 1,253 | ---- | ---- | ---- | ---- |
| Ohio | 261 | 46,453 | 157 | 12,805 | 65 | 17,460 | 39 | 16,188 |
| Oklahoma | 72 | 8,788 | 65 | 5,991 | 5 | 2,363 | 2 | 434 |
| Oregon | 99 | 22,116 | 39 | 4,189 | 57 | 17,327 | 3 | 600 |
| Pennsylvania | 174 | 44,101 | 53 | 7,402 | 75 | 23,413 | 46 | 13,286 |
| Rhode Island | 14 | 3,604 | 7 | 876 | 2 | 800 | 5 | 1,928 |
| South Carolina | 59 | 7,677 | 29 | 2,320 | 15 | 2,810 | 15 | 2,547 |
| South Dakota | 38 | 1,749 | 36 | 1,591 | 2 | 158 | ---- | ---- |
| Tennessee | 83 | 14,028 | 51 | 4,790 | 10 | 2,260 | 22 | 6,978 |
| Texas | 284 | 47,214 | 164 | 16,209 | 76 | 20,524 | 45 | 10,481 |
| Utah | 60 | 10,991 | 37 | 5,248 | 23 | 5,743 | ---- | ---- |
| Vermont | 16 | 1,082 | 12 | 703 | 4 | 379 | ---- | ---- |
| Virginia | 97 | 32,467 | 31 | 4,286 | 51 | 25,166 | 15 | 3,005 |
| Washington | 158 | 39,984 | 55 | 6,680 | 94 | 29,696 | 9 | 3,608 |
| West Virginia | 61 | 4,470 | 45 | 1,910 | 3 | 1,001 | 13 | 1,559 |
| Wisconsin | 107 | 9,307 | 94 | 6,075 | 9 | 1,696 | 4 | 1,536 |
| Wyoming | 36 | 2,668 | 28 | 1,723 | 8 | 945 | ---- | ---- |
| Alaska | 18 | 595 | 6 | 238 | 12 | 357 | ---- | ---- |
| Hawaii | 18 | 4,164 | 9 | 2,555 | 2 | 1,248 | 2 | 361 |
| Puerto Rico | 27 | 5,768 | 1 | 132 | ---- | ---- | 26 | 5,636 |
| Virgin Islands | 1 | 126 | ---- | ---- | ---- | ---- | 1 | 126 |

[1] Includes Public War Housing (Lanham Constructed), Defense Homes Corporation and Homes Conversion programs.

[2] Includes U. S. Housing Act and Subsistence Homestead—Greenbelt Towns programs.

Source: Housing and Home Finance Agency, Public Housing Administration; Annual Report.

## No. 902.—Dwelling Units, Urban and Rural—Occupancy, Tenure and Color of Occupants: 1940

| Occupancy, and tenure and color of occupants | Number | | | | Percent distribution | | | |
|---|---|---|---|---|---|---|---|---|
| | Total | Urban | Rural-nonfarm | Rural-farm | Total | Urban | Rural-nonfarm | Rural-farm |
| **Occupancy** | | | | | | | | |
| **All dwelling units** | 37,325,470 | 21,616,352 | 8,066,837 | 7,642,281 | 100.0 | 57.9 | 21.6 | 20.5 |
| Occupied | 34,854,532 | 20,596,500 | 7,151,473 | 7,106,559 | 100.0 | 59.1 | 20.5 | 20.4 |
| Vacant, for sale or rent | 1,864,383 | 918,297 | 510,676 | 435,410 | 100.0 | 49.3 | 27.4 | 23.4 |
| Ordinary | 1,475,374 | 826,243 | 275,940 | 373,191 | 100.0 | 56.0 | 18.7 | 25.3 |
| Seasonal | 341,831 | 65,074 | 224,670 | 52,087 | 100.0 | 19.0 | 65.7 | 15.2 |
| Not reporting | 47,178 | 26,980 | 10,066 | 10,132 | 100.0 | 57.2 | 21.3 | 21.5 |
| Vacant, not for sale or rent | 606,555 | 101,555 | 404,688 | 100,312 | 100.0 | 16.7 | 66.7 | 16.5 |
| Held for absent household | 500,913 | 69,599 | 346,556 | 84,758 | 100.0 | 13.9 | 69.2 | 16.9 |
| Ordinary | 164,516 | 45,203 | 67,044 | 52,269 | 100.0 | 27.5 | 40.8 | 31.8 |
| Seasonal | 336,397 | 24,396 | 279,512 | 32,489 | 100.0 | 7.3 | 83.1 | 9.7 |
| Occupied by nonresident household | 105,642 | 31,956 | 58,132 | 15,554 | 100.0 | 30.2 | 55.0 | 14.7 |
| Ordinary | 44,276 | 21,967 | 13,474 | 8,835 | 100.0 | 49.6 | 30.4 | 20.0 |
| Seasonal | 61,366 | 9,989 | 44,658 | 6,719 | 100.0 | 16.3 | 72.8 | 10.9 |
| **Tenure and color** | | | | | | | | |
| **Occupied dwelling units** | 34,854,532 | 20,596,500 | 7,151,473 | 7,106,559 | 100.0 | 59.1 | 20.5 | 20.4 |
| Owner | 15,195,763 | 7,714,960 | 3,698,076 | 3,782,727 | 100.0 | 50.8 | 24.3 | 24.9 |
| Tenant | 19,658,769 | 12,881,540 | 3,453,397 | 3,323,832 | 100.0 | 65.5 | 17.6 | 16.9 |
| Occupied by white household | 31,561,126 | 18,868,480 | 6,590,687 | 6,101,959 | 100.0 | 59.8 | 20.9 | 19.3 |
| Owner | 14,418,092 | 7,372,835 | 3,494,220 | 3,551,037 | 100.0 | 51.1 | 24.2 | 24.6 |
| Tenant | 17,143,034 | 11,495,645 | 3,096,467 | 2,550,922 | 100.0 | 67.1 | 18.1 | 14.9 |
| Occupied by nonwhite household | 3,293,406 | 1,728,020 | 560,786 | 1,004,600 | 100.0 | 52.5 | 17.0 | 30.5 |
| Owner | 777,671 | 342,125 | 203,856 | 231,690 | 100.0 | 44.0 | 26.2 | 29.8 |
| Tenant | 2,515,735 | 1,385,895 | 356,930 | 772,910 | 100.0 | 55.1 | 14.2 | 30.7 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 903.—Occupied Dwelling Units or Families—Tenure: 1890 to 1940

[1940 figures based on occupied dwelling units; not strictly comparable with data for private families, but differences are negligible. Figures for 1900 and 1930 represent private families only; those for 1890, 1910, and 1920 include small number of quasi-family groups. For 1947 data, see table 912]

| Area and year | Occupied dwelling units or families | Reporting tenure | Owner | | Tenant | |
|---|---|---|---|---|---|---|
| | | | Number | Percent | Number | Percent |
| **United States:** | | | | | | |
| 1890 [1] | 12,690,152 | 12,690,152 | 6,066,417 | 47.8 | 6,623,735 | 52.2 |
| 1900 | 15,963,965 | 15,428,987 | 7,205,212 | 46.7 | 8,223,775 | 53.3 |
| 1910 | 20,255,555 | 19,781,606 | 9,083,711 | 45.9 | 10,697,895 | 54.1 |
| 1920 | 24,351,676 | 23,810,558 | 10,866,960 | 45.6 | 12,943,598 | 54.4 |
| 1930 | 29,904,663 | 29,321,891 | 14,002,074 | 47.8 | 15,319,817 | 52.2 |
| 1940 [1] | 34,854,532 | 34,854,532 | 15,195,763 | 43.6 | 19,658,769 | 56.4 |
| **Urban:** | | | | | | |
| 1930 | 17,372,524 | 17,113,913 | 7,432,554 | 43.4 | 9,681,359 | 56.6 |
| 1940 | 20,596,500 | 20,596,500 | 7,714,960 | 37.5 | 12,881,540 | 62.5 |
| **Rural-nonfarm:** | | | | | | |
| 1930 | 5,927,502 | 5,803,159 | 3,117,418 | 53.7 | 2,685,741 | 46.3 |
| 1940 | 7,151,473 | 7,151,473 | 3,698,076 | 51.7 | 3,453,397 | 48.3 |
| **Rural-farm:** | | | | | | |
| 1930 | 6,604,637 | 6,404,819 | 3,452,102 | 53.9 | 2,952,717 | 46.1 |
| 1940 | 7,106,559 | 7,106,559 | 3,782,727 | 53.2 | 3,323,832 | 46.8 |

[1] Includes estimated data for those of unknown tenure.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 904.—Dwelling Units, Urban and Rural—Total and Occupied, by States: 1940

| Division and State | All dwelling units | | | | Occupied dwelling units | | | |
|---|---|---|---|---|---|---|---|---|
| | Total | Urban | Rural-nonfarm | Rural-farm | Total | Urban | Rural-nonfarm | Rural-farm |
| **United States** | 37,325,470 | 21,616,352 | 8,066,837 | 7,642,281 | 34,854,532 | 20,596,500 | 7,151,473 | 7,106,559 |
| **New England** | 2,438,329 | 1,762,742 | 526,411 | 149,176 | 2,201,421 | 1,674,259 | 395,506 | 131,656 |
| Maine | 260,659 | 94,787 | 120,424 | 45,448 | 218,968 | 88,406 | 90,186 | 40,376 |
| New Hampshire | 158,044 | 79,549 | 59,260 | 19,235 | 132,936 | 75,355 | 41,550 | 16,031 |
| Vermont | 106,362 | 33,746 | 44,036 | 28,580 | 92,435 | 32,465 | 35,164 | 24,806 |
| Massachusetts | 1,221,252 | 1,059,441 | 135,579 | 26,232 | 1,120,694 | 1,002,433 | 94,541 | 23,720 |
| Rhode Island | 203,469 | 181,143 | 19,407 | 2,919 | 187,706 | 171,236 | 13,860 | 2,610 |
| Connecticut | 488,543 | 314,076 | 147,705 | 26,762 | 448,682 | 304,364 | 120,205 | 24,113 |
| **Middle Atlantic** | 7,874,403 | 6,005,483 | 1,407,247 | 461,673 | 7,277,897 | 5,666,299 | 1,186,295 | 425,303 |
| New York | 4,032,460 | 3,279,539 | 547,515 | 205,406 | 3,662,113 | 3,055,529 | 423,279 | 183,305 |
| New Jersey | 1,223,887 | 961,347 | 226,514 | 36,026 | 1,100,260 | 899,637 | 167,675 | 32,948 |
| Pennsylvania | 2,618,056 | 1,764,597 | 633,218 | 220,241 | 2,515,524 | 1,711,133 | 595,341 | 209,050 |
| **East North Central** | 7,681,568 | 5,010,041 | 1,455,338 | 1,216,189 | 7,275,239 | 4,853,482 | 1,269,920 | 1,151,837 |
| Ohio | 1,977,693 | 1,331,713 | 365,025 | 280,955 | 1,897,796 | 1,291,248 | 338,164 | 268,384 |
| Indiana | 1,005,952 | 555,147 | 228,338 | 222,467 | 961,498 | 541,073 | 208,010 | 212,415 |
| Illinois | 2,280,826 | 1,687,563 | 333,505 | 259,758 | 2,192,724 | 1,633,017 | 310,446 | 249,261 |
| Michigan | 1,519,378 | 958,532 | 322,921 | 237,925 | 1,396,014 | 924,913 | 252,211 | 218,890 |
| Wisconsin | 897,719 | 477,086 | 205,549 | 215,084 | 827,207 | 463,231 | 161,089 | 202,887 |
| **West North Central** | 3,915,903 | 1,793,744 | 880,659 | 1,241,500 | 3,688,149 | 1,717,276 | 815,294 | 1,155,579 |
| Minnesota | 773,042 | 394,093 | 159,769 | 218,580 | 728,359 | 383,336 | 135,689 | 209,334 |
| Iowa | 726,654 | 320,989 | 168,924 | 236,741 | 701,824 | 312,393 | 161,077 | 228,354 |
| Missouri | 1,140,493 | 609,286 | 219,366 | 311,841 | 1,068,642 | 573,347 | 204,507 | 290,788 |
| North Dakota | 162,881 | 35,118 | 49,063 | 78,700 | 152,043 | 34,069 | 47,024 | 70,950 |
| South Dakota | 179,744 | 45,281 | 53,087 | 81,376 | 165,428 | 43,558 | 49,548 | 72,322 |
| Nebraska | 387,368 | 153,358 | 94,515 | 139,495 | 360,744 | 146,259 | 89,390 | 125,095 |
| Kansas | 545,721 | 235,019 | 135,935 | 174,767 | 511,109 | 224,314 | 128,059 | 158,736 |
| **South Atlantic** | 4,547,316 | 1,923,265 | 1,266,878 | 1,357,173 | 4,278,771 | 1,828,329 | 1,179,744 | 1,270,698 |
| Delaware | 75,567 | 38,181 | 25,029 | 12,357 | 70,541 | 37,070 | 21,830 | 11,641 |
| Maryland | 500,156 | 297,243 | 143,734 | 59,179 | 465,683 | 286,505 | 124,112 | 55,066 |
| Dist. of Columbia | 185,128 | 185,128 | | | 173,445 | 173,445 | | |
| Virginia | 659,787 | 252,179 | 184,768 | 222,840 | 627,532 | 244,105 | 174,219 | 209,208 |
| West Virginia | 459,725 | 144,152 | 199,660 | 115,913 | 444,815 | 140,556 | 192,771 | 111,488 |
| North Carolina | 820,888 | 246,060 | 227,681 | 347,147 | 789,659 | 239,917 | 217,703 | 332,039 |
| South Carolina | 458,899 | 126,503 | 132,422 | 199,974 | 434,968 | 123,503 | 126,119 | 185,346 |
| Georgia | 796,715 | 296,325 | 179,371 | 321,019 | 752,241 | 288,818 | 170,595 | 292,828 |
| Florida | 590,451 | 337,494 | 174,213 | 78,744 | 519,887 | 294,410 | 152,395 | 73,082 |
| **East South Central** | 2,736,525 | 887,147 | 609,173 | 1,240,205 | 2,622,203 | 862,008 | 585,233 | 1,174,962 |
| Kentucky | 729,206 | 247,957 | 187,475 | 293,774 | 698,538 | 238,283 | 179,890 | 280,365 |
| Tennessee | 742,030 | 283,649 | 158,037 | 300,344 | 714,894 | 276,056 | 152,197 | 286,641 |
| Alabama | 708,043 | 232,437 | 164,531 | 311,075 | 673,815 | 227,309 | 157,226 | 289,280 |
| Mississippi | 557,246 | 123,104 | 99,130 | 335,012 | 534,956 | 120,360 | 95,920 | 318,676 |
| **West South Central** | 3,592,215 | 1,514,410 | 788,720 | 1,289,085 | 3,377,230 | 1,443,835 | 747,601 | 1,185,794 |
| Arkansas | 520,613 | 127,751 | 116,225 | 276,637 | 495,825 | 123,528 | 111,636 | 260,661 |
| Louisiana | 619,233 | 271,064 | 143,392 | 204,777 | 592,528 | 262,927 | 136,615 | 192,986 |
| Oklahoma | 647,485 | 269,613 | 145,864 | 232,008 | 610,481 | 254,779 | 139,605 | 216,097 |
| Texas | 1,804,884 | 845,982 | 383,239 | 575,663 | 1,678,396 | 802,601 | 359,745 | 516,050 |
| **Mountain** | 1,238,588 | 533,588 | 393,861 | 311,139 | 1,120,450 | 507,692 | 343,590 | 269,168 |
| Montana | 177,443 | 67,221 | 56,301 | 53,921 | 159,963 | 64,148 | 49,737 | 46,078 |
| Idaho | 152,835 | 52,975 | 45,934 | 53,926 | 141,727 | 50,774 | 41,235 | 49,718 |
| Wyoming | 76,868 | 29,024 | 25,365 | 22,479 | 69,374 | 27,332 | 22,842 | 19,200 |
| Colorado | 354,660 | 182,794 | 96,208 | 75,658 | 316,000 | 174,759 | 77,956 | 63,285 |
| New Mexico | 145,642 | 49,527 | 50,166 | 45,949 | 129,475 | 46,713 | 43,097 | 39,665 |
| Arizona | 147,079 | 52,878 | 62,038 | 32,163 | 131,133 | 48,924 | 55,813 | 26,396 |
| Utah | 147,291 | 85,262 | 39,763 | 22,266 | 139,487 | 81,758 | 37,115 | 20,614 |
| Nevada | 36,770 | 13,907 | 18,086 | 4,777 | 33,291 | 13,284 | 15,795 | 4,212 |
| **Pacific** | 3,300,623 | 2,185,932 | 738,550 | 376,141 | 3,013,172 | 2,043,320 | 628,290 | 341,562 |
| Washington | 590,439 | 322,164 | 165,746 | 102,529 | 537,337 | 302,208 | 141,673 | 93,456 |
| Oregon | 369,811 | 184,069 | 104,744 | 80,998 | 337,492 | 172,560 | 92,667 | 72,265 |
| California | 2,340,373 | 1,679,699 | 468,060 | 192,614 | 2,138,343 | 1,568,552 | 393,950 | 175,841 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 905.—Dwelling Units, Urban and Rural—Occupancy and Tenure, by Average and Median Monthly Rent: 1940

[For urban and rural-nonfarm units, monthly rent includes land; for farm units, farm land is excluded. Monthly rental data include contract rent of tenant-occupied nonfarm units and estimated rent of other units. Monthly rent of owner-occupied rural-farm units is an estimate based on 1 percent of reported value]

| AREA AND SUBJECT | All dwelling units | Owner occupied | Tenant occupied | Vacant, for sale or rent | Vacant, not for sale or rent |
|---|---|---|---|---|---|
| REPORTING MONTHLY RENT | | | | | |
| **Total** | 35,938,118 | 14,403,635 | 19,223,611 | 1,749,702 | 561,170 |
| Urban and rural-nonfarm | 29,129,996 | 11,129,428 | 16,177,770 | 1,350,647 | 472,151 |
| Urban | 21,239,794 | 7,488,676 | 12,790,473 | 867,613 | 93,032 |
| Rural-nonfarm | 7,890,202 | 3,640,752 | 3,387,297 | 483,034 | 379,119 |
| Rural-farm | 6,808,122 | 3,274,207 | 3,045,841 | 399,055 | 89,019 |
| AVERAGE MONTHLY RENT | | | | | |
| **Total** | $24.15 | $27.47 | $21.17 | $26.55 | $33.30 |
| Urban and rural-nonfarm | 27.45 | 31.52 | 23.95 | 32.60 | 37.09 |
| Urban | 30.83 | 36.69 | 27.01 | 34.83 | 47.24 |
| Rural-nonfarm | 18.35 | 20.88 | 12.36 | 28.59 | 34.59 |
| Rural-farm | 10.00 | 13.69 | 6.45 | 6.09 | 13.22 |
| MEDIAN MONTHLY RENT [1] | | | | | |
| **Total** | $20.09 | $23.17 | $18.22 | $18.59 | $21.52 |
| Urban and rural-nonfarm | 23.73 | 27.45 | 21.41 | 24.60 | 24.25 |
| Urban | 27.31 | 32.59 | 24.60 | 27.98 | 32.28 |
| Rural-nonfarm | 13.20 | 16.21 | 10.08 | 17.19 | 22.57 |
| Rural-farm | 5.97 | 9.78 | 4.72 | 3.84 | 6.29 |

[1] For definition of median, see headnote, table 910.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 906.—Dwelling Units, Urban and Rural—Estimated Total Monthly Rent and Estimated Total Value: 1940

[For urban and rural-nonfarm units, monthly rent and value include land; for farm units, farm land is excluded. Monthly rental data include contract rent of tenant-occupied nonfarm units and estimated rent of other units. Monthly rent of owner-occupied rural-farm units is an estimate based on 1 percent of reported value. Value of owner-occupied units represents the owners' estimate of the value. For tenant-occupied and vacant units value was estimated as 100 times the monthly rent. Value or rent of units for which these data were not reported was estimated by assuming that the average value or rent of such units was the same as the value or rent of reporting units in the corresponding tenure and occupancy group of the urban and rural areas of each region]

[In thousands]

| SUBJECT AND OCCUPANCY STATUS | Total | Urban | Rural-nonfarm | Rural-farm |
|---|---|---|---|---|
| **Estimated total monthly rent of all dwelling units** | $893,715 | $668,362 | $148,565 | $76,788 |
| Owner-occupied | 411,906 | 283,508 | 77,211 | 51,187 |
| Tenant-occupied | 412,287 | 347,984 | 42,705 | 21,598 |
| Vacant, for sale or rent | 49,422 | 32,068 | 14,678 | 2,676 |
| Vacant, not for sale or rent | 20,101 | 4,802 | 13,971 | 1,327 |
| **Estimated total value of all dwelling units** | $95,439,310 | $71,110,397 | $16,267,971 | $8,060,942 |
| Owner-occupied | 46,151,888 | 31,929,917 | 8,914,115 | 5,307,855 |
| Tenant-occupied | 42,211,598 | 35,442,459 | 4,443,164 | 2,325,975 |
| Vacant, for sale or rent | 5,035,391 | 3,252,718 | 1,493,318 | 289,355 |
| Vacant, not for sale or rent | 2,040,433 | 485,302 | 1,417,373 | 137,757 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Special Reports, Series H–1943, No. 1.

## No. 907.—Owner-Occupied Dwelling Units, Urban and Rural, and Tenant-Occupied Units, by States: 1940

[For total number of occupied units, see table 904]

| Division and State | Owner-occupied units | | | | | | | | Tenant-occupied units | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | | | | Percent | | | | | |
| | Total | Urban | Rural-nonfarm | Rural-farm | Total | Urban | Rural-nonfarm | Rural-farm | Number | Percent |
| **United States** | **15,195,763** | **7,714,960** | **3,698,076** | **3,782,727** | **43.6** | **37.5** | **51.7** | **53.2** | **19,658,769** | **56.4** |
| **New England** | **924,408** | **592,745** | **224,230** | **107,433** | **42.0** | **35.4** | **56.7** | **81.6** | **1,277,013** | **58.0** |
| Maine | 125,390 | 36,988 | 54,209 | 34,193 | 57.3 | 41.8 | 60.1 | 84.7 | 93,578 | 42.7 |
| New Hampshire | 68,705 | 30,757 | 24,374 | 13,574 | 51.7 | 40.8 | 58.7 | 84.7 | 64,231 | 48.3 |
| Vermont | 51,709 | 13,198 | 18,638 | 19,873 | 55.9 | 40.7 | 53.0 | 80.1 | 40,726 | 44.1 |
| Massachusetts | 426,785 | 351,833 | 55,940 | 19,012 | 38.1 | 35.1 | 59.2 | 80.2 | 693,909 | 61.9 |
| Rhode Island | 70,190 | 61,010 | 7,274 | 1,906 | 37.4 | 35.6 | 52.5 | 73.0 | 117,516 | 62.6 |
| Connecticut | 181,629 | 98,959 | 63,795 | 18,875 | 40.5 | 32.5 | 53.1 | 78.3 | 267,053 | 59.5 |
| **Middle Atlantic** | **2,700,214** | **1,746,612** | **644,251** | **309,351** | **37.1** | **30.8** | **54.3** | **72.7** | **4,577,683** | **62.9** |
| New York | 1,111,888 | 726,860 | 247,360 | 137,168 | 30.3 | 23.8 | 58.4 | 74.8 | 2,550,725 | 69.7 |
| New Jersey | 433,878 | 315,560 | 95,311 | 23,007 | 39.4 | 35.1 | 56.8 | 69.8 | 666,382 | 60.6 |
| Pennsylvania | 1,154,948 | 704,192 | 301,580 | 149,176 | 45.9 | 41.2 | 50.7 | 71.4 | 1,360,576 | 54.1 |
| **East North Central** | **3,565,823** | **2,033,285** | **778,560** | **753,978** | **49.0** | **41.9** | **61.3** | **65.5** | **3,709,416** | **51.0** |
| Ohio | 948,354 | 568,057 | 200,880 | 179,417 | 50.0 | 44.0 | 59.4 | 66.9 | 949,442 | 50.0 |
| Indiana | 510,636 | 245,764 | 126,050 | 138,822 | 53.1 | 45.4 | 60.6 | 65.4 | 450,862 | 46.9 |
| Illinois | 882,870 | 573,029 | 185,445 | 124,396 | 40.3 | 35.1 | 59.7 | 49.9 | 1,309,854 | 59.7 |
| Michigan | 773,755 | 438,376 | 169,355 | 166,024 | 55.4 | 47.4 | 67.1 | 75.8 | 622,259 | 44.6 |
| Wisconsin | 450,208 | 208,059 | 96,830 | 145,319 | 54.4 | 44.9 | 60.1 | 71.6 | 376,999 | 45.6 |
| **West North Central** | **1,817,304** | **750,233** | **452,932** | **614,139** | **49.3** | **43.7** | **55.6** | **53.1** | **1,870,845** | **50.7** |
| Minnesota | 402,318 | 184,886 | 82,143 | 135,289 | 55.2 | 48.2 | 60.5 | 64.6 | 326,041 | 44.8 |
| Iowa | 361,477 | 157,732 | 94,440 | 109,305 | 51.5 | 50.5 | 58.6 | 47.9 | 340,347 | 48.5 |
| Missouri | 472,950 | 201,064 | 109,856 | 162,030 | 44.3 | 35.1 | 53.7 | 55.7 | 595,992 | 55.7 |
| North Dakota | 75,710 | 13,549 | 24,526 | 37,635 | 49.8 | 39.8 | 52.2 | 53.0 | 76,333 | 50.2 |
| South Dakota | 74,388 | 18,259 | 23,708 | 32,421 | 45.0 | 41.9 | 47.8 | 44.8 | 91,040 | 55.0 |
| Nebraska | 169,966 | 67,969 | 46,606 | 55,391 | 47.1 | 46.5 | 52.1 | 44.3 | 190,778 | 52.9 |
| Kansas | 260,495 | 106,774 | 71,653 | 82,068 | 51.0 | 47.6 | 56.0 | 51.7 | 250,614 | 49.0 |
| **South Atlantic** | **1,733,705** | **631,317** | **491,233** | **611,155** | **40.5** | **34.5** | **41.6** | **48.1** | **2,545,066** | **59.5** |
| Delaware | 33,213 | 15,265 | 11,513 | 6,435 | 47.1 | 41.2 | 52.7 | 55.3 | 37,328 | 52.9 |
| Maryland | 220,765 | 116,595 | 71,450 | 32,720 | 47.4 | 40.7 | 57.6 | 59.4 | 244,918 | 52.6 |
| Dist. of Columbia | 51,944 | 51,944 | | | 29.9 | 29.9 | | | 121,501 | 70.1 |
| Virginia | 306,688 | 88,362 | 85,994 | 132,332 | 48.9 | 36.2 | 49.4 | 63.3 | 320,844 | 51.1 |
| West Virginia | 194,409 | 56,588 | 61,920 | 75,901 | 43.7 | 40.3 | 32.1 | 68.1 | 250,406 | 56.3 |
| North Carolina | 335,063 | 76,758 | 92,787 | 165,518 | 42.4 | 32.0 | 42.6 | 49.8 | 454,596 | 57.6 |
| South Carolina | 133,279 | 33,309 | 35,618 | 64,352 | 30.6 | 27.0 | 28.2 | 34.7 | 301,689 | 69.4 |
| Georgia | 231,689 | 76,968 | 61,297 | 93,424 | 30.8 | 26.6 | 35.9 | 31.9 | 520,552 | 69.2 |
| Florida | 226,655 | 115,528 | 70,654 | 40,473 | 43.6 | 39.2 | 46.4 | 55.4 | 293,232 | 56.4 |
| **East South Central** | **1,055,110** | **294,486** | **233,166** | **527,458** | **40.2** | **34.2** | **39.8** | **44.9** | **1,567,093** | **59.8** |
| Kentucky | 335,350 | 90,425 | 74,854 | 170,071 | 48.0 | 37.9 | 41.6 | 60.7 | 363,188 | 52.0 |
| Tennessee | 315,182 | 92,385 | 69,529 | 153,268 | 44.1 | 33.5 | 45.7 | 53.5 | 399,712 | 55.9 |
| Alabama | 226,460 | 70,224 | 51,943 | 104,293 | 33.6 | 30.9 | 33.0 | 36.1 | 447,355 | 66.4 |
| Mississippi | 178,118 | 41,452 | 36,840 | 99,826 | 33.3 | 34.4 | 38.4 | 31.3 | 356,838 | 66.7 |
| **West South Central** | **1,394,207** | **566,835** | **356,475** | **470,897** | **41.3** | **39.3** | **47.7** | **39.7** | **1,983,023** | **58.7** |
| Arkansas | 196,916 | 47,397 | 47,185 | 102,334 | 39.7 | 38.4 | 42.3 | 39.3 | 298,909 | 60.3 |
| Louisiana | 218,447 | 83,491 | 65,967 | 68,989 | 36.9 | 31.8 | 48.3 | 35.7 | 374,081 | 63.1 |
| Oklahoma | 261,162 | 109,403 | 65,746 | 86,013 | 42.8 | 42.9 | 47.1 | 39.8 | 349,319 | 57.2 |
| Texas | 717,682 | 326,544 | 177,577 | 213,561 | 42.8 | 40.7 | 49.4 | 41.4 | 960,714 | 57.2 |
| **Mountain** | **582,978** | **233,574** | **179,270** | **170,134** | **52.0** | **46.0** | **52.2** | **63.2** | **537,472** | **48.0** |
| Montana | 83,126 | 27,627 | 26,652 | 28,847 | 52.0 | 43.1 | 53.6 | 62.6 | 76,837 | 48.0 |
| Idaho | 82,078 | 27,059 | 22,577 | 32,442 | 57.9 | 53.3 | 54.8 | 65.3 | 59,649 | 42.1 |
| Wyoming | 33,749 | 12,645 | 9,768 | 11,336 | 48.6 | 46.3 | 42.8 | 59.0 | 35,625 | 51.4 |
| Colorado | 146,455 | 75,062 | 38,902 | 32,491 | 46.3 | 43.0 | 49.9 | 51.3 | 169,545 | 53.7 |
| New Mexico | 74,150 | 21,851 | 23,824 | 28,475 | 57.3 | 46.8 | 55.3 | 71.8 | 55,325 | 42.7 |
| Arizona | 62,842 | 19,191 | 26,867 | 16,784 | 47.9 | 39.2 | 48.1 | 63.6 | 68,291 | 52.1 |
| Utah | 85,225 | 44,568 | 23,766 | 16,891 | 61.1 | 54.5 | 64.0 | 81.9 | 54,262 | 38.9 |
| Nevada | 15,353 | 5,571 | 6,914 | 2,868 | 46.1 | 41.9 | 43.8 | 68.1 | 17,938 | 53.9 |
| **Pacific** | **1,422,014** | **865,873** | **337,959** | **218,182** | **47.2** | **42.4** | **53.8** | **63.9** | **1,591,158** | **52.8** |
| Washington | 306,174 | 152,059 | 85,973 | 68,142 | 57.0 | 50.3 | 60.7 | 72.9 | 231,163 | 43.0 |
| Oregon | 187,044 | 84,211 | 51,564 | 51,269 | 55.4 | 48.8 | 55.6 | 70.9 | 150,448 | 44.6 |
| California | 928,796 | 629,603 | 200,422 | 98,771 | 43.4 | 40.1 | 50.9 | 56.2 | 1,209,547 | 56.6 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 908.—Dwelling Units, Urban and Rural-Nonfarm—Occupancy and Tenure, by Contract or Estimated Monthly Rent: 1940

[Monthly rental data include contract rent of tenant-occupied units and estimated rental value of owner-occupied and vacant units]

| Area and contract or estimated monthly rent | Number | | | | Percent distribution | | | |
|---|---|---|---|---|---|---|---|---|
| | All dwelling units[1] | Owner occupied | Tenant occupied | Vacant, for sale or rent | All dwelling units | Owner occupied | Tenant occupied | Vacant, for sale or rent |
| **URBAN AND RURAL-NONFARM** | | | | | | | | |
| **Total** | **29,683,189** | **11,413,036** | **16,334,937** | **1,428,973** | | | | |
| **Reporting monthly rent** | **29,129,996** | **11,129,428** | **16,177,770** | **1,350,647** | **100.0** | **100.0** | **100.0** | **100.0** |
| Monthly rental under $5 | 1,589,581 | 620,059 | 885,741 | 65,247 | 5.5 | 5.6 | 5.5 | 4.8 |
| $5 to $9 | 3,035,678 | 922,485 | 1,936,661 | 130,349 | 10.4 | 8.3 | 12.0 | 9.7 |
| $10 to $14 | 3,568,828 | 1,052,797 | 2,279,797 | 172,217 | 12.3 | 9.5 | 14.1 | 12.8 |
| $15 to $19 | 3,506,089 | 1,075,771 | 2,217,466 | 157,621 | 12.0 | 9.7 | 13.7 | 11.7 |
| $20 to $24 | 3,385,357 | 1,170,129 | 2,013,190 | 147,194 | 11.6 | 10.5 | 12.4 | 10.9 |
| $25 to $29 | 3,245,638 | 1,224,290 | 1,839,540 | 134,101 | 11.1 | 11.0 | 11.4 | 9.9 |
| $30 to $39 | 4,686,646 | 1,919,155 | 2,526,102 | 187,746 | 16.1 | 17.2 | 15.6 | 13.9 |
| $40 to $49 | 2,671,603 | 1,218,572 | 1,300,080 | 121,083 | 9.2 | 10.9 | 8.0 | 9.0 |
| $50 to $59 | 1,408,799 | 739,763 | 570,410 | 73,433 | 4.8 | 6.6 | 3.5 | 5.4 |
| $60 to $74 | 936,582 | 533,483 | 326,662 | 57,395 | 3.2 | 4.8 | 2.0 | 4.2 |
| $75 to $99 | 553,949 | 328,242 | 164,301 | 42,690 | 1.9 | 2.9 | 1.0 | 3.2 |
| $100 and over | 541,246 | 324,682 | 117,820 | 61,571 | 1.9 | 2.9 | .7 | 4.6 |
| Not reporting | 553,193 | 283,608 | 157,167 | 78,326 | | | | |
| **URBAN** | | | | | | | | |
| **Total** | **21,616,352** | **7,714,960** | **12,881,540** | **918,297** | | | | |
| **Reporting monthly rent** | **21,239,794** | **7,488,676** | **12,790,473** | **867,613** | **100.0** | **100.0** | **100.0** | **100.0** |
| Monthly rental under $5 | 406,019 | 145,798 | 247,500 | 11,328 | 1.9 | 1.9 | 1.9 | 1.3 |
| $5 to $9 | 1,321,672 | 307,415 | 963,181 | 47,078 | 6.2 | 4.1 | 7.5 | 5.4 |
| $10 to $14 | 2,155,095 | 474,361 | 1,576,886 | 96,111 | 10.1 | 6.3 | 12.3 | 11.1 |
| $15 to $19 | 2,542,789 | 628,595 | 1,799,984 | 105,261 | 12.0 | 8.4 | 14.1 | 12.1 |
| $20 to $24 | 2,685,580 | 796,301 | 1,774,408 | 105,116 | 12.6 | 10.6 | 13.9 | 12.1 |
| $25 to $29 | 2,685,526 | 912,352 | 1,663,812 | 98,878 | 12.6 | 12.2 | 13.0 | 11.4 |
| $30 to $39 | 4,098,805 | 1,549,526 | 2,384,318 | 149,860 | 19.3 | 20.7 | 18.6 | 17.3 |
| $40 to $49 | 2,394,205 | 1,034,677 | 1,252,784 | 96,972 | 11.3 | 13.8 | 9.8 | 11.2 |
| $50 to $59 | 1,237,615 | 627,968 | 546,414 | 55,918 | 5.8 | 8.4 | 4.3 | 6.4 |
| $60 to $74 | 819,970 | 460,286 | 313,445 | 40,854 | 3.9 | 6.1 | 2.5 | 4.7 |
| $75 to $99 | 470,016 | 282,354 | 155,877 | 27,044 | 2.2 | 3.8 | 1.2 | 3.1 |
| $100 and over | 422,502 | 269,043 | 111,864 | 33,193 | 2.0 | 3.6 | .9 | 3.8 |
| Not reporting | 376,558 | 226,284 | 91,067 | 50,684 | | | | |
| **RURAL-NONFARM** | | | | | | | | |
| **Total** | **8,066,837** | **3,698,076** | **3,453,397** | **510,676** | | | | |
| **Reporting monthly rent** | **7,890,202** | **3,640,752** | **3,387,297** | **483,034** | **100.0** | **100.0** | **100.0** | **100.0** |
| Monthly rental under $5 | 1,183,562 | 474,261 | 638,241 | 53,919 | 15.0 | 13.0 | 18.8 | 11.2 |
| $5 to $9 | 1,714,006 | 615,070 | 973,480 | 83,271 | 21.7 | 16.9 | 28.7 | 17.2 |
| $10 to $14 | 1,413,733 | 578,436 | 702,911 | 76,106 | 17.9 | 15.9 | 20.8 | 15.8 |
| $15 to $19 | 963,300 | 447,176 | 417,482 | 52,360 | 12.2 | 12.3 | 12.3 | 10.8 |
| $20 to $24 | 699,777 | 373,828 | 238,782 | 42,078 | 8.9 | 10.3 | 7.0 | 8.7 |
| $25 to $29 | 560,112 | 311,938 | 175,728 | 35,223 | 7.1 | 8.6 | 5.2 | 7.3 |
| $30 to $39 | 587,841 | 369,629 | 141,784 | 37,886 | 7.5 | 10.2 | 4.2 | 7.8 |
| $40 to $49 | 277,398 | 183,895 | 47,296 | 24,111 | 3.5 | 5.1 | 1.4 | 5.0 |
| $50 to $59 | 171,184 | 111,795 | 23,996 | 17,515 | 2.2 | 3.1 | .7 | 3.6 |
| $60 to $74 | 116,612 | 73,197 | 13,217 | 16,541 | 1.5 | 2.0 | .4 | 3.4 |
| $75 to $99 | 83,933 | 45,888 | 8,424 | 15,646 | 1.1 | 1.3 | .2 | 3.2 |
| $100 and over | 118,744 | 55,639 | 5,956 | 28,378 | 1.5 | 1.5 | .2 | 5.9 |
| Not reporting | 176,635 | 57,324 | 66,100 | 27,642 | | | | |

[1] Figures include vacant units that were not for sale or rent, not shown separately.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 909.—Dwelling Units, Urban and Rural-Nonfarm—Value or Monthly Rental: 1930 and 1940

| Year and value or monthly rent | Number | | | Percent distribution | | |
|---|---|---|---|---|---|---|
| | Urban and rural-nonfarm | Urban | Rural-nonfarm | Urban and rural-nonfarm | Urban | Rural-nonfarm |
| **1930** [1] | | | | | | |
| **Owned homes** | **10,549,972** | **7,432,554** | **3,117,418** | | | |
| Reporting value | 10,294,068 | 7,285,911 | 3,008,157 | 100.0 | 100.0 | 100.0 |
| Value under $1,000 | 794,724 | 231,285 | 563,439 | 7.7 | 3.2 | 18.7 |
| $1,000 to $1,499 | 570,047 | 232,448 | 337,599 | 5.5 | 3.2 | 11.2 |
| $1,500 to $1,999 | 531,277 | 257,130 | 274,147 | 5.2 | 3.5 | 9.1 |
| $2,000 to $2,999 | 1,167,325 | 669,458 | 497,867 | 11.3 | 9.2 | 16.6 |
| $3,000 to $4,999 | 2,343,769 | 1,688,542 | 655,227 | 22.8 | 23.2 | 21.8 |
| $5,000 to $7,499 | 2,297,029 | 1,898,247 | 398,782 | 22.3 | 26.1 | 13.3 |
| $7,500 to $9,999 | 989,468 | 879,361 | 110,107 | 9.6 | 12.1 | 3.7 |
| $10,000 to $14,999 | 906,557 | 810,623 | 95,934 | 8.8 | 11.1 | 3.2 |
| $15,000 to $19,999 | 339,535 | 306,953 | 32,582 | 3.3 | 4.2 | 1.1 |
| $20,000 and over | 354,337 | 311,864 | 42,473 | 3.4 | 4.3 | 1.4 |
| Not reporting value | 255,904 | 146,643 | 109,261 | | | |
| **Rented homes** | **12,367,100** | **9,681,359** | **2,685,741** | | | |
| Reporting rent | 12,035,720 | 9,487,648 | 2,548,072 | 100.0 | 100.0 | 100.0 |
| Rental under $10 | 1,563,952 | 510,114 | 1,053,838 | 13.0 | 5.4 | 41.4 |
| $10 to $14 | 1,330,927 | 782,005 | 548,922 | 11.1 | 8.2 | 21.5 |
| $15 to $19 | 1,302,387 | 962,787 | 339,600 | 10.8 | 10.1 | 13.3 |
| $20 to $29 | 2,545,208 | 2,178,212 | 366,996 | 21.1 | 23.0 | 14.4 |
| $30 to $49 | 3,191,435 | 3,009,786 | 181,649 | 26.5 | 31.7 | 7.1 |
| $50 to $74 | 1,503,401 | 1,464,279 | 39,122 | 12.5 | 15.4 | 1.5 |
| $75 to $99 | 343,071 | 334,308 | 8,763 | 2.9 | 3.5 | .3 |
| $100 to $149 | 163,292 | 157,436 | 5,856 | 1.4 | 1.7 | .2 |
| $150 to $199 | 46,297 | 44,613 | 1,684 | .4 | .5 | .1 |
| $200 and over | 45,750 | 44,108 | 1,642 | .4 | .5 | .1 |
| Not reporting rent | 331,380 | 193,711 | 137,669 | | | |
| **1940** | | | | | | |
| **Owner-occupied units** | **11,413,036** | **7,714,960** | **3,698,076** | | | |
| Reporting value | 11,021,712 | 7,399,787 | 3,621,925 | 100.0 | 100.0 | 100.0 |
| Value under $1,000 | 1,769,679 | 588,511 | 1,181,168 | 16.1 | 8.0 | 32.6 |
| $1,000 to $1,499 | 982,752 | 507,715 | 475,037 | 8.9 | 6.9 | 13.1 |
| $1,500 to $1,999 | 951,194 | 590,975 | 360,219 | 8.6 | 8.0 | 9.9 |
| $2,000 to $2,999 | 1,920,038 | 1,353,741 | 566,297 | 17.4 | 18.3 | 15.6 |
| $3,000 to $4,999 | 2,851,852 | 2,240,533 | 611,319 | 25.9 | 30.3 | 16.9 |
| $5,000 to $7,499 | 1,601,543 | 1,325,322 | 276,221 | 14.5 | 17.9 | 7.6 |
| $7,500 to $9,999 | 449,060 | 381,284 | 67,776 | 4.1 | 5.2 | 1.9 |
| $10,000 to $14,999 | 302,194 | 253,020 | 49,174 | 2.7 | 3.4 | 1.4 |
| $15,000 to $19,999 | 99,147 | 82,693 | 16,454 | .9 | 1.1 | .5 |
| $20,000 and over | 94,253 | 75,993 | 18,260 | .9 | 1.0 | .5 |
| Not reporting value | 391,324 | 315,173 | 76,151 | | | |
| **Tenant-occupied units** | **16,334,937** | **12,881,540** | **3,453,397** | | | |
| Reporting rent | 16,177,770 | 12,790,473 | 3,387,297 | 100.0 | 100.0 | 100.0 |
| Rental under $10 | 2,822,402 | 1,210,681 | 1,611,721 | 17.4 | 9.5 | 47.6 |
| $10 to $14 | 2,279,797 | 1,576,886 | 702,911 | 14.1 | 12.3 | 20.8 |
| $15 to $19 | 2,217,466 | 1,799,984 | 417,482 | 13.7 | 14.1 | 12.3 |
| $20 to $29 | 3,852,730 | 3,438,220 | 414,510 | 23.8 | 26.9 | 12.2 |
| $30 to $49 | 3,826,182 | 3,637,102 | 189,080 | 23.7 | 28.4 | 5.6 |
| $50 to $74 | 897,072 | 859,859 | 37,213 | 5.5 | 6.7 | 1.1 |
| $75 to $99 | 164,301 | 155,877 | 8,424 | 1.0 | 1.2 | .2 |
| $100 to $149 | 79,191 | 74,817 | 4,374 | .5 | .6 | .1 |
| $150 to $199 | 20,911 | 19,942 | 969 | .1 | .2 | |
| $200 and over | 17,718 | 17,105 | 613 | .1 | .1 | |
| Not reporting rent | 157,167 | 91,067 | 66,100 | | | |
| *Median value of owned homes* [2] | | | | | | |
| 1930 | $4,778 | $5,743 | $2,661 | | | |
| 1940 | 2,938 | 3,501 | 1,715 | | | |
| *Median rent of rented homes* [2] | | | | | | |
| 1930 | $27.15 | $32.06 | $12.01 | | | |
| 1940 | 21.41 | 24.60 | 10.08 | | | |

[1] Includes only private families that reported tenure.
[2] For definition of median, see headnote, table 910.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 910.—Dwelling Units, Urban and Rural-Nonfarm—Median Contract or Estimated Monthly Rent and Median Value, by Tenure: 1940

[Monthly rental data include contract rent of tenant-occupied units and estimated rent of owner-occupied and vacant units. Figures for "All dwelling units" include vacant units. Median defined: That item which is in the middle of a series arranged according to size. Thus, the median rent is the rent which divides the total number of dwelling units into two equal groups, one having rents higher than the median and one having rents lower than the median]

| Division and state | Median contract or estimated monthly rent (dollars) | | | | | | | | | Median value of owner-occupied units (dollars) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Urban and rural-nonfarm | | | Urban | | | Rural-nonfarm | | | | | |
| | All dwelling units | Owner occupied | Tenant occupied | All dwelling units | Owner occupied | Tenant occupied | All dwelling units | Owner occupied | Tenant occupied | Urban and rural-nonfarm | Urban | Rural-nonfarm |
| **United States** | **23.73** | **27.45** | **21.41** | **27.31** | **32.59** | **24.60** | **13.20** | **16.21** | **10.08** | **2,938** | **3,501** | **1,715** |
| **New England** | **26.19** | **32.87** | **23.19** | **27.14** | **35.88** | **23.98** | **22.09** | **24.15** | **16.83** | **3,652** | **3,944** | **2,747** |
| Maine | 18.87 | 19.14 | 17.41 | 22.84 | 27.01 | 20.94 | 14.94 | 14.24 | 12.55 | 2,008 | 2,873 | 1,483 |
| N. H. | 19.97 | 23.13 | 17.53 | 21.83 | 27.63 | 18.90 | 17.10 | 17.24 | 13.54 | 2,505 | 3,048 | 1,893 |
| Vermont | 19.02 | 24.37 | 16.25 | 24.43 | 34.69 | 20.18 | 14.46 | 17.62 | 11.97 | 2,836 | 4,141 | 2,057 |
| Mass. | 28.00 | 35.63 | 24.69 | 28.33 | 37.07 | 25.13 | 25.04 | 26.96 | 18.40 | 3,837 | 3,981 | 2,997 |
| Rhode Island | 23.29 | 33.05 | 20.17 | 23.47 | 34.02 | 20.43 | 21.01 | 25.54 | 15.59 | 3,848 | 3,941 | 3,045 |
| Connecticut | 28.91 | 38.84 | 25.00 | 28.34 | 38.80 | 25.36 | 31.10 | 38.91 | 23.41 | 4,615 | 4,575 | 4,682 |
| **Middle Atlantic** | **30.39** | **34.85** | **28.59** | **32.62** | **38.38** | **30.32** | **20.07** | **24.22** | **14.99** | **3,840** | **4,210** | **2,824** |
| New York | 34.51 | 39.48 | 33.39 | 35.76 | 43.31 | 34.22 | 24.89 | 28.23 | 19.62 | 4,389 | 4,730 | 3,352 |
| New Jersey | 31.73 | 40.53 | 27.95 | 33.01 | 43.76 | 28.75 | 26.78 | 31.32 | 21.05 | 4,528 | 4,848 | 3,599 |
| Pa. | 24.21 | 28.81 | 21.30 | 26.92 | 32.73 | 23.73 | 14.99 | 19.37 | 12.43 | 3,205 | 3,562 | 2,221 |
| **E. N. Central** | **25.79** | **28.41** | **23.70** | **28.63** | **32.75** | **25.98** | **14.65** | **16.44** | **11.67** | **3,096** | **3,572** | **1,803** |
| Ohio | 25.03 | 29.79 | 21.59 | 27.34 | 33.70 | 23.41 | 14.74 | 17.73 | 11.96 | 3,415 | 3,816 | 2,024 |
| Indiana | 19.60 | 22.79 | 17.38 | 23.10 | 27.40 | 19.81 | 12.09 | 13.40 | 9.78 | 2,406 | 2,937 | 1,434 |
| Illinois | 27.70 | 29.61 | 26.58 | 30.74 | 34.02 | 28.73 | 13.61 | 15.56 | 11.18 | 3,277 | 3,766 | 1,715 |
| Michigan | 27.44 | 28.31 | 26.64 | 30.42 | 32.58 | 28.72 | 16.87 | 16.94 | 13.12 | 2,863 | 3,310 | 1,749 |
| Wisconsin | 26.30 | 28.93 | 23.89 | 29.22 | 33.35 | 26.56 | 17.17 | 18.62 | 12.54 | 3,232 | 3,701 | 2,136 |
| **W. N. Central** | **18.87** | **22.00** | **17.01** | **23.41** | **27.83** | **20.50** | **11.65** | **13.38** | **9.77** | **2,312** | **2,930** | **1,417** |
| Minnesota | 24.87 | 28.37 | 21.68 | 28.72 | 33.45 | 24.89 | 15.41 | 17.33 | 12.40 | 3,024 | 3,511 | 1,876 |
| Iowa | 18.87 | 21.09 | 16.94 | 23.48 | 26.44 | 20.74 | 12.44 | 13.83 | 10.87 | 2,253 | 2,769 | 1,479 |
| Missouri | 18.51 | 22.62 | 16.77 | 21.86 | 27.81 | 19.16 | 10.04 | 12.55 | 7.81 | 2,392 | 3,005 | 1,316 |
| N. Dakota | 15.36 | 16.07 | 15.07 | 27.45 | 32.74 | 25.12 | 10.78 | 11.78 | 10.11 | 1,626 | 3,319 | 1,185 |
| S. Dakota | 14.36 | 15.88 | 13.84 | 22.33 | 25.48 | 20.71 | 10.17 | 11.42 | 9.37 | 1,618 | 2,571 | 1,139 |
| Nebraska | 17.57 | 20.00 | 15.92 | 23.36 | 26.73 | 20.92 | 10.74 | 12.45 | 9.46 | 2,156 | 2,793 | 1,375 |
| Kansas | 14.91 | 16.94 | 13.69 | 18.24 | 20.98 | 16.56 | 10.10 | 11.88 | 8.73 | 1,733 | 2,111 | 1,247 |
| **South Atlantic** | **16.05** | **24.31** | **12.49** | **22.20** | **32.14** | **17.20** | **9.22** | **14.40** | **6.47** | **2,513** | **3,380** | **1,542** |
| Delaware | 28.26 | 37.81 | 22.58 | 31.39 | 43.03 | 25.28 | 22.09 | 30.04 | 15.30 | 4,150 | 4,743 | 3,381 |
| Maryland | 25.60 | 31.65 | 21.66 | 26.82 | 33.12 | 23.12 | 21.28 | 27.35 | 14.11 | 3,031 | 3,050 | 2,984 |
| Dist. of Col. | 47.53 | 64.80 | 41.42 | 47.53 | 64.80 | 41.42 | | | | 7,568 | 7,568 | |
| Virginia | 16.45 | 23.98 | 13.27 | 21.58 | 32.95 | 17.04 | 10.50 | 15.53 | 7.21 | 2,633 | 3,629 | 1,769 |
| W. Virginia | 13.97 | 21.12 | 12.08 | 23.34 | 30.38 | 19.80 | 9.73 | 13.59 | 8.76 | 2,350 | 3,579 | 1,460 |
| N. Carolina | 11.66 | 17.37 | 9.42 | 15.01 | 26.77 | 12.45 | 7.78 | 12.02 | 5.89 | 1,802 | 2,827 | 1,249 |
| S. Carolina | 8.50 | 19.97 | 6.48 | 12.24 | 29.47 | 9.05 | 6.05 | 12.82 | 5.25 | 2,145 | 3,368 | 1,346 |
| Georgia | 10.10 | 19.27 | 8.15 | 12.71 | 25.36 | 10.29 | 6.11 | 12.66 | 5.00 | 1,957 | 2,560 | 1,314 |
| Florida | 16.95 | 21.51 | 12.92 | 21.86 | 27.63 | 16.52 | 8.33 | 11.88 | 5.75 | 2,218 | 2,966 | 1,158 |
| **E. S. Central** | **11.07** | **17.25** | **8.98** | **14.68** | **24.06** | **12.12** | **6.18** | **9.92** | **5.42** | **1,752** | **2,482** | **981** |
| Kentucky | 13.29 | 19.81 | 11.23 | 18.38 | 26.96 | 15.10 | 7.41 | 10.58 | 6.48 | 2,074 | 2,907 | 1,068 |
| Tennessee | 12.38 | 17.80 | 10.49 | 14.95 | 23.76 | 12.68 | 6.72 | 10.89 | 5.54 | 1,826 | 2,436 | 1,121 |
| Alabama | 8.80 | 15.76 | 7.26 | 12.42 | 22.45 | 9.73 | 5.45 | 8.98 | 4.73 | 1,610 | 2,341 | 909 |
| Mississippi | 7.78 | 13.17 | 6.24 | 11.01 | 20.07 | 8.57 | 5.28 | 8.04 | 4.54 | 1,189 | 1,875 | 689 |
| **W. S. Central** | **13.43** | **16.06** | **12.15** | **17.67** | **22.66** | **15.34** | **6.36** | **8.09** | **5.84** | **1,489** | **2,216** | **682** |
| Arkansas | 8.04 | 11.22 | 6.47 | 13.59 | 19.07 | 11.07 | 4.95 | 5.82 | 4.44 | 1,100 | 1,960 | 585 |
| Louisiana | 12.43 | 14.83 | 11.54 | 15.93 | 22.91 | 13.90 | 5.67 | 6.44 | 5.13 | 1,414 | 2,314 | 643 |
| Oklahoma | 13.16 | 14.03 | 12.59 | 18.12 | 21.34 | 16.62 | 5.97 | 5.94 | 5.95 | 1,293 | 2,088 | 526 |
| Texas | 14.99 | 18.16 | 13.40 | 18.80 | 23.58 | 16.37 | 8.60 | 10.71 | 6.73 | 1,693 | 2,273 | 889 |
| **Mountain** | **17.65** | **19.45** | **16.92** | **23.14** | **26.53** | **21.01** | **11.57** | **11.56** | **11.51** | **1,802** | **2,644** | **897** |
| Montana | 17.66 | 18.74 | 17.72 | 23.86 | 26.78 | 22.40 | 11.89 | 12.14 | 11.97 | 1,651 | 2,567 | 937 |
| Idaho | 16.10 | 17.25 | 15.33 | 21.33 | 23.60 | 19.59 | 11.59 | 11.75 | 11.26 | 1,600 | 2,363 | 933 |
| Wyoming | 18.56 | 22.87 | 16.94 | 25.05 | 30.19 | 22.37 | 12.66 | 14.15 | 12.28 | 2,174 | 3,119 | 1,160 |
| Colorado | 19.26 | 22.00 | 18.06 | 23.42 | 27.20 | 21.26 | 12.18 | 12.61 | 11.22 | 2,091 | 2,715 | 997 |
| New Mexico | 11.49 | 9.62 | 12.99 | 19.17 | 20.19 | 18.50 | 6.18 | 4.73 | 8.14 | 656 | 1,715 | 362 |
| Arizona | 15.26 | 17.06 | 14.57 | 20.89 | 26.57 | 18.13 | 11.89 | 11.78 | 12.17 | 1,400 | 2,488 | 812 |
| Utah | 20.10 | 22.43 | 18.17 | 24.17 | 27.22 | 21.15 | 12.46 | 13.60 | 11.29 | 2,320 | 2,861 | 1,373 |
| Nevada | 20.82 | 24.26 | 19.84 | 31.68 | 37.71 | 28.79 | 14.41 | 14.30 | 14.69 | 1,987 | 3,838 | 963 |
| **Pacific** | **25.97** | **29.53** | **23.85** | **28.39** | **33.47** | **25.84** | **17.40** | **19.90** | **15.19** | **3,156** | **3,554** | **2,008** |
| Washington | 19.43 | 22.60 | 17.47 | 22.80 | 26.18 | 19.72 | 13.75 | 15.89 | 11.98 | 2,359 | 2,743 | 1,624 |
| Oregon | 18.77 | 21.95 | 16.94 | 22.74 | 26.42 | 19.58 | 12.81 | 14.41 | 11.47 | 2,343 | 2,860 | 1,434 |
| California | 28.01 | 33.26 | 25.61 | 29.96 | 36.20 | 27.04 | 20.08 | 23.52 | 17.44 | 3,527 | 3,840 | 2,388 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 911.—Dwelling Units, Urban and Rural-Nonfarm—Contract or Estimated Monthly Rent, by States: 1940

[Monthly rental data include contract rent of tenant-occupied units and estimated rent of owner-occupied and vacant units]

| Division and State | All dwelling units [1] | Under $10 | $10 to $14 | $15 to $19 | $20 to $29 | $30 to $49 | $50 to $74 | $75 to $99 | $100 and over |
|---|---|---|---|---|---|---|---|---|---|
| **United States** | 29,683,189 | 4,625,259 | 3,568,828 | 3,506,089 | 6,630,995 | 7,358,249 | 2,345,381 | 553,949 | 541,246 |
| **New England** | 2,289,153 | 108,765 | 241,664 | 310,832 | 640,023 | 603,314 | 194,731 | 53,485 | 63,598 |
| Maine | 215,211 | 38,155 | 36,325 | 33,097 | 49,163 | 32,384 | 10,444 | 2,744 | 4,454 |
| New Hampshire | 138,809 | 14,634 | 24,785 | 25,187 | 35,095 | 23,252 | 5,940 | 1,497 | 2,639 |
| Vermont | 77,782 | 11,758 | 14,401 | 12,830 | 16,892 | 12,522 | 4,244 | 1,090 | 1,753 |
| Massachusetts | 1,195,020 | 28,448 | 105,579 | 148,348 | 344,206 | 357,030 | 111,225 | 30,080 | 32,562 |
| Rhode Island | 200,550 | 6,440 | 27,345 | 36,201 | 60,381 | 43,844 | 13,860 | 3,364 | 4,011 |
| Connecticut | 461,781 | 9,330 | 33,229 | 55,169 | 134,286 | 134,282 | 49,018 | 14,710 | 18,179 |
| **Middle Atlantic** | 7,412,730 | 326,222 | 583,413 | 791,780 | 1,794,980 | 2,406,302 | 897,326 | 223,171 | 231,305 |
| New York | 3,827,054 | 85,989 | 207,314 | 329,052 | 828,834 | 1,431,591 | 567,066 | 143,436 | 148,465 |
| New Jersey | 1,187,861 | 30,066 | 73,817 | 124,211 | 296,757 | 387,900 | 155,903 | 40,355 | 45,271 |
| Pennsylvania | 2,397,815 | 210,167 | 302,282 | 338,517 | 669,389 | 586,811 | 174,357 | 39,380 | 37,569 |
| **East North Central** | 6,465,379 | 667,322 | 749,487 | 795,308 | 1,553,771 | 1,886,729 | 519,744 | 110,385 | 91,986 |
| Ohio | 1,696,738 | 164,833 | 204,397 | 224,390 | 440,348 | 461,755 | 124,951 | 28,710 | 23,853 |
| Indiana | 783,485 | 141,281 | 129,742 | 112,595 | 178,060 | 159,766 | 37,218 | 7,449 | 4,969 |
| Illinois | 2,021,068 | 188,582 | 220,757 | 231,432 | 433,651 | 643,021 | 205,139 | 39,764 | 34,309 |
| Michigan | 1,281,453 | 111,324 | 122,868 | 142,918 | 324,567 | 416,785 | 102,937 | 22,828 | 19,187 |
| Wisconsin | 682,635 | 61,302 | 71,723 | 83,973 | 177,145 | 205,402 | 49,499 | 11,634 | 9,668 |
| **West North Central** | 2,674,403 | 540,245 | 446,453 | 375,434 | 577,569 | 517,445 | 127,907 | 24,875 | 19,287 |
| Minnesota | 554,462 | 54,248 | 70,641 | 76,640 | 131,816 | 158,986 | 40,359 | 7,260 | 5,252 |
| Iowa | 489,913 | 89,880 | 86,487 | 72,931 | 115,042 | 90,995 | 19,999 | 2,918 | 1,826 |
| Missouri | 828,652 | 181,554 | 137,850 | 110,229 | 171,410 | 151,078 | 43,433 | 10,813 | 9,465 |
| North Dakota | 84,181 | 23,532 | 15,810 | 10,501 | 14,138 | 14,166 | 3,475 | 434 | 222 |
| South Dakota | 98,368 | 29,405 | 19,164 | 13,473 | 18,096 | 13,271 | 2,178 | 302 | 185 |
| Nebraska | 247,873 | 54,990 | 45,046 | 36,128 | 54,307 | 41,933 | 9,134 | 1,655 | 1,201 |
| Kansas | 370,954 | 106,636 | 71,455 | 55,532 | 72,760 | 47,016 | 9,329 | 1,493 | 1,136 |
| **South Atlantic** | 3,190,143 | 993,695 | 474,719 | 317,686 | 501,054 | 509,449 | 220,120 | 59,730 | 57,021 |
| Delaware | 63,210 | 6,686 | 6,188 | 6,710 | 12,982 | 17,659 | 7,818 | 1,679 | 2,262 |
| Maryland | 440,977 | 47,019 | 50,000 | 50,037 | 110,368 | 114,315 | 38,577 | 11,448 | 10,523 |
| District of Columbia | 185,128 | 1,115 | 4,203 | 6,301 | 19,849 | 66,603 | 54,480 | 16,493 | 13,409 |
| Virginia | 436,947 | 124,663 | 72,167 | 47,481 | 67,420 | 72,162 | 32,889 | 8,086 | 5,796 |
| West Virginia | 343,812 | 107,914 | 67,275 | 42,999 | 55,943 | 42,268 | 13,765 | 3,239 | 2,724 |
| North Carolina | 473,741 | 194,136 | 89,806 | 47,335 | 59,295 | 49,369 | 17,505 | 4,420 | 3,978 |
| South Carolina | 258,925 | 138,042 | 36,528 | 19,198 | 26,923 | 22,890 | 7,639 | 1,950 | 2,786 |
| Georgia | 475,696 | 225,291 | 74,206 | 43,300 | 55,987 | 46,453 | 15,638 | 4,179 | 3,480 |
| Florida | 511,707 | 148,829 | 74,346 | 54,325 | 92,287 | 77,730 | 31,809 | 8,236 | 12,063 |
| **East South Central** | 1,496,320 | 659,733 | 240,852 | 149,245 | 193,118 | 161,365 | 48,555 | 10,055 | 8,140 |
| Kentucky | 435,432 | 159,442 | 71,604 | 50,183 | 64,424 | 56,340 | 18,282 | 4,067 | 3,139 |
| Tennessee | 441,686 | 170,648 | 81,622 | 47,688 | 60,187 | 53,417 | 15,965 | 3,174 | 2,703 |
| Alabama | 396,968 | 207,721 | 59,615 | 34,362 | 43,725 | 32,494 | 9,086 | 1,925 | 1,578 |
| Mississippi | 222,234 | 121,922 | 28,011 | 17,012 | 24,782 | 19,114 | 5,222 | 889 | 720 |
| **West South Central** | 2,303,130 | 848,684 | 362,591 | 275,041 | 394,454 | 279,105 | 75,256 | 16,799 | 15,941 |
| Arkansas | 243,976 | 131,701 | 33,487 | 22,279 | 28,892 | 17,925 | 4,233 | 736 | 660 |
| Louisiana | 414,456 | 164,358 | 69,251 | 51,008 | 60,501 | 44,341 | 14,226 | 3,367 | 2,953 |
| Oklahoma | 415,477 | 153,332 | 67,922 | 51,471 | 70,429 | 46,349 | 11,763 | 2,475 | 2,491 |
| Texas | 1,229,221 | 399,293 | 191,931 | 150,283 | 234,632 | 170,490 | 45,034 | 10,221 | 9,837 |
| **Mountain** | 927,449 | 224,596 | 150,356 | 123,992 | 190,434 | 163,539 | 40,020 | 7,128 | 6,030 |
| Montana | 123,522 | 27,574 | 22,043 | 17,300 | 26,693 | 21,338 | 5,098 | 648 | 381 |
| Idaho | 98,909 | 25,461 | 18,159 | 13,969 | 20,101 | 15,118 | 2,699 | 359 | 316 |
| Wyoming | 54,389 | 11,477 | 9,472 | 7,212 | 11,971 | 10,636 | 2,422 | 267 | 142 |
| Colorado | 279,002 | 54,454 | 44,699 | 39,521 | 61,569 | 53,604 | 14,367 | 2,901 | 2,362 |
| New Mexico | 99,693 | 42,785 | 13,803 | 9,152 | 14,385 | 12,628 | 2,903 | 459 | 419 |
| Arizona | 114,916 | 35,758 | 18,410 | 14,025 | 20,708 | 16,949 | 4,581 | 941 | 1,210 |
| Utah | 125,025 | 20,756 | 19,221 | 19,081 | 29,166 | 26,557 | 5,546 | 964 | 569 |
| Nevada | 31,993 | 6,331 | 4,549 | 3,732 | 5,841 | 6,709 | 2,404 | 589 | 631 |
| **Pacific** | 2,924,482 | 255,997 | 319,293 | 366,771 | 785,592 | 831,001 | 221,722 | 48,321 | 47,938 |
| Washington | 487,910 | 78,352 | 82,274 | 79,710 | 116,586 | 95,343 | 19,606 | 3,522 | 3,064 |
| Oregon | 288,813 | 50,781 | 49,711 | 48,122 | 68,816 | 52,136 | 9,900 | 2,017 | 1,623 |
| California | 2,147,759 | 126,864 | 187,308 | 238,939 | 600,190 | 683,522 | 192,216 | 42,782 | 43,251 |

[1] Figures include dwelling units with rental unknown, not shown separately.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 912.—Dwelling Units, Urban and Rural—Characteristics of Occupied Units, 1947

[Based on Current Population Survey of April 1947. For discussion of this survey, see page 175]

| Subject | Number (thousands, except medians) | | | | Percent distribution | | | |
|---|---|---|---|---|---|---|---|---|
| | Total | Urban | Rural-nonfarm | Rural-farm | Total | Urban | Rural-nonfarm | Rural-farm |
| **All occupied dwelling units** | **39,016** | **23,835** | **8,519** | **6,662** | **100.0** | **100.0** | **100.0** | **100.0** |
| Owner | 21,347 | 11,547 | 5,478 | 4,322 | 54.7 | 48.4 | 64.3 | 64.9 |
| Tenant | 17,669 | 12,288 | 3,041 | 2,340 | 45.3 | 51.6 | 35.7 | 35.1 |
| White | 35,495 | 21,594 | 7,917 | 5,984 | 91.0 | 90.6 | 92.9 | 89.8 |
| Nonwhite | 3,521 | 2,241 | 602 | 678 | 9.0 | 9.4 | 7.1 | 10.2 |
| STATE OF REPAIR AND PLUMBING EQUIPMENT | | | | | | | | |
| With private bath and private flush toilet | 26,436 | 20,095 | 4,885 | 1,456 | 67.8 | 84.3 | 57.3 | 21.9 |
| With private flush toilet, no private bath | 1,522 | 1,137 | 287 | 98 | 3.9 | 4.8 | 3.4 | 1.5 |
| With running water, no private flush toilet | 3,432 | 1,589 | 1,038 | 805 | 8.8 | 6.7 | 12.2 | 12.1 |
| No running water in dwelling unit | 7,626 | 1,014 | 2,309 | 4,303 | 19.5 | 4.3 | 27.1 | 64.6 |
| **In good condition or need minor repairs** | **35,574** | **22,267** | **7,677** | **5,630** | **91.2** | **93.4** | **90.1** | **84.5** |
| With private bath and private flush toilet | 25,667 | 19,505 | 4,744 | 1,418 | 65.8 | 81.8 | 55.7 | 21.3 |
| With private flush toilet, no private bath | 1,262 | 912 | 260 | 90 | 3.2 | 3.8 | 3.1 | 1.4 |
| With running water, no private flush toilet | 2,863 | 1,224 | 927 | 712 | 7.3 | 5.1 | 10.9 | 10.7 |
| No running water in dwelling unit | 5,782 | 626 | 1,746 | 3,410 | 14.8 | 2.6 | 20.5 | 51.2 |
| **In need of major repairs** | **3,442** | **1,568** | **842** | **1,032** | **8.8** | **6.6** | **9.9** | **15.5** |
| With private bath and private flush toilet | 769 | 590 | 141 | 38 | 2.0 | 2.5 | 1.7 | .6 |
| With private flush toilet, no private bath | 260 | 225 | 27 | 8 | .7 | .9 | .3 | .1 |
| With running water, no private flush toilet | 569 | 365 | 111 | 93 | 1.5 | 1.5 | 1.3 | 1.4 |
| No running water in dwelling unit | 1,844 | 388 | 563 | 893 | 4.7 | 1.6 | 6.6 | 13.4 |
| DESIGNATED FACILITIES [1] | | | | | | | | |
| Having all designated facilities | 26,102 | 19,393 | 4,807 | 1,402 | 66.9 | 83.5 | 56.4 | 21.0 |
| Lacking one or more designated facilities | 12,914 | 3,942 | 3,712 | 5,260 | 33.1 | 16.5 | 43.6 | 79.0 |
| NUMBER OF ROOMS | | | | | | | | |
| 1 room | 707 | 470 | 162 | 75 | 1.8 | 2.0 | 1.9 | 1.1 |
| 2 rooms | 2,598 | 1,753 | 512 | 333 | 6.7 | 7.4 | 6.0 | 5.0 |
| 3 rooms | 5,265 | 3,370 | 1,116 | 779 | 13.5 | 14.1 | 13.1 | 11.7 |
| 4 rooms | 7,887 | 4,613 | 1,956 | 1,318 | 20.2 | 19.4 | 23.0 | 19.8 |
| 5 rooms | 8,601 | 5,470 | 1,934 | 1,197 | 22.0 | 22.9 | 22.7 | 18.0 |
| 6 rooms | 7,230 | 4,634 | 1,452 | 1,144 | 18.5 | 19.4 | 17.0 | 17.2 |
| 7 rooms | 3,349 | 1,862 | 712 | 775 | 8.6 | 7.8 | 8.4 | 11.6 |
| 8 or more rooms | 3,379 | 1,603 | 675 | 1,041 | 8.7 | 7.0 | 7.9 | 15.6 |
| Median number of rooms | 4.85 | 4.81 | 4.77 | 5.19 | | | | |
| SIZE OF HOUSEHOLD | | | | | | | | |
| 1 person | 2,864 | 1,983 | 621 | 260 | 7.3 | 8.3 | 7.3 | 3.9 |
| 2 persons | 10,596 | 6,627 | 2,383 | 1,586 | 27.2 | 27.8 | 28.0 | 23.8 |
| 3 persons | 8,954 | 5,659 | 1,890 | 1,405 | 22.9 | 23.7 | 22.2 | 21.1 |
| 4 persons | 7,359 | 4,466 | 1,633 | 1,260 | 18.9 | 18.7 | 19.2 | 18.9 |
| 5 persons | 4,344 | 2,544 | 964 | 836 | 11.1 | 10.7 | 11.3 | 12.5 |
| 6 persons | 2,273 | 1,246 | 464 | 563 | 5.8 | 5.2 | 5.4 | 8.5 |
| 7 persons | 1,140 | 607 | 247 | 286 | 2.9 | 2.5 | 2.9 | 4.3 |
| 8 or more persons | 1,486 | 703 | 317 | 466 | 3.8 | 2.9 | 3.7 | 7.0 |
| Median number of persons | 3.18 | 3.08 | 3.16 | 3.56 | | | | |
| PERSONS PER ROOM | | | | | | | | |
| 0.50 or less | 13,651 | 8,234 | 3,065 | 2,352 | 35.0 | 34.5 | 36.0 | 35.3 |
| 0.51 to 1.50 | 22,998 | 14,553 | 4,793 | 3,652 | 58.9 | 61.1 | 56.3 | 54.8 |
| 1.51 or more | 2,367 | 1,048 | 661 | 658 | 6.1 | 4.4 | 7.8 | 9.9 |
| CENTRAL HEATING | | | | | | | | |
| With central heating | 19,565 | 15,296 | 3,123 | 1,146 | 50.1 | 64.2 | 36.7 | 17.2 |
| Without central heating | 19,451 | 8,539 | 5,396 | 5,516 | 49.9 | 35.8 | 63.3 | 82.8 |
| ELECTRIC LIGHTING | | | | | | | | |
| With electric lighting | 35,414 | 23,414 | 7,785 | 4,215 | 90.8 | 98.2 | 91.4 | 63.3 |
| Without electric lighting | 3,602 | 421 | 734 | 2,447 | 9.2 | 1.8 | 8.6 | 36.7 |
| INSTALLED COOKING FACILITIES | | | | | | | | |
| With installed cooking facilities | 37,860 | 23,367 | 8,184 | 6,309 | 97.0 | 98.0 | 96.1 | 94.7 |
| Without installed cooking facilities | 1,156 | 468 | 335 | 353 | 3.0 | 2.0 | 3.9 | 5.3 |

[1] Electric lighting and running water; flush toilet, bathtub or shower; and installed cooking facilities for exclusive use of unit's occupants.

Source: Dept. of Commerce, Bureau of Census; Current Population Report, Housing, Series P-70 No. 1.

## No. 913.—Dwelling Units, Urban and Rural—Type of Structure, Number of Rooms, and Facilities: 1940

| Subject | Number: Total | Number: Urban | Number: Rural-nonfarm | Number: Rural-farm | Percent distribution: Total | Percent distribution: Urban | Percent distribution: Rural-nonfarm | Percent distribution: Rural-farm |
|---|---|---|---|---|---|---|---|---|
| **TYPE OF STRUCTURE** | | | | | | | | |
| **All dwelling units** | 37,325,470 | 21,616,352 | 8,066,837 | 7,642,281 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-family detached | 23,730,637 | 9,684,186 | 6,710,134 | 7,336,317 | 63.6 | 44.8 | 83.2 | 96.0 |
| 1-family attached | 1,178,318 | 974,546 | 141,981 | 61,791 | 3.2 | 4.5 | 1.8 | .8 |
| 2-family side-by-side | 1,656,858 | 1,215,558 | 355,024 | 86,276 | 4.4 | 5.6 | 4.4 | 1.1 |
| 2-family other | 3,464,282 | 3,011,204 | 352,114 | 100,964 | 9.3 | 13.9 | 4.4 | 1.3 |
| 3-family | 1,384,644 | 1,271,559 | 101,373 | 11,712 | 3.7 | 5.9 | 1.3 | .2 |
| 4-family | 874,732 | 824,024 | 47,544 | 3,164 | 2.3 | 3.8 | .6 | (1) |
| 1- to 4-family business | 940,726 | 713,048 | 212,227 | 15,451 | 2.5 | 3.3 | 2.6 | .2 |
| 5- to 9-family | 1,492,145 | 1,437,293 | 51,043 | 3,809 | 4.0 | 6.6 | .6 | (1) |
| 10- to 19-family | 854,266 | 836,946 | 15,614 | 1,706 | 2.3 | 3.9 | .2 | (1) |
| 20-family or more | 1,581,887 | 1,571,186 | 9,901 | 800 | 4.2 | 7.3 | .1 | (1) |
| Other dwelling place | 166,975 | 76,802 | 69,882 | 20,291 | .4 | .4 | .9 | .3 |
| **CONVERSION** | | | | | | | | |
| **Number reporting** | 36,610,744 | 21,176,969 | 7,916,203 | 7,517,572 | 100.0 | 100.0 | 100.0 | 100.0 |
| In nonconverted structures | 33,207,629 | 18,591,550 | 7,325,671 | 7,290,408 | 90.7 | 87.8 | 92.5 | 97.0 |
| In converted structures | 3,403,115 | 2,585,419 | 590,532 | 227,164 | 9.3 | 12.2 | 7.5 | 3.0 |
| Converted to different number of units | 2,940,377 | 2,352,425 | 410,885 | 177,067 | 8.0 | 11.1 | 5.2 | 2.4 |
| Converted from nonresidential | 462,738 | 232,994 | 179,647 | 50,097 | 1.3 | 1.1 | 2.3 | .7 |
| **YEAR BUILT** | | | | | | | | |
| **Number reporting** | 34,664,339 | 19,747,848 | 7,582,641 | 7,333,850 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1935 to 1940 | 3,190,264 | 1,215,295 | 1,256,282 | 718,687 | 9.2 | 6.2 | 16.6 | 9.8 |
| 1930 to 1934 | 2,337,832 | 977,927 | 788,711 | 571,194 | 6.7 | 5.0 | 10.4 | 7.8 |
| 1925 to 1929 | 4,554,531 | 3,032,741 | 954,618 | 567,172 | 13.1 | 15.4 | 12.6 | 7.7 |
| 1920 to 1924 | 3,960,733 | 2,455,596 | 809,960 | 695,177 | 11.4 | 12.4 | 10.7 | 9.5 |
| 1910 to 1919 | 6,445,480 | 3,784,521 | 1,224,220 | 1,436,739 | 18.6 | 19.2 | 16.1 | 19.6 |
| 1900 to 1909 | 6,116,557 | 3,731,590 | 1,064,594 | 1,320,373 | 17.6 | 18.9 | 14.0 | 18.0 |
| 1890 to 1899 | 3,563,847 | 2,221,775 | 581,755 | 760,317 | 10.3 | 11.3 | 7.7 | 10.4 |
| 1880 to 1889 | 1,952,257 | 1,149,558 | 341,977 | 460,722 | 5.6 | 5.8 | 4.5 | 6.3 |
| 1860 to 1879 | 1,535,297 | 801,704 | 304,768 | 428,825 | 4.4 | 4.1 | 4.0 | 5.8 |
| 1859 or earlier | 1,007,541 | 377,141 | 255,756 | 374,644 | 2.9 | 1.9 | 3.4 | 5.1 |
| Median age (years)[2] | 25.4 | 26.1 | 20.2 | 28.1 | | | | |
| **NUMBER OF ROOMS** | | | | | | | | |
| **Number reporting** | 36,832,186 | 21,339,428 | 7,951,314 | 7,541,444 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 room | 1,307,344 | 760,796 | 341,918 | 204,630 | 3.5 | 3.6 | 4.3 | 2.7 |
| 2 rooms | 3,215,423 | 1,710,499 | 793,055 | 711,869 | 8.7 | 8.0 | 10.0 | 9.4 |
| 3 rooms | 5,331,572 | 3,104,302 | 1,107,032 | 1,120,238 | 14.5 | 14.5 | 13.9 | 14.9 |
| 4 rooms | 6,891,990 | 3,815,290 | 1,568,730 | 1,507,970 | 18.7 | 17.9 | 19.7 | 20.0 |
| 5 rooms | 7,302,053 | 4,648,797 | 1,503,556 | 1,149,700 | 19.8 | 21.8 | 18.9 | 15.2 |
| 6 rooms | 6,321,630 | 4,001,856 | 1,252,022 | 1,067,752 | 17.2 | 18.8 | 15.7 | 14.2 |
| 7 rooms | 2,868,719 | 1,559,344 | 632,364 | 677,011 | 7.8 | 7.3 | 8.0 | 9.0 |
| 8 rooms | 1,886,121 | 916,878 | 406,534 | 562,709 | 5.1 | 4.3 | 5.1 | 7.5 |
| 9 rooms | 737,986 | 349,386 | 151,055 | 237,545 | 2.0 | 1.6 | 1.9 | 3.1 |
| 10 rooms | 481,339 | 228,027 | 97,582 | 155,730 | 1.3 | 1.1 | 1.2 | 2.1 |
| 11 rooms or more | 488,009 | 244,253 | 97,466 | 146,290 | 1.3 | 1.1 | 1.2 | 1.9 |
| Median number of rooms[2] | 4.73 | 4.78 | 4.61 | 4.70 | | | | |
| **STATE OF REPAIR AND PLUMBING EQUIPMENT** | | | | | | | | |
| **Number reporting** | 35,026,442 | 20,063,571 | 7,659,437 | 7,303,434 | 100.0 | 100.0 | 100.0 | 100.0 |
| **Not needing major repairs** | 28,612,715 | 17,764,681 | 6,022,946 | 4,825,088 | 81.7 | 88.5 | 78.6 | 66.1 |
| With private bath and private flush toilet | 17,793,341 | 14,327,960 | 2,767,351 | 698,030 | 50.8 | 71.4 | 36.1 | 9.6 |
| With private flush toilet, no private bath | 1,165,654 | 912,687 | 221,326 | 31,641 | 3.3 | 4.5 | 2.9 | .4 |
| With running water, no private flush toilet | 2,814,261 | 1,688,425 | 755,804 | 370,032 | 8.0 | 8.4 | 9.9 | 5.1 |
| No running water in dwelling unit | 6,839,459 | 835,609 | 2,278,465 | 3,725,385 | 19.5 | 4.2 | 29.7 | 51.0 |
| **Needing major repairs** | 6,413,727 | 2,298,890 | 1,636,491 | 2,478,346 | 18.3 | 11.5 | 21.4 | 33.9 |
| With private bath and private flush toilet | 1,381,003 | 1,061,711 | 242,804 | 76,488 | 3.9 | 5.3 | 3.2 | 1.0 |
| With private flush toilet, no private bath | 336,125 | 283,157 | 46,659 | 6,309 | 1.0 | 1.4 | .6 | .1 |
| With running water, no private flush toilet | 811,910 | 473,416 | 229,159 | 109,335 | 2.3 | 2.4 | 3.0 | 1.5 |
| No running water in dwelling unit | 3,884,689 | 480,606 | 1,117,869 | 2,286,214 | 11.1 | 2.4 | 14.6 | 31.3 |
| **LIGHTING EQUIPMENT** | | | | | | | | |
| **Number reporting** | 36,746,762 | 21,283,388 | 7,950,578 | 7,512,796 | 100.0 | 100.0 | 100.0 | 100.0 |
| Electric | 28,915,487 | 20,379,352 | 6,185,090 | 2,351,045 | 78.7 | 95.8 | 77.8 | 31.3 |
| Gas | 207,922 | 54,088 | 54,422 | 99,412 | .6 | .3 | .7 | 1.3 |
| Kerosene or gasoline | 7,409,732 | 814,645 | 1,658,679 | 4,936,408 | 20.2 | 3.8 | 20.9 | 65.7 |
| Other | 213,621 | 35,303 | 52,387 | 125,931 | .6 | .2 | .7 | 1.7 |

[1] Less than one-tenth of 1 percent.
[2] For definition of median, see headnote, table 910.

Source: Dept. of Comm., Bur. of Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 914.—Dwelling Units, Urban and Rural—Occupied Units by Persons Per Room, Facilities and Equipment, and Mortgage Status: 1940

| SUBJECT | NUMBER | | | | PERCENT DISTRIBUTION | | | |
|---|---|---|---|---|---|---|---|---|
| | Total | Urban | Rural-nonfarm | Rural-farm | Total | Urban | Rural-nonfarm | Rural-farm |
| All occupied dwelling units | 34,854,532 | 20,596,500 | 7,151,473 | 7,106,559 | | | | |
| PERSONS PER ROOM | | | | | | | | |
| **Number reporting** | 34,447,032 | 20,364,883 | 7,064,895 | 7,017,254 | 100.0 | 100.0 | 100.0 | 100.0 |
| 0.50 or less | 10,846,471 | 6,396,768 | 2,387,838 | 2,061,865 | 31.5 | 31.4 | 33.8 | 29.4 |
| 0.51 to 0.75 | 8,063,070 | 5,235,872 | 1,478,639 | 1,348,559 | 23.4 | 25.7 | 20.9 | 19.2 |
| 0.76 to 1.00 | 8,572,597 | 5,502,614 | 1,595,885 | 1,474,098 | 24.9 | 27.0 | 22.6 | 21.0 |
| 1.01 to 1.50 | 3,878,972 | 2,058,996 | 815,678 | 1,004,298 | 11.3 | 10.1 | 11.5 | 14.3 |
| 1.51 to 2.00 | 1,951,904 | 846,888 | 468,075 | 636,941 | 5.7 | 4.2 | 6.6 | 9.1 |
| 2.01 or more | 1,134,018 | 323,745 | 318,780 | 491,493 | 3.3 | 1.6 | 4.5 | 7.0 |
| RADIO | | | | | | | | |
| **Number reporting** | 33,890,506 | 20,010,014 | 6,969,455 | 6,911,037 | 100.0 | 100.0 | 100.0 | 100.0 |
| With radio | 28,048,219 | 18,386,121 | 5,502,730 | 4,159,368 | 82.8 | 91.9 | 79.0 | 60.2 |
| No radio | 5,842,287 | 1,623,893 | 1,466,725 | 2,751,669 | 17.2 | 8.1 | 21.0 | 39.8 |
| REFRIGERATION EQUIPMENT | | | | | | | | |
| **Number reporting** | 34,205,414 | 20,253,009 | 7,016,193 | 6,936,212 | 100.0 | 100.0 | 100.0 | 100.0 |
| Mechanical | 15,093,346 | 11,339,901 | 2,718,532 | 1,034,913 | 44.1 | 56.0 | 38.7 | 14.9 |
| Ice | 9,253,063 | 6,395,522 | 1,613,169 | 1,244,372 | 27.1 | 31.6 | 23.0 | 17.9 |
| Other | 494,421 | 113,870 | 105,110 | 275,441 | 1.4 | .6 | 1.5 | 4.0 |
| None | 9,364,584 | 2,403,716 | 2,579,382 | 4,381,486 | 27.4 | 11.9 | 36.8 | 63.2 |
| COOKING FUEL | | | | | | | | |
| **Number reporting** | 34,342,311 | 20,290,588 | 7,050,578 | 7,001,145 | 100.0 | 100.0 | 100.0 | 100.0 |
| Coal or coke | 3,961,550 | 1,627,369 | 1,348,298 | 985,883 | 11.5 | 8.0 | 19.1 | 14.1 |
| Wood | 8,101,610 | 1,221,118 | 2,013,147 | 4,867,345 | 23.6 | 6.0 | 28.6 | 69.5 |
| Gas | 16,776,077 | 14,818,814 | 1,691,570 | 265,693 | 48.8 | 73.0 | 24.0 | 3.8 |
| Electricity | 1,837,503 | 1,038,295 | 613,189 | 186,019 | 5.4 | 5.1 | 8.7 | 2.7 |
| Kerosene or gasoline | 3,343,936 | 1,399,900 | 1,314,246 | 629,790 | 9.7 | 6.9 | 18.6 | 9.0 |
| Other | 178,728 | 82,469 | 39,276 | 56,983 | .5 | .4 | .6 | .8 |
| None | 142,907 | 102,623 | 30,852 | 9,432 | .4 | .5 | .4 | .1 |
| HEATING EQUIPMENT | | | | | | | | |
| **Number reporting** | 34,149,065 | 20,190,303 | 7,004,175 | 6,954,587 | 100.0 | 100.0 | 100.0 | 100.0 |
| With central heating | 14,346,835 | 11,749,595 | 1,893,194 | 704,046 | 42.0 | 58.2 | 27.0 | 10.1 |
| Steam or hot water system | 7,427,754 | 6,619,331 | 669,217 | 139,206 | 21.8 | 32.8 | 9.6 | 2.0 |
| Piped warm air system | 5,725,394 | 4,472,616 | 878,064 | 374,714 | 16.8 | 22.2 | 12.5 | 5.4 |
| Pipeless warm air furnace | 1,193,687 | 657,648 | 345,913 | 190,126 | 3.5 | 3.3 | 4.9 | 2.7 |
| Without central heating | 19,802,230 | 8,440,708 | 5,110,981 | 6,250,541 | 58.0 | 41.8 | 73.0 | 89.9 |
| Heating stove | 15,928,323 | 7,081,478 | 4,286,929 | 4,559,916 | 46.6 | 35.1 | 61.2 | 65.6 |
| Other or none | 3,873,907 | 1,359,230 | 824,052 | 1,690,625 | 11.3 | 6.7 | 11.8 | 24.3 |
| HEATING FUEL BY CENTRAL HEATING | | | | | | | | |
| **Reporting heating equipment** | 34,149,065 | 20,190,303 | 7,004,175 | 6,954,587 | 100.0 | 100.0 | 100.0 | 100.0 |
| With central heating: | | | | | | | | |
| Coal or coke | 10,903,163 | 8,971,473 | 1,442,536 | 489,154 | 31.9 | 44.4 | 20.6 | 7.0 |
| Wood | 373,322 | 119,544 | 82,665 | 171,113 | 1.1 | .6 | 1.2 | 2.5 |
| Gas | 1,109,587 | 983,683 | 114,239 | 11,665 | 3.2 | 4.9 | 1.6 | .2 |
| Fuel oil | 1,687,737 | 1,428,188 | 231,755 | 27,794 | 4.9 | 7.1 | 3.3 | .4 |
| Other | 78,215 | 66,083 | 9,621 | 2,511 | .2 | .3 | .1 | (1) |
| Not reporting fuel | 194,811 | 180,624 | 12,378 | 1,809 | .6 | .9 | .2 | (1) |
| Without central heating: | | | | | | | | |
| Coal or coke | 7,622,427 | 3,850,639 | 2,288,734 | 1,483,054 | 22.3 | 19.1 | 32.7 | 21.3 |
| Wood | 7,362,155 | 1,063,340 | 1,837,154 | 4,461,661 | 21.6 | 5.3 | 26.2 | 64.2 |
| Gas | 2,728,381 | 2,139,792 | 484,962 | 103,627 | 8.0 | 10.6 | 6.9 | 1.5 |
| Fuel oil | 1,220,243 | 830,740 | 286,691 | 102,812 | 3.6 | 4.1 | 4.1 | 1.5 |
| Kerosene or gasoline | 486,479 | 333,629 | 107,788 | 45,062 | 1.4 | 1.7 | 1.5 | .6 |
| Other | 50,022 | 27,617 | 12,405 | 10,000 | .1 | .1 | .2 | .1 |
| None | 262,648 | 161,466 | 71,196 | 29,986 | .8 | .8 | 1.0 | .4 |
| Not reporting fuel | 69,875 | 33,485 | 22,051 | 14,339 | .2 | .2 | .3 | .2 |
| MORTGAGE STATUS | | | | | | | | |
| Owner-occupied nonfarm units | 11,413,036 | 7,714,960 | 3,698,076 | | | | | |
| **Reporting mortgage status** [2] | 10,611,259 | 7,275,576 | 3,335,683 | | 100.0 | 100.0 | 100.0 | |
| Mortgaged | 4,804,778 | 3,682,839 | 1,121,939 | | 45.3 | 50.6 | 33.6 | |
| Free of mortgage | 5,806,481 | 3,592,737 | 2,213,744 | | 54.7 | 49.4 | 66.4 | |
| INCLUSION OF FURNITURE IN RENT | | | | | | | | |
| Tenant-occupied nonfarm units | 16,334,937 | 12,881,540 | 3,453,397 | | | | | |
| **Number reporting** | 14,680,168 | 11,784,595 | 2,895,573 | | 100.0 | 100.0 | 100.0 | |
| Furniture included in contract rent | 1,850,901 | 1,634,304 | 216,597 | | 12.6 | 13.9 | 7.5 | |
| Furniture not included | 12,829,267 | 10,150,291 | 2,678,976 | | 87.4 | 86.1 | 92.5 | |

[1] Less than one-tenth of 1 percent.
[2] Mortgage data are limited to owner-occupied nonfarm units in structures without business and containing not more than 4 dwelling units.

Source: Dept. of Commerce, Bureau of Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 915.—Dwelling Units, Urban and Rural—Units With Private Bathtub or Shower in Structure, by States: 1940

[Excludes units not reporting on bathing equipment. For total number of dwelling units, see table 904]

| Division and State | Reporting on bathing equipment | Dwelling units with private bathtub or shower in structure | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total | | Urban | | Rural-nonfarm | | Rural-farm | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| **United States** | 36,649,481 | 20,606,386 | 56.2 | 16,505,350 | 77.5 | 3,220,249 | 40.8 | 880,787 | 11.8 |
| **New England** | 2,396,209 | 1,818,504 | 75.9 | 1,466,194 | 84.4 | 299,667 | 58.3 | 52,643 | 36.2 |
| Maine | 254,142 | 117,203 | 46.1 | 63,958 | 68.5 | 45,564 | 39.0 | 7,681 | 17.4 |
| New Hampshire | 154,367 | 95,254 | 61.7 | 60,747 | 77.5 | 28,061 | 49.0 | 6,446 | 34.5 |
| Vermont | 104,985 | 62,299 | 59.3 | 28,689 | 85.9 | 23,656 | 54.5 | 9,954 | 35.3 |
| Massachusetts | 1,200,588 | 997,043 | 83.0 | 899,080 | 86.3 | 84,425 | 63.6 | 13,538 | 53.1 |
| Rhode Island | 202,003 | 154,227 | 76.3 | 142,518 | 79.2 | 10,555 | 55.1 | 1,154 | 40.1 |
| Connecticut | 480,124 | 392,478 | 81.7 | 271,202 | 87.6 | 107,406 | 74.4 | 13,870 | 53.0 |
| **Middle Atlantic** | 7,736,615 | 5,960,678 | 77.0 | 5,079,253 | 86.1 | 756,968 | 54.8 | 124,457 | 27.4 |
| New York | 3,952,462 | 3,324,428 | 84.1 | 2,918,304 | 90.8 | 345,291 | 64.5 | 60,833 | 30.1 |
| New Jersey | 1,202,220 | 985,257 | 82.0 | 818,950 | 86.6 | 150,073 | 67.7 | 16,234 | 46.0 |
| Pennsylvania | 2,581,933 | 1,650,993 | 63.9 | 1,341,999 | 77.1 | 261,604 | 41.9 | 47,390 | 21.9 |
| **East North Central** | 7,576,107 | 4,549,543 | 60.1 | 3,874,851 | 78.2 | 506,980 | 35.5 | 167,712 | 14.1 |
| Ohio | 1,953,836 | 1,225,344 | 62.7 | 1,045,081 | 79.3 | 134,447 | 37.3 | 45,816 | 16.6 |
| Indiana | 989,150 | 461,119 | 46.6 | 367,584 | 67.1 | 67,294 | 30.1 | 26,241 | 12.0 |
| Illinois | 2,249,086 | 1,454,428 | 64.7 | 1,310,533 | 78.6 | 110,104 | 33.6 | 33,791 | 13.3 |
| Michigan | 1,497,488 | 946,559 | 63.2 | 786,371 | 82.9 | 122,801 | 38.9 | 37,387 | 16.0 |
| Wisconsin | 886,547 | 462,093 | 52.1 | 365,282 | 77.3 | 72,334 | 35.8 | 24,477 | 11.5 |
| **West North Central** | 3,851,671 | 1,625,220 | 42.2 | 1,218,918 | 68.8 | 294,166 | 80.4 | 112,136 | 9.2 |
| Minnesota | 761,117 | 353,517 | 46.4 | 287,689 | 73.7 | 49,275 | 31.4 | 16,553 | 7.7 |
| Iowa | 715,068 | 307,571 | 43.0 | 208,300 | 65.8 | 63,585 | 38.3 | 35,686 | 15.4 |
| Missouri | 1,121,458 | 492,930 | 44.0 | 412,133 | 68.5 | 66,421 | 30.8 | 14,376 | 4.7 |
| North Dakota | 159,516 | 33,066 | 20.7 | 21,412 | 61.9 | 9,234 | 19.1 | 2,420 | 3.2 |
| South Dakota | 176,092 | 46,587 | 26.5 | 27,683 | 62.1 | 14,737 | 28.4 | 4,167 | 5.2 |
| Nebraska | 382,348 | 168,215 | 44.0 | 109,366 | 72.1 | 39,619 | 42.4 | 19,230 | 14.0 |
| Kansas | 536,072 | 223,334 | 41.7 | 152,335 | 65.8 | 51,295 | 38.4 | 19,704 | 11.5 |
| **South Atlantic** | 4,437,337 | 1,698,228 | 38.3 | 1,225,641 | 64.8 | 389,744 | 31.6 | 82,843 | 6.3 |
| Delaware | 74,522 | 45,330 | 60.8 | 28,997 | 76.7 | 14,204 | 57.8 | 2,129 | 17.5 |
| Maryland | 488,396 | 307,141 | 62.9 | 223,234 | 76.6 | 71,494 | 51.2 | 12,413 | 21.7 |
| District of Columbia | 182,284 | 150,406 | 82.5 | 150,406 | 82.5 | | | | |
| Virginia | 645,880 | 233,422 | 36.1 | 158,373 | 63.7 | 56,191 | 31.1 | 18,858 | 8.7 |
| West Virginia | 448,257 | 160,555 | 35.8 | 107,165 | 75.6 | 46,588 | 24.0 | 6,802 | 6.1 |
| North Carolina | 793,748 | 195,638 | 24.6 | 125,162 | 51.9 | 56,706 | 25.8 | 13,770 | 4.1 |
| South Carolina | 449,125 | 97,490 | 21.7 | 56,036 | 44.9 | 33,969 | 26.2 | 7,485 | 3.8 |
| Georgia | 776,426 | 191,036 | 24.6 | 136,934 | 47.0 | 44,229 | 25.3 | 9,873 | 3.2 |
| Florida | 578,699 | 317,210 | 54.8 | 239,334 | 72.2 | 66,363 | 38.9 | 11,513 | 15.0 |
| **East South Central** | 2,671,630 | 598,108 | 22.4 | 439,730 | 50.4 | 124,438 | 20.9 | 33,940 | 2.8 |
| Kentucky | 713,651 | 194,320 | 27.2 | 147,622 | 60.4 | 38,105 | 20.8 | 8,593 | 3.0 |
| Tennessee | 726,268 | 183,169 | 25.2 | 137,549 | 49.2 | 34,804 | 22.5 | 10,816 | 3.7 |
| Alabama | 689,589 | 141,716 | 20.6 | 104,778 | 46.0 | 30,161 | 18.8 | 6,777 | 2.2 |
| Mississippi | 542,122 | 78,903 | 14.6 | 49,781 | 41.3 | 21,368 | 22.1 | 7,754 | 2.4 |
| **West South Central** | 3,518,383 | 1,242,691 | 35.3 | 921,307 | 61.8 | 233,423 | 30.3 | 87,961 | 7.0 |
| Arkansas | 506,425 | 88,485 | 17.5 | 65,077 | 51.9 | 18,369 | 16.3 | 5,039 | 1.9 |
| Louisiana | 608,534 | 209,015 | 34.3 | 162,864 | 60.7 | 37,085 | 26.5 | 9,066 | 4.5 |
| Oklahoma | 630,443 | 217,757 | 34.5 | 169,260 | 64.2 | 36,940 | 26.0 | 11,557 | 5.1 |
| Texas | 1,772,981 | 727,434 | 41.0 | 524,106 | 62.9 | 141,029 | 37.5 | 62,299 | 11.1 |
| **Mountain** | 1,215,807 | 546,349 | 44.9 | 368,028 | 70.1 | 134,874 | 34.9 | 43,447 | 14.3 |
| Montana | 174,722 | 66,352 | 38.0 | 44,784 | 67.5 | 16,787 | 30.4 | 4,781 | 9.0 |
| Idaho | 149,948 | 59,896 | 39.9 | 35,047 | 67.6 | 15,305 | 34.0 | 9,544 | 18.0 |
| Wyoming | 75,601 | 31,641 | 41.9 | 20,407 | 71.0 | 8,968 | 35.9 | 2,266 | 10.3 |
| Colorado | 347,985 | 166,795 | 47.9 | 126,371 | 70.3 | 31,284 | 33.1 | 9,140 | 12.4 |
| New Mexico | 142,026 | 40,449 | 28.5 | 26,875 | 55.7 | 9,706 | 19.9 | 3,868 | 8.6 |
| Arizona | 144,054 | 70,070 | 48.6 | 36,840 | 70.9 | 27,383 | 45.2 | 5,847 | 18.6 |
| Utah | 145,773 | 90,328 | 62.0 | 66,657 | 78.9 | 17,018 | 43.3 | 6,653 | 30.3 |
| Nevada | 35,698 | 20,818 | 58.3 | 11,047 | 82.1 | 8,423 | 47.7 | 1,348 | 29.3 |
| **Pacific** | 3,245,722 | 2,567,065 | 79.1 | 1,911,428 | 88.7 | 479,989 | 66.4 | 175,648 | 47.7 |
| Washington | 580,424 | 382,882 | 66.0 | 257,184 | 81.1 | 88,972 | 54.7 | 36,726 | 36.4 |
| Oregon | 363,390 | 230,583 | 63.5 | 150,126 | 82.9 | 53,830 | 52.4 | 26,627 | 33.5 |
| California | 2,301,908 | 1,953,600 | 84.9 | 1,504,118 | 90.8 | 337,187 | 73.7 | 112,295 | 59.8 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part 1.

## No. 916.—Dwelling Units, Urban and Rural—Median Number of Rooms, Radio, and Mortgage Status of Owner-Occupied Nonfarm Units, by States: 1940

[Radio and mortgage status data exclude units not reporting on given subject]

| Division and state | Median number of rooms [1] | | | | Radio | | | Mortgage status [2] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All dwelling units | Urban | Rural nonfarm | Rural farm | Occupied units reporting | With radio | | Owner-occupied nonfarm units reporting | Mortgaged | |
| | | | | | | Number | Percent | | Number | Percent |
| **United States** | 4.73 | 4.78 | 4.61 | 4.70 | 33,890,506 | 28,048,219 | 82.8 | 10,611,259 | 4,804,778 | 45.3 |
| **New England** | 5.38 | 5.23 | 5.67 | 7.09 | 2,140,980 | 2,020,238 | 94.4 | 760,509 | 437,967 | 57.6 |
| Maine | 5.68 | 5.49 | 5.46 | 6.85 | 213,204 | 184,348 | 86.5 | 82,833 | 24,935 | 30.1 |
| New Hampshire | 5.63 | 5.35 | 5.62 | 7.26 | 129,758 | 116,809 | 90.0 | 50,669 | 20,703 | 40.9 |
| Vermont | 6.27 | 5.66 | 6.08 | 7.67 | 90,569 | 80,253 | 88.6 | 29,625 | 11,931 | 40.3 |
| Massachusetts | 5.37 | 5.31 | 5.71 | 6.89 | 1,086,623 | 1,044,830 | 96.2 | 380,030 | 238,860 | 62.9 |
| Rhode Island | 5.18 | 5.13 | 5.68 | 7.10 | 184,661 | 176,739 | 95.7 | 64,316 | 37,764 | 58.7 |
| Connecticut | 5.18 | 4.94 | 5.68 | 6.93 | 436,165 | 417,259 | 95.7 | 153,036 | 103,774 | 67.8 |
| **Middle Atlantic** | 5.21 | 4.96 | 5.64 | 7.17 | 7,065,910 | 6,672,007 | 94.4 | 2,234,904 | 1,162,623 | 52.0 |
| New York | 4.80 | 4.49 | 5.81 | 7.69 | 3,544,098 | 3,385,620 | 95.5 | 909,145 | 565,045 | 62.2 |
| New Jersey | 5.27 | 5.17 | 5.53 | 6.57 | 1,068,709 | 1,020,466 | 95.5 | 383,899 | 212,979 | 55.5 |
| Pennsylvania | 5.72 | 5.68 | 5.57 | 6.82 | 2,453,103 | 2,265,921 | 92.4 | 941,860 | 384,599 | 40.8 |
| **East North Central** | 5.18 | 5.03 | 5.04 | 6.26 | 7,099,845 | 6,513,457 | 91.7 | 2,645,649 | 1,250,981 | 47.3 |
| Ohio | 5.44 | 5.26 | 5.34 | 6.53 | 1,852,318 | 1,697,672 | 91.7 | 731,918 | 363,523 | 49.7 |
| Indiana | 5.08 | 4.92 | 4.87 | 5.90 | 937,048 | 826,604 | 88.2 | 348,916 | 163,899 | 47.0 |
| Illinois | 4.83 | 4.71 | 4.83 | 5.96 | 2,139,025 | 1,974,604 | 92.3 | 704,885 | 314,298 | 44.6 |
| Michigan | 5.34 | 5.25 | 5.08 | 6.40 | 1,361,021 | 1,271,499 | 93.4 | 574,590 | 284,829 | 49.6 |
| Wisconsin | 5.39 | 5.21 | 5.04 | 6.56 | 810,433 | 743,078 | 91.7 | 285,340 | 124,432 | 43.6 |
| **West North Central** | 4.93 | 4.67 | 4.80 | 5.58 | 3,594,241 | 3,074,918 | 85.6 | 1,119,251 | 424,945 | 38.0 |
| Minnesota | 5.03 | 4.84 | 4.65 | 5.86 | 709,978 | 647,499 | 91.2 | 250,528 | 102,790 | 41.0 |
| Iowa | 5.67 | 5.08 | 5.58 | 6.64 | 683,964 | 617,006 | 90.2 | 232,424 | 77,369 | 33.3 |
| Missouri | 4.25 | 4.14 | 4.23 | 4.44 | 1,042,463 | 832,590 | 79.9 | 287,784 | 129,805 | 45.1 |
| North Dakota | 4.72 | 4.18 | 4.52 | 5.10 | 148,179 | 131,000 | 88.4 | 34,668 | 9,574 | 27.6 |
| South Dakota | 5.08 | 4.61 | 4.73 | 5.66 | 160,894 | 136,049 | 84.6 | 38,008 | 11,084 | 29.2 |
| Nebraska | 5.23 | 4.90 | 5.12 | 5.85 | 352,662 | 298,790 | 84.7 | 108,879 | 38,476 | 35.3 |
| Kansas | 5.00 | 4.78 | 4.84 | 5.57 | 496,101 | 411,984 | 83.0 | 166,960 | 55,847 | 33.4 |
| **South Atlantic** | 4.41 | 4.51 | 4.29 | 4.41 | 4,150,615 | 2,740,481 | 66.0 | 1,021,508 | 399,517 | 39.1 |
| Delaware | 5.79 | 5.76 | 5.68 | 6.20 | 68,870 | 59,921 | 87.0 | 24,869 | 12,646 | 50.9 |
| Maryland | 5.56 | 5.54 | 5.36 | 6.17 | 449,960 | 396,338 | 88.1 | 173,580 | 76,250 | 43.9 |
| Dist. of Col | 4.29 | 4.29 | | | 169,102 | 158,377 | 93.7 | 50,151 | 32,511 | 64.8 |
| Virginia | 4.83 | 4.81 | 4.62 | 5.08 | 610,878 | 409,978 | 67.1 | 160,085 | 60,863 | 38.0 |
| West Virginia | 4.60 | 5.02 | 4.21 | 4.98 | 434,388 | 326,347 | 75.1 | 104,232 | 33,609 | 32.2 |
| North Carolina | 4.41 | 4.40 | 4.30 | 4.49 | 764,144 | 471,863 | 61.8 | 147,613 | 55,589 | 37.7 |
| South Carolina | 3.99 | 3.77 | 3.89 | 4.12 | 422,263 | 209,542 | 49.6 | 62,146 | 22,323 | 35.9 |
| Georgia | 3.85 | 3.69 | 3.82 | 3.95 | 720,999 | 381,668 | 52.5 | 125,431 | 46,134 | 36.8 |
| Florida | 4.19 | 4.39 | 3.87 | 4.13 | 504,011 | 326,447 | 64.8 | 173,401 | 59,592 | 34.4 |
| **East South Central** | 3.81 | 3.86 | 3.80 | 3.79 | 2,541,507 | 1,406,433 | 55.3 | 470,255 | 157,554 | 33.5 |
| Kentucky | 4.05 | 4.06 | 3.97 | 4.11 | 680,066 | 444,416 | 65.3 | 145,692 | 50,842 | 34.9 |
| Tennessee | 3.92 | 3.91 | 3.96 | 3.91 | 695,362 | 434,733 | 62.5 | 147,458 | 49,934 | 33.9 |
| Alabama | 3.65 | 3.71 | 3.58 | 3.66 | 650,710 | 321,671 | 49.4 | 108,717 | 36,892 | 33.9 |
| Mississippi | 3.55 | 3.44 | 3.48 | 3.60 | 515,369 | 205,613 | 39.9 | 68,388 | 19,886 | 29.1 |
| **West South Central** | 3.82 | 4.02 | 3.66 | 3.75 | 3,279,640 | 2,048,429 | 62.5 | 840,395 | 281,539 | 33.5 |
| Arkansas | 3.68 | 4.06 | 3.59 | 3.60 | 480,955 | 244,586 | 50.9 | 82,113 | 21,722 | 26.5 |
| Louisiana | 3.74 | 3.92 | 3.60 | 3.64 | 577,965 | 307,883 | 53.3 | 135,915 | 44,273 | 32.6 |
| Oklahoma | 3.88 | 4.22 | 3.69 | 3.71 | 589,919 | 405,754 | 68.8 | 158,410 | 58,552 | 37.0 |
| Texas | 3.88 | 3.99 | 3.69 | 3.89 | 1,630,801 | 1,090,206 | 66.9 | 463,957 | 156,992 | 33.8 |
| **Mountain** | 3.77 | 4.06 | 3.42 | 3.73 | 1,088,365 | 876,034 | 80.5 | 378,487 | 132,648 | 35.0 |
| Montana | 3.73 | 3.84 | 3.48 | 3.86 | 156,024 | 134,503 | 86.2 | 49,206 | 12,969 | 26.4 |
| Idaho | 3.91 | 4.00 | 3.50 | 4.15 | 137,521 | 118,824 | 86.4 | 45,271 | 15,077 | 33.3 |
| Wyoming | 3.65 | 3.86 | 3.47 | 3.59 | 67,687 | 57,126 | 84.4 | 20,819 | 8,306 | 39.9 |
| Colorado | 4.11 | 4.39 | 3.66 | 4.12 | 305,824 | 258,573 | 84.5 | 106,216 | 42,424 | 39.9 |
| New Mexico | 3.06 | 3.42 | 2.83 | 2.95 | 125,134 | 66,609 | 53.2 | 40,471 | 9,065 | 22.4 |
| Arizona | 3.19 | 3.81 | 3.09 | 1.93 | 127,250 | 87,781 | 69.0 | 42,093 | 15,020 | 35.7 |
| Utah | 4.13 | 4.27 | 3.90 | 4.09 | 136,747 | 126,418 | 92.4 | 63,347 | 26,764 | 42.2 |
| Nevada | 3.58 | 3.76 | 3.30 | 4.06 | 32,178 | 26,200 | 81.4 | 11,064 | 3,023 | 27.3 |
| **Pacific** | 4.37 | 4.48 | 4.03 | 4.61 | 2,929,403 | 2,696,222 | 92.0 | 1,140,301 | 557,004 | 48.8 |
| Washington | 4.33 | 4.42 | 4.00 | 4.70 | 521,777 | 472,553 | 90.6 | 223,314 | 98,275 | 44.0 |
| Oregon | 4.56 | 4.73 | 4.09 | 4.82 | 327,806 | 290,641 | 88.7 | 126,312 | 53,822 | 42.6 |
| California | 4.35 | 4.45 | 4.03 | 4.48 | 2,079,820 | 1,933,028 | 92.9 | 790,675 | 404,907 | 51.2 |

[1] For definition of median, see headnote, table 910.

[2] Mortgage data are limited to owner-occupied nonfarm units in structures without business and containing not more than 4 dwelling units; percent represents percent of reporting owner-occupied units which were mortgaged. For number of owner-occupied urban and rural-nonfarm units, see table 907.

Source: Dept. of Comm., Bur. of Census; Sixteenth Census Reports, Housing, Vol. II, Part I.

## No. 917.—Dwelling Units, Urban and Rural—Occupied Units With 1.51 or More Persons per Room, by States: 1940

[Excludes units not reporting on number of persons per room. For total number of occupied units, see table 904]

| Division and State | Reporting on persons per room | Occupied units with 1.51 or more persons per room | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total | | Urban | | Rural-nonfarm | | Rural-farm | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| **United States** | 34,447,032 | 3,085,922 | 9.0 | 1,170,633 | 5.7 | 786,855 | 11.1 | 1,128,434 | 16.1 |
| **New England** | 2,172,732 | 69,029 | 3.2 | 50,897 | 3.1 | 14,030 | 3.6 | 4,102 | 3.2 |
| Maine | 215,788 | 11,037 | 5.1 | 3,073 | 3.5 | 6,040 | 6.8 | 1,924 | 4.8 |
| New Hampshire | 131,287 | 4,297 | 3.3 | 2,112 | 2.8 | 1,757 | 4.3 | 428 | 2.7 |
| Vermont | 91,428 | 2,541 | 2.8 | 734 | 2.3 | 1,244 | 3.6 | 563 | 2.3 |
| Massachusetts | 1,105,354 | 29,787 | 2.7 | 27,121 | 2.7 | 2,100 | 2.3 | 566 | 2.4 |
| Rhode Island | 186,085 | 6,572 | 3.5 | 6,209 | 3.7 | 301 | 2.2 | 62 | 2.4 |
| Connecticut | 442,790 | 14,795 | 3.3 | 11,648 | 3.9 | 2,588 | 2.2 | 559 | 2.4 |
| **Middle Atlantic** | 7,193,719 | 272,010 | 3.8 | 209,270 | 3.7 | 50,779 | 4.3 | 11,961 | 2.8 |
| New York | 3,615,727 | 120,331 | 3.3 | 109,205 | 3.6 | 8,485 | 2.0 | 2,641 | 1.5 |
| New Jersey | 1,086,639 | 33,380 | 3.1 | 28,338 | 3.2 | 4,121 | 2.5 | 921 | 2.8 |
| Pennsylvania | 2,491,353 | 118,299 | 4.7 | 71,727 | 4.2 | 38,173 | 6.5 | 8,399 | 4.1 |
| **East North Central** | 7,206,077 | 342,022 | 4.7 | 202,097 | 4.2 | 80,380 | 6.4 | 59,545 | 5.2 |
| Ohio | 1,880,099 | 79,132 | 4.2 | 49,238 | 3.8 | 19,230 | 5.7 | 10,664 | 4.0 |
| Indiana | 950,905 | 53,083 | 5.6 | 26,260 | 4.9 | 14,695 | 7.2 | 12,128 | 5.8 |
| Illinois | 2,172,101 | 120,011 | 5.5 | 84,265 | 5.2 | 21,696 | 7.1 | 14,050 | 5.7 |
| Michigan | 1,383,109 | 56,676 | 4.1 | 29,309 | 3.2 | 16,089 | 6.4 | 11,278 | 5.2 |
| Wisconsin | 819,863 | 33,120 | 4.0 | 13,025 | 2.8 | 8,670 | 5.4 | 11,425 | 5.7 |
| **West North Central** | 3,646,054 | 277,654 | 7.6 | 109,984 | 6.5 | 67,961 | 8.4 | 99,709 | 8.7 |
| Minnesota | 720,426 | 48,333 | 6.7 | 18,697 | 4.9 | 11,257 | 8.4 | 18,379 | 8.9 |
| Iowa | 693,860 | 30,456 | 4.4 | 15,663 | 5.1 | 7,898 | 5.0 | 6,895 | 3.1 |
| Missouri | 1,056,293 | 111,419 | 10.5 | 46,570 | 8.2 | 22,956 | 11.3 | 41,893 | 14.6 |
| North Dakota | 150,007 | 20,409 | 13.6 | 3,942 | 11.8 | 5,949 | 12.8 | 10,518 | 15.0 |
| South Dakota | 162,950 | 15,739 | 9.7 | 3,513 | 8.2 | 5,305 | 10.9 | 6,921 | 9.7 |
| Nebraska | 357,331 | 21,519 | 6.0 | 8,857 | 6.1 | 6,080 | 6.9 | 6,582 | 5.3 |
| Kansas | 505,187 | 29,779 | 5.9 | 12,742 | 5.7 | 8,516 | 6.7 | 8,521 | 5.4 |
| **South Atlantic** | 4,224,547 | 619,727 | 14.7 | 169,292 | 9.4 | 181,471 | 15.6 | 268,964 | 21.4 |
| Delaware | 69,801 | 2,386 | 3.4 | 1,127 | 3.1 | 766 | 3.5 | 493 | 4.3 |
| Maryland | 459,377 | 20,891 | 4.5 | 9,773 | 3.5 | 7,264 | 5.9 | 3,854 | 7.1 |
| District of Columbia | 170,860 | 14,579 | 8.5 | 14,579 | 8.5 | | | | |
| Virginia | 621,217 | 77,187 | 12.4 | 16,321 | 6.8 | 24,558 | 14.2 | 36,308 | 17.5 |
| West Virginia | 440,099 | 66,759 | 15.2 | 9,514 | 6.9 | 35,773 | 18.7 | 21,472 | 19.5 |
| North Carolina | 778,285 | 138,596 | 17.8 | 28,109 | 11.9 | 35,906 | 16.7 | 74,581 | 22.8 |
| South Carolina | 430,403 | 91,973 | 21.4 | 21,417 | 17.5 | 23,424 | 18.8 | 47,132 | 25.7 |
| Georgia | 741,877 | 143,466 | 19.3 | 44,264 | 15.5 | 28,988 | 17.2 | 70,214 | 24.4 |
| Florida | 512,628 | 63,890 | 12.5 | 24,188 | 8.3 | 24,792 | 16.5 | 14,910 | 20.7 |
| **East South Central** | 2,586,687 | 526,464 | 20.4 | 113,089 | 13.3 | 113,358 | 19.6 | 300,017 | 25.9 |
| Kentucky | 690,299 | 125,579 | 18.2 | 24,862 | 10.5 | 34,646 | 19.5 | 66,071 | 23.9 |
| Tennessee | 706,731 | 135,145 | 19.1 | 37,222 | 13.6 | 28,782 | 19.1 | 69,141 | 24.4 |
| Alabama | 664,342 | 151,995 | 22.9 | 33,987 | 15.1 | 33,470 | 21.6 | 84,538 | 29.7 |
| Mississippi | 525,315 | 113,745 | 21.7 | 17,018 | 14.4 | 16,460 | 17.5 | 80,267 | 25.6 |
| **West South Central** | 3,338,541 | 623,050 | 18.7 | 195,426 | 13.7 | 144,407 | 19.6 | 283,217 | 24.2 |
| Arkansas | 489,654 | 101,391 | 20.7 | 14,171 | 11.6 | 20,985 | 19.1 | 66,235 | 25.7 |
| Louisiana | 586,762 | 110,154 | 18.8 | 34,304 | 13.1 | 26,121 | 19.3 | 49,729 | 26.1 |
| Oklahoma | 601,338 | 114,233 | 19.0 | 28,489 | 11.4 | 27,929 | 20.3 | 57,815 | 27.1 |
| Texas | 1,660,787 | 297,272 | 17.9 | 118,462 | 14.9 | 69,372 | 19.5 | 109,438 | 21.4 |
| **Mountain** | 1,103,642 | 190,643 | 17.3 | 51,519 | 10.3 | 73,190 | 21.6 | 65,934 | 24.9 |
| Montana | 157,317 | 20,974 | 13.3 | 5,157 | 8.2 | 7,887 | 16.1 | 7,930 | 17.4 |
| Idaho | 139,296 | 22,787 | 16.4 | 5,790 | 11.7 | 7,883 | 19.4 | 9,114 | 18.6 |
| Wyoming | 68,434 | 10,280 | 15.0 | 2,533 | 9.4 | 3,760 | 16.7 | 3,987 | 21.1 |
| Colorado | 311,232 | 37,024 | 11.9 | 13,183 | 7.7 | 13,455 | 17.5 | 10,386 | 16.7 |
| New Mexico | 127,186 | 41,882 | 32.9 | 10,340 | 22.5 | 15,596 | 36.8 | 15,946 | 41.0 |
| Arizona | 129,315 | 35,154 | 27.2 | 6,665 | 13.8 | 15,484 | 28.2 | 13,005 | 50.0 |
| Utah | 138,330 | 18,559 | 13.4 | 6,909 | 8.5 | 6,761 | 18.4 | 4,889 | 23.9 |
| Nevada | 32,532 | 3,983 | 12.2 | 942 | 7.3 | 2,364 | 15.3 | 677 | 16.5 |
| **Pacific** | 2,975,033 | 165,323 | 5.6 | 69,059 | 3.4 | 61,279 | 9.9 | 34,985 | 10.4 |
| Washington | 529,562 | 27,939 | 5.3 | 9,009 | 3.0 | 11,085 | 7.9 | 7,845 | 8.5 |
| Oregon | 332,483 | 19,375 | 5.8 | 5,116 | 3.0 | 8,407 | 9.2 | 5,852 | 8.2 |
| California | 2,112,988 | 118,009 | 5.6 | 54,934 | 3.5 | 41,787 | 10.7 | 21,288 | 12.3 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vols. I and II, Part 1.

## No. 918.—Housing Characteristics for 34 Selected Metropolitan Districts: 1947

[Based on Current Population Survey of April 1947. For discussion of this survey, see p. 175]

| Metropolitan district | All dwelling units | Dwelling units in need of major repairs or without private bath | With private bathtub or shower in structure | | All occupied units | Owner occupied | | Median contract monthly rent [1] | Vacant, habitable nonseasonal dwelling units for rent or for sale only (as a percent of total dwelling units) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Number | Percent | | Number | Percent | | |
| Akron, Ohio | 120,287 | 24,790 | 101,861 | 85 | 118,400 | 81,326 | 69 | $33 | 0.3 |
| Allentown-Bethlehem-Easton, Pa | 94,240 | 21,824 | 72,850 | 77 | 92,411 | 53,351 | 58 | 27 | .2 |
| Atlanta, Ga | 138,867 | 45,879 | 97,457 | 70 | 136,899 | 66,748 | 49 | 20 | .4 |
| Baltimore, Md | 364,929 | 75,190 | 305,807 | 84 | 354,526 | 180,250 | 51 | 34 | .7 |
| Birmingham, Ala | 138,282 | 67,260 | 74,176 | 54 | 135,356 | 66,614 | 49 | 15 | .9 |
| Boston, Mass | 732,600 | 66,150 | 678,600 | 93 | 710,550 | 300,375 | 42 | 32 | .6 |
| Chicago, Ill | 1,344,420 | 144,760 | 1,220,065 | 91 | 1,334,025 | 515,900 | 39 | 38 | .2 |
| Columbus, Ohio | 126,198 | 24,190 | 109,962 | 87 | 123,697 | 64,493 | 52 | 33 | .6 |
| Dallas, Tex | 147,444 | 35,288 | 119,812 | 81 | 144,276 | 80,960 | 56 | 29 | .7 |
| Denver, Colo | 147,796 | 31,856 | 117,524 | 80 | 145,508 | 77,616 | 53 | 32 | 1.0 |
| Detroit, Mich | 765,124 | 83,094 | 704,443 | 92 | 750,182 | 403,624 | 54 | 37 | .6 |
| Los Angeles, Calif | 1,273,500 | 106,125 | 1,183,875 | 93 | 1,236,000 | 654,375 | 53 | 35 | .8 |
| Lowell-Lawrence-Haverhill, Mass | 102,393 | 15,283 | 88,226 | 86 | 98,487 | 43,214 | 44 | 24 | .3 |
| Memphis, Tenn | 114,142 | 50,840 | 63,045 | 60 | 111,383 | 50,716 | 46 | 20 | 1.0 |
| Minneapolis-St. Paul, Minn | 294,567 | 62,062 | 242,424 | 82 | 286,741 | 168,623 | 59 | 33 | .2 |
| New Haven, Conn | 102,331 | 6,758 | 97,154 | 95 | 97,340 | 50,220 | 52 | 27 | .3 |
| New Orleans, La | 170,968 | 42,000 | 140,448 | 82 | 167,440 | 55,552 | 33 | 21 | .4 |
| New York-Northeastern New Jersey | 3,706,911 | 395,640 | 3,454,416 | 93 | 3,600,891 | 1,103,967 | 31 | 39 | .2 |
| Norfolk-Portsmouth-Newport News, Va | 139,026 | 32,383 | 110,873 | 80 | 133,292 | 54,191 | 41 | 31 | 2.0 |
| Philadelphia, Pa | 955,644 | 108,834 | 885,222 | 93 | 939,057 | 559,011 | 60 | 31 | .7 |
| Pittsburgh, Pa | 567,077 | 182,397 | 406,359 | 72 | 556,645 | 284,435 | 51 | 29 | .5 |
| Portland, Oreg | 185,201 | 25,075 | 163,194 | 88 | 179,478 | 112,690 | 63 | 33 | 1.9 |
| Rochester, N. Y | 136,325 | 12,997 | 128,084 | 94 | 133,414 | 76,055 | 57 | 35 | .5 |
| St. Louis, Mo | 470,316 | 131,978 | 356,510 | 76 | 461,846 | 215,292 | 47 | 24 | .5 |
| Salt Lake City, Utah | 69,762 | 7,518 | 63,525 | 91 | 68,061 | 43,596 | 64 | 34 | .5 |
| San Antonio, Tex | 116,416 | 31,926 | 87,006 | 75 | 112,778 | 68,204 | 60 | 28 | 1.2 |
| San Francisco-Oakland, Calif | 661,158 | 36,018 | 633,834 | 96 | 646,875 | 314,019 | 49 | 36 | .5 |
| Scranton-Wilkes-Barre, Pa | 148,802 | 36,049 | 116,419 | 78 | 145,324 | 71,910 | 49 | 23 | .6 |
| Seattle, Wash | 202,092 | 23,694 | 181,170 | 90 | 194,370 | 120,714 | 62 | 35 | 1.6 |
| Toledo, Ohio | 110,976 | 15,470 | 98,702 | 89 | 108,664 | 68,272 | 63 | 31 | .8 |
| Tulsa, Okla | 66,402 | 16,800 | 51,261 | 77 | 64,848 | 38,745 | 60 | 29 | 1.3 |
| Washington, D. C | 350,966 | 45,050 | 315,350 | 90 | 343,440 | 135,892 | 40 | 50 | .3 |
| Worcester, Mass | 82,070 | 8,787 | 75,603 | 92 | 80,852 | 38,135 | 47 | 27 | .3 |
| Youngstown, Ohio | 100,657 | 18,879 | 85,157 | 85 | 99,355 | 67,084 | 68 | 31 | .2 |

[1] Data are for nonfarm tenant-occupied units only. For definition of median, see headnote, table 910.

Source: Department of Commerce, Bureau of the Census; Current Population Report, Housing, Series P-71, Numbers 1 to 35.

## No. 919.—Housing Characteristics for Selected Metropolitan Districts: 1940

[For metropolitan districts having a central city of 100,000 or more or a gross population of 150,000 or more. Monthly rental data exclude rural-farm dwelling units. See Cities Supplement to Statistical Abstract for summary statistics for specific cities.]

| Metropolitan district | All dwelling units | Median contract or estimated monthly rent [1] | Bathing equipment | | | All occupied units | Owner occupied | | Occupied by nonwhite | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Number reporting | With private bathtub or shower in structure | | | | | | |
| | | | | Number | Percent | | Number | Percent | Number | Percent |
| Akron, Ohio | 97,057 | $26.21 | 96,033 | 75,214 | 78.3 | 94,924 | 49,840 | 52.5 | 3,487 | 3.7 |
| Albany - Schenectady-Troy, N. Y. | 129,464 | 27.52 | 128,095 | 103,439 | 80.8 | 122,327 | 50,574 | 41.3 | 1,467 | 1.2 |
| Allentown - Bethlehem-Easton, Pa. | 85,923 | 25.10 | 85,033 | 57,637 | 67.8 | 83,636 | 36,675 | 43.9 | 484 | .6 |
| Atlanta, Ga. | 121,441 | 18.74 | 119,999 | 67,452 | 56.2 | 117,384 | 38,211 | 32.6 | 34,150 | 29.1 |
| Baltimore, Md. | 289,060 | 27.53 | 283,991 | 215,888 | 76.0 | 271,679 | 117,967 | 43.4 | 43,271 | 15.9 |
| Birmingham, Ala. | 109,211 | 13.48 | 107,046 | 49,185 | 45.9 | 106,495 | 35,057 | 32.9 | 44,461 | 41.7 |
| Boston, Mass. | 651,192 | 32.33 | 640,184 | 563,915 | 88.1 | 606,279 | 219,192 | 36.2 | 11,529 | 1.9 |
| Bridgeport, Conn. | 60,301 | 28.77 | 59,143 | 49,678 | 84.0 | 57,478 | 21,511 | 37.4 | 1,147 | 2.0 |
| Buffalo-Niagara, N. Y. | 233,963 | 28.63 | 231,819 | 197,729 | 85.3 | 224,969 | 84,655 | 37.6 | 5,849 | 2.6 |
| Canton, Ohio | 54,307 | 27.54 | 53,778 | 42,529 | 79.1 | 53,281 | 28,130 | 52.8 | 1,727 | 3.2 |
| Charlotte, N. C. | 28,329 | 21.69 | 27,822 | 16,450 | 59.1 | 27,846 | 8,317 | 29.9 | 8,042 | 28.9 |
| Chattanooga, Tenn. | 50,300 | 15.04 | 49,754 | 25,100 | 50.4 | 48,786 | 18,292 | 37.5 | 10,374 | 21.3 |
| Chicago, Ill. | 1,284,345 | 33.39 | 1,272,840 | 1,064,793 | 83.7 | 1,237,297 | 374,277 | 30.2 | 87,739 | 7.1 |
| Cincinnati, Ohio | 241,557 | 26.49 | 238,766 | 164,777 | 69.0 | 228,594 | 92,028 | 40.3 | 20,922 | 9.2 |
| Cleveland, Ohio | 347,866 | 31.59 | 345,994 | 305,594 | 88.3 | 335,885 | 130,956 | 39.0 | 22,302 | 6.6 |
| Columbus, Ohio | 103,263 | 28.96 | 101,317 | 82,951 | 81.9 | 99,537 | 41,158 | 41.3 | 8,995 | 9.0 |
| Dallas, Tex. | 114,141 | 23.74 | 112,814 | 79,683 | 70.6 | 107,235 | 41,660 | 38.8 | 16,674 | 15.5 |
| Davenport (Iowa)-Rock Island-Moline (Ill.) | 50,497 | 29.80 | 50,040 | 32,314 | 64.6 | 49,530 | 23,894 | 48.2 | 677 | 1.4 |
| Dayton, Ohio | 77,166 | 29.22 | 76,159 | 53,015 | 69.6 | 75,516 | 34,306 | 45.4 | 5,361 | 7.1 |
| Denver, Colo. | 119,077 | 25.83 | 116,687 | 83,698 | 71.7 | 113,911 | 47,618 | 41.8 | 2,967 | 2.6 |
| Des Moines, Iowa | 55,103 | 25.63 | 53,933 | 34,566 | 64.1 | 53,264 | 27,291 | 51.2 | 1,856 | 3.5 |
| Detroit, Mich. | 617,992 | 33.60 | 611,394 | 524,115 | 85.7 | 594,688 | 266,949 | 44.9 | 39,455 | 6.6 |
| Duluth (Minn.)-Superior (Wis.) | 44,908 | 23.41 | 44,556 | 30,643 | 68.8 | 43,048 | 22,006 | 51.1 | 203 | .5 |
| Erie, Pa. | 36,340 | 24.60 | 35,667 | 29,954 | 84.0 | 35,223 | 14,766 | 41.9 | 412 | 1.2 |
| Fall River-New Bedford, Mass. | 75,591 | 18.53 | 74,323 | 54,317 | 73.1 | 72,560 | 21,435 | 29.5 | 1,458 | 2.0 |
| Flint, Mich. | 51,303 | 26.74 | 50,914 | 33,761 | 66.3 | 49,829 | 28,556 | 57.3 | 1,674 | 3.4 |
| Fort Wayne, Ind. | 38,095 | $29.04 | 37,623 | 28,364 | 75.4 | 37,132 | 20,496 | 55.2 | 705 | 1.9 |
| Fort Worth, Tex. | 62,832 | 18.82 | 61,838 | 41,339 | 66.9 | 59,633 | 26,902 | 45.1 | 8,352 | 14.0 |
| Grand Rapids, Mich. | 61,196 | 23.79 | 60,420 | 48,068 | 79.6 | 59,204 | 31,322 | 52.9 | 838 | 1.4 |
| Harrisburg, Pa. | 47,770 | 28.72 | 47,281 | 34,868 | 73.7 | 46,378 | 20,168 | 43.5 | 2,668 | 5.8 |
| Hartford-New Britain, Conn. | 132,848 | 31.12 | 130,093 | 114,566 | 88.1 | 129,810 | 46,745 | 36.0 | 2,429 | 1.9 |
| Houston, Tex. | 149,351 | 24.04 | 146,397 | 102,914 | 70.3 | 141,345 | 57,917 | 41.0 | 28,622 | 20.2 |
| Huntington (W. Va.)-Ashland (Ky.) | 44,797 | 19.14 | 44,070 | 27,995 | 63.5 | 43,510 | 19,021 | 43.7 | 1,715 | 3.9 |
| Indianapolis, Ind. | 135,179 | 25.16 | 133,260 | 88,532 | 66.4 | 130,068 | 53,003 | 40.8 | 16,616 | 11.2 |
| Jacksonville, Fla. | 52,956 | 18.33 | 52,207 | 33,792 | 64.7 | 51,180 | 17,750 | 34.7 | 16,214 | 31.7 |
| Johnstown, Pa. | 36,316 | 20.39 | 36,080 | 19,606 | 54.3 | 35,736 | 14,972 | 41.9 | 569 | 1.6 |
| Kansas City (Mo.)-Kansas City (Kans.) | 202,122 | 22.65 | 198,687 | 137,537 | 69.2 | 188,660 | 75,177 | 39.8 | 20,430 | 10.8 |
| Knoxville, Tenn. | 39,143 | 16.23 | 38,880 | 19,322 | 49.7 | 37,877 | 15,584 | 41.1 | 4,425 | 11.7 |
| Los Angeles, Calif. | 999,492 | 29.32 | 987,045 | 903,601 | 91.5 | 930,921 | 376,610 | 40.5 | 34,546 | 3.7 |
| Louisville, Ky. | 126,043 | 19.76 | 124,831 | 75,613 | 60.6 | 120,293 | 49,397 | 41.1 | 16,478 | 13.7 |
| Lowell-Lawrence-Haverhill, Mass. | 92,148 | 22.44 | 90,439 | 72,905 | 80.6 | 86,555 | 31,715 | 36.6 | 278 | .3 |
| Memphis, Tenn. | 93,823 | 15.75 | 91,869 | 42,803 | 46.6 | 91,319 | 29,194 | 32.0 | 39,837 | 43.6 |
| Miami, Fla. | 85,136 | 30.49 | 83,050 | 69,760 | 84.0 | 70,994 | 29,163 | 41.1 | 10,026 | 14.1 |
| Milwaukee, Wis. | 223,061 | 33.19 | 221,356 | 179,084 | 80.9 | 215,665 | 81,177 | 37.6 | 2,756 | 1.3 |
| Minneapolis-St. Paul, Minn. | 268,484 | 30.93 | 265,469 | 205,550 | 77.4 | 256,646 | 120,447 | 46.9 | 3,228 | 1.3 |
| Nashville, Tenn. | 66,061 | 17.32 | 65,307 | 31,940 | 48.9 | 63,574 | 23,568 | 37.1 | 15,049 | 23.7 |
| New Haven, Conn. | 88,623 | 28.25 | 87,624 | 74,774 | 85.3 | 81,768 | 30,562 | 37.4 | 2,331 | 2.9 |
| New Orleans, La. | 149,006 | 16.89 | 147,899 | 104,725 | 70.8 | 144,566 | 37,048 | 25.6 | 43,595 | 30.2 |
| New York-Northeastern New Jersey | 3,424,485 | 37.75 | 3,354,661 | 3,052,094 | 91.0 | 3,160,300 | 746,688 | 23.6 | 170,101 | 5.4 |
| Norfolk-Portsmouth-Newport News, Va. | 86,539 | 20.22 | 84,547 | 51,898 | 61.4 | 82,917 | 30,159 | 36.4 | 28,007 | 33.8 |

[1] For definition of median, see headnote, table 910.

No. 919.—Housing Characteristics for Selected Metropolitan Districts: 1940—Continued

| Metropolitan district | All dwelling units | Median contract or estimated monthly rent [1] | Bathing equipment: Number reporting | Bathing equipment: With private bathtub or shower in structure: Number | Bathing equipment: With private bathtub or shower in structure: Percent | All occupied units | Owner occupied: Number | Owner occupied: Percent | Occupied by nonwhite: Number | Occupied by nonwhite: Percent |
|---|---|---|---|---|---|---|---|---|---|---|
| Oklahoma City, Okla | 69,412 | 22.43 | 67,596 | 45,842 | 67.8 | 63,922 | 24,520 | 38.4 | 5,558 | 8.7 |
| Omaha (Nebr.)-Council Bluffs (Iowa) | 84,129 | 24.89 | 83,206 | 60,059 | 72.2 | 79,798 | 38,653 | 48.4 | 3,695 | 4.6 |
| Peoria, Ill | 47,027 | 31.74 | 45,894 | 29,082 | 63.4 | 45,845 | 24,044 | 52.4 | 931 | 2.0 |
| Philadelphia, Pa | 792,909 | 28.97 | 779,641 | 668,848 | 85.8 | 754,474 | 321,794 | 42.7 | 79,590 | 10.5 |
| Pittsburgh, Pa | 512,538 | 25.60 | 507,028 | 291,801 | 57.6 | 502,064 | 196,544 | 39.1 | 28,692 | 5.7 |
| Portland, Oreg | 141,697 | 22.86 | 139,605 | 116,040 | 83.1 | 133,144 | 70,478 | 52.9 | 1,769 | 1.3 |
| Providence, R. I | 197,927 | 23.48 | 196,507 | 155,347 | 79.1 | 186,372 | 68,811 | 36.9 | 3,059 | 1.6 |
| Reading, Pa | 48,293 | 26.92 | 47,896 | 37,975 | 79.3 | 46,749 | 22,381 | 47.9 | 606 | 1.3 |
| Richmond, Va | 66,624 | 24.06 | 65,687 | 41,686 | 63.5 | 64,385 | 24,256 | 37.7 | 17,467 | 27.1 |
| Rochester, N. Y | 119,880 | 33.57 | 116,694 | 105,299 | 90.2 | 113,895 | 51,805 | 45.5 | 1,090 | 1.0 |
| Sacramento, Calif | 49,366 | 29.46 | 48,701 | 39,372 | 80.8 | 47,157 | 24,288 | 51.5 | 2,215 | 4.7 |
| Saginaw-Bay City, Mich | 42,590 | 23.89 | 41,893 | 28,316 | 67.6 | 40,939 | 25,629 | 62.6 | 974 | 2.4 |
| St. Louis, Mo | 409,595 | 23.81 | 405,380 | 278,461 | 68.7 | 385,374 | 142,764 | 37.0 | 40,780 | 10.6 |
| Salt Lake City, Utah | 57,109 | 26.22 | 56,778 | 46,384 | 81.7 | 54,891 | 30,068 | 54.8 | 494 | .9 |
| San Antonio, Tex | 86,389 | 17.23 | 85,837 | 55,234 | 64.3 | 81,335 | 34,066 | 41.9 | 6,551 | 8.1 |
| San Diego, Calif | 86,788 | 27.37 | 85,925 | 76,528 | 89.1 | 79,813 | 35,015 | 43.9 | 2,079 | 2.6 |
| San Francisco-Oakland, Calif | 485,087 | 32.90 | 477,600 | 433,525 | 90.8 | 454,519 | 188,039 | 41.4 | 16,438 | 3.6 |
| Scranton-Wilkes-Barre, Pa | 151,184 | 21.97 | 149,493 | 100,031 | 66.9 | 148,294 | 63,775 | 43.0 | 596 | .4 |
| Seattle, Wash | 164,295 | 25.30 | 161,032 | 131,009 | 81.4 | 153,229 | 76,131 | 49.7 | 4,504 | 2.9 |
| South Bend, Ind | 40,963 | 25.28 | 40,607 | 30,483 | 75.1 | 40,058 | 22,056 | 55.1 | 998 | 2.5 |
| Spokane, Wash | 47,284 | 21.75 | 46,773 | 36,079 | 77.1 | 44,083 | 25,051 | 56.8 | 384 | .9 |
| Springfield-Holyoke, Mass | 107,483 | 26.47 | 106,154 | 95,719 | 90.2 | 102,921 | 37,107 | 36.1 | 1,108 | 1.1 |
| Syracuse, N. Y | 73,336 | 29.62 | 71,945 | 60,449 | 84.0 | 70,336 | 27,009 | 38.4 | 709 | 1.0 |
| Tacoma, Wash | 53,310 | 20.15 | 52,742 | 41,332 | 78.4 | 49,598 | 29,768 | 60.0 | 870 | 1.8 |
| Tampa-St. Petersburg, Fla | 73,572 | 20.03 | 72,553 | 55,432 | 76.4 | 61,660 | 27,638 | 44.8 | 10,196 | 16.5 |
| Toledo, Ohio | 99,011 | 27.52 | 98,297 | 82,241 | 83.7 | 95,360 | 47,604 | 49.9 | 3,895 | 4.1 |
| Trenton, N. J | 50,310 | 28.72 | 49,692 | 40,167 | 80.8 | 49,112 | 21,771 | 44.3 | 2,802 | 5.7 |
| Tulsa, Okla | 56,847 | 22.67 | 55,920 | 37,688 | 67.4 | 53,712 | 22,875 | 42.6 | 5,477 | 10.2 |
| Utica-Rome, N. Y | 53,045 | 23.63 | 52,586 | 40,525 | 77.1 | 50,819 | 20,828 | 41.0 | 275 | .5 |
| Washington, D. C | 252,773 | 47.73 | 248,858 | 204,214 | 82.1 | 237,609 | 89,575 | 37.7 | 45,367 | 19.1 |
| Wheeling, W. Va | 51,368 | 18.44 | 50,721 | 28,246 | 55.7 | 50,381 | 22,147 | 44.0 | 1,667 | 3.3 |
| Wichita, Kans | 39,925 | 22.28 | 39,317 | 27,507 | 70.0 | 38,161 | 16,810 | 44.1 | 1,676 | 4.4 |
| Wilmington, Del | 50,349 | 31.97 | 49,829 | 38,235 | 76.7 | 48,583 | 21,248 | 43.7 | 4,835 | 10.0 |
| Worcester, Mass | 79,881 | 26.21 | 77,892 | 66,794 | 85.8 | 77,262 | 28,733 | 37.2 | 481 | .6 |
| Youngstown, Ohio | 93,495 | 28.13 | 92,450 | 65,618 | 71.0 | 92,250 | 48,494 | 52.6 | 5,503 | 6.0 |

[1] For definition of median, see headnote, table 910.

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. II, Part I.

## No. 920.—Nonfarm Mortgaged Properties, Owner-Occupied One-Family—Interest Rate, Outstanding Indebtedness, Value, Type of Holder, and Type of Payment: 1940

[Percent not shown where less than 0.1]

| SUBJECT | Number or amount | Percent |
|---|---|---|
| Owner-occupied 1-family mortgaged properties | 4,025,815 | |
| INTEREST RATE ON FIRST MORTGAGE | | |
| **Reporting interest rate** | 3,845,513 | 100.0 |
| Under 4.0 percent | 29,554 | .8 |
| 4.0 | 68,248 | 1.8 |
| 4.1–4.4 | 4,826 | .1 |
| 4.5 | 663,964 | 17.3 |
| 4.6–4.9 | 1,543 | |
| 5.0 | 762,254 | 19.8 |
| 5.1–5.4 | 5,770 | .2 |
| 5.5 | 286,759 | 7.5 |
| 5.6–5.9 | 1,188 | |
| 6.0 | 1,714,160 | 44.6 |
| 6.1–6.4 | 2,430 | .1 |
| 6.5 | 29,103 | .8 |
| 6.6–6.9 | 5,031 | .1 |
| 7.0 | 162,674 | 4.2 |
| 7.1–7.4 | 6,305 | .2 |
| 7.5 | 4,555 | .1 |
| 7.6–7.9 | 575 | |
| 8.0 | 96,574 | 2.5 |
| Average interest rate (percent) | 5.55 | |
| OUTSTANDING INDEBTEDNESS (First and junior mortgages) | | |
| **Reporting debt and value** | 3,745,366 | 100.0 |
| Under $1,000 | 959,791 | 25.6 |
| $1,000–$1,499 | 515,762 | 13.8 |
| $1,500–$1,999 | 433,848 | 11.6 |
| $2,000–$2,499 | 419,584 | 11.2 |
| $2,500–$2,999 | 305,225 | 8.1 |
| $3,000–$3,999 | 483,476 | 12.9 |
| $4,000–$4,999 | 283,441 | 7.6 |
| $5,000–$5,999 | 159,390 | 4.3 |
| $6,000–$7,499 | 100,175 | 2.7 |
| $7,500–$9,999 | 49,168 | 1.3 |
| $10,000–$14,999 | 26,416 | .7 |
| $15,000–$19,999 | 5,756 | .2 |
| $20,000 and over | 3,334 | .1 |
| RELATION OF DEBT TO VALUE | | |
| Value of property (1,000 dollars) | 16,489,836 | |
| Average value (dollars) | 4,403 | |
| Debt on first and junior mortgages (1,000 dollars) | 8,633,722 | |
| Ratio debt to value (percent) | 52.4 | |
| Average debt (dollars) | 2,305 | |

| SUBJECT | Number or amount | Percent |
|---|---|---|
| HOLDER OF FIRST MORTGAGE (Data limited to properties reporting holder, debt, and value) | | |
| **Total properties** | 3,683,910 | 100.0 |
| Building and loan association | 753,531 | 20.5 |
| Commercial and savings banks | 872,808 | 23.7 |
| Commercial bank | 434,444 | 11.8 |
| Savings bank | 438,364 | 11.9 |
| Life insurance company | 166,880 | 4.5 |
| Mortgage company | 171,865 | 4.7 |
| Home Owners' Loan Corporation | 492,790 | 13.4 |
| Individual | 936,404 | 25.4 |
| Other | 289,632 | 7.9 |
| **Debt on first mortgage (1,000 dollars)** | 8,396,271 | 100.0 |
| Building and loan association | 1,476,430 | 17.6 |
| Commercial and savings banks | 2,284,601 | 27.2 |
| Commercial bank | 1,145,344 | 13.6 |
| Savings bank | 1,139,257 | 13.6 |
| Life insurance company | 659,166 | 7.9 |
| Mortgage company | 486,163 | 5.8 |
| Home Owners' Loan Corporation | 1,097,890 | 13.1 |
| Individual | 1,681,735 | 20.0 |
| Other | 710,286 | 8.5 |
| TYPE AND FREQUENCY OF PAYMENTS ON FIRST MORTGAGE | | |
| *Total properties* | *4,025,815* | *100.0* |
| Principal payments required | 3,188,538 | 79.2 |
| Real estate taxes included in payment | 833,334 | 20.7 |
| Monthly | 780,128 | 19.4 |
| Other than monthly | 53,206 | 1.3 |
| Real estate taxes not included in payment | 2,300,386 | 57.1 |
| Monthly | 1,865,347 | 46.3 |
| Other than monthly | 435,039 | 10.8 |
| Not reporting tax payment requirements | 54,818 | 1.4 |
| No principal payments required | 549,605 | 13.7 |
| Not reporting principal requirements | 123,751 | 3.1 |
| No regular payments required | 163,921 | 4.1 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. IV, Part I.

No. **921.**—Nonfarm Mortgaged Properties, Owner-Occupied One-Family—Debt and Value, and Average Interest Rate on First Mortgage, by States: 1940

| Division and state | Total properties | Reporting debt and value | Value of property | | Outstanding indebtedness (first and junior mortgages) | | | Average interest rate on first mortgage (percent) |
|---|---|---|---|---|---|---|---|---|
| | | | Total (1,000 dollars) | Average (dollars) | Total (1,000 dollars) | Percent of value | Average (dollars) | |
| **United States** | 4,025,815 | 3,745,366 | 16,489,836 | 4,403 | 8,633,722 | 52.4 | 2,305 | 5.55 |
| **New England** | 308,102 | 291,167 | 1,486,008 | 5,104 | 764,412 | 51.4 | 2,625 | 5.38 |
| Maine | 20,320 | 18,667 | 58,017 | 3,108 | 25,550 | 44.0 | 1,369 | 5.59 |
| New Hampshire | 16,403 | 14,655 | 48,215 | 3,290 | 22,419 | 46.5 | 1,530 | 5.17 |
| Vermont | 9,679 | 9,038 | 32,879 | 3,638 | 14,071 | 42.8 | 1,557 | 5.36 |
| Massachusetts | 165,513 | 156,733 | 785,003 | 5,009 | 427,370 | 54.4 | 2,727 | 5.41 |
| Rhode Island | 24,625 | 23,623 | 121,611 | 5,148 | 59,771 | 49.1 | 2,530 | 5.49 |
| Connecticut | 71,562 | 68,451 | 440,283 | 6,432 | 215,230 | 48.9 | 3,144 | 5.28 |
| **Middle Atlantic** | 897,953 | 834,107 | 4,548,874 | 5,454 | 2,479,215 | 54.5 | 2,972 | 5.47 |
| New York | 395,763 | 373,740 | 2,267,436 | 6,067 | 1,261,098 | 55.6 | 3,374 | 5.37 |
| New Jersey | 169,000 | 154,099 | 920,492 | 5,973 | 492,485 | 53.5 | 3,196 | 5.48 |
| Pennsylvania | 333,190 | 306,268 | 1,360,947 | 4,444 | 725,633 | 53.3 | 2,369 | 5.59 |
| **East North Central** | 1,053,082 | 987,266 | 4,240,879 | 4,296 | 2,174,566 | 51.3 | 2,203 | 5.45 |
| Ohio | 317,781 | 299,267 | 1,334,397 | 4,459 | 687,728 | 51.5 | 2,298 | 5.51 |
| Indiana | 149,484 | 136,945 | 453,482 | 3,311 | 219,057 | 48.3 | 1,600 | 5.54 |
| Illinois | 239,483 | 222,239 | 1,116,933 | 5,026 | 553,471 | 49.6 | 2,490 | 5.42 |
| Michigan | 246,656 | 233,744 | 922,427 | 3,946 | 504,610 | 54.7 | 2,159 | 5.48 |
| Wisconsin | 99,678 | 95,071 | 413,640 | 4,351 | 209,699 | 50.7 | 2,206 | 5.14 |
| **West North Central** | 381,924 | 351,622 | 1,217,547 | 3,463 | 621,337 | 51.0 | 1,767 | 5.48 |
| Minnesota | 90,542 | 85,436 | 341,020 | 3,992 | 163,564 | 48.0 | 1,914 | 5.28 |
| Iowa | 70,972 | 63,991 | 193,764 | 3,028 | 95,726 | 49.4 | 1,496 | 5.38 |
| Missouri | 114,706 | 107,222 | 411,049 | 3,834 | 223,563 | 54.4 | 2,085 | 5.60 |
| North Dakota | 8,183 | 6,634 | 20,099 | 3,030 | 9,367 | 46.6 | 1,412 | 5.46 |
| South Dakota | 10,063 | 8,583 | 22,992 | 2,679 | 11,299 | 49.1 | 1,316 | 5.51 |
| Nebraska | 35,706 | 33,217 | 103,077 | 3,103 | 51,612 | 50.1 | 1,554 | 5.45 |
| Kansas | 51,752 | 46,539 | 125,547 | 2,698 | 66,208 | 52.7 | 1,423 | 5.74 |
| **South Atlantic** | 357,922 | 325,298 | 1,474,454 | 4,533 | 756,809 | 51.3 | 2,327 | 5.63 |
| Delaware | 11,623 | 11,028 | 59,839 | 5,426 | 28,421 | 47.5 | 2,577 | 5.68 |
| Maryland | 64,763 | 58,355 | 272,850 | 4,676 | 143,516 | 52.6 | 2,459 | 5.59 |
| Dist. of Columbia | 28,404 | 27,832 | 247,104 | 8,878 | 126,696 | 51.3 | 4,552 | 5.47 |
| Virginia | 55,766 | 50,909 | 238,324 | 4,681 | 124,863 | 52.4 | 2,453 | 5.54 |
| West Virginia | 30,729 | 26,798 | 105,943 | 3,953 | 49,673 | 46.9 | 1,854 | 5.65 |
| North Carolina | 51,999 | 46,712 | 151,501 | 3,243 | 78,351 | 51.7 | 1,677 | 5.64 |
| South Carolina | 20,166 | 17,500 | 64,923 | 3,710 | 32,613 | 50.2 | 1,864 | 5.68 |
| Georgia | 40,677 | 36,476 | 136,126 | 3,732 | 72,519 | 53.3 | 1,988 | 5.72 |
| Florida | 53,795 | 49,688 | 197,845 | 3,982 | 100,158 | 50.6 | 2,016 | 5.75 |
| **East South Central** | 140,494 | 125,463 | 419,970 | 3,347 | 217,740 | 51.8 | 1,735 | 5.64 |
| Kentucky | 45,191 | 40,310 | 149,062 | 3,698 | 77,585 | 52.0 | 1,925 | 5.69 |
| Tennessee | 44,801 | 40,826 | 137,892 | 3,378 | 70,243 | 50.9 | 1,721 | 5.52 |
| Alabama | 33,403 | 29,189 | 91,308 | 3,128 | 48,905 | 53.6 | 1,675 | 5.73 |
| Mississippi | 17,099 | 15,138 | 41,709 | 2,755 | 21,008 | 50.4 | 1,388 | 5.63 |
| **West South Central** | 252,676 | 229,487 | 724,992 | 3,159 | 393,269 | 54.2 | 1,714 | 5.97 |
| Arkansas | 19,903 | 16,251 | 41,908 | 2,579 | 20,217 | 48.2 | 1,244 | 6.08 |
| Louisiana | 37,003 | 34,531 | 120,631 | 3,493 | 64,177 | 53.2 | 1,859 | 5.88 |
| Oklahoma | 53,453 | 47,200 | 142,944 | 3,028 | 78,730 | 55.1 | 1,668 | 5.94 |
| Texas | 142,317 | 131,505 | 419,508 | 3,190 | 230,145 | 54.9 | 1,750 | 5.99 |
| **Mountain** | 120,288 | 108,957 | 348,945 | 3,203 | 175,310 | 50.2 | 1,609 | 5.79 |
| Montana | 11,517 | 10,544 | 32,183 | 3,052 | 14,794 | 46.0 | 1,403 | 5.92 |
| Idaho | 13,812 | 11,903 | 32,319 | 2,715 | 15,345 | 47.5 | 1,289 | 5.79 |
| Wyoming | 7,195 | 6,853 | 23,040 | 3,362 | 11,867 | 51.5 | 1,732 | 5.86 |
| Colorado | 38,400 | 34,220 | 110,637 | 3,233 | 56,240 | 50.8 | 1,643 | 5.71 |
| New Mexico | 8,225 | 7,098 | 22,092 | 3,112 | 10,629 | 48.1 | 1,497 | 6.42 |
| Arizona | 13,901 | 13,044 | 42,187 | 3,234 | 22,315 | 52.9 | 1,711 | 5.72 |
| Utah | 24,490 | 23,147 | 77,256 | 3,338 | 39,652 | 51.3 | 1,713 | 5.67 |
| Nevada | 2,748 | 2,148 | 9,231 | 4,298 | 4,470 | 48.4 | 2,081 | 5.67 |
| **Pacific** | 513,374 | 491,999 | 2,028,167 | 4,122 | 1,051,064 | 51.8 | 2,136 | 5.73 |
| Washington | 94,316 | 88,451 | 280,762 | 3,174 | 132,727 | 47.3 | 1,501 | 5.68 |
| Oregon | 51,723 | 48,301 | 154,080 | 3,190 | 72,679 | 47.2 | 1,505 | 5.62 |
| California | 367,335 | 355,247 | 1,593,326 | 4,485 | 845,658 | 53.1 | 2,380 | 5.75 |

Source: Department of Commerce, Bureau of the Census; Sixteenth Census Reports, Housing, Vol. IV, Part 1.

# 29. Manufactures

**Census of Manufactures.**—The basic source of comprehensive data on manufacturing production has been the Census of Manufactures conducted by the Bureau of the Census. This census was taken decennially from 1849 to 1899, for each fifth year thereafter through 1919, and biennially from 1921 through 1939. During the recent war years the Census of Manufactures was abandoned as directed by Executive Order No. 9152 in the interests of more important work related to the Nation's war effort. The next Census of Manufactures, taken in 1948 to cover the year 1947, is being tabulated as this volume goes to press.

The quinquennial censuses—those of 1904, 1909, 1914, and 1919—covered all factories or plants whose products were valued at $500 or more, but beginning with 1921, the minimum limit has been $5,000. Conceptually a manufacturing establishment is a plant, mill, works, shop, or factory at a single physical location for which independent bookkeeping records are maintained, regardless of its managerial or financial affiliations. An establishment—which may be a single plant or a group of closely located plants operated by a single concern without separate records for each—is the basic reporting unit. In addition, the establishment is the basic unit of industrial classification, being assigned to an industry on the basis of its reported product of chief value.

"Value of products" represents the selling value at the plant or factory. Because of the use of the products of some establishments as materials for others, the total cost of materials and the total value of products for all industries in a given group, and for all groups in the aggregate, include much duplication, estimated at roughly one-third of the gross value of products. Such duplication is not, however, found to any great extent within individual industries. "Value added by manufacture," computed by subtracting "cost of materials, supplies, fuel, etc.," from value of product, provides a rough measure of the contribution of manufacturing processes to product values and is practically free of duplication.

Detailed quantity and value data on the output of manufactured products are compiled from reports of the Census of Manufactures. The "total value" figures for a group of products differ from the "value of products" of the corresponding industry as given in table 930. The product figures include the minor or secondary production of the commodity in plants engaged primarily in other lines of manufacture, whereas the industry figures which relate to the total output of a group of plants primarily engaged in a particular industry, include the value of the secondary products made by the plants classified in the industry.

Because the Bureau of the Census is prohibited from disclosing the operations of any individual company, general plant and detailed commodity information for any industry can be published only where a given industry in a given State or area is represented by three or more independently owned establishments of approximately the same size. This restriction has little effect upon tables for the entire United States, but there are many instances where because of the concentration of production in a few establishments, it has been necessary to combine data for presentation, rather than showing detailed industry data for each city and State.

**Current and other statistics.**—Monthly, quarterly, and annual commodity surveys are also conducted by the Bureau of the Census. These data are published currently in the Facts for Industry series. This series also includes releases of information collected by or for the War Production Board and successor agencies during the war and reconversion periods by the Census Bureau or other Federal agencies.

Reports on current activities of industries, or current movements of individual commodities, are also compiled by trade associations and trade journals, commercial agencies, and by such governmental bureaus as Labor Statistics, Agricultural Economics, Foreign and Domestic Commerce, Fish and Wildlife Service, Tariff Commission, and Internal Revenue, in addition to the Census Bureau previously mentioned.

Abbreviated balance sheet and income account data on all United States manufacturing corporations are compiled and published annually by the Bureau of Internal Revenue from corporation income and profits tax returns and holding company returns.

Data on financial operations and intercorporate relations of manufacturing corporations are collected from time to time by the Securities and Exchange Commission, the Tariff Commission, the Federal Trade Commission, and special investigating agencies. Financial statistics for certain manufacturing industries in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, types and amounts of security issues, and selected data on the salaries paid to officers and directors, are summarized and published for the leading corporations that are registered with the Securities and Exchange Commission. The Tariff Commission publishes commodity surveys which cover economic and competitive aspects of production, distribution, and international trade in selected important industries. Each survey deals with several products which are related because of the raw materials consumed, or competitive uses. The Federal Trade Commission has made several comprehensive studies of individual industries, notable among which are the reports on the motor-vehicle industry, certain industries processing agricultural raw materials, and the agricultural implement and machinery industry. Studies of individual industries have also been made by trade associations and private research agencies.

**Material in other sections.**—In addition to the statistics presented in this section, statistics on the output and activities of manufacturers will be found in various other sections of the Statistical Abstract. For example, data on wages and hours appear in section 8, Labor Force, Employment, and Pay Rolls; statistics on manufacturing corporations compiled from corporation income tax returns appear in section 14, National Government Finances; and statistics on lumber production in section 25, Forests and Forest Products. For page references to the commodity or industry, consult the index. For references to the important sources of statistics on manufacturing and related activities, see the listings under the appropriate subjects in the "Bibliography of Sources of Statistical Data," page 988.

**Geographic coverage.**—Statistics in this section relate to continental United States except as noted.

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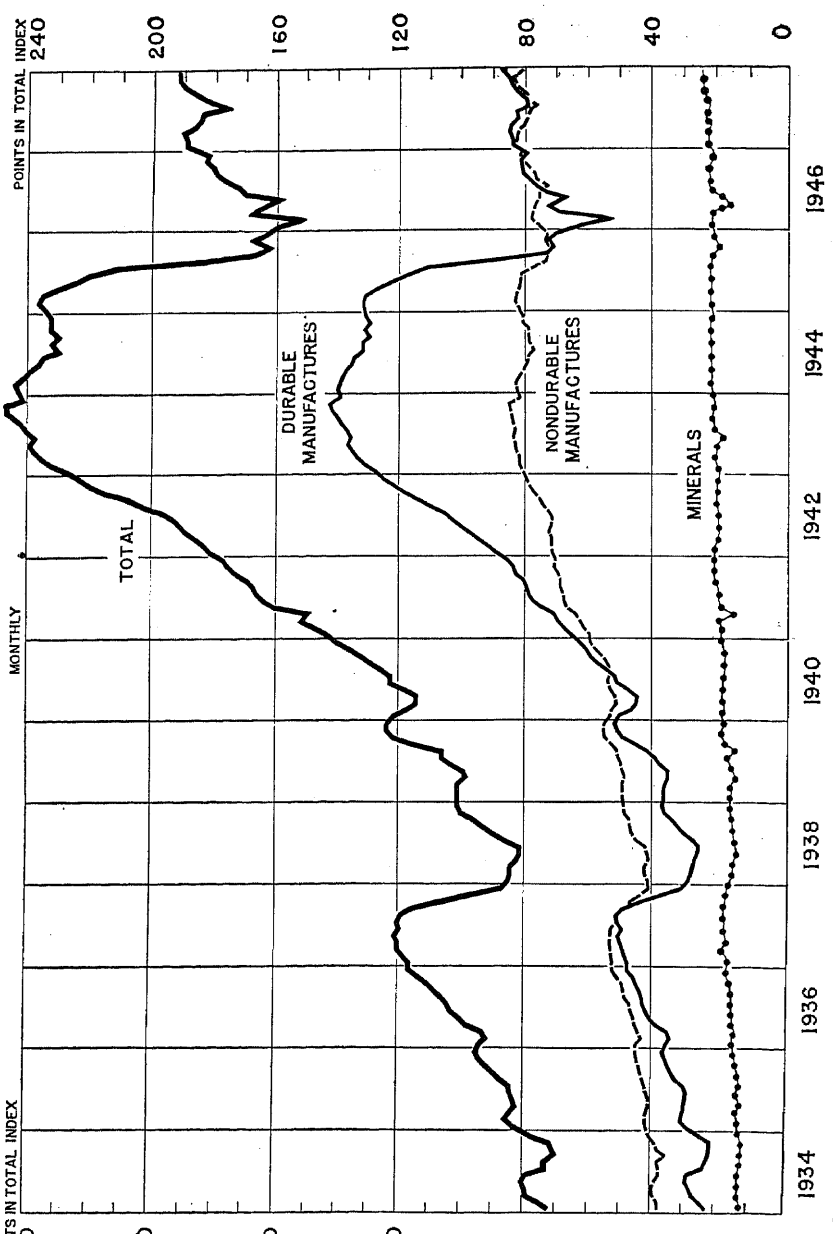
FIGURE U.—INDUSTRIAL PRODUCTION INDEXES: 1934 TO 1946

[Based on physical volume, adjusted for seasonal variation, 1935-39 average for total=100]




Source: Board of Governors of the Federal Reserve System.

## No. 922.—Manufactures—Summary: 1849 to 1939

[It is sometimes necessary, for various reasons but chiefly because of changes in census classification, to make adjustments in figures for earlier census years. Adjustments have been made in figures beginning with 1899 as a result of exclusion from Census of Manufactures since 1929 of the industries "Coffee and spice, roasting and grinding," "Flax and hemp, dressed," "Gas, illuminating and heating," "Grindstones," "Motion pictures, not including projection in theaters," "Peanuts, walnuts, and other nuts, processed or shelled," and "Railroad repair shops" (both steam and electric)]

| CENSUS YEAR | Number of establishments | Wage earners (average for year) | Wages ($1,000) | Cost of materials, containers, fuel, and purchased energy ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000) [1] |
|---|---|---|---|---|---|---|
| Factories and hand and neighborhood industries: | | | | | | |
| 1849 [2] | 123,025 | 957,059 | 236,755 | 555,124 | 1,019,107 | 463,983 |
| 1859 [2] | 140,433 | 1,311,246 | 378,879 | 1,031,605 | 1,885,862 | 854,257 |
| 1869 [2] | 252,148 | 2,053,996 | [3] 620,467 | [3] 1,990,742 | [3] 3,385,860 | [3] 1,395,119 |
| 1879 [2] | 253,852 | 2,732,595 | 947,954 | 3,396,824 | 5,369,579 | 1,972,756 |
| 1889 [2] | 355,405 | 4,251,535 | 1,891,220 | 5,162,014 | 9,372,379 | 4,210,365 |
| 1899 [2] | 512,191 | 5,306,143 | 2,320,938 | 7,343,628 | 13,000,149 | 5,656,521 |
| Factories, excluding hand and neighborhood industries: | | | | | | |
| 1899 [2] | 204,750 | 4,501,919 | 1,892,574 | 6,385,970 | 11,032,951 | 4,646,981 |
| 1904 [2] | 213,444 | 5,181,660 | 2,440,851 | 8,233,790 | 14,252,961 | 6,019,171 |
| 1909 [2] | 264,826 | 6,262,242 | 3,205,548 | 11,783,160 | 19,945,249 | 8,162,089 |
| 1914 [2] | 269,193 | 6,613,189 | 3,787,399 | 14,020,417 | 23,442,692 | 9,422,276 |
| 1914 [4] | 173,575 | 6,475,567 | 3,709,449 | 13,811,422 | 23,049,632 | 9,238,210 |
| 1919 [4] | 210,268 | 8,423,964 | 9,611,002 | 36,229,015 | 59,964,027 | 23,735,012 |
| 1921 [4] | 192,059 | 6,475,474 | 7,451,299 | 24,397,078 | 41,649,853 | 17,252,775 |
| 1923 [4] | 192,096 | 8,194,170 | 10,148,624 | 33,611,809 | 58,181,296 | 24,569,487 |
| 1925 [4] | 183,877 | 7,871,409 | 9,979,649 | 35,141,601 | 60,809,225 | 25,667,624 |
| 1927 [4] | 187,629 | 7,848,070 | 10,099,465 | 34,010,075 | 60,335,469 | 26,325,394 |
| 1929 [4] | 206,663 | 8,369,705 | 10,884,919 | 37,402,606 | 67,994,041 | 30,591,435 |
| 1931 [4] | 171,460 | 6,163,144 | 6,688,541 | 21,229,356 | 39,829,888 | 18,600,532 |
| 1933 [4] | 139,325 | 5,787,611 | 4,940,146 | 16,549,788 | 30,557,328 | 14,007,540 |
| 1935 [4] | 167,916 | 7,203,794 | 7,311,329 | [5] 26,441,145 | 44,993,699 | [6] 18,552,553 |
| 1937 [4] | [7] 166,794 | 8,569,231 | 10,112,883 | [5] 35,539,333 | 60,712,872 | [6] 25,173,539 |
| 1939 [4] | [7] 184,230 | 7,886,567 | 9,089,941 | [5] 32,160,107 | 56,843,025 | [6] 24,682,918 |

[1] Value of products less cost of materials, containers, fuel, and purchased electric energy.
[2] For all establishments having products valued at $500 or more.
[3] Reduced to gold basis.
[4] For all establishments having products valued at $5,000 or more.
[5] Includes cost of contract work.
[6] Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and cost of contract work from value of products. Not strictly comparable with years prior to 1935.
[7] An establishment operating two or more factories was counted as two or more establishments in censuses for 1937 and 1939. Total number was increased approximately 2,000 by this change.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 923.—Population, Wage Earners, and Production—Indexes: 1899 to 1939

[See general note, p. 822]

| CENSUS YEAR | Population | Wage earners | Production (quantity) [1] | Production per wage earner | CENSUS YEAR | Population | Wage earners | Production (quantity) [1] | Production per wage earner |
|---|---|---|---|---|---|---|---|---|---|
| 1899 | 100 | 100 | 100 | 100 | 1927 | 158 | 178 | 317 | 178 |
| 1904 | 110 | 115 | 124 | 108 | 1929 | 162 | 190 | 364 | 192 |
| 1909 | 121 | 139 | 158 | 114 | 1931 | 166 | 140 | 262 | 187 |
| 1914 | 131 | 147 | 186 | 127 | 1933 | 168 | 131 | 228 | 174 |
| 1919 | 140 | 191 | 222 | 116 | 1935 | 170 | 163 | 301 | 185 |
| 1921 | 145 | 147 | 194 | 132 | 1937 | 172 | 194 | 376 | 194 |
| 1923 | 149 | 186 | 280 | 151 | 1939 | 175 | 187 | 373 | 199 |
| 1925 | 154 | 178 | 298 | 167 | | | | | |

[1] Index of physical output from National Bureau of Economic Research.

## No. 924.—Manufacturing Establishments Classified According to Number of Wage Earners: 1937 and 1939

[See general note, p. 822]

| NUMBER OF WAGE EARNERS | 1937 | | | | 1939 | | | |
|---|---|---|---|---|---|---|---|---|
| | Establishments | Average number of wage earners | Percent of total | | Establishments | Average number of wage earners | Percent of total | |
| | | | Establishments | Wage earners | | | Establishments | Wage earners |
| **Total** | **166,794** | **8,569,231** | **100.0** | **100.0** | **184,230** | **7,886,567** | **100.0** | **100.0** |
| None | 6,885 | | 4.1 | | 8,315 | | 4.5 | |
| 1 to 5 | 62,164 | 170,174 | 37.3 | 2.0 | 75,930 | 203,052 | 41.2 | 2.6 |
| 6 to 20 | 46,402 | 514,487 | 27.8 | 6.0 | 49,015 | 542,679 | 26.6 | 6.9 |
| 21 to 50 | 23,138 | 750,922 | 13.9 | 8.8 | 23,646 | 764,814 | 12.8 | 9.7 |
| 51 to 100 | 11,911 | 852,373 | 7.1 | 9.9 | 11,908 | 848,423 | 6.5 | 10.8 |
| 101 to 250 | 9,745 | 1,522,670 | 5.8 | 17.8 | 9,458 | 1,472,651 | 5.1 | 18.7 |
| 251 to 500 | 3,911 | 1,363,000 | 2.3 | 15.9 | 3,653 | 1,268,983 | 2.0 | 16.1 |
| 501 to 1,000 | 1,660 | 1,133,323 | 1.0 | 13.2 | 1,495 | 1,024,297 | .8 | 13.0 |
| 1,001 to 2,500 | 737 | 1,080,534 | .4 | 12.6 | 634 | 937,136 | .3 | 11.9 |
| 2,501 or more | 241 | 1,181,748 | .1 | 13.8 | 176 | 824,532 | .1 | 10.5 |

## No. 925.—Manufacturing Establishments Classified by Value of Products: 1939

[See general note, p. 822]

| CLASS OF ESTABLISHMENTS ACCORDING TO VALUE OF PRODUCTS | ESTABLISHMENTS | | WAGE EARNERS | | VALUE OF PRODUCTS | | VALUE ADDED BY MANUFACTURE | |
|---|---|---|---|---|---|---|---|---|
| | Number | Percent distribution | Average number | Percent distribution | Amount (thousands of dollars) | Percent distribution | Amount (thousands of dollars) | Percent distribution |
| **Total** | **184,230** | **100.0** | **7,886,567** | **100.0** | **56,843,025** | **100.0** | **24,682,918** | **100.0** |
| $5,000 to $19,999 | 60,593 | 32.9 | 189,575 | 2.4 | 680,777 | 1.2 | 395,900 | 1.6 |
| $20,000 to $49,999 | 42,083 | 22.8 | 327,340 | 4.2 | 1,353,676 | 2.4 | 749,596 | 3.0 |
| $50,000 to $99,999 | 25,490 | 13.8 | 389,637 | 4.9 | 1,811,463 | 3.2 | 956,006 | 3.9 |
| $100,000 to $249,999 | 24,718 | 13.4 | 768,358 | 9.7 | 3,920,974 | 6.9 | 1,938,317 | 7.9 |
| $250,000 to $499,999 | 13,066 | 7.1 | 839,222 | 10.6 | 4,626,937 | 8.1 | 2,167,507 | 8.8 |
| $500,000 to $999,999 | 8,706 | 4.7 | 1,038,151 | 13.2 | 6,110,939 | 10.8 | 2,816,572 | 11.4 |
| $1,000,000 to $2,499,999 | 6,088 | 3.3 | 1,463,278 | 18.6 | 9,298,230 | 16.4 | 4,276,718 | 17.3 |
| $2,500,000 to $4,999,999 | 2,013 | 1.1 | 904,184 | 11.5 | 6,918,927 | 12.2 | 3,160,708 | 12.8 |
| $5,000,000 and over | 1,473 | .8 | 1,966,822 | 24.9 | 22,121,102 | 38.9 | 8,221,595 | 33.3 |

Source of tables 923, 924, and 925: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 926.—Industrial Production—Indexes, by Groups: 1928 to 1947

[1935–39 average=100. For discussion of revisions beginning 1939, see Federal Reserve Bulletin, Oct. 1943; for discussion of revisions for earlier years, see Bulletins for Aug. 1940 and Sept. 1941. Monthly data adjusted for seasonal variation]

| Year and month | Total | Manufactures | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | Durable manufactures | | | | | | | Nondurable manufactures | | |
| | | | Total | Iron and steel | Machinery | Transportation equipment | Nonferrous metal and products | Lumber and products | Stone, clay, and glass products | Total | Textiles and products | Leather and products |
| 1928 | 99 | 99 | 117 | 121 | 106 | 108 | 118 | 142 | 110 | 85 | 87 | 93 |
| 1929 | 110 | 110 | 132 | 133 | 130 | 134 | 136 | 146 | 110 | 93 | 94 | 95 |
| 1930 | 91 | 90 | 98 | 97 | 100 | 91 | 106 | 105 | 96 | 84 | 74 | 84 |
| 1931 | 75 | 74 | 67 | 61 | 66 | 62 | 83 | 76 | 77 | 79 | 79 | 82 |
| 1932 | 58 | 57 | 41 | 32 | 43 | 38 | 52 | 51 | 51 | 70 | 71 | 76 |
| 1933 | 69 | 68 | 54 | 54 | 50 | 48 | 60 | 63 | 54 | 79 | 88 | 88 |
| 1934 | 75 | 74 | 65 | 61 | 69 | 69 | 62 | 64 | 64 | 81 | 76 | 91 |
| 1935 | 87 | 87 | 83 | 81 | 83 | 93 | 80 | 85 | 77 | 90 | 93 | 99 |
| 1936 | 103 | 104 | 108 | 114 | 105 | 110 | 104 | 105 | 103 | 100 | 104 | 103 |
| 1937 | 113 | 113 | 122 | 123 | 126 | 123 | 122 | 113 | 114 | 106 | 106 | 102 |
| 1938 | 89 | 87 | 78 | 68 | 82 | 72 | 80 | 90 | 92 | 95 | 85 | 93 |
| 1939 | 109 | 109 | 109 | 114 | 104 | 103 | 113 | 106 | 114 | 109 | 112 | 105 |
| 1940 | 125 | 126 | 139 | 147 | 136 | 145 | 139 | 116 | 124 | 115 | 114 | 98 |
| 1941 | 162 | 168 | 201 | 186 | 221 | 245 | 191 | 134 | 162 | 142 | 152 | 123 |
| 1942 | 199 | 212 | 279 | 199 | 340 | 464 | 214 | 134 | 168 | 158 | 157 | 122 |
| 1943 | 239 | 258 | 360 | 208 | 443 | 735 | 267 | 129 | 173 | 176 | 153 | 114 |
| 1944 | 235 | 252 | 353 | 206 | 439 | 719 | 259 | 125 | 164 | 171 | 148 | 113 |
| 1945 | 203 | 214 | 274 | 183 | 343 | 487 | 204 | 109 | 163 | 166 | 146 | 117 |
| 1946 | 170 | 177 | 192 | 150 | 240 | 232 | 157 | 131 | 192 | 165 | 162 | 122 |
| 1947 | 187 | 194 | 220 | 195 | 277 | 230 | 187 | 143 | 206 | 172 | 163 | 116 |
| January | 189 | 196 | 221 | 192 | 277 | 229 | 203 | 142 | 219 | 176 | 172 | 116 |
| February | 189 | 197 | 222 | 191 | 277 | 233 | 208 | 147 | 219 | 176 | 173 | 120 |
| March | 190 | 198 | 225 | 196 | 281 | 239 | 202 | 147 | 218 | 175 | 172 | 122 |
| April | 187 | 194 | 222 | 195 | 276 | 237 | 197 | 144 | 211 | 172 | 166 | 116 |
| May | 185 | 191 | 218 | 197 | 273 | 225 | 187 | 142 | 200 | 170 | 164 | 113 |
| June | 184 | 191 | 219 | 193 | 275 | 233 | 179 | 142 | 207 | 168 | 155 | 107 |
| July | 176 | 183 | 207 | 181 | 266 | 217 | 171 | 133 | 195 | 163 | 142 | 101 |
| August | 182 | 188 | 210 | 188 | 267 | 213 | 170 | 142 | 199 | 169 | 154 | 116 |
| September | 187 | 192 | 217 | 195 | 276 | 227 | 174 | 140 | 202 | 172 | 160 | 122 |
| October | 190 | 197 | 223 | 204 | 280 | 232 | 179 | 143 | 201 | 176 | 164 | 126 |
| November | 192 | 199 | 224 | 202 | 281 | 234 | 185 | 150 | 201 | 179 | 172 | 124 |
| December | 192 | 198 | 229 | 205 | 288 | 243 | 189 | 153 | 205 | 173 | 163 | 114 |

| Year | Manufactures—continued | | | | | | | | Minerals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nondurable manufactures—Continued | | | | | | | | | | |
| | Manufactured food products | Alcoholic beverages | Tobacco products | Paper and products | Printing and publishing | Petroleum and coal products | Chemical products | Rubber products | Total | Fuels | Metals |
| 1928 | 93 | -------- | 92 | 79 | 96 | 87 | 78 | 98 | 99 | 95 | 120 |
| 1929 | 101 | -------- | 96 | 85 | 104 | 96 | 89 | 100 | 107 | 103 | 134 |
| 1930 | 100 | -------- | 93 | 79 | 97 | 89 | 87 | 78 | 93 | 91 | 102 |
| 1931 | 90 | -------- | 87 | 74 | 88 | 80 | 78 | 72 | 80 | 82 | 68 |
| 1932 | 79 | -------- | 79 | 65 | 74 | 69 | 68 | 64 | 67 | 72 | 36 |
| 1933 | 83 | -------- | 80 | 76 | 75 | 74 | 76 | 77 | 76 | 80 | 51 |
| 1934 | 88 | 74 | 87 | 75 | 80 | 79 | 83 | 86 | 80 | 83 | 58 |
| 1935 | 89 | 89 | 90 | 86 | 89 | 85 | 89 | 93 | 86 | 89 | 73 |
| 1936 | 98 | 109 | 99 | 98 | 99 | 97 | 99 | 107 | 99 | 99 | 102 |
| 1937 | 103 | 108 | 103 | 107 | 109 | 108 | 112 | 104 | 112 | 109 | 127 |
| 1938 | 101 | 96 | 102 | 95 | 96 | 100 | 96 | 83 | 97 | 99 | 86 |
| 1939 | 108 | 98 | 106 | 114 | 106 | 110 | 112 | 113 | 106 | 105 | 113 |
| 1940 | 113 | 101 | 109 | 123 | 112 | 120 | 130 | 123 | 117 | 114 | 134 |
| 1941 | 127 | 117 | 120 | 150 | 127 | 135 | 176 | 163 | 125 | 122 | 148 |
| 1942 | 134 | 118 | 131 | 142 | 115 | 147 | 278 | 172 | 129 | 125 | 148 |
| 1943 | 145 | 117 | 133 | 139 | 111 | 185 | 384 | 228 | 132 | 132 | 126 |
| 1944 | 152 | 144 | 125 | 139 | 101 | 247 | 324 | 234 | 140 | 145 | 113 |
| 1945 | 150 | 178 | 136 | 139 | 108 | 236 | 284 | 215 | 137 | 143 | 101 |
| 1946 | 149 | 191 | 156 | 145 | 127 | 173 | 236 | 225 | 134 | 142 | 88 |
| 1947 | 157 | 190 | 160 | 158 | 144 | 193 | 251 | 226 | 149 | 155 | 117 |

## No. 926.—Industrial Production—Indexes, by Groups: 1928 to 1947—Con.

| Year and month | Manufactures—continued | | | | | | | | Minerals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nondurable manufactures—Continued | | | | | | | | | | |
| | Manufactured food products | Alcoholic beverages | Tobacco products | Paper and products | Printing and publishing | Petroleum and coal products | Chemical products | Rubber products | Total | Fuels | Metals |
| 1947 | | | | | | | | | | | |
| January | 161 | 241 | 158 | 156 | 138 | 180 | 251 | 247 | 146 | 151 | 117 |
| February | 156 | 223 | 168 | 157 | 140 | 185 | 251 | 246 | 146 | 150 | 122 |
| March | 157 | 208 | 158 | 159 | 142 | 185 | 251 | 239 | 148 | 153 | 117 |
| April | 158 | 189 | 160 | 156 | 141 | 179 | 251 | 234 | 143 | 144 | 136 |
| May | 155 | 162 | 142 | 161 | 142 | 184 | 253 | 220 | 151 | 156 | 124 |
| June | 154 | 159 | 159 | 160 | 146 | 191 | 250 | 216 | 148 | 153 | 122 |
| July | 155 | 164 | 156 | 146 | 139 | 195 | 251 | 207 | 140 | 144 | 117 |
| August | 157 | 176 | 160 | 158 | 145 | 201 | 249 | 210 | 150 | 155 | 117 |
| September | 158 | 198 | 163 | 159 | 144 | 203 | 248 | 217 | 153 | 160 | 111 |
| October | 156 | 229 | 175 | 163 | 152 | 204 | 248 | 223 | 155 | 162 | 107 |
| November | 158 | 219 | 169 | 165 | 152 | 205 | 251 | 225 | 155 | 163 | 109 |
| December | 158 | 167 | 149 | 158 | 146 | 208 | 255 | 230 | 156 | 162 | 117 |

Source: Board of Governors of the Federal Reserve System. Figures published monthly in Federal Reserve Bulletin.

## No. 927.—Manufactures—Prime Movers, Motors, and Generators, by Number and Rated Capacity: 1899 to 1939

[See headnote, table 922]

| Kind | 1899 | 1909 | 1919 | 1929 | 1939 |
|---|---|---|---|---|---|
| Number of establishments reporting power equipment | [1] 131,309 | [1] 181,994 | [1] 219,398 | 190,091 | [2] 179,674 |
| Prime movers, horsepower | [3] 9,633,215 | [4] 16,393,467 | 19,432,157 | 19,328,309 | 21,239,195 |
| Electric motors driven by purchased energy, horsepower | 178,176 | 1,669,226 | 8,965,406 | 21,793,762 | 29,213,085 |
| Prime movers: | | | | | |
| Steam engines: | | | | | |
| Number | [5] 127,145 | [5] 148,001 | 110,609 | 62,395 | 42,538 |
| Horsepower | [5] 7,999,241 | [5] 13,806,053 | 13,346,169 | 9,157,755 | 6,533,429 |
| Steam turbines: | | | | | |
| Number | ([6]) | ([6]) | 5,655 | 8,883 | 12,631 |
| Horsepower | ([6]) | ([6]) | 3,098,698 | 7,409,748 | 11,295,872 |
| Diesel and semi-Diesel engines: | | | | | |
| Number | ([6]) | ([6]) | ([6]) | ([6]) | 5,311 |
| Horsepower | ([6]) | ([6]) | ([6]) | ([6]) | 630,181 |
| Other internal-combustion engines: | | | | | |
| Number | [6] 14,231 | [6] 33,866 | [6] 30,080 | [6] 10,991 | 10,278 |
| Horsepower | [6] 132,961 | [6] 739,736 | [6] 1,223,296 | [6] 1,203,303 | 1,176,044 |
| Hydroturbines and water wheels: | | | | | |
| Number | [7] 23,078 | [7] 21,226 | [7] 13,952 | 6,511 | 3,854 |
| Horsepower | [7] 1,453,821 | [7] 1,819,465 | [7] 1,763,994 | 1,557,503 | 1,603,669 |
| Electric generators, kilowatt rating | ([8]) | ([8]) | ([8]) | 7,591,999 | 9,658,828 |
| Electric motors, total horsepower | 475,342 | 4,582,689 | 15,612,644 | 33,844,131 | 45,291,319 |
| Driven by purchased energy: | | | | | |
| Number | ([8]) | 193,898 | 954,916 | 2,655,142 | 4,138,287 |
| Horsepower | 178,176 | 1,669,226 | 8,965,406 | 21,793,762 | 29,213,085 |
| Driven by energy generated in plant: | | | | | |
| Number | 16,317 | 180,791 | 465,519 | 829,959 | 1,224,478 |
| Horsepower | 297,166 | 2,913,463 | 6,647,238 | 12,050,369 | 16,078,234 |

[1] Because of change from $500 to $5,000 in minimum-value-of-products limit, "Number of establishments reporting power equipment" figures for 1919 and earlier years are not comparable with those for 1929 and 1939. This change did not, however, materially impair comparableness of figures for other items in this table.
[2] Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.
[3] Includes 47,192 horsepower reported as other owned power, not distributed by type of prime mover.
[4] Includes 28,213 horsepower reported as other owned power, not distributed by type of prime mover.
[5] Figures for "Steam engines" include data for "Steam turbines," not reported separately.
[6] Figures for "Other internal-combustion engines" include data for "Diesel and semi-Diesel engines," not reported separately.
[7] Includes data for water motors.
[8] Not available.

Source: Dept. of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures, 1939.

## No. 928.—Manufactures—Rated Capacity of Prime Movers, Motors, and Generators, and Consumption of Electric Energy, by Geographic Divisions and by Industry Groups: 1939

| Geographic division and industry group | Establishments: Number | Establishments: Number reporting power equipment | Prime movers, horsepower | Generators, kilowatt rating | Electric motors, horsepower: Total | Electric motors, horsepower: Driven by purchased energy | Electric motors, horsepower: Driven by plant energy | Electric energy (millions of kilowatt-hours): Generated in plant | Sold | Purchased |
|---|---|---|---|---|---|---|---|---|---|---|
| **United States** | **184,230** | [1] **179,674** | **21,239,195** | **9,658,828** | **45,291,319** | **29,213,085** | **16,078,234** | **28,751** | **2,922** | **45,040** |
| New England | 16,136 | 15,733 | 1,968,574 | 1,045,303 | 3,867,593 | 2,518,491 | 1,349,102 | 2,380 | 98 | 3,386 |
| Middle Atlantic | 56,291 | 54,922 | 5,080,350 | 2,077,345 | 11,542,265 | 7,606,740 | 3,935,525 | 5,592 | 882 | 12,950 |
| East North Central | 40,415 | 39,825 | 6,423,434 | 3,130,324 | 15,592,605 | 9,610,304 | 5,982,301 | 9,416 | 980 | 10,883 |
| West North Central | 14,947 | 14,772 | 828,385 | 372,094 | 2,103,829 | 1,487,058 | 616,771 | 1,047 | 157 | 2,051 |
| South Atlantic | 17,317 | 16,666 | 2,759,673 | 1,433,118 | 4,737,398 | 2,897,014 | 1,840,384 | 5,389 | 413 | 5,694 |
| East South Central | 7,275 | 6,962 | 1,093,164 | 402,845 | 1,904,465 | 1,305,852 | 598,613 | 1,418 | 79 | 3,787 |
| West South Central | 10,021 | 9,804 | 1,433,406 | 458,217 | 1,689,754 | 1,050,992 | 638,762 | 1,367 | 85 | 1,961 |
| Mountain | 4,011 | 3,869 | 530,589 | 226,342 | 799,562 | 528,576 | 270,986 | 608 | 119 | 1,065 |
| Pacific | 17,817 | 17,121 | 1,121,620 | 513,240 | 3,053,848 | 2,208,058 | 845,790 | 1,534 | 109 | 3,263 |
| Food and kindred products | 51,448 | 50,972 | 1,985,395 | 720,413 | 4,652,156 | 3,656,029 | 996,127 | 1,470 | 80 | 4,998 |
| Tobacco manufactures | 765 | 751 | 49,665 | 31,512 | 80,661 | 50,846 | 29,815 | 53 | 4 | 66 |
| Textile-mill products and other fiber manufactures | 6,444 | 6,236 | 1,441,513 | 899,354 | 3,184,229 | 2,228,977 | 955,252 | 1,774 | 172 | 5,202 |
| Apparel and other finished products made from fabrics and similar materials | 20,206 | 18,779 | 24,194 | 14,050 | 231,806 | 220,271 | 11,535 | 12 | 1 | 342 |
| Lumber and timber basic products | 11,520 | 9,842 | 1,687,664 | 531,935 | 1,709,125 | 916,470 | 792,655 | 896 | 185 | 526 |
| Furniture and finished lumber products | 8,457 | 8,394 | 406,360 | 181,084 | 940,288 | 634,436 | 305,852 | 192 | 5 | 418 |
| Paper and allied products | 3,279 | 3,237 | 2,792,900 | 1,546,870 | 3,498,419 | 1,336,303 | 2,162,116 | 6,347 | 212 | 3,258 |
| Printing, publishing, and allied industries | 24,878 | 24,809 | 53,679 | 33,088 | 763,903 | 717,994 | 45,909 | 50 | 3 | 813 |
| Chemicals and allied products | 9,203 | 9,130 | 2,106,028 | 1,103,147 | 2,932,044 | 1,681,652 | 1,250,392 | 4,433 | 176 | 5,554 |
| Products of petroleum and coal | 989 | 977 | 1,389,421 | 409,210 | 1,770,365 | 1,018,891 | 751,474 | 1,646 | 115 | 1,909 |
| Rubber products | 595 | 579 | 288,170 | 167,248 | 983,332 | 701,757 | 281,575 | 508 | 5 | 1,082 |
| Leather and leather products | 3,508 | 3,448 | 150,166 | 88,972 | 418,122 | 309,866 | 108,256 | 136 | 21 | 287 |
| Stone, clay, and glass products | 7,024 | 6,908 | 947,183 | 517,256 | 2,991,046 | 2,089,488 | 901,558 | 1,627 | 34 | 3,259 |
| Iron and steel and their products, except machinery | 8,994 | 8,911 | 5,344,511 | 1,877,701 | 12,348,399 | 7,277,940 | 5,070,459 | 5,949 | 1,364 | 7,651 |
| Nonferrous metals and their products | 5,600 | 5,558 | 671,692 | 412,526 | 1,553,990 | 1,212,772 | 341,218 | 1,474 | 312 | 4,794 |
| Electrical machinery | 2,014 | 1,997 | 354,449 | 248,697 | 1,016,877 | 664,874 | 352,003 | 470 | 53 | 1,015 |
| Machinery (except electrical) | 9,506 | 9,459 | 434,109 | 253,494 | 2,746,416 | 2,177,888 | 568,528 | 353 | 11 | 1,643 |
| Automobiles and automobile equipment | 1,133 | 1,069 | 853,672 | 502,339 | 2,231,363 | 1,393,294 | 838,069 | 1,175 | 128 | 1,421 |
| Transportation equipment except automobiles | 968 | 959 | 131,924 | 60,641 | 826,261 | 574,739 | 251,522 | 67 | 4 | 419 |
| Miscellaneous industries | 7,699 | 7,659 | 126,500 | 59,291 | 412,517 | 348,598 | 63,919 | 119 | 37 | 383 |

[1] Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 929.—Industrial Power Requirements of Manufacturing and Extracting Industries: 1939 to 1946

[Based on reports filed by more than 5,000 manufacturing, industrial, and other establishments consuming over 85 percent of the total energy used by such establishments. Use for 1946 was estimated. Data have been adjusted to census coverage based on 1939 Census of Manufactures and 1939 Census of Mineral Industries]

[In millions of kilowatt-hours]

| INDUSTRY | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 |
|---|---|---|---|---|---|---|---|---|
| **Total** | 79,044 | 92,390 | 113,932 | 133,899 | 158,525 | 158,751 | 143,162 | 133,682 |
| **Manufacturing industries, total** | 70,518 | 82,661 | 103,109 | 120,844 | 143,963 | 144,319 | 129,183 | 120,280 |
| Food and kindred products | 6,386 | 6,532 | 7,315 | 7,905 | 8,561 | 8,724 | 8,988 | 9,603 |
| Tobacco manufactures | 115 | 126 | 140 | 145 | 160 | 164 | 177 | 176 |
| Textile-mill products | 6,800 | 7,394 | 9,119 | 9,794 | 9,377 | 8,816 | 8,436 | 8,895 |
| Apparel and other finished products | 357 | 420 | 514 | 554 | 605 | 539 | 661 | 658 |
| Lumber and timber basic products | 1,245 | 1,424 | 1,582 | 1,686 | 1,630 | 1,462 | 1,464 | 1,601 |
| Furniture and finished lumber products | 605 | 679 | 830 | 845 | 886 | 867 | 882 | 977 |
| Paper and allied products | 9,097 | 10,006 | 11,185 | 11,270 | 10,985 | 11,038 | 11,445 | 12,154 |
| Printing and publishing | 859 | 930 | 1,025 | 1,042 | 1,075 | 1,101 | 1,161 | 1,213 |
| Chemicals and allied products | 9,747 | 12,602 | 16,397 | 21,671 | 28,684 | 29,163 | 24,590 | 21,565 |
| Products of petroleum and coal | 3,438 | 3,844 | 4,358 | 4,621 | 5,229 | 6,243 | 6,539 | 6,385 |
| Rubber products | 1,584 | 1,652 | 2,073 | 1,754 | 2,137 | 2,494 | 2,683 | 3,015 |
| Leather and leather products | 402 | 416 | 523 | 559 | 556 | 556 | 579 | 587 |
| Stone, clay, and glass products | 4,851 | 5,301 | 6,547 | 6,968 | 6,070 | 5,100 | 5,400 | 6,627 |
| Iron and steel and their products | 12,246 | 14,810 | 18,703 | 20,316 | 22,364 | 23,290 | 21,702 | 19,406 |
| Nonferrous metals and their products | 5,954 | 7,805 | 10,663 | 15,375 | 23,495 | 20,755 | 14,912 | 11,811 |
| Electrical machinery | 1,432 | 1,817 | 2,522 | 2,999 | 3,542 | 3,658 | 3,385 | 2,955 |
| Machinery, except electrical | 1,985 | 2,549 | 3,634 | 4,816 | 5,811 | 5,861 | 5,136 | 4,796 |
| Automobiles and automobile equipment | 2,467 | 3,042 | 3,668 | 3,454 | 4,572 | 4,662 | 3,774 | 4,245 |
| Transportation equipment | 482 | 796 | 1,648 | 4,277 | 7,291 | 8,909 | 6,418 | 2,782 |
| Miscellaneous industries | 466 | 516 | 663 | 793 | 933 | 917 | 852 | 830 |
| **Government manufacturing industries, total** | 441 | 614 | 929 | 1,918 | 2,886 | 3,082 | 2,673 | 1,701 |
| Shipbuilding and ship repairing | 180 | 250 | 414 | 735 | 986 | 1,155 | 1,108 | 957 |
| Arsenal and ordnance products | 90 | 133 | 319 | 809 | 1,109 | 1,100 | 826 | 267 |
| Miscellaneous government products | 171 | 231 | 196 | 374 | 791 | 827 | 739 | 477 |
| **Extracting industries, total** | 8,085 | 9,115 | 9,894 | 11,137 | 11,676 | 11,350 | 11,306 | 11,701 |
| Metal mining | 2,895 | 3,340 | 3,697 | 4,164 | 4,227 | 3,819 | 3,424 | 3,503 |
| Coal mining | 3,525 | 3,938 | 4,181 | 4,856 | 5,168 | 5,238 | 5,382 | 5,546 |
| Nonmetallic mining and quarrying | 828 | 939 | 1,131 | 1,230 | 1,346 | 1,348 | 1,501 | 1,646 |
| Crude petroleum and natural gas production | 837 | 898 | 885 | 887 | 935 | 945 | 998 | 1,006 |

Source: Federal Power Commission; annual report, Industrial Electric Power in the United States, 1939–1946.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939

[Figures do not represent exactly numbers of wage earners, values of products, etc., assignable to classes of commodities from which industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to its product of chief value, although in many cases a single establishment manufactures two or more classes of commodities. See also general note, p. 822]

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **All industries, total** | 1939 | 184,230 | 7,886,567 | 9,089,941 | 32,160,107 | 56,843,025 | 24,682,918 |
| | 1937 | 166,794 | 8,569,231 | 10,112,883 | 35,539,333 | 60,712,872 | 25,173,539 |
| | 1935 | 167,916 | 7,203,794 | 7,311,329 | 26,441,145 | 44,993,699 | 18,552,553 |
| | 1929 | 206,663 | 8,369,705 | 10,884,919 | [2]37,402,606 | 67,994,041 | 30,591,435 |
| **Food and kindred products, total** | 1939 | 51,448 | 823,693 | 913,985 | 7,062,039 | 10,618,026 | 3,555,987 |
| | 1937 | 48,763 | 890,503 | 981,409 | 7,924,135 | 11,294,890 | 3,370,755 |
| | 1935 | 48,982 | 800,108 | 804,159 | 6,738,854 | 9,543,015 | 2,804,162 |
| | 1929 | 55,325 | 740,937 | 895,713 | [2]8,318,856 | 11,658,705 | 3,339,848 |
| **Meat products, total** | 1939 | 3,387 | 147,263 | 185,213 | 2,510,514 | 3,002,639 | 492,125 |
| Meat packing, wholesale | 1939 | 1,478 | 119,853 | 161,524 | 2,226,539 | 2,648,326 | 421,787 |
| Custom slaughtering, wholesale | 1939 | 40 | 640 | 689 | 478 | 1,933 | 1,455 |
| Sausages, prepared meats, and other meat products—not made in meat-packing establishments | 1939 | 1,067 | 11,277 | 13,473 | 165,045 | 208,048 | 43,003 |
| Sausage casings—not made in meat-packing establishments | 1939 | 37 | 987 | 882 | 3,709 | 6,015 | 2,305 |
| Poultry dressing and packing, wholesale | 1939 | 765 | 14,506 | 8,645 | 114,743 | 138,318 | 23,575 |
| **Dairy products, total** | 1939 | 9,535 | 50,756 | 54,539 | 870,023 | 1,153,560 | 283,537 |
| Creamery butter | 1939 | 3,506 | 17,953 | 18,379 | 418,752 | 492,221 | 73,470 |
| Cheese | 1939 | 2,682 | 5,009 | 5,156 | 91,440 | 108,207 | 16,767 |
| Condensed and evaporated milk | 1939 | 562 | 9,705 | 11,234 | 163,523 | 209,756 | 46,233 |
| Ice cream and ices | 1939 | 2,734 | 15,711 | 17,344 | 145,924 | 285,807 | 139,883 |
| Special dairy products | 1939 | 51 | 2,378 | 2,427 | 50,384 | 57,569 | 7,185 |
| **Canned and preserved foods, total** | 1939 | 3,053 | 134,471 | 88,741 | 520,630 | 838,126 | 317,496 |
| Canned fish, crustacea, and mollusks | 1939 | 214 | 15,735 | 7,228 | 40,022 | 65,456 | 25,434 |
| Cured fish | 1939 | 114 | 1,893 | 1,670 | 10,972 | 15,615 | 4,643 |
| Canned and dried fruits and vegetables (including canned soups) | 1939 | 2,007 | 98,022 | 65,235 | 356,281 | 587,343 | 231,063 |
| Preserves, jams, jellies, and fruit butters | 1939 | 171 | 3,717 | 3,126 | 26,682 | 38,026 | 11,344 |
| Pickled fruits and vegetables and vegetable sauces and seasonings | 1939 | 377 | 9,908 | 7,393 | 42,619 | 72,637 | 30,019 |
| Salad dressings | 1939 | 134 | 2,556 | 2,434 | 37,873 | 48,942 | 11,069 |
| Quick-frozen foods | 1939 | 36 | 2,640 | 1,656 | 6,183 | 10,107 | 3,925 |
| **Grain-mill products, total** | 1939 | 3,746 | 50,682 | 56,606 | 914,504 | 1,240,464 | 325,959 |
| Flour and other grain-mill products | 1939 | 2,143 | 24,771 | 28,370 | 506,062 | 649,943 | 143,882 |
| Prepared feeds (including mineral) for animals and fowls | 1939 | 1,383 | 15,401 | 16,253 | 302,640 | 401,880 | 99,240 |
| Cereal preparations | 1939 | 70 | 7,458 | 9,857 | 58,034 | 128,383 | 70,349 |
| Rice cleaning and polishing | 1939 | 72 | 2,346 | 1,533 | 33,803 | 42,363 | 8,561 |
| Blended and prepared flour made from purchased flour | 1939 | 78 | 706 | 593 | 13,966 | 17,894 | 3,928 |
| **Bakery products, total** | 1939 | 18,399 | 230,706 | 290,551 | 649,477 | 1,411,817 | 762,340 |
| Bread and other bakery products (except biscuit, crackers, and pretzels) | 1939 | 18,043 | 201,533 | 262,002 | 567,427 | 1,211,024 | 643,597 |
| Biscuit, crackers, and pretzels | 1939 | 356 | 29,173 | 28,550 | 82,049 | 200,793 | 118,743 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.

## No 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Food, etc.**—Continued | | | | | | | |
| **Sugar, total** | 1939 | 190 | 28,760 | 31,131 | 441,845 | 557,793 | 115,947 |
| Cane sugar—except refineries | 1939 | 78 | 4,217 | 2,573 | 23,017 | 33,527 | 10,510 |
| Cane-sugar refining | 1939 | 27 | 14,133 | 16,197 | 333,877 | 389,870 | 55,993 |
| Beet sugar | 1939 | 85 | 10,410 | 12,361 | 84,951 | 134,396 | 49,445 |
| **Confectionery and related products, total** | 1939 | 1,318 | 58,831 | 52,082 | 251,825 | 457,563 | 205,738 |
| Candy and other confectionery products | 1939 | 1,252 | 49,740 | 41,085 | 170,736 | 297,762 | 127,026 |
| Chocolate and cocoa products | 1939 | 39 | 6,464 | 7,711 | 63,460 | 99,018 | 35,559 |
| Chewing gum | 1939 | 27 | 2,627 | 3,286 | 17,630 | 60,783 | 43,153 |
| **Beverages, total** | 1939 | 5,745 | 67,777 | 95,293 | 432,143 | 1,088,340 | 656,198 |
| Nonalcoholic beverages | 1939 | 4,504 | 21,265 | 20,345 | 153,935 | 365,779 | 211,844 |
| Malt liquors | 1939 | 605 | 36,088 | 62,231 | 162,897 | 526,077 | 363,180 |
| Malt | 1939 | 52 | 1,459 | 2,593 | 39,296 | 58,479 | 19,183 |
| Wines | 1939 | 301 | 2,056 | 2,023 | 19,387 | 32,782 | 13,395 |
| Liquors, distilled | 1939 | 135 | 4,091 | 4,885 | 28,384 | 56,080 | 27,696 |
| Liquors, rectified or blended | 1939 | 148 | 2,818 | 3,216 | 28,245 | 49,144 | 20,899 |
| **Miscellaneous food preparations and kindred products, total** | 1939 | 6,075 | 54,447 | 59,828 | 471,077 | 867,724 | 396,647 |
| Baking powder, yeast, and other leavening compounds | 1939 | 47 | 2,334 | 3,654 | 14,462 | 31,775 | 17,312 |
| Cooking and other edible fats and oils, not elsewhere classified | 1939 | 56 | 4,672 | 5,397 | 154,358 | 186,252 | 31,895 |
| Oleomargarine—not made in meat-packing establishments | 1939 | 18 | 984 | 1,295 | 21,734 | 34,102 | 12,367 |
| Corn sirup, corn sugar, corn oil, and starch | 1939 | 35 | 6,764 | 10,586 | 66,916 | 119,408 | 52,493 |
| Flavoring extracts and flavoring sirups, not elsewhere classified | 1939 | 477 | 3,589 | 3,764 | 50,168 | 139,902 | 89,734 |
| Vinegar and cider | 1939 | 132 | 1,059 | 877 | 4,266 | 7,506 | 3,240 |
| Ice, manufactured | 1939 | 3,975 | 15,912 | 17,692 | 26,010 | 130,166 | 104,156 |
| Macaroni, spaghetti, vermicelli, and noodles | 1939 | 328 | 6,013 | 5,383 | 26,929 | 46,153 | 19,224 |
| Food preparations, not elsewhere classified | 1939 | 1,007 | 13,120 | 11,181 | 106,234 | 172,459 | 66,225 |
| **Tobacco manufactures, total** | 1939 | 765 | 87,525 | 68,500 | 972,037 | 1,322,189 | 350,152 |
| | 1937 | 852 | 92,158 | 70,291 | 947,628 | 1,272,688 | 325,059 |
| | 1935 | 890 | 90,543 | 59,448 | 809,025 | 1,093,400 | 284,375 |
| | 1929 | 1,788 | 116,119 | 94,579 | [2] 429,272 | 1,246,242 | [3] |
| Cigarettes | 1939 | 35 | 27,426 | 26,068 | 811,068 | 1,037,748 | 226,679 |
| Cigars | 1939 | 598 | 50,897 | 34,240 | 79,249 | 160,754 | 81,505 |
| Tobacco (chewing and smoking) and snuff | 1939 | 132 | 9,202 | 8,193 | 81,719 | 123,687 | 41,968 |
| **Textile-mill products and other fiber manufactures, total**[4] | 1939 | 6,444 | 1,082,602 | 908,379 | 2,108,926 | 3,930,678 | 1,821,752 |
| | 1937 | 6,096 | 1,138,219 | 974,256 | 2,314,647 | 4,100,958 | 1,786,311 |
| **Cotton manufactures, total** | 1939 | 1,248 | 409,317 | 292,536 | 595,394 | 1,168,171 | 572,777 |
| Cotton broad woven goods | 1939 | 661 | 312,249 | 225,175 | 431,023 | 869,354 | 438,331 |
| Cotton narrow fabrics | 1939 | 163 | 13,318 | 11,776 | 22,934 | 48,501 | 25,566 |
| Cotton yarn | 1939 | 349 | 70,452 | 45,055 | 114,741 | 198,940 | 84,199 |
| Cotton thread | 1939 | 75 | 13,298 | 10,529 | 26,695 | 51,376 | 24,681 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[3] No comparable figure available as the internal-revenue tax is included in value of products but not in cost of materials, etc.
[4] No comparable figures available for 1929 and 1935.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Textiles, etc.—Continued** | | | | | | | |
| **Rayon and silk manufactures, total** | **1939** | **829** | **119,821** | **93,343** | **270,331** | **441,900** | **171,569** |
| Rayon broad woven goods—regular factories or jobbers engaging contractors | 1939 | 196 | 65,432 | 53,435 | 177,443 | 272,714 | 95,271 |
| Rayon broad woven goods—contract factories | 1939 | 79 | 4,313 | 3,120 | 627 | 5,307 | 4,680 |
| Rayon narrow fabrics | 1939 | 120 | 5,999 | 4,755 | 9,014 | 20,516 | 11,503 |
| Rayon yarn and thread, spun or thrown—regular factories or jobbers engaging contractors | 1939 | 52 | 5,930 | 3,997 | 18,627 | 26,471 | 7,844 |
| Rayon throwing and spinning—contract factories | 1939 | 32 | 2,423 | 1,480 | 592 | 3,066 | 2,474 |
| Silk broad woven goods—regular factories or jobbers engaging contractors | 1939 | 82 | 8,754 | 7,606 | 21,639 | 35,732 | 14,094 |
| Silk broad woven goods—contract factories | 1939 | 37 | 1,096 | 725 | 132 | 1,102 | 970 |
| Silk narrow fabrics | 1939 | 100 | 4,309 | 3,852 | 4,823 | 13,133 | 8,310 |
| Silk yarn and thread spun or thrown—regular factories or jobbers engaging contractors | 1939 | 53 | 9,191 | 6,736 | 34,027 | 48,005 | 13,978 |
| Silk throwing and spinning—contract factories | 1939 | 78 | 12,374 | 7,638 | 3,408 | 15,853 | 12,446 |
| **Woolen and worsted manufactures, total** | **1939** | **722** | **149,915** | **143,494** | **451,400** | **735,905** | **284,505** |
| Woolen and worsted manufactures—regular factories or jobbers engaging contractors | 1939 | 583 | 140,022 | 133,488 | 422,349 | 685,312 | 262,962 |
| Woolen and worsted manufactures—contract factories | 1939 | 76 | 6,072 | 6,061 | 2,097 | 13,157 | 11,059 |
| Dyeing and finishing woolen and worsted | 1939 | 63 | 3,821 | 3,945 | 26,953 | 37,437 | 10,484 |
| **Knit goods, total** | **1939** | **2,089** | **236,628** | **202,763** | **357,396** | **714,429** | **357,032** |
| Hosiery—full-fashioned | 1939 | 499 | 97,200 | 100,775 | 121,123 | 277,170 | 156,047 |
| Hosiery—seamless | 1939 | 433 | 61,852 | 41,862 | 66,575 | 138,665 | 72,090 |
| Knitted cloth | 1939 | 229 | 10,917 | 10,166 | 44,206 | 68,663 | 24,457 |
| Knitted outerwear (except knit gloves)—regular factories or jobbers engaging contractors | 1939 | 476 | 18,440 | 15,518 | 58,111 | 97,641 | 39,530 |
| Knitted outerwear (except knit gloves)—contract factories | 1939 | 233 | 4,109 | 3,198 | 769 | 6,550 | 5,780 |
| Knitted underwear | 1939 | 199 | 38,536 | 27,405 | 61,614 | 113,353 | 51,739 |
| Knitted gloves | 1939 | 20 | 5,574 | 3,839 | 4,998 | 12,386 | 7,387 |
| **Dyeing and finishing textiles, except woolen and worsted, total** | **1939** | **580** | **63,048** | **65,596** | **150,310** | **294,850** | **144,539** |
| Dyeing and finishing cotton, rayon, silk, and linen textiles | 1939 | 468 | 60,237 | 61,745 | 140,472 | 271,167 | 130,695 |
| Cloth sponging and miscellaneous special finishing | 1939 | 112 | 2,811 | 3,852 | 9,838 | 23,682 | 13,844 |
| **Carpets, rugs, and other floor coverings, total** | **1939** | **162** | **38,892** | **46,165** | **105,672** | **239,953** | **134,282** |
| Carpets and rugs, wool | 1939 | 43 | 25,590 | 30,144 | 61,066 | 140,338 | 79,272 |
| Carpet yarn, woolen and worsted | 1939 | 18 | 3,137 | 3,500 | 11,869 | 19,983 | 8,113 |
| Carpets, rugs, and mats made from such materials as paper fiber, grass, jute, flax, sisal, cotton, cocoa fiber, and rags | 1939 | 84 | 3,137 | 2,116 | 4,368 | 9,758 | 5,391 |
| Linoleum, asphalted-felt-base and other hard-surface floor coverings, not elsewhere classified | 1939 | 17 | 7,028 | 10,406 | 28,369 | 69,875 | 41,506 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Textiles, etc.**—Continued | | | | | | | |
| **Hats, except cloth and millinery, total** | 1939 | 254 | 23,639 | 24,272 | 53,094 | 101,256 | 48,163 |
| Hat bodies and hats, fur-felt | 1939 | 43 | 9,928 | 11,837 | 16,988 | 39,501 | 22,513 |
| Hat bodies and hats, wool-felt | 1939 | 12 | 4,421 | 4,210 | 8,174 | 16,010 | 7,836 |
| Hats, straw | 1939 | 11 | 488 | 438 | 727 | 1,549 | 822 |
| Hatters' fur | 1939 | 37 | 1,893 | 1,579 | 7,256 | 10,956 | 3,701 |
| Finishing of men's and boys' hats of fur-felt, wool-felt, and straw | 1939 | 151 | 6,909 | 6,207 | 19,949 | 33,240 | 13,291 |
| Finishing of men's and boys' hats of fur-felt | 1939 | 115 | 4,587 | 4,267 | 15,199 | 24,078 | 8,878 |
| Finishing of men's and boys' hats of wool-felt | 1939 | 10 | 151 | 147 | 656 | 981 | 325 |
| Finishing of men's and boys' hats of straw | 1939 | 26 | 2,171 | 1,793 | 4,094 | 8,181 | 4,087 |
| **Miscellaneous textile goods, total** | 1939 | 560 | 41,342 | 40,209 | 125,329 | 234,213 | 108,885 |
| Felt goods, wool, hair, and jute (except woven felts and hat bodies and hats) | 1939 | 37 | 3,346 | 3,857 | 13,048 | 23,574 | 10,526 |
| Lace goods | 1939 | 63 | 7,254 | 8,107 | 8,785 | 24,138 | 15,353 |
| Batting, padding, and wadding; upholstery filling | 1939 | 124 | 4,504 | 4,120 | 16,921 | 30,213 | 13,292 |
| Processed waste and recovered wool fibers—regular factories or jobbers engaging contractors | 1939 | 126 | 4,225 | 3,370 | 22,234 | 31,525 | 9,291 |
| Processed waste and recovered wool fibers—contract factories | 1939 | 27 | 619 | 564 | 245 | 1,449 | 1,204 |
| Artificial leather and oilcloth | 1939 | 36 | 3,976 | 5,391 | 25,250 | 43,434 | 18,184 |
| Linen goods | 1939 | 9 | 1,735 | 1,496 | 3,351 | 6,298 | 2,947 |
| Jute goods (except felt) | 1939 | 22 | 3,586 | 3,118 | 7,783 | 16,897 | 9,114 |
| Cordage and twine | 1939 | 116 | 12,096 | 10,185 | 27,711 | 56,686 | 28,974 |
| **Apparel and other finished products made from fabrics and similar materials, total**[2] | 1939 | 20,206 | 751,377 | 654,402 | 1,943,677 | 3,325,015 | 1,381,338 |
| | 1937 | 16,277 | 692,526 | 600,108 | 1,889,062 | 3,132,760 | 1,243,699 |
| **Men's and boys' tailored clothing, total** | 1939 | 2,449 | 137,487 | 139,728 | 334,557 | 598,273 | 263,716 |
| Men's and boys' suits, coats, and overcoats (except work clothing)—made in inside factories or by jobbers engaging contractors | 1939 | 1,371 | 89,031 | 96,044 | 329,609 | 536,613 | 207,004 |
| Men's and boys' suits, coats, and overcoats (except work clothing)—made in contract factories | 1939 | 1,078 | 48,456 | 43,684 | 4,948 | 61,660 | 56,713 |
| **Men's and boys' furnishings, work and sport garments, total** | 1939 | 1,770 | 166,945 | 105,578 | 287,692 | 489,939 | 202,247 |
| Men's and boys' shirts (except work shirts), collars, and nightwear—made in inside factories or by jobbers engaging contractors | 1939 | 449 | 57,082 | 37,323 | 107,492 | 181,174 | 73,682 |
| Men's and boys' shirts (except work shirts), collars, and nightwear—made in contract factories | 1939 | 141 | 13,371 | 7,619 | 1,147 | 11,192 | 10,045 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] No comparable figures available for 1929 and 1935.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Apparel, etc.**—Continued | | | | | | | |
| Men's and boys' underwear—made in inside factories or by jobbers engaging contractors | 1939 | 44 | 5,332 | 3,032 | 10,096 | 15,598 | 5,502 |
| Men's and boys' underwear—made in contract factories | 1939 | 10 | 1,211 | 697 | 182 | 1,095 | 913 |
| Trousers (semidress), wash suits, and washable service apparel | 1939 | 297 | 19,541 | 12,841 | 34,813 | 60,985 | 26,172 |
| Work shirts | 1939 | 87 | 13,449 | 7,269 | 21,419 | 35,672 | 14,253 |
| Work clothing (except work shirts), sport garments (except leather), and other men's and boys' apparel, not elsewhere classified | 1939 | 742 | 56,959 | 36,797 | 112,544 | 184,223 | 71,679 |
| **Men's neckwear, total** | 1939 | 381 | 9,603 | 7,346 | 26,597 | 46,393 | 19,795 |
| Men's neckwear—made in inside factories or by jobbers engaging contractors | 1939 | 347 | 8,686 | 6,796 | 26,452 | 45,405 | 18,953 |
| Men's neckwear—made in contract factories | 1939 | 34 | 917 | 550 | 145 | 988 | 842 |
| **Men's and boys' hats and caps, and hat and cap materials, total** | 1939 | 325 | 4,179 | 3,620 | 8,652 | 16,293 | 7,641 |
| Men's and boys' hats and caps (except felt and straw) | 1939 | 270 | 3,383 | 2,877 | 5,711 | 11,605 | 5,894 |
| Hat and cap materials; trimmings, etc. | 1939 | 55 | 796 | 743 | 2,940 | 4,687 | 1,747 |
| **Women's and misses' outer clothing, total** | 1939 | 6,257 | 207,642 | 204,130 | 597,554 | 1,015,757 | 418,203 |
| Women's and misses' blouses and waists—made in inside factories or by jobbers engaging contractors | 1939 | 170 | 4,604 | 3,910 | 24,540 | 36,419 | 11,879 |
| Women's and misses' blouses and waists—made in contract factories | 1939 | 132 | 5,109 | 3,483 | 337 | 5,311 | 4,974 |
| Women's and misses' dresses (except house dresses)—made in inside factories or by jobbers engaging contractors | 1939 | 1,426 | 53,996 | 61,652 | 284,628 | 441,325 | 156,697 |
| Women's and misses' dresses (except house dresses)—made in contract factories | 1939 | 1,490 | 49,742 | 46,748 | 3,301 | 64,936 | 61,635 |
| House dresses, uniforms, and aprons—made in inside factories or by jobbers engaging contractors | 1939 | 487 | 27,833 | 17,638 | 64,683 | 104,446 | 39,763 |
| House dresses, uniforms, and aprons—made in contract factories | 1939 | 255 | 10,961 | 6,368 | 490 | 9,252 | 8,762 |
| Coats, suits, and skirts (except fur coats)—made in inside factories or by jobbers engaging contractors | 1939 | 1,120 | 24,048 | 33,561 | 194,095 | 281,146 | 87,051 |
| Coats, suits, and skirts (except fur coats)—made in contract factories | 1939 | 846 | 21,405 | 22,856 | 2,544 | 32,851 | 30,307 |
| Women's and misses' clothing not elsewhere classified—made in inside factories or by jobbers engaging contractors | 1939 | 231 | 6,281 | 5,387 | 22,652 | 35,759 | 13,108 |
| Women's and misses' clothing not elsewhere classified—made in contract factories | 1939 | 100 | 3,703 | 2,528 | 284 | 4,311 | 4,027 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Apparel, etc.—Continued** | | | | | | | |
| **Women's accessories except millinery, total** | 1939 | 1,064 | 58,952 | 43,597 | 143,125 | 248,786 | 105,662 |
| Women's, children's, and infants' underwear and nightwear of knitted fabrics | 1939 | 139 | 6,398 | 4,373 | 14,855 | 24,608 | 9,754 |
| Women's, children's, and infants' underwear and nightwear of cotton and flannelette woven fabrics | 1939 | 174 | 11,349 | 7,462 | 21,944 | 37,184 | 15,240 |
| Women's, children's, and infants' underwear and nightwear of silk and rayon woven fabrics | 1939 | 372 | 20,509 | 14,349 | 59,021 | 90,628 | 31,606 |
| Corsets and allied garments | 1939 | 272 | 18,765 | 15,734 | 40,105 | 84,418 | 44,313 |
| Women's neckwear, scarfs, etc | 1939 | 107 | 1,931 | 1,678 | 7,200 | 11,948 | 4,748 |
| **Millinery** | 1939 | 1,050 | 24,298 | 26,060 | 48,236 | 105,601 | 57,365 |
| **Children's and infants' outerwear, total** | 1939 | 574 | 23,804 | 19,176 | 52,862 | 96,484 | 43,622 |
| Children's dresses—made in inside factories or by jobbers engaging contractors | 1939 | 182 | 10,646 | 8,064 | 24,835 | 46,742 | 21,907 |
| Children's dresses—made in contract factories | 1939 | 114 | 4,487 | 2,599 | 211 | 3,842 | 3,630 |
| Children's coats—made in inside factories or by jobbers engaging contractors | 1939 | 108 | 2,130 | 3,008 | 17,162 | 24,971 | 7,809 |
| Children's coats—made in contract factories | 1939 | 45 | 1,181 | 1,325 | 204 | 1,947 | 1,743 |
| Children's and infants' wear not elsewhere classified—made in inside factories or by jobbers engaging contractors | 1939 | 103 | 4,365 | 3,503 | 10,378 | 17,942 | 7,564 |
| Children's and infants' wear not elsewhere classified—made in contract factories | 1939 | 22 | 995 | 678 | 73 | 1,041 | 968 |
| **Fur coats and other fur garments, accessories, and trimmings** | 1939 | 2,175 | 13,111 | 23,403 | 107,752 | 168,032 | 60,280 |
| **Miscellaneous apparel, total** | 1939 | 971 | 38,288 | 29,456 | 94,917 | 159,598 | 64,681 |
| Belts (apparel) regardless of material | 1939 | 245 | 4,222 | 4,067 | 9,900 | 19,076 | 9,176 |
| Work gloves and mittens: Cloth, cloth and leather combined | 1939 | 94 | 8,901 | 5,663 | 11,928 | 22,457 | 10,530 |
| Dress and semidress gloves and mittens: Cloth and cloth and leather combined | 1939 | 49 | 3,396 | 2,298 | 3,638 | 7,703 | 4,065 |
| Handkerchiefs—made in inside factories or by jobbers engaging contractors | 1939 | 60 | 3,734 | 2,627 | 13,835 | 20,419 | 6,585 |
| Handkerchiefs—made in contract factories | 1939 | 20 | 1,105 | 693 | 165 | 1,182 | 1,017 |
| Suspenders, garters, and other goods made from purchased elastic material | 1939 | 66 | 2,558 | 1,956 | 8,918 | 15,483 | 6,565 |
| Robes, lounging garments, and dressing gowns | 1939 | 264 | 7,377 | 5,701 | 25,684 | 39,830 | 14,146 |
| Raincoats and other waterproof garments (except oiled cotton) | 1939 | 76 | 2,323 | 1,874 | 7,083 | 11,304 | 4,221 |
| Clothing, leather and sheep-lined | 1939 | 97 | 4,672 | 4,578 | 13,766 | 22,142 | 8,376 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Apparel, etc.**—Continued | | | | | | | |
| **Embroideries and trimmings, total** | 1939 | 1,431 | 17,828 | 15,567 | 26,152 | 62,677 | 36,525 |
| Embroideries: Schiffli-machine products | 1939 | 398 | 3,750 | 3,248 | 6,129 | 14,122 | 7,993 |
| Embroideries, other than Schiffli-machine products—made in regular factories or by jobbers engaging contractors | 1939 | 54 | 608 | 505 | 671 | 1,686 | 1,015 |
| Embroideries, other than Schiffli-machine products—contract factories | 1939 | 357 | 4,189 | 3,324 | 1,622 | 8,220 | 6,598 |
| Trimmings (not made in textile mills), stamped art goods, and art needlework—made in regular factories or by jobbers engaging contractors | 1939 | 227 | 3,728 | 3,153 | 15,944 | 26,139 | 10,195 |
| Trimmings (not made in textile mills), stamped art goods, and art needlework—contract factories | 1939 | 395 | 5,553 | 5,339 | 1,786 | 12,510 | 10,723 |
| **Miscellaneous fabricated textile products, total** | 1939 | 1,759 | 49,242 | 36,741 | 215,581 | 317,184 | 101,602 |
| Curtains, draperies, and bedspreads—made in regular factories or by jobbers engaging contractors | 1939 | 362 | 15,798 | 9,472 | 47,475 | 70,233 | 22,758 |
| Curtains, draperies, and bedspreads—contract factories | 1939 | 75 | 1,109 | 798 | 260 | 1,679 | 1,419 |
| Housefurnishings (except curtains, draperies, and bedspreads) | 1939 | 472 | 10,623 | 8,059 | 43,973 | 67,521 | 23,548 |
| Textile bags—not made in textile mills | 1939 | 216 | 11,991 | 10,003 | 93,807 | 121,702 | 27,895 |
| Canvas products (except bags) | 1939 | 334 | 3,869 | 3,621 | 13,030 | 24,408 | 11,378 |
| Miscellaneous fabricated textile products not elsewhere classified | 1939 | 300 | 5,852 | 4,789 | 17,037 | 31,640 | 14,604 |
| **Lumber and timber basic products, total** | 1939 | 11,520 | 360,613 | 310,381 | 504,243 | 1,122,058 | 617,815 |
| | 1937 | 10,420 | 387,514 | 339,787 | 512,475 | 1,146,285 | 633,810 |
| | [3] 1935 | 8,734 | 303,527 | 225,253 | 331,548 | 747,886 | 416,338 |
| | [3] 1929 | 17,764 | 509,218 | 538,008 | [2] 715,612 | 1,827,056 | 1,114,444 |
| **Logging camps and logging contractors (not operating sawmills)** | 1939 | 967 | 22,785 | 22,703 | 28,165 | 69,621 | 14,456 |
| **Sawmills, veneer mills, and cooperage - stock mills, including those combined with logging camps and with planing mills** | 1939 | 7,391 | 265,185 | 214,920 | 280,019 | 692,945 | 412,925 |
| **Planing and plywood mills, total** | 1939 | 3,162 | 72,643 | 72,758 | 196,059 | 359,492 | 163,433 |
| Planing mills not operated in conjunction with sawmills | 1939 | 3,076 | 62,838 | 62,815 | 177,735 | 320,614 | 142,879 |
| Plywood mills | 1939 | 86 | 9,805 | 9,943 | 18,325 | 38,879 | 20,554 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[3] Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was included.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Furniture and finished lumber products, total** | 1939 | 8,457 | 293,570 | 274,738 | 640,956 | 1,267,724 | 626,768 |
| | 1937 | 7,559 | 310,449 | 299,212 | 681,387 | 1,317,650 | 636,263 |
| | [5] 1935 | 7,471 | 253,577 | 211,621 | 493,331 | 946,793 | 453,462 |
| | [5] 1929 | 9,125 | 334,171 | 394,910 | [2] 899,832 | 1,792,147 | 892,315 |
| **Household furniture, total** | 1939 | 3,392 | 143,051 | 133,579 | 282,111 | 570,468 | 288,357 |
| Mattresses and bed springs | 1939 | 947 | 18,342 | 19,498 | 60,942 | 113,115 | 52,173 |
| Upholstered household furniture | 1939 | 853 | 29,949 | 30,082 | 65,977 | 128,724 | 62,746 |
| Household furniture except upholstered | 1939 | 1,592 | 94,760 | 83,999 | 155,192 | 328,630 | 173,437 |
| **Office furniture** | 1939 | 152 | 11,776 | 13,674 | 22,570 | 54,750 | 32,180 |
| **Public building and professional furniture, total** | 1939 | 188 | 8,882 | 9,919 | 17,751 | 41,334 | 23,583 |
| Public building furniture | 1939 | 106 | 5,900 | 6,568 | 11,438 | 26,679 | 15,241 |
| Laboratory, hospital, and other professional furniture | 1939 | 82 | 2,982 | 3,351 | 6,314 | 14,655 | 8,342 |
| **Partitions, shelving, cabinet work, and office and store fixtures** | 1939 | 716 | 13,826 | 17,735 | 30,507 | 70,718 | 40,212 |
| **Wooden containers, total** | 1939 | 1,251 | 45,070 | 33,132 | 79,980 | 150,150 | 70,170 |
| Baskets for fruits and vegetables | 1939 | 153 | 8,048 | 4,470 | 5,749 | 14,286 | 8,538 |
| Rattan and willowware (except furniture) and baskets other than vegetable and fruit baskets | 1939 | 47 | 1,377 | 926 | 1,674 | 3,918 | 2,244 |
| Cigar boxes: wooden, part wooden | 1939 | 59 | 3,101 | 2,017 | 2,483 | 6,331 | 3,848 |
| Wooden boxes except cigar boxes | 1939 | 642 | 25,351 | 19,159 | 45,757 | 87,354 | 41,597 |
| Cooperage | 1939 | 350 | 7,193 | 6,560 | 24,318 | 38,261 | 13,943 |
| **Window and door screens, shades, and venetian blinds, total** | 1939 | 709 | 11,270 | 11,203 | 36,918 | 68,260 | 31,342 |
| Window and door screens and weather strip | 1939 | 162 | 2,830 | 2,984 | 7,842 | 15,224 | 7,381 |
| Window shades | 1939 | 273 | 3,261 | 3,411 | 15,410 | 27,071 | 11,661 |
| Venetian blinds | 1939 | 274 | 5,179 | 4,808 | 13,665 | 25,965 | 12,300 |
| **Caskets, coffins, burial cases, and other morticians' goods** | 1939 | 599 | 12,447 | 13,392 | 31,862 | 70,353 | 38,491 |
| **Miscellaneous wood products, total** | 1939 | 1,450 | 47,248 | 42,104 | 139,257 | 241,691 | 102,433 |
| Excelsior | 1939 | 53 | 925 | 700 | 1,382 | 2,987 | 1,606 |
| Cork products | 1939 | 35 | 2,923 | 3,302 | 8,412 | 17,724 | 9,311 |
| Matches | 1939 | 28 | 5,426 | 5,598 | 14,098 | 25,577 | 11,479 |
| Wood preserving | 1939 | 218 | 11,242 | 9,764 | 77,477 | 106,295 | 28,818 |
| Lasts and related products | 1939 | 48 | 1,519 | 1,995 | 2,026 | 6,672 | 4,646 |
| Mirror frames and picture frames | 1939 | 182 | 3,220 | 3,065 | 5,570 | 13,250 | 7,679 |
| Wood products not elsewhere classified | 1939 | 886 | 21,993 | 17,680 | 30,291 | 69,186 | 38,895 |
| **Paper and allied products, total** [4] | 1939 | 3,279 | 264,716 | 309,857 | 1,149,666 | 2,019,568 | 869,902 |
| | *1937* | *3,084* | *266,944* | *310,137* | *1,213,559* | *2,076,425* | *862,866* |
| **Pulp mills and paper and paperboard mills, total** | 1939 | 832 | 137,445 | 175,688 | 676,997 | 1,159,867 | 482,870 |
| Pulp mills | 1939 | 194 | 26,870 | 33,088 | 144,737 | 226,852 | 82,115 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[4] No comparable figures available for 1929 and 1935.
[5] Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was excluded.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Paper, etc.**—Continued | | | | | | | |
| Paper and paperboard mills | 1939 | 638 | 110,575 | 142,600 | 532,261 | 933,016 | 400,755 |
| **Converted paper products, total** | 1939 | 2,433 | 126,570 | 133,350 | 471,146 | 855,874 | 384,728 |
| Coated and glazed paper | 1939 | 140 | 7,450 | 9,384 | 53,628 | 84,387 | 30,759 |
| Envelopes | 1939 | 169 | 8,689 | 9,597 | 24,623 | 50,118 | 25,495 |
| Paper bags, except those made in paper mills | 1939 | 119 | 11,081 | 10,629 | 53,964 | 85,776 | 31,812 |
| Fiber cans, tubes, and similar products | 1939 | 116 | 6,637 | 6,963 | 13,952 | 33,345 | 19,393 |
| Paperboard containers and boxes not elsewhere classified | 1939 | 1,338 | 62,530 | 63,806 | 213,839 | 382,710 | 168,871 |
| Die-cut paper and paperboard, and converted cardboard | 1939 | 121 | 4,354 | 5,454 | 16,069 | 33,264 | 17,194 |
| Wallpaper | 1939 | 46 | 4,054 | 5,333 | 11,696 | 24,969 | 13,273 |
| Converted paper products not elsewhere classified | 1939 | 384 | 21,775 | 22,135 | 83,375 | 161,306 | 77,930 |
| **Pulp goods (pressed, molded)** | 1939 | 14 | 701 | 819 | 1,523 | 3,826 | 2,304 |
| **Printing, publishing, and allied industries, total** | 1939 | 24,878 | 324,535 | 493,616 | 812,008 | 2,578,464 | 1,766,457 |
| | 1937 | 22,674 | 350,952 | 530,214 | 790,227 | 2,576,818 | 1,786,591 |
| | 1935 | 22,505 | 302,643 | 443,923 | 610,694 | 2,157,334 | 1,546,640 |
| | 1929 | 27,211 | 353,964 | 630,506 | 929,172 | 3,144,894 | 2,215,722 |
| **Newspapers, total** | 1939 | 7,309 | 97,251 | 164,718 | 232,492 | 910,189 | 677,697 |
| Newspapers: publishing without printing | 1939 | 431 | 260 | 363 | 5,315 | 11,964 | 6,649 |
| Newspapers: publishing and printing | 1939 | 6,878 | 96,991 | 164,355 | 227,177 | 898,225 | 671,048 |
| **Periodicals, total** | 1939 | 2,558 | 21,421 | 33,553 | 174,297 | 468,847 | 294,550 |
| Periodicals: publishing without printing | 1939 | 1,958 | 436 | 550 | 116,664 | 266,832 | 150,167 |
| Periodicals: publishing and printing | 1939 | 600 | 20,985 | 33,003 | 57,633 | 202,015 | 144,382 |
| **Books, total** | 1939 | 1,396 | 22,773 | 33,638 | 79,289 | 236,752 | 157,463 |
| Books: publishing without printing | 1939 | 556 | 135 | 196 | 35,548 | 109,579 | 74,031 |
| Books: publishing and printing | 1939 | 150 | 6,091 | 8,405 | 11,729 | 39,517 | 27,789 |
| Books: printing without publishing | 1939 | 690 | 16,547 | 25,038 | 32,012 | 87,656 | 55,644 |
| **General commercial (job) printing** | 1939 | 9,595 | 96,039 | 132,945 | 191,734 | 515,436 | 323,702 |
| **Lithographing and photolithographing (including preparation of stones or plates and dry transfers)** | 1939 | 749 | 26,000 | 37,929 | 57,686 | 154,395 | 96,708 |
| **Greeting cards (except hand-painted)** | 1939 | 109 | 7,522 | 7,264 | 15,490 | 39,715 | 24,225 |
| **Gravure, rotogravure, and rotary photogravure (including preparation of plates)** | 1939 | 24 | 2,623 | 5,436 | 7,243 | 18,615 | 11,372 |
| **Bookbinding and related industries** | 1939 | 1,133 | 25,690 | 29,063 | 30,429 | 102,591 | 72,163 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Printing, etc.—Continued** | | | | | | | |
| **Service industries for the printing trades, total** | 1939 | 2,005 | 25,216 | 49,069 | 23,347 | 131,925 | 108,577 |
| Machine and hand typesetting (including advertisement typesetting) | 1939 | 641 | 6,244 | 10,425 | 3,052 | 25,096 | 22,044 |
| Engraving (steel, copperplate, and wood); plate printing | 1939 | 436 | 5,353 | 7,156 | 6,029 | 22,164 | 16,134 |
| Photoengraving not done in printing establishments (including preparation of plates) | 1939 | 694 | 9,207 | 22,568 | 7,362 | 55,619 | 48,258 |
| Electrotyping and stereotyping, not done in printing establishments | 1939 | 234 | 4,412 | 8,920 | 6,904 | 29,045 | 22,141 |
| **Chemicals and allied products, total**[4] | 1939 | 9,203 | 287,136 | 356,176 | 1,854,140 | 3,733,658 | 1,879,517 |
| | 1937 | 8,618 | 313,539 | 377,487 | 1,942,250 | 3,718,406 | 1,776,156 |
| **Paints, varnishes, and colors, total** | 1939 | 1,255 | 28,173 | 39,816 | 288,959 | 518,847 | 229,887 |
| Paints, varnishes, and lacquers | 1939 | 1,166 | 22,334 | 31,702 | 245,571 | 434,961 | 189,390 |
| Colors and pigments | 1939 | 89 | 5,839 | 8,114 | 43,388 | 83,886 | 40,497 |
| **Animal and vegetable oils (not including lubricants or cooking and salad oils), total** | 1939 | 663 | 21,678 | 16,924 | 269,801 | 337,328 | 67,526 |
| Cottonseed oil, cake, meal, and linters | 1939 | 447 | 15,191 | 8,939 | 138,764 | 171,476 | 32,712 |
| Linseed oil, cake, and meal | 1939 | 25 | 2,120 | 3,193 | 56,456 | 68,012 | 11,556 |
| Soybean oil, cake, and meal | 1939 | 47 | 1,481 | 1,889 | 34,435 | 43,947 | 9,512 |
| Essential oils | 1939 | 14 | 255 | 357 | 6,861 | 9,814 | 2,953 |
| Fish and other marine oils, cake, and meal | 1939 | 76 | 1,523 | 1,308 | 8,907 | 13,622 | 4,715 |
| Vegetable and animal oils, not elsewhere classified | 1939 | 54 | 1,108 | 1,237 | 24,378 | 30,457 | 6,079 |
| **Drugs, medicines, toilet preparations, insecticides, and related products, total** | 1939 | 2,407 | 37,766 | 38,935 | 218,158 | 605,895 | 387,737 |
| Drugs and medicines (including drug grinding) | 1939 | 1,094 | 22,386 | 23,898 | 115,273 | 364,985 | 249,713 |
| Perfumes, cosmetics, and other toilet preparations | 1939 | 539 | 10,363 | 9,644 | 58,510 | 147,466 | 88,956 |
| Insecticides, fungicides, and related industrial and household chemical compounds | 1939 | 774 | 5,017 | 5,393 | 44,376 | 93,444 | 49,068 |
| **Soap and glycerin** | 1939 | 264 | 13,624 | 18,801 | 161,003 | 302,634 | 141,632 |
| **Rayon and allied products** | 1939 | 30 | 48,332 | 60,030 | 78,460 | 247,066 | 168,606 |
| **Hardwood distillation, charcoal, and naval stores, total** | 1939 | 823 | 5,094 | 3,731 | 23,848 | 38,319 | 14,471 |
| Hardwood distillation and charcoal manufacture | 1939 | 43 | 1,770 | 1,531 | 3,928 | 6,843 | 2,915 |
| Wood naval stores | 1939 | 25 | 2,353 | 1,867 | 6,524 | 14,114 | 7,590 |
| Gum naval stores (processing but not gathering or warehousing) | 1939 | 755 | 971 | 334 | 13,396 | 17,362 | 3,966 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Chemicals, etc.—Continued** | | | | | | | |
| **Fertilizers** | 1939 | 764 | 18,744 | 13,678 | 128,630 | 185,684 | 57,055 |
| **Industrial chemicals, total** | 1939 | 1,340 | 88,801 | 134,380 | 514,682 | 1,169,061 | 654,379 |
| Tanning materials, natural dyestuffs, mordants, assistants, and sizes | 1939 | 158 | 2,716 | 3,003 | 23,860 | 42,165 | 18,304 |
| Coal-tar products, crude and intermediate | 1939 | 49 | 2,338 | 3,598 | 25,557 | 42,917 | 17,360 |
| Plastic materials | 1939 | 38 | 6,966 | 9,840 | 40,564 | 77,653 | 37,090 |
| Explosives | 1939 | 80 | 7,242 | 10,964 | 26,860 | 71,053 | 44,193 |
| Salt | 1939 | 40 | 3,737 | 4,235 | 9,569 | 27,530 | 17,961 |
| Compressed and liquefied gases—not made in petroleum refineries or in natural gasoline plants | 1939 | 379 | 3,960 | 5,854 | 13,532 | 53,365 | 39,833 |
| Bone black, carbon black, and lampblack | 1939 | 53 | 1,574 | 2,001 | 6,103 | 14,627 | 8,523 |
| Chemicals not elsewhere classified | 1939 | 543 | 60,268 | 94,884 | 368,636 | 839,750 | 471,115 |
| **Miscellaneous chemical products, total** | 1939 | 1,657 | 24,924 | 29,882 | 170,600 | 328,824 | 158,225 |
| Printing ink | 1939 | 206 | 2,572 | 3,701 | 25,166 | 49,132 | 23,966 |
| Ammunition | 1939 | 13 | 4,264 | 4,953 | 13,004 | 29,091 | 16,087 |
| Cleaning and polishing preparations, blackings, and dressings | 1939 | 637 | 5,128 | 5,667 | 37,670 | 89,767 | 52,097 |
| Glue and gelatin | 1939 | 80 | 3,039 | 3,942 | 18,794 | 34,332 | 15,538 |
| Grease and tallow (except lubricating greases) | 1939 | 310 | 5,201 | 6,509 | 38,115 | 58,226 | 20,111 |
| Lubricating oils and greases—not made in petroleum refineries | 1939 | 232 | 2,128 | 2,713 | 28,931 | 49,057 | 20,126 |
| Fireworks | 1939 | 59 | 1,158 | 937 | 1,853 | 4,628 | 2,775 |
| Candles | 1939 | 28 | 840 | 817 | 3,338 | 6,329 | 2,991 |
| Bluing | 1939 | 13 | 55 | 56 | 386 | 1,142 | 756 |
| Mucilage, paste, and other adhesives, except glue and rubber cement | 1939 | 64 | 285 | 290 | 2,141 | 4,169 | 2,028 |
| Writing ink | 1939 | 15 | 254 | 247 | 1,202 | 2,951 | 1,749 |
| **Products of petroleum and coal, total**[4] | 1939 | 989 | 105,428 | 173,702 | 2,278,486 | 2,953,973 | 675,488 |
| | 1937 | 739 | 113,606 | 186,003 | 2,418,665 | 3,038,203 | 619,538 |
| **Petroleum refining** | 1939 | 485 | 72,840 | 128,214 | 1,933,264 | 2,461,127 | 527,862 |
| **Coke and byproducts, total** | 1939 | 112 | 21,693 | 32,481 | 261,217 | 346,978 | 85,761 |
| Beehive coke | 1939 | 29 | 685 | 701 | 3,567 | 4,781 | 1,214 |
| Oven coke and coke-oven byproducts | 1939 | 83 | 21,008 | 31,780 | 257,651 | 342,197 | 84,547 |
| **Paving and roofing materials, total** | 1939 | 360 | 10,485 | 12,522 | 80,433 | 140,581 | 60,148 |
| Paving blocks and paving mixtures: asphalt, creosoted wood, and composition | 1939 | 231 | 2,437 | 2,681 | 19,027 | 32,754 | 13,728 |
| Roofing, built-up and roll; asphalt shingles; roof coating (except paint) | 1939 | 129 | 8,048 | 9,841 | 61,046 | 107,827 | 46,421 |
| **Fuel briquets** | 1939 | 32 | 410 | 485 | 3,571 | 5,287 | 1,716 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Rubber products, total** | 1939 | 595 | 120,740 | 161,410 | 496,174 | 902,329 | 406,155 |
| | 1937 | 478 | 129,818 | 171,305 | 514,260 | 883,033 | 368,772 |
| | 1935 | 466 | 114,681 | 133,715 | 368,811 | 677,659 | 308,848 |
| | 1929 | 525 | 149,148 | 207,306 | [2] 578,678 | 1,117,460 | 538,783 |
| **Tires and inner tubes** | 1939 | 53 | 54,115 | 89,774 | 349,557 | 580,929 | 231,372 |
| **Rubber boots and shoes** | 1939 | 13 | 14,861 | 16,802 | 20,749 | 49,981 | 29,231 |
| **Miscellaneous rubber industries, total** | 1939 | *529* | *51,764* | *54,835* | *125,868* | *271,419* | *145,551* |
| Reclaimed rubber | 1939 | 10 | 1,072 | 1,477 | 2,992 | 6,894 | 3,902 |
| Rubber products not elsewhere classified | 1939 | 519 | 50,692 | 53,358 | 122,875 | 264,525 | 141,650 |
| **Leather and leather products, total** | 1939 | 3,508 | 327,663 | 294,290 | 805,911 | 1,389,514 | 583,602 |
| | [7] *1937* | *3,249* | *328,551* | *303,027* | *891,229* | *1,476,009* | *583,780* |
| | [7] 1937 | 3,364 | 331,955 | 311,293 | 899,469 | 1,491,513 | 592,043 |
| | 1935 | 3,506 | 310,755 | 279,740 | 694,293 | 1,224,421 | 530,139 |
| | 1929 | 4,285 | 318,472 | 359,461 | [2] 1,132,022 | 1,906,201 | 774,179 |
| **Leather, tanned, curried, and finished, total** | 1939 | 446 | 47,252 | 56,783 | 229,044 | 346,438 | 117,394 |
| Leather: tanned, curried, and *finished—regular factories or* jobbers engaging contractors | 1939 | 335 | 41,795 | 50,570 | 222,741 | 329,728 | 106,987 |
| Leather: tanned, curried, and finished—contract factories | 1939 | 111 | 5,457 | 6,213 | 6,303 | 16,710 | 10,407 |
| **Leather products, total** | 1939 | 3,062 | 280,411 | 237,507 | 576,868 | 1,043,076 | 466,208 |
| Industrial leather belting and packing leather | 1939 | 190 | 2,337 | 2,861 | 13,596 | 24,410 | 10,814 |
| Boot and shoe cut stock and findings | 1939 | 520 | 18,845 | 17,196 | 90,487 | 129,399 | 38,912 |
| Footwear (except rubber) | 1939 | 1,070 | 218,028 | 183,658 | 388,439 | 734,673 | 346,234 |
| Leather gloves and mittens | 1939 | 233 | 9,995 | 7,409 | 13,763 | 26,831 | 13,068 |
| Suitcases, briefcases, bags, trunks, and other luggage | 1939 | 329 | 8,326 | 7,919 | 19,215 | 36,591 | 17,377 |
| Women's pocketbooks, hand bags, and purses | 1939 | 286 | 14,048 | 11,239 | 32,878 | 55,807 | 22,929 |
| Small leather goods | 1939 | 118 | 3,615 | 2,751 | 7,372 | 14,334 | 6,962 |
| Saddlery, harness, and whips | 1939 | 156 | 2,755 | 2,388 | 6,877 | 12,118 | 5,242 |
| Leather goods not elsewhere classified | 1939 | 160 | 2,462 | 2,087 | 4,241 | 8,911 | 4,671 |
| **Stone, clay, and glass products, total** | 1939 | 7,024 | 287,522 | 329,560 | 528,792 | 1,440,151 | 911,359 |
| | 1937 | 6,196 | 306,211 | 355,451 | 538,160 | 1,428,411 | 890,251 |
| | 1935 | 5,846 | 237,979 | 230,881 | 365,476 | 970,738 | 605,262 |
| | 1929 | 8,677 | 334,894 | 441,564 | [2] 546,942 | 1,604,470 | 1,057,528 |
| **Flat glass** | 1939 | 37 | 16,739 | 24,009 | 33,849 | 102,389 | 68,540 |
| **Glassware, pressed or blown, total** | 1939 | 192 | 53,083 | 64,296 | 86,927 | 255,589 | 168,662 |
| Glass containers | 1939 | 77 | 25,753 | 34,181 | 59,893 | 158,272 | 98,378 |
| Tableware, pressed or blown glass and glassware not elsewhere classified | 1939 | 115 | 27,330 | 30,115 | 27,033 | 97,317 | 70,284 |
| **Mirrors and other glass products made of purchased glass** | 1939 | 557 | 10,012 | 10,615 | 26,455 | 49,886 | 23,432 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[7] 1937 figures in *italics* are comparable with 1939 statistics and exclude data for 115 establishments which have been transferred to another group. No adjustment was made for other years. 1937 statistics in roman type are comparable with statistics for earlier years.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Stone, clay, etc.**—Continued | | | | | | | |
| **Cement** | 1939 | 160 | 23,801 | 31,588 | 68,530 | 192,611 | 124,082 |
| **Structural clay products, total** | 1939 | 1,206 | 56,745 | 54,831 | 47,630 | 165,750 | 118,119 |
| Brick and hollow structural tile | 1939 | 800 | 29,069 | 26,349 | 22,470 | 78,153 | 55,684 |
| Terra cotta | 1939 | 12 | 1,099 | 1,299 | 757 | 3,175 | 2,418 |
| Roofing tile | 1939 | 16 | 628 | 616 | 376 | 1,825 | 1,449 |
| Floor and wall tile (except quarry tile) | 1939 | 49 | 5,681 | 5,931 | 5,142 | 17,659 | 12,517 |
| Sewer pipe and kindred products | 1939 | 65 | 6,406 | 6,818 | 4,628 | 18,296 | 13,668 |
| Clay refractories, including refractory cement (clay) | 1939 | 165 | 12,211 | 12,324 | 13,214 | 42,191 | 28,978 |
| Clay products (except pottery) not elsewhere classified | 1939 | 99 | 1,651 | 1,494 | 1,043 | 4,450 | 3,407 |
| **Pottery and related products, total** | 1939 | 290 | 33,105 | 37,459 | 28,927 | 98,884 | 69,957 |
| Vitreous china plumbing fixtures | 1939 | 25 | 4,534 | 6,316 | 6,982 | 21,979 | 14,997 |
| Hotel china | 1939 | 17 | 4,350 | 4,639 | 1,707 | 9,360 | 7,653 |
| Whiteware | 1939 | 31 | 11,728 | 13,150 | 8,157 | 27,801 | 19,644 |
| Porcelain electrical supplies | 1939 | 42 | 6,018 | 6,530 | 7,144 | 20,817 | 13,673 |
| China firing and decorating (for the trade) | 1939 | 24 | 421 | 426 | 1,119 | 2,334 | 1,215 |
| Pottery products not elsewhere classified | 1939 | 151 | 6,054 | 6,398 | 3,818 | 16,593 | 12,776 |
| **Concrete, gypsum, and plaster products** | 1939 | 2,559 | 39,869 | 42,613 | 114,424 | 257,598 | 143,174 |
| Concrete products | 1939 | 2,040 | 17,363 | 18,770 | 65,685 | 130,393 | 64,709 |
| Gypsum products | 1939 | 68 | 4,936 | 6,666 | 16,694 | 46,242 | 29,548 |
| Mineral wool | 1939 | 58 | 1,885 | 1,821 | 3,535 | 8,238 | 4,703 |
| Wallboard and wall plaster (except gypsum), building insulation (except mineral wool), and floor composition | 1939 | 124 | 6,227 | 6,288 | 14,804 | 35,754 | 20,949 |
| Lime | 1939 | 269 | 9,458 | 9,069 | 13,706 | 36,971 | 23,265 |
| **Monuments, tombstones, cut-stone, and stone products not elsewhere classified** | 1939 | 1,244 | 18,516 | 22,000 | 25,287 | 75,812 | 50,525 |
| **Miscellaneous nonmetallic mineral products, total** | 1939 | 779 | 35,654 | 42,148 | 96,764 | 241,633 | 144,868 |
| Abrasive wheels, stones, paper, cloth, and related products | 1939 | 124 | 7,734 | 10,683 | 26,506 | 71,271 | 44,765 |
| Asbestos products (except steam packing and pipe and boiler covering) | 1939 | 79 | 9,979 | 11,579 | 23,928 | 60,774 | 36,846 |
| Steam and other packing; pipe and boiler covering | 1939 | 134 | 5,907 | 7,190 | 17,608 | 37,170 | 19,562 |
| Natural graphite, ground and refined | 1939 | 6 | 56 | 66 | 852 | 1,251 | 399 |
| Minerals and earths, ground or otherwise treated | 1939 | 237 | 5,858 | 5,750 | 14,660 | 38,903 | 24,244 |
| Sand-lime brick, block and tile | 1939 | 27 | 346 | 414 | 638 | 1,916 | 1,278 |
| Nonclay refractories | 1939 | 46 | 4,792 | 5,316 | 11,598 | 26,906 | 15,308 |
| Statuary and art goods (except stone and concrete), factory production | 1939 | 126 | 983 | 1,150 | 975 | 3,440 | 2,465 |
| **Iron and steel and their products, except machinery, total**[4] | 1939 | 8,994 | 966,367 | 1,313,633 | 3,635,871 | 6,591,530 | 2,955,660 |
| | 1937 | 8,382 | 1,140,929 | 1,619,788 | 4,056,338 | 7,445,350 | 3,389,012 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Iron and steel, etc.—Continued** | | | | | | | |
| **Blast furnaces, steel works, and rolling mills, total** | **1939** | **334** | **388,441** | **598,037** | **2,036,191** | **3,270,822** | **1,234,631** |
| Blast-furnace products | 1939 | 81 | 19,537 | 28,312 | 463,719 | 550,802 | 87,083 |
| Steel works and rolling mills | 1939 | 253 | 368,904 | 569,724 | 1,572,472 | 2,720,020 | 1,147,548 |
| **Iron and steel foundry products, total** | **1939** | **1,482** | **123,045** | **151,738** | **170,169** | **463,716** | **293,547** |
| Gray iron and semisteel castings | 1939 | 1,161 | 58,428 | 70,758 | 78,972 | 209,720 | 130,748 |
| Malleable iron castings | 1939 | 83 | 18,041 | 21,555 | 17,951 | 53,451 | 35,500 |
| Steel castings | 1939 | 164 | 30,088 | 41,942 | 45,232 | 135,466 | 90,234 |
| Cast iron pipe and fittings | 1939 | 74 | 16,488 | 17,483 | 28,014 | 65,079 | 37,065 |
| **Tin cans and other tinware not elsewhere classified** | **1939** | **248** | **31,770** | **36,398** | **249,044** | **372,616** | **123,572** |
| **Wire products** | **1939** | **800** | **54,870** | **68,235** | **180,770** | **348,228** | **167,458** |
| Wire drawn from purchased rods | 1939 | 95 | 21,969 | 29,966 | 99,982 | 176,503 | 76,521 |
| Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills | 1939 | 36 | 2,515 | 2,730 | 5,836 | 12,908 | 7,072 |
| Wirework not elsewhere classified | 1939 | 669 | 30,386 | 35,539 | 74,952 | 158,817 | 83,865 |
| **Cutlery, tools, and hardware, total** | **1939** | **1,196** | **73,664** | **84,057** | **116,121** | **319,455** | **203,334** |
| Cutlery (except aluminum, silver, and plated cutlery) and edge tools | 1939 | 266 | 15,399 | 16,797 | 18,756 | 59,924 | 41,168 |
| Tools (except edge tools, machine tools, files, and saws) | 1939 | 387 | 15,343 | 18,002 | 27,355 | 75,290 | 47,935 |
| Files | 1939 | 22 | 3,205 | 3,839 | 2,453 | 11,294 | 8,841 |
| Saws | 1939 | 87 | 4,072 | 5,198 | 6,784 | 18,471 | 11,686 |
| Hardware not elsewhere classified | 1939 | 434 | 35,645 | 40,221 | 60,772 | 154,476 | 93,704 |
| **Heating apparatus and plumbers' supplies, total** | **1939** | **1,673** | **119,919** | **149,088** | **294,670** | **686,126** | **391,456** |
| Enameled iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware) | 1939 | 259 | 24,605 | 30,769 | 52,630 | 125,578 | 72,948 |
| Oil burners, domestic and industrial | 1939 | 130 | 1,498 | 1,893 | 10,273 | 18,468 | 8,195 |
| Power boilers and associated products | 1939 | 448 | 18,888 | 25,298 | 70,655 | 140,960 | 70,305 |
| Steam and hot-water heating apparatus (including hot-water furnaces) | 1939 | 68 | 8,493 | 9,922 | 17,165 | 45,378 | 28,213 |
| Stoves, ranges, water heaters, and hot-air furnaces (except electric) | 1939 | 449 | 41,701 | 48,069 | 97,475 | 223,427 | 125,952 |
| Steam fittings, regardless of material | 1939 | 181 | 21,815 | 29,630 | 37,667 | 111,986 | 74,318 |
| Heating and cooking apparatus, except electric, not elsewhere classified | 1939 | 138 | 2,919 | 3,508 | 8,805 | 20,330 | 11,525 |
| **Metal stamping, enameling, galvanizing, japanning, and lacquering, total** | **1939** | **963** | **55,551** | **64,352** | **136,284** | **283,599** | **147,315** |
| Vitreous enameled products, including kitchen, household, and hospital utensils | 1939 | 55 | 10,809 | 11,442 | 20,348 | 44,239 | 23,891 |
| Automobile stampings | 1939 | 90 | 8,597 | 11,970 | 21,827 | 47,833 | 26,006 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Iron and steel, etc.**—Continued | | | | | | | |
| Stamped and pressed metal products (except automobile stampings) | 1939 | 655 | 33,112 | 37,535 | 89,141 | 178,395 | 89,254 |
| Enameling, japanning, and lacquering | 1939 | 80 | 1,821 | 2,062 | 2,456 | 6,936 | 4,480 |
| Galvanizing and other coating—carried on in plants not operated in connection with rolling mills | 1939 | 83 | 1,212 | 1,343 | 2,513 | 6,196 | 3,683 |
| **Fabricated structural steel and ornamental metalwork, total** | 1939 | 1,343 | 43,217 | 58,081 | 191,475 | 332,889 | 141,414 |
| Fabricated structural steel and ornamental metalwork, made in plants not operated in connection with rolling mills | 1939 | 1,138 | 35,477 | 47,550 | 172,437 | 284,670 | 112,232 |
| Doors, window sash, frames, molding, and trim (made of metal) | 1939 | 205 | 7,740 | 10,531 | 19,037 | 48,219 | 29,182 |
| **Miscellaneous iron and steel products, total** | 1939 | 955 | 75,890 | 103,648 | 261,147 | 514,080 | 252,933 |
| Bolts, nuts, washers, and rivets—made in plants not operated in connection with rolling mills | 1939 | 155 | 14,331 | 18,333 | 38,709 | 84,118 | 45,409 |
| Forgings, iron and steel—made in plants not operated in connection with rolling mills | 1939 | 207 | 15,372 | 22,652 | 51,974 | 104,883 | 52,910 |
| Wrought pipes, welded and heavy riveted—made in plants not operated in connection with rolling mills | 1939 | 49 | 8,370 | 12,306 | 41,856 | 75,865 | 34,008 |
| Springs, steel (except wire)—made in plants not operated in connection with rolling mills | 1939 | 53 | 2,940 | 4,277 | 12,796 | 23,044 | 10,249 |
| Screw-machine products and wood screws | 1939 | 345 | 16,924 | 22,106 | 32,649 | 82,807 | 50,158 |
| Steel barrels, kegs, and drums | 1939 | 64 | 6,072 | 7,360 | 32,328 | 49,166 | 16,838 |
| Firearms | 1939 | 23 | 5,001 | 6,846 | 3,053 | 17,712 | 14,659 |
| Safes and vaults | 1939 | 16 | 1,236 | 1,580 | 2,413 | 6,084 | 3,671 |
| Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills | 1939 | 43 | 5,644 | 8,178 | 45,369 | 70,401 | 25,032 |
| **Nonferrous metals and their products, total**[4] | 1939 | 5,600 | 228,753 | 299,220 | 1,748,592 | 2,572,854 | 824,263 |
| | 1937 | 5,173 | 255,767 | 336,349 | 1,934,185 | 2,779,961 | 845,776 |
| **Primary smelting and refining of nonferrous metals** | 1939 | 63 | 27,630 | 38,411 | 819,570 | 956,572 | 137,002 |
| **Alloying and rolling and drawing of nonferrous metals, except aluminum** | 1939 | 188 | 38,816 | 56,282 | 280,890 | 445,060 | 164,170 |
| **Secondary smelting and refining of nonferrous metals and alloys, total** | 1939 | 174 | 4,723 | 6,053 | 160,219 | 183,822 | 23,603 |
| Secondary smelting and refining, gold, silver, and platinum | 1939 | 66 | 1,115 | 1,687 | 94,783 | 101,784 | 7,001 |
| Secondary smelting and refining of nonferrous metals, not elsewhere classified | 1939 | 108 | 3,608 | 4,366 | 65,436 | 82,038 | 16,602 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Nonferrous metals, etc.—Con.** | | | | | | | |
| **Clocks and watches, total** | 1939 | 116 | 20,287 | 23,407 | 39,191 | 94,638 | 55,446 |
| Clocks, watches, and materials and parts, except watchcases | 1939 | 74 | 17,878 | 20,467 | 35,204 | 84,846 | 49,642 |
| Watchcases | 1939 | 42 | 2,409 | 2,940 | 3,987 | 9,792 | 5,804 |
| **Jewelry, total** | 1939 | 1,058 | 14,438 | 17,609 | 52,846 | 99,037 | 46,191 |
| Jewelry (precious metals) | 1939 | 886 | 11,358 | 14,243 | 34,597 | 71,419 | 36,822 |
| Jewelers' findings and materials | 1939 | 82 | 2,813 | 2,975 | 14,493 | 22,489 | 7,996 |
| Lapidary work | 1939 | 90 | 267 | 391 | 3,755 | 5,129 | 1,374 |
| **Silverware and plated ware** | 1939 | 150 | 12,105 | 15,304 | 24,787 | 62,771 | 37,984 |
| **Engraving on metal, plating, and polishing, total** | 1939 | 737 | 9,625 | 11,249 | 8,978 | 34,032 | 25,054 |
| Engraving on metal (except for printing purposes) | 1939 | 94 | 1,419 | 1,866 | 1,678 | 5,864 | 4,186 |
| Electroplating, plating, and polishing | 1939 | 643 | 8,206 | 9,383 | 7,300 | 28,168 | 20,868 |
| **Lighting fixtures** | 1939 | 568 | 20,477 | 23,238 | 59,851 | 124,582 | 64,731 |
| **Nonferrous metal products not elsewhere classified, total** | 1939 | 2,546 | 80,652 | 107,665 | 302,258 | 572,341 | 270,082 |
| Nonferrous metal foundries (except aluminum) | 1939 | 600 | 9,699 | 12,210 | 28,703 | 55,637 | 26,934 |
| Aluminum ware, kitchen, hospital, and household (except electrical appliances) | 1939 | 32 | 6,297 | 7,775 | 17,207 | 37,125 | 19,918 |
| Aluminum products (including rolling and drawing and extruding), not elsewhere classified | 1939 | 162 | 17,249 | 25,539 | 106,993 | 169,819 | 62,826 |
| Collapsible tubes | 1939 | 14 | 1,933 | 1,903 | 4,936 | 9,472 | 4,536 |
| Gold and silver leaf and foil | 1939 | 26 | 563 | 470 | 1,096 | 2,109 | 1,013 |
| Tin and other foils (except gold and silver foil) | 1939 | 12 | 1,328 | 1,938 | 10,338 | 19,072 | 8,734 |
| Sheet-metal work not specifically classified | 1939 | 1,262 | 18,749 | 23,079 | 70,981 | 137,341 | 66,360 |
| Nonferrous metal products not elsewhere classified | 1939 | 438 | 24,834 | 34,751 | 62,005 | 141,766 | 79,761 |
| **Electrical machinery, total** | 1939 | 2,014 | 256,467 | 335,820 | 727,436 | 1 727,390 | 999,954 |
| | 1937 | 1,597 | 306,003 | 407,961 | 797,772 | 1,899,905 | 1,102,133 |
| | 1935 | 1,589 | 224,437 | 240,952 | 475,687 | 1,161,403 | 685,716 |
| | 1929 | 1,861 | 343,138 | 474,203 | [2] 1,008,341 | 2,397,765 | 1,389,424 |
| **Electrical equipment for industrial use, total** | 1939 | 727 | 95,130 | 135,354 | 250,618 | 624,941 | 374,323 |
| Wiring devices and supplies | 1939 | 146 | 14,564 | 16,906 | 44,506 | 94,305 | 49,800 |
| Carbon products for the electrical industry, and manufactures of carbon or artificial graphite | 1939 | 31 | 3,189 | 4,484 | 6,681 | 18,376 | 11,694 |
| Electrical measuring instruments | 1939 | 59 | 6,976 | 9,881 | 12,105 | 41,797 | 29,693 |
| Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified | 1939 | 491 | 70,401 | 104,084 | 187,326 | 470,462 | 283,136 |
| **Electrical appliances** | 1939 | 138 | 19,890 | 25,409 | 58,081 | 145,696 | 87,615 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Electrical machinery—Con.** | | | | | | | |
| **Insulated wire and cable** | 1939 | 79 | 15,696 | 18,638 | 70,125 | 120,390 | 50,265 |
| **Automotive electrical equipment** | 1939 | 84 | 17,495 | 24,896 | 42,041 | 109,762 | 67,721 |
| **Electric lamps** | 1939 | 55 | 9,622 | 10,689 | 28,571 | 84,828 | 56,257 |
| **Communication equipment and related products, total** | 1939 | 451 | 75,627 | 91,470 | 194,202 | 467,197 | 272,995 |
| Radios, radio tubes, and phonographs | 1939 | 224 | 43,508 | 47,026 | 145,850 | 275,870 | 130,020 |
| Communication equipment | 1939 | 227 | 32,119 | 44,444 | 48,352 | 191,326 | 142,975 |
| **Electrical products not elsewhere classified, total** | 1939 | 480 | 23,007 | 29,363 | 83,798 | 174,577 | 90,778 |
| Batteries, storage and primary (dry and wet) | 1939 | 221 | 15,034 | 19,209 | 63,177 | 117,583 | 54,406 |
| X-ray and therapeutic apparatus and electronic tubes | 1939 | 84 | 1,959 | 2,744 | 5,755 | 17,945 | 12,190 |
| Electrical products not elsewhere classified | 1939 | 175 | 6,014 | 7,410 | 14,866 | 39,049 | 24,182 |
| **Machinery (except electrical), total** [4] | 1939 | 9,506 | 522,980 | 748,288 | 1,285,211 | 3,254,174 | 1,968,963 |
| | 1937 | 8,368 | 643,522 | 955,996 | 1,571,362 | 3,902,967 | 2,331,604 |
| **Engines and turbines, total** | 1939 | 92 | 18,654 | 27,852 | 63,007 | 135,109 | 72,102 |
| Steam engines, turbines, and water wheels | 1939 | 18 | 3,902 | 6,349 | 9,551 | 24,751 | 15,200 |
| Internal-combustion engines | 1939 | 74 | 14,752 | 21,503 | 53,456 | 110,358 | 56,902 |
| **Agricultural machinery and tractors, total** | 1939 | 347 | 59,081 | 85,074 | 214,896 | 421,847 | 206,950 |
| Tractors | 1939 | 30 | 31,275 | 49,846 | 135,626 | 253,951 | 118,325 |
| Agricultural machinery (except tractors) | 1939 | 317 | 27,806 | 35,229 | 79,270 | 167,895 | 88,625 |
| **Construction, mining, and related machinery, total** | 1939 | 487 | 34,723 | 50,216 | 110,055 | 262,674 | 152,619 |
| Construction and similar machinery (except mining and oil-field machinery and tools) | 1939 | 199 | 17,259 | 25,198 | 63,376 | 140,138 | 76,762 |
| Oil-field machinery and tools | 1939 | 223 | 13,524 | 18,741 | 31,305 | 88,977 | 57,673 |
| Mining machinery and equipment | 1939 | 65 | 4,940 | 6,277 | 15,374 | 33,559 | 18,185 |
| **Metalworking machinery, total** | 1939 | 1,332 | 77,684 | 128,769 | 130,026 | 442,650 | 312,624 |
| Machine tools | 1939 | 200 | 36,624 | 62,333 | 63,866 | 218,045 | 154,179 |
| Machine-tool and other metal-working machinery accessories, metal-cutting and shaping tools, and machinists' precision tools | 1939 | 954 | 25,161 | 41,347 | 31,410 | 125,630 | 94,220 |
| Metalworking machinery and equipment, not elsewhere classified | 1939 | 178 | 15,899 | 25,089 | 34,750 | 98,975 | 64,226 |
| **Special industry machinery, total** | 1939 | 1,346 | 64,678 | 88,791 | 121,456 | 349,508 | 228,051 |
| Food-products machinery | 1939 | 379 | 13,979 | 18,937 | 31,950 | 90,841 | 58,891 |
| Textile machinery | 1939 | 300 | 21,904 | 27,615 | 33,598 | 93,276 | 59,678 |
| Woodworking machinery | 1939 | 130 | 3,622 | 4,657 | 8,292 | 21,804 | 13,312 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Machinery, etc.—Continued** | | | | | | | |
| Paper-mill, pulp-mill, and paper-products machinery | 1939 | 99 | 5,409 | 7,775 | 12,727 | 32,420 | 19,692 |
| Printing-trades machinery and equipment | 1939 | 231 | 9,376 | 14,647 | 15,053 | 55,582 | 40,529 |
| Special industry machinery, not elsewhere classified | 1939 | 207 | 10,388 | 15,161 | 19,836 | 55,785 | 35,949 |
| **General industrial machinery, total** | 1939 | 5,200 | 172,104 | 237,363 | 396,706 | 1,062,931 | 666,225 |
| Measuring and dispensing pumps | 1939 | 38 | 5,054 | 6,751 | 19,020 | 44,286 | 25,267 |
| Pumping equipment and air compressors | 1939 | 337 | 19,180 | 26,208 | 54,204 | 134,941 | 80,737 |
| Elevators, escalators, and conveyors | 1939 | 183 | 8,915 | 13,358 | 25,057 | 64,128 | 39,071 |
| Cars and trucks, industrial | 1939 | 55 | 2,732 | 3,149 | 7,801 | 17,320 | 9,519 |
| Blowers; exhaust and ventilating fans | 1939 | 77 | 3,885 | 5,371 | 11,768 | 28,606 | 16,839 |
| Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks) | 1939 | 68 | 6,692 | 8,874 | 13,177 | 39,684 | 26,507 |
| Mechanical power-transmission equipment | 1939 | 218 | 30,268 | 43,752 | 50,367 | 170,291 | 119,925 |
| Stokers, mechanical, domestic and industrial | 1939 | 61 | 3,549 | 4,789 | 9,857 | 24,545 | 14,688 |
| Machine-shop products, not elsewhere classified | 1939 | 2,125 | 60,717 | 81,660 | 141,493 | 360,334 | 218,841 |
| Industrial machinery, not elsewhere classified | 1939 | 579 | 21,936 | 31,178 | 52,964 | 140,628 | 87,664 |
| Machine-shop repairs | 1939 | 1,459 | 9,176 | 12,273 | 10,998 | 38,166 | 27,169 |
| **Office and store machines, total** | 1939 | 230 | 42,885 | 57,920 | 44,805 | 187,663 | 142,858 |
| Office and store machines, not elsewhere classified | 1939 | 123 | 36,204 | 49,982 | 29,143 | 150,170 | 121,027 |
| Vending, amusement, and other coin-operated machines | 1939 | 51 | 3,842 | 4,632 | 10,675 | 23,143 | 12,468 |
| Scales and balances | 1939 | 56 | 2,839 | 3,306 | 4,988 | 14,350 | 9,363 |
| **Household and service-industry machines, total** | 1939 | 472 | 53,171 | 72,302 | 204,259 | 391,792 | 187,533 |
| Laundry equipment, domestic | 1939 | 42 | 7,466 | 9,277 | 36,365 | 61,601 | 25,236 |
| Commercial laundry, dry-cleaning, and pressing machinery | 1939 | 82 | 2,705 | 3,477 | 8,821 | 21,839 | 13,018 |
| Sewing machines, domestic and industrial | 1939 | 39 | 7,840 | 11,157 | 8,610 | 29,707 | 21,096 |
| Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment and complete air-conditioning units | 1939 | 309 | 35,160 | 48,392 | 150,463 | 278,646 | 128,183 |
| **Automobiles and automobile equipment, total** | 1939 | 1,133 | 398,963 | 646,406 | 2,725,396 | 4,047,873 | 1,322,476 |
| | [3] *1937* | *1,070* | *511,333* | *807,026* | *3,710,919* | *5,292,796* | *1,581,877* |
| | [3] 1937 | 1,067 | 479,341 | 756,081 | 3,669,342 | 5,176,236 | 1,506,894 |
| | 1935 | 946 | 387,801 | 545,414 | 2,819,873 | 3,942,014 | 1,122,141 |
| | 1929 | 1,398 | 447,448 | 733,083 | [2] 3,258,497 | 5,260,723 | 2,002,226 |
| Motor vehicles, motor-vehicle bodies, parts and accessories | 1939 | 1,054 | 397,537 | 644,905 | 2,720,561 | 4,039,931 | 1,319,370 |
| Automobile trailers (for attachment to passenger cars) | 1939 | 79 | 1,426 | 1,501 | 4,835 | 7,942 | 3,107 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

[2] Excludes cost of contract work.

[3] 1937 figures shown in *italics* are comparable with statistics for 1939 and include data for 3 establishments which were originally classified in another group for 1937 and previous years but which have now been reclassified in this group. Roman-type figures for 1937 do not include data for these 3 establishments and are comparable with statistics for earlier years.

No. 930.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

| GROUP OR INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Transportation equipment except automobiles, total [4]** | 1939 | 968 | 157,097 | 239,254 | 411,377 | 882,897 | 471,520 |
| | 1937 | 888 | 150,885 | 221,624 | 448,164 | 852,785 | 404,620 |
| **Railroad, equipment, total** | 1939 | 158 | 30,993 | 44,271 | 129,588 | 215,807 | 86,219 |
| Locomotives (including frames) and parts—railroad, mining and industrial | 1939 | 15 | 6,470 | 9,657 | 25,927 | 47,426 | 21,499 |
| Cars and car equipment—railroad, street, and rapid-transit | 1939 | 143 | 24,523 | 34,615 | 103,661 | 168,382 | 64,721 |
| **Aircraft and parts, including aircraft engines** | 1939 | 125 | 48,638 | 77,488 | 96,250 | 279,497 | 183,247 |
| **Ship and boatbuilding and repairing, total** | 1939 | 608 | 69,241 | 107,371 | 158,374 | 338,272 | 179,898 |
| Shipbuilding and ship repairing | 1939 | 406 | 66,611 | 104,473 | 153,415 | 327,387 | 173,972 |
| Boatbuilding and boat repairing | 1939 | 202 | 2,630 | 2,897 | 4,958 | 10,885 | 5,926 |
| **Motorcycles, bicycles, and parts** | 1939 | 36 | 6,973 | 8,974 | 24,041 | 43,052 | 19,011 |
| **Transportation equipment not elsewhere classified** | 1939 | 41 | 1,252 | 1,150 | 3,124 | 6,269 | 3,145 |
| **Miscellaneous industries, total [4]** | 1939 | 7,699 | 238,827 | 258,325 | 469,167 | 1,162,958 | 693,791 |
| | 1937 | 6,311 | 239,802 | 260,452 | 442,907 | 1,077,573 | 634,666 |
| **Professional and scientific instruments, photographic apparatus, and optical goods, total** | 1939 | 499 | 38,324 | 53,089 | 75,590 | 244,617 | 169,027 |
| Professional and scientific instruments (except surgical and dental) | 1939 | 218 | 9,429 | 13,709 | 17,711 | 61,017 | 43,306 |
| Photographic apparatus and materials and projection equipment (except lenses) | 1939 | 160 | 17,271 | 25,287 | 42,556 | 133,899 | 91,343 |
| Optical instruments and lenses | 1939 | 30 | 1,372 | 1,848 | 1,114 | 4,746 | 3,632 |
| Ophthalmic goods; lenses and fittings | 1939 | 91 | 10,252 | 12,246 | 14,209 | 44,955 | 30,745 |
| **Surgical, medical, and dental instruments, equipment and supplies, total** | 1939 | 541 | 14,339 | 15,352 | 55,874 | 118,997 | 63,123 |
| Surgical and medical instruments | 1939 | 50 | 1,626 | 1,979 | 2,320 | 8,052 | 5,732 |
| Surgical supplies and equipment not elsewhere classified; orthopedic appliances | 1939 | 360 | 8,468 | 8,548 | 40,297 | 79,398 | 39,102 |
| Dental equipment and supplies | 1939 | 131 | 4,245 | 4,825 | 13,258 | 31,547 | 18,289 |
| **Musical instruments and parts, total** | 1939 | 193 | 10,806 | 12,525 | 16,793 | 40,238 | 23,445 |
| Pianos | 1939 | 35 | 5,311 | 6,123 | 10,124 | 20,493 | 10,369 |
| Organs | 1939 | 34 | 989 | 1,054 | 1,297 | 3,421 | 2,124 |
| Piano and organ parts and materials | 1939 | 23 | 1,315 | 1,431 | 1,927 | 4,772 | 2,844 |
| Musical instruments, parts, and materials not elsewhere classified | 1939 | 101 | 3,191 | 3,917 | 3,445 | 11,552 | 8,108 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[4] No comparable figures available for 1929 and 1935.

## No. 930.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1939—Continued

| Group or industry | Census year | Number of establishments | Wage earners (average for the year) | Wages ($1,000) | Cost of materials, etc., fuel, purchased energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture ($1,000)[1] |
|---|---|---|---|---|---|---|---|
| **Miscellaneous industries—Con.** | | | | | | | |
| **Toys and sporting and athletic goods, total** | 1939 | 821 | 36,797 | 34,427 | 67,957 | 151,404 | 83,447 |
| Games and toys (except dolls and children's vehicles) | 1939 | 343 | 15,610 | 12,657 | 24,910 | 55,401 | 30,491 |
| Dolls (except rubber) | 1939 | 84 | 3,052 | 2,837 | 6,418 | 12,132 | 5,715 |
| Children's vehicles | 1939 | 44 | 4,319 | 4,713 | 9,940 | 19,117 | 9,177 |
| Sporting and athletic goods not elsewhere classified | 1939 | 350 | 13,816 | 14,221 | 26,690 | 64,754 | 38,064 |
| **Pens, pencils, stencils, and artists' materials, total** | 1939 | 499 | 12,591 | 12,974 | 31,359 | 76,399 | 45,040 |
| Pens, mechanical pencils, and pen points | 1939 | 70 | 4,463 | 4,329 | 8,700 | 24,881 | 16,181 |
| Pencils (except mechanical) and crayons | 1939 | 40 | 3,779 | 3,434 | 7,279 | 15,860 | 8,580 |
| Hand stamps, stencils, and brands | 1939 | 289 | 2,211 | 2,615 | 3,204 | 10,812 | 7,607 |
| Artists' materials | 1939 | 42 | 397 | 464 | 2,019 | 4,070 | 2,051 |
| Carbon paper and inked ribbons | 1939 | 58 | 1,741 | 2,132 | 10,157 | 20,777 | 10,620 |
| **Buttons** | 1939 | 316 | 10,972 | 8,623 | 12,473 | 29,817 | 17,344 |
| **Costume jewelry and miscellaneous products, total** | 1939 | 863 | 25,256 | 19,743 | 32,117 | 77,472 | 45,355 |
| Costume jewelry and costume novelties (jewelry other than fine jewelry) | 1939 | 289 | 10,808 | 8,755 | 13,830 | 33,922 | 20,092 |
| Jewelry cases and instrument cases | 1939 | 132 | 5,127 | 4,691 | 6,479 | 16,670 | 10,191 |
| Lamp shades | 1939 | 128 | 2,671 | 1,715 | 4,384 | 8,376 | 3,991 |
| Feathers, plumes, and artificial flowers | 1939 | 314 | 6,650 | 4,582 | 7,424 | 18,504 | 11,080 |
| **Miscellaneous industries, not elsewhere classified, total** | 1939 | 3,967 | 89,742 | 101,592 | 177,003 | 424,013 | 247,010 |
| Brooms | 1939 | 320 | 3,787 | 2,757 | 6,052 | 11,842 | 5,790 |
| Brushes | 1939 | 245 | 7,891 | 7,989 | 25,255 | 48,467 | 23,212 |
| Beauty-shop and barber-shop equipment | 1939 | 72 | 1,986 | 1,818 | 5,366 | 13,006 | 7,640 |
| Furs, dressed and dyed | 1939 | 145 | 5,115 | 9,066 | 4,858 | 22,395 | 17,537 |
| Signs, advertising displays, and advertising novelties | 1939 | 1,386 | 17,206 | 20,557 | 32,493 | 87,625 | 55,132 |
| Fabricated plastic products, not elsewhere classified | 1939 | 216 | 15,094 | 17,688 | 31,747 | 71,904 | 40,157 |
| Umbrellas, parasols, and canes | 1939 | 90 | 2,862 | 2,193 | 6,869 | 11,520 | 4,651 |
| Tobacco pipes and cigarette holders | 1939 | 32 | 2,481 | 2,407 | 2,299 | 7,508 | 5,208 |
| Soda fountains, beer dispensing equipment, and related products | 1939 | 51 | 1,590 | 2,389 | 5,968 | 13,660 | 7,692 |
| Models and patterns (except paper patterns) | 1939 | 683 | 5,566 | 9,037 | 4,228 | 22,329 | 18,101 |
| Hair work | 1939 | 42 | 322 | 261 | 739 | 1,401 | 662 |
| Wool pulling | 1939 | 17 | 836 | 1,101 | 9,615 | 13,122 | 3,507 |
| Needles, pins, hooks and eyes, and slide and snap fasteners | 1939 | 58 | 10,403 | 11,804 | 13,485 | 38,155 | 24,670 |
| Fire extinguishers, chemical | 1939 | 28 | 995 | 1,273 | 4,705 | 9,228 | 4,524 |
| Miscellaneous fabricated products not elsewhere classified | 1939 | 582 | 13,608 | 11,252 | 23,322 | 51,849 | 28,527 |

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 931.—Manufactures—Summary, by States: 1939

[See general note, p. 822]

| DIVISION AND STATE | Number of establishments | Salaried officers and employees | Wage earners (average for the year) | Salaries ($1,000) | Wages ($1,000) | Cost of materials, etc., fuel, purchased electric energy, and contract work ($1,000) | Value of products ($1,000) | Value added by manufacture [1] ($1,000) |
|---|---|---|---|---|---|---|---|---|
| **United States** | 184,230 | 1,048,607 | 7,886,567 | 2,540,357 | 9,089,941 | 32,160,107 | 56,843,025 | 24,682,918 |
| **New England** | 16,136 | 120,328 | 953,670 | 284,339 | 1,025,006 | 2,463,320 | 4,891,666 | 2,428,346 |
| Maine | 1,210 | 6,339 | 75,656 | 13,592 | 68,434 | 192,945 | 345,369 | 152,423 |
| New Hampshire | 806 | 4,593 | 55,781 | 10,484 | 52,735 | 132,208 | 237,396 | 105,188 |
| Vermont | 717 | 2,759 | 21,759 | 6,041 | 21,232 | 51,214 | 103,154 | 51,941 |
| Massachusetts | 9,007 | 61,848 | 460,674 | 148,602 | 500,923 | 1,271,452 | 2,459,771 | 1,188,319 |
| Rhode Island | 1,460 | 12,002 | 106,275 | 27,930 | 105,407 | 278,102 | 516,391 | 238,289 |
| Connecticut | 2,936 | 32,787 | 233,525 | 77,690 | 276,274 | 537,399 | 1,229,586 | 692,187 |
| **Middle Atlantic** | 56,291 | 320,253 | 2,249,621 | 812,869 | 2,688,703 | 8,684,136 | 16,039,273 | 7,355,137 |
| New York | 34,506 | 151,392 | 957,854 | 396,693 | 1,163,785 | 3,792,505 | 7,134,400 | 3,341,895 |
| New Jersey | 7,984 | 62,884 | 433,471 | 162,954 | 521,569 | 1,904,834 | 3,428,947 | 1,524,114 |
| Pennsylvania | 13,801 | 105,977 | 858,296 | 253,221 | 1,003,349 | 2,986,797 | 5,475,925 | 2,489,129 |
| **East North Central** | 40,415 | 319,957 | 2,195,479 | 803,593 | 2,950,313 | 9,777,614 | 17,559,905 | 7,782,291 |
| Ohio | 10,070 | 87,692 | 598,397 | 220,750 | 812,676 | 2,459,192 | 4,584,666 | 2,125,474 |
| Indiana | 4,337 | 40,940 | 277,467 | 94,354 | 345,475 | 1,257,436 | 2,227,648 | 970,212 |
| Illinois | 12,980 | 92,327 | 596,476 | 238,215 | 750,239 | 2,593,266 | 4,794,861 | 2,201,595 |
| Michigan | 6,311 | 66,204 | 522,242 | 173,581 | 789,976 | 2,549,819 | 4,348,223 | 1,798,404 |
| Wisconsin | 6,717 | 32,794 | 200,897 | 76,692 | 251,947 | 917,902 | 1,604,507 | 686,605 |
| **West North Central** | 14,947 | 59,885 | 382,201 | 134,287 | 427,457 | 2,452,694 | 3,815,177 | 1,362,483 |
| Minnesota | 4,008 | 12,331 | 79,753 | 28,555 | 96,887 | 535,143 | 845,772 | 310,628 |
| Iowa | 2,670 | 11,501 | 65,314 | 23,532 | 73,466 | 473,737 | 718,532 | 244,795 |
| Missouri | 4,796 | 24,275 | 178,588 | 58,937 | 190,736 | 800,095 | 1,388,056 | 587,962 |
| North Dakota | 350 | 798 | 2,637 | 1,433 | 2,771 | 32,665 | 43,767 | 11,102 |
| South Dakota | 468 | 1,264 | 5,538 | 2,346 | 6,036 | 61,217 | 81,172 | 19,955 |
| Nebraska | 1,161 | 3,642 | 18,807 | 7,500 | 20,624 | 204,437 | 273,525 | 69,087 |
| Kansas | 1,494 | 6,074 | 31,614 | 11,985 | 36,938 | 345,401 | 464,354 | 118,952 |
| **South Atlantic** | 17,317 | 81,403 | 986,521 | 180,715 | 826,413 | 3,156,673 | 5,390,420 | 2,233,747 |
| Delaware | 429 | 2,356 | 20,392 | 6,093 | 21,960 | 59,570 | 114,754 | 55,183 |
| Maryland | 2,893 | 15,526 | 141,643 | 36,778 | 156,783 | 604,505 | 1,027,354 | 422,849 |
| District of Columbia | 497 | 3,572 | 7,877 | 8,548 | 11,772 | 35,558 | 79,875 | 44,317 |
| Virginia | 2,579 | 11,937 | 133,894 | 27,343 | 115,539 | 609,325 | 988,813 | 379,488 |
| West Virginia | 1,130 | 8,058 | 74,989 | 18,600 | 88,487 | 227,062 | 441,840 | 214,779 |
| North Carolina | 3,225 | 15,467 | 270,207 | 34,270 | 199,290 | 875,377 | 1,421,330 | 545,952 |
| South Carolina | 1,331 | 6,196 | 126,983 | 13,203 | 86,616 | 227,666 | 397,513 | 169,847 |
| Georgia | 3,150 | 12,361 | 157,804 | 24,105 | 108,083 | 394,087 | 677,403 | 283,316 |
| Florida | 2,083 | 5,930 | 52,732 | 11,776 | 37,883 | 123,523 | 241,539 | 118,016 |
| **East South Central** | 7,275 | 32,725 | 357,827 | 70,157 | 291,019 | 1,130,137 | 1,958,726 | 828,588 |
| Kentucky | 1,640 | 7,924 | 62,794 | 18,018 | 61,902 | 293,629 | 481,030 | 187,400 |
| Tennessee | 2,289 | 12,446 | 131,874 | 27,824 | 109,662 | 407,746 | 728,088 | 320,342 |
| Alabama | 2,052 | 8,700 | 116,800 | 17,669 | 92,018 | 327,287 | 574,671 | 247,384 |
| Mississippi | 1,294 | 3,655 | 46,359 | 6,647 | 27,437 | 101,475 | 174,937 | 73,462 |
| **West South Central** | 10,021 | 36,558 | 262,580 | 78,996 | 238,265 | 1,744,122 | 2,567,821 | 823,700 |
| Arkansas | 1,178 | 3,180 | 36,256 | 6,210 | 24,577 | 92,777 | 160,167 | 67,390 |
| Louisiana | 1,861 | 8,436 | 71,218 | 18,043 | 55,084 | 365,179 | 565,265 | 200,086 |
| Oklahoma | 1,606 | 5,414 | 28,114 | 11,079 | 30,465 | 209,050 | 312,168 | 103,118 |
| Texas | 5,376 | 19,528 | 126,992 | 43,663 | 128,139 | 1,077,115 | 1,530,221 | 453,105 |
| **Mountain** | 4,011 | 12,203 | 69,245 | 25,728 | 81,737 | 545,187 | 819,833 | 274,646 |
| Montana | 585 | 1,727 | 9,171 | 3,684 | 12,148 | 112,095 | 151,885 | 39,790 |
| Idaho | 549 | 1,355 | 10,877 | 2,613 | 12,754 | 58,705 | 90,475 | 31,770 |
| Wyoming | 310 | 792 | 3,484 | 1,680 | 4,757 | 29,794 | 45,423 | 15,629 |
| Colorado | 1,298 | 4,177 | 23,719 | 9,111 | 28,392 | 130,387 | 221,643 | 91,256 |
| New Mexico | 272 | 522 | 3,250 | 927 | 2,913 | 16,412 | 25,124 | 8,712 |
| Arizona | 332 | 1,110 | 6,096 | 2,612 | 7,163 | 65,488 | 97,529 | 32,041 |
| Utah | 560 | 2,286 | 11,555 | 4,591 | 11,968 | 123,452 | 167,172 | 43,720 |
| Nevada | 105 | 234 | 1,093 | 509 | 1,642 | 8,854 | 20,582 | 11,728 |
| **Pacific** | 17,817 | 65,295 | 429,423 | 149,674 | 561,026 | 2,206,224 | 3,800,204 | 1,593,980 |
| Washington | 3,240 | 10,812 | 90,324 | 25,086 | 118,326 | 350,003 | 636,650 | 286,647 |
| Oregon | 2,248 | 6,256 | 63,622 | 13,735 | 77,586 | 193,200 | 365,374 | 172,175 |
| California | 12,329 | 48,227 | 275,477 | 110,854 | 365,114 | 1,663,022 | 2,798,180 | 1,135,158 |

[1] Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and contract work from value of products.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 932.—Inventories in the Hands of Manufacturers at the Beginning and End of 1937 and 1939, and by Industry Groups, 1939

[**In thousands of dollars.** Statistics on inventories were not collected for any of the industries in the printing and publishing group, nor were inventory statistics collected for contract shops classified in the textile industries. The value of products of those industries for which inventory data were not collected amounted to $2,846,966,000]

| Industry group | Inventories | | | | | | Value of products | | |
|---|---|---|---|---|---|---|---|---|---|
| | Beginning of year | | | End of year | | | | | |
| | Total | Finished products [1] | Materials, supplies, etc.[2] | Total | Finished products [1] | Materials, supplies, etc.[2] | Total | For establishments reporting inventories [3] | For establishments not reporting inventories |
| 1937 | 8,467,786 | 3,523,109 | 4,944,677 | 9,862,951 | 4,313,765 | 5,549,186 | 57,892,417 | 54,750,183 | 3,142,234 |
| 1939 | 8,926,468 | 3,959,996 | 4,966,472 | 9,632,350 | 3,903,094 | 5,729,256 | 53,996,059 | 52,094,455 | 1,901,605 |
| Food and kindred products | 1,266,054 | 774,061 | 491,993 | 1,361,680 | 784,230 | 577,449 | 10,618,026 | 10,257,211 | 360,815 |
| Tobacco manufactures | 179,675 | 21,783 | 157,892 | 183,937 | 24,008 | 159,929 | 1,322,189 | 1,320,035 | 2,154 |
| Textile-mill products and other fiber manufactures | 758,971 | 302,801 | 456,169 | 828,349 | 287,433 | 540,916 | 3,884,194 | 3,655,872 | 228,322 |
| Apparel and other finished products made from fabrics and similar materials | 283,909 | 123,310 | 160,598 | 347,978 | 145,584 | 202,394 | 3,102,998 | 2,420,094 | 682,904 |
| Lumber and timber basic products | 276,601 | 183,556 | 93,045 | 267,692 | 177,373 | 90,319 | 1,122,058 | 1,058,404 | 63,654 |
| Furniture and finished lumber products | 239,600 | 90,039 | 149,561 | 256,792 | 90,908 | 165,884 | 1,267,724 | 1,245,592 | 22,132 |
| Paper and allied products | 231,792 | 92,042 | 189,751 | 298,272 | 90,049 | 208,223 | 2,019,568 | 1,969,546 | 50,023 |
| Chemicals and allied products | 703,275 | 320,329 | 382,945 | 713,729 | 292,816 | 420,913 | 3,733,658 | 3,692,478 | 41,180 |
| Products of petroleum and coal | 481,322 | 282,329 | 198,993 | 479,098 | 284,606 | 194,492 | 2,953,973 | 2,844,274 | 109,700 |
| Rubber products | 146,362 | 76,387 | 69,975 | 169,558 | 82,187 | 87,371 | 902,329 | 898,370 | 3,958 |
| Leather and leather products | 237,334 | 90,999 | 146,335 | 263,168 | 91,567 | 171,601 | 1,389,514 | 1,362,947 | 26,567 |
| Stone, clay, and glass products | 264,212 | 153,250 | 110,962 | 266,182 | 144,659 | 121,523 | 1,440,151 | 1,383,192 | 56,959 |
| Iron and steel and their products, except machinery | 1,346,864 | 481,288 | 865,577 | 1,483,103 | 476,043 | 1,007,060 | 6,591,530 | 6,425,111 | 166,419 |
| Nonferrous metals and their products | 434,454 | 172,792 | 261,662 | 439,472 | 147,753 | 291,719 | 2,572,854 | 2,557,082 | 15,773 |
| Electrical machinery | 386,427 | 173,284 | 213,143 | 414,975 | 155,182 | 259,793 | 1,727,390 | 1,724,718 | 2,672 |
| Machinery (except electrical) | 942,902 | 439,444 | 503,458 | 995,808 | 428,435 | 567,373 | 3,254,174 | 3,233,366 | 20,808 |
| Automobiles and automobile equipment | 338,567 | 86,629 | 251,938 | 411,257 | 101,249 | 310,008 | 4,047,873 | 4,047,510 | 363 |
| Transportation equipment except automobiles | 140,742 | 12,417 | 128,325 | 214,011 | 13,825 | 200,186 | 882,897 | 879,553 | 3,344 |
| Miscellaneous industries | 217,406 | 83,256 | 134,151 | 237,289 | 85,186 | 152,103 | 1,162,958 | 1,119,098 | 43,860 |

[1] Includes the value of goods produced by contract work on materials owned by the manufacturers reporting.
[2] Includes the value of fuel, work in progress, and all other inventories.
[3] Includes the value of products of establishments reporting no inventories on hand.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 933.—Ethyl Alcohol and Other Distilled Spirits, Except Brandy—Materials Used in Production, by Kinds: 1901 to 1947

| Year ending June 30— | Molasses (thousand gallons) | Grain (thousands of pounds) [1] | | | | Ethyl sulphate | Pineapple juice | Other materials [3] | |
|---|---|---|---|---|---|---|---|---|---|
| | | Corn | Malt | Rye | Other [2] | Thousand gallons | | Thousand gallons | Thousand pounds |
| 1901–05, average | 14,059 | 1,094,027 | 197,602 | 303,038 | 3,349 | | | | |
| 1906–10, average | 30,630 | 1,114,277 | 202,720 | 280,112 | 1,893 | | | | |
| 1911–15, average | 71,726 | 1,183,706 | 209,194 | 275,374 | 5,029 | | | | |
| 1911 | 44,363 | 1,301,832 | 226,968 | 301,056 | 5,096 | | | | |
| 1912 | 61,605 | 1,288,952 | 228,256 | 313,600 | 4,760 | | | | |
| 1913 | 64,641 | 1,335,488 | 238,168 | 326,368 | 6,160 | | | | |
| 1914 | 64,721 | 1,193,696 | 220,584 | 299,152 | 4,648 | | | | |
| 1915 | 123,361 | 798,560 | 131,992 | 136,696 | 4,480 | | | | |
| 1916 | 80,977 | 1,795,920 | 250,936 | 174,552 | 4,592 | | | 71,165 | |
| 1917 | 112,498 | 1,902,488 | 237,440 | 133,000 | 4,536 | | | 78,463 | |
| 1918 | 118,028 | 814,520 | 94,640 | 13,944 | 9,632 | | | 68,527 | |
| 1919 | 123,499 | 217,840 | 32,088 | 1,400 | 4,816 | | | 9,801 | |
| 1920 | 113,133 | 59,248 | 12,040 | 2,800 | 2,912 | | | 19,327 | |
| 1921 | 119,053 | 273,840 | 51,184 | 10,528 | 1,624 | | | 31,101 | |
| 1922 | 97,223 | 173,208 | 45,696 | 4,760 | 56 | | | 74,705 | |
| 1923 | 148,711 | 173,936 | 46,536 | 280 | | | | 32,543 | 12 |
| 1924 | 155,001 | 271,432 | 64,568 | 5,096 | 1,120 | | | 35,525 | 155,756 |
| 1925 | 203,270 | 403,256 | 59,976 | 5,432 | 616 | | | 37,824 | 112,392 |
| 1926 | 267,404 | 445,088 | 36,400 | 728 | 672 | | | 44,508 | 46,885 |
| 1927 | 211,519 | 469,448 | 28,280 | 392 | | | | 40,942 | 49,469 |
| 1928 | 213,630 | 346,864 | 25,368 | 392 | 504 | | | 56,795 | 79,576 |
| 1929 | 268,045 | 548,912 | 20,720 | 448 | | | | 53,884 | 53,038 |
| 1930 | 235,797 | 558,096 | 37,296 | 11,648 | 1,848 | 1,274 | | 21,601 | 65,535 |
| 1931 | 187,790 | 137,424 | 36,008 | 357,560 | 1,568 | 10,072 | 5,768 | 19,302 | 30,344 |
| 1932 | 161,295 | 271,488 | 28,336 | 12,208 | 18,592 | 11,146 | 4,235 | 15,072 | 20,377 |
| 1933 | 117,939 | 325,808 | 31,360 | 31,584 | 336 | 8,943 | 5,544 | 6,772 | 30,265 |
| 1934 | 174,031 | 580,269 | 140,848 | 252,519 | 2,663 | 9,568 | 7,491 | 1,672 | 23,797 |
| 1935 | 195,266 | 1,086,392 | 269,361 | 573,413 | 3,099 | 13,699 | 5,317 | 1,190 | 28,247 |
| 1936 | 179,123 | 1,782,205 | 372,421 | 718,789 | 3,716 | 24,403 | 6,790 | 8,092 | 678 |
| 1937 | 208,071 | 2,029,560 | 387,312 | 651,457 | 3,673 | 25,493 | 3,598 | 12,248 | 963 |
| 1938 | 166,722 | 1,110,331 | 206,625 | 339,066 | 2,689 | 26,577 | 2,007 | 27 | 456 |
| 1939 | 163,223 | 1,012,868 | 183,411 | 307,742 | 3,432 | 35,389 | 2,344 | 26,207 | 1,254 |
| 1940 | 198,929 | 1,059,019 | 186,468 | 314,371 | 2,383 | 45,786 | 3,256 | 13,801 | 12,644 |
| 1941 | 225,349 | 1,307,455 | 231,065 | 373,997 | 2,527 | 53,400 | 1,831 | 2,365 | 18,563 |
| 1942 | 286,174 | 2,236,469 | 333,155 | 384,190 | 114,806 | 71,259 | 1,988 | 2,859 | 25,907 |
| 1943 | 183,039 | 2,797,530 | 558,854 | 117,008 | 2,370,391 | 78,299 | 3,237 | 3,574 | 37,136 |
| 1944 | 263,889 | 320,126 | 727,200 | 217,398 | 6,393,230 | 94,467 | 4,918 | 8,680 | 70,030 |
| 1945 | 242,786 | 1,600,028 | 962,002 | 651,649 | 6,464,941 | 91,621 | 2,766 | 57,949 | 97,106 |
| 1946 | 117,520 | 1,370,401 | 537,373 | 463,822 | 1,968,362 | 103,306 | 2,374 | 152,899 | 648,435 |
| 1947 | 73,382 | 2,651,731 | 455,336 | 237,166 | 148,398 | 106,457 | 2,880 | 222,581 | 983,782 |

[1] Conversion factor used was 56 pounds per bushel when reported in bushels.
[2] Wheat, barley, rice, etc., also mixtures of corn, malt, and rye.
[3] Diamalt, sulphite liquor, manioca meal, maguey juice, maple sirup, cider, corn sirup, potatoes, crude-alcohol mixture, cellulose pulp, and chemical mixtures, etc.

Source: Treasury Department: 1901 to 1933, Bureau of Industrial Alcohol; Statistics Concerning Intoxicating Liquors. 1934 and subsequent years, Bureau of Internal Revenue; annual and special reports.

## No. 934.—Denatured Alcohol:[1] 1910 to 1947

| Year ending June 30— | Alcohol produced at industrial alcohol plants [2] | Denaturing plants operated | Ethyl alcohol withdrawn for denaturation [3] | Denatured alcohol produced [4] | | |
|---|---|---|---|---|---|---|
| | | | | Total | Completely denatured | Specially denatured |
| | *Proof gallons* | | *Proof gallons* | *Wine gallons* | *Wine gallons* | *Wine gallons* |
| 1910 | ---------- | 12 | 10,605,871 | 6,079,027 | 3,076,925 | 3,002,103 |
| 1915 | ---------- | 23 | 25,411,719 | 13,986,469 | 5,386,647 | 8,599,822 |
| 1920 | 18,933,551 | 52 | 45,640,949 | 28,836,350 | 13,528,403 | 15,307,947 |
| 1925 | 166,165,518 | 91 | 152,254,039 | 81,808,273 | 46,983,970 | 34,824,303 |
| 1930 | 193,823,717 | 68 | 185,000,827 | 106,776,978 | 59,063,510 | 47,713,468 |
| 1935 | 180,645,920 | 39 | 163,009,786 | 97,031,074 | 38,746,679 | 58,284,395 |
| 1940 | 243,727,756 | 40 | 223,321,704 | 126,761,830 | 15,352,033 | 111,409,797 |
| 1941 | 298,845,417 | 43 | 274,887,261 | 153,510,433 | 17,676,172 | 135,834,261 |
| 1942 | [5] 424,804,091 | 62 | 374,760,259 | 207,845,334 | 28,628,181 | 179,217,153 |
| 1943 | [5] 447,786,568 | 76 | 408,303,779 | 222,894,419 | 24,369,788 | 198,524,631 |
| 1944 | [5] 636,575,216 | 66 | 973,439,556 | 524,113,586 | 52,331,761 | 471,781,825 |
| 1945 | [5] 683,431,544 | 65 | 971,446,910 | 527,095,537 | 33,087,533 | 494,008,004 |
| 1946 | 329,386,962 | 50 | 393,458,500 | 212,802,110 | 26,144,437 | 186,657,673 |
| 1947 | 248,798,639 | 49 | 338,029,989 | 183,744,086 | 36,395,715 | 147,348,371 |

[1] Includes data for Hawaii for all years and data for Puerto Rico beginning with Aug. 1, 1928.
[2] Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.
[3] Through 1930, includes rum and spirits produced at distilleries for denaturation. 1935 through 1941, represents withdrawals of alcohol only for denaturation. 1942 through 1946, represents all products used for denaturation which were regarded, upon receipt at denaturing plants, as alcohol, whether originally produced as alcohol by industrial alcohol plants or as spirits or unfinished spirits by registered distilleries.
[4] Prior to 1943 includes denatured rum.
[5] Represents gross production. Net production (gross production minus products used in redistillation) for such years follows: 1942, 419,566,596; 1943, 364,698,976; 1944, 590,929,045; 1945, 650,089,874.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 935.—Alcoholic Beverages—Production, Tax-Paid Withdrawals, and Stocks: Years Ending June 30, 1941 to 1947

[Includes data for Alaska, Hawaii, and Puerto Rico]

| Class | Unit | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|
| Fermented malt liquor: | | | | | | | | |
| Production | Thous. of bbl.[1] | 55,214 | 63,717 | 71,018 | 81,726 | 86,604 | 84,978 | 87,857 |
| Tax-paid withdrawals | do | 52,799 | 60,856 | 68,636 | 76,970 | 79,591 | 81,287 | 82,629 |
| Stocks on hand June 30 | do | 9,038 | 8,935 | 8,286 | 8,862 | 9,262 | 8,035 | 9,565 |
| Distilled spirits, total: | | | | | | | | |
| Production [2] | Thous. of tax gal.[3] | 175,209 | [4] 157,982 | [4] 39,917 | [4] 23,805 | [4] 128,205 | [4] 275,148 | 315,158 |
| Tax-paid withdrawals [5] | do | 130,552 | 144,208 | 136,837 | 90,464 | 142,331 | 178,131 | 173,505 |
| Stocks on hand June 30 [2] | do | 551,424 | 587,751 | 476,345 | 376,278 | 338,173 | 420,262 | 525,828 |
| Whiskey: | | | | | | | | |
| Production | do | 121,852 | 120,257 | 19,530 | ------- | 41,562 | 147,465 | 167,995 |
| Tax-paid withdrawals | do | 80,542 | 84,709 | 87,914 | 58,833 | 63,891 | 63,227 | 58,823 |
| Stocks on hand June 30 | do | 504,081 | 516,919 | 424,825 | 348,646 | 307,588 | 374,072 | 464,825 |
| Rectified spirits and wines, production, total | Thous. of proof gal. | 54,158 | 67,771 | 70,125 | 67,686 | 118,863 | 150,879 | 148,560 |
| Whiskey, production | do | 44,317 | 55,962 | 60,795 | 57,862 | 101,645 | 124,727 | 130,701 |
| Still wines: [6] | | | | | | | | |
| Production [7] | Thous. of wine gal.[8] | 286,371 | 313,706 | 195,225 | 264,853 | 314,983 | 379,936 | 515,335 |
| Tax-paid withdrawals | do | 88,592 | 102,016 | 108,426 | 84,673 | 88,792 | 107,965 | 102,212 |
| Stocks on hand June 30 [9] | do | 117,887 | 133,195 | 91,031 | 94,313 | 102,725 | 102,014 | 160,211 |
| Sparkling wines: [10] | | | | | | | | |
| Production | Thous. of half pints [11] | 18,211 | 24,582 | 20,348 | 30,192 | 31,017 | 40,569 | 48,548 |
| Tax-paid withdrawals | do | 14,464 | 17,560 | 22,071 | 26,961 | 25,269 | 35,721 | 30,985 |
| Stocks on hand June 30 | do | 15,872 | 20,992 | 17,648 | 18,715 | 22,634 | 24,498 | 39,491 |

[1] Barrels of not more than 31 wine gallons. [2] Excludes ethyl alcohol.
[3] A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon. For spirits of less than 100 proof the tax gallon is equivalent to the wine gallon.
[4] Excludes high-proof spirits and unfinished spirits produced at registered distilleries for industrial purposes.
[5] Includes ethyl alcohol.
[6] Excludes vermouth.
[7] Production represents total amount removed from fermenters, including distilling material (substandard wines produced with excessive water or residue materials). In 1947, 345,707,766 gallons of distilling materials were produced.
[8] Standard United States gallon.
[9] Excludes distilling materials.
[10] Includes champagne, other sparkling wines, and artificially carbonated wines.
[11] Tax is payable on each ½ pint or fraction thereof in each bottle or container.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 936.—Distilled Spirits, Malt Liquors, and Wines—Apparent Average Annual Per Capita Consumption in the Continental United States: 1850 to 1947

[In gallons, except distilled spirits which is shown in tax gallons]

| Fiscal year | Distilled spirits | | | Malt liquors | | | Wines | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Domestic | Imported | Total | Domestic | Imported | Total | Domestic | Imported |
| 1850 | 2.24 | 2.02 | 0.22 | 1.58 | 1.57 | 0.01 | 0.27 | 0.01 | 0.26 |
| 1860 | 2.86 | 2.67 | .19 | 3.22 | 3.18 | .04 | .34 | .06 | .28 |
| 1870 | 2.07 | 1.89 | .18 | 5.31 | 5.28 | .03 | .32 | .08 | .24 |
| 1871-80 [1] | 1.39 | 1.35 | .04 | 6.93 | 6.90 | .03 | .47 | .31 | .16 |
| 1881-90 [1] | 1.34 | 1.31 | .03 | 11.37 | 11.34 | .03 | .48 | .39 | .09 |
| 1891-95 [1] | 1.37 | 1.35 | .02 | 15.20 | 15.15 | .05 | .39 | .32 | .07 |
| 1896-1900 [1] | 1.12 | 1.10 | .02 | 15.53 | 15.49 | .04 | .36 | .31 | .05 |
| 1901-05 [1] | 1.39 | 1.36 | .03 | 17.34 | 17.29 | .05 | .47 | .40 | .07 |
| 1906-10 [1] | 1.43 | 1.39 | .04 | 19.81 | 19.73 | .08 | .62 | .53 | .09 |
| 1911 | 1.46 | 1.42 | .04 | 20.69 | 20.61 | .08 | .67 | .60 | .07 |
| 1912 | 1.45 | 1.41 | .04 | 20.02 | 19.95 | .07 | .58 | .52 | .06 |
| 1913 | 1.51 | 1.47 | .04 | 20.72 | 20.64 | .08 | .56 | .49 | .07 |
| 1914 | 1.44 | 1.40 | .04 | 20.69 | 20.62 | .07 | .53 | .46 | .07 |
| 1915 | 1.26 | 1.23 | .03 | 18.40 | 18.37 | .03 | .33 | .27 | .06 |
| 1916 | 1.37 | 1.33 | .04 | 17.78 | 17.76 | .02 | .47 | .42 | .05 |
| 1917 | 1.62 | 1.59 | .03 | 18.17 | 18.15 | .02 | .41 | .36 | .05 |
| 1918 | .87 | .86 | .01 | 14.77 | 14.76 | .01 | .49 | .46 | .03 |
| 1919 | .79 | .79 | [2] | 8.00 | 8.00 | [2] | .51 | .49 | .02 |
| 1920 | .22 | .22 | [2] | 2.61 | 2.61 | [2] | .12 | .12 | [2] |
| 1921 | .32 | .32 | [2] | ------ | ------ | ------ | .19 | .18 | .01 |
| 1922 [3] | .18 | .18 | [2] | ------ | ------ | ------ | .06 | .05 | .01 |
| 1923 [3] | .11 | .11 | [2] | ------ | ------ | ------ | .13 | .13 | [2] |
| 1924 [3] | .10 | .10 | [2] | ------ | ------ | ------ | .08 | .08 | [2] |
| 1925 [3] | .09 | .09 | [2] | ------ | ------ | ------ | .03 | .03 | [2] |
| 1926 [3] | .09 | .09 | [2] | ------ | ------ | ------ | .05 | .05 | [2] |
| 1927 [3] | .08 | .08 | [2] | ------ | ------ | ------ | .04 | .04 | [2] |
| 1928 [3] | .09 | .09 | [2] | ------ | ------ | ------ | .04 | .04 | [2] |
| 1929 [3] | .09 | .09 | [2] | ------ | ------ | ------ | .09 | .09 | [2] |
| 1930 [3] | .08 | .08 | [2] | ------ | ------ | ------ | .03 | .03 | [2] |
| 1931 [3] | .07 | .07 | [2] | ------ | ------ | ------ | .05 | .05 | [2] |
| 1932 [3] | .06 | .06 | [2] | ------ | ------ | ------ | .04 | .04 | [2] |
| 1933 [3] | .05 | .05 | [2] | 1.56 | 1.55 | .01 | .01 | .01 | [2] |
| 1934 [3] | .33 | .30 | .03 | 7.90 | 7.89 | .01 | .14 | .12 | .02 |
| 1935 | .70 | .67 | .03 | 10.45 | 10.44 | .01 | .30 | .28 | .02 |
| 1936 | .81 | .73 | .08 | 11.93 | 11.92 | .01 | .39 | .37 | .02 |
| 1937 | 1.03 | .90 | .13 | 13.47 | 13.45 | .02 | .52 | .49 | .03 |
| 1938 | 1.00 | .89 | .11 | 13.02 | 13.00 | .02 | .51 | .48 | .03 |
| 1939 | .93 | .84 | .09 | 12.41 | 12.39 | .02 | .55 | .52 | .03 |
| 1940 | 1.02 | .93 | .09 | 12.58 | 12.57 | .01 | .66 | .63 | .03 |
| 1941 | 1.04 | .96 | .08 | 12.42 | 12.41 | .01 | .70 | .68 | .02 |
| 1942 | 1.13 | 1.06 | .07 | 14.18 | 14.17 | .01 | .79 | .78 | .01 |
| 1943 | 1.11 | 1.00 | .11 | 15.96 | 15.93 | .03 | .84 | .83 | .01 |
| 1944 | 1.03 | .72 | .31 | 17.97 | 17.92 | .05 | .73 | .66 | .07 |
| 1945 | 1.22 | 1.05 | .17 | 18.86 | 18.79 | .07 | .73 | .70 | .03 |
| 1946 | 1.39 | 1.27 | .12 | 18.56 | 18.47 | .09 | .87 | .82 | .05 |
| 1947 | 1.28 | 1.19 | .09 | 19.10 | 19.08 | .02 | .76 | .74 | .02 |

[1] Average for the period.
[2] Less than .005.
[3] Includes quantities withdrawn for certain manufacturing, compounding, medicinal, and sacramental uses.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; World Trade in Commodities: Foreign Trade in Beverages and Beverage Materials, Nov. Data prior to 1922 published in the Statistical Abstract, 1921, p. 616.

## No. 937.—Tobacco Products—Production, by Kind: 1901 to 1946

[Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in Customs bonded manufacturing warehouses, class 6. There were 128,841,360 large cigars manufactured in these warehouses in 1946. Large cigars are those weighing more than 3 pounds per thousand]

| Calendar year or yearly average | Tobacco and snuff (thousands of pounds) | | | | | | Cigars (thousands) | | Cigarettes (thous | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | Plug | Twist | Fine cut | Smoking [1] | Snuff | Large | Small | Large | Small |
| 1901–1905 | 346,841 | 175,981 | | 11,903 | 138,402 | 20,556 | 6,513,095 | 716,720 | 7,143 | 3,227,606 |
| 1906–1910 | 413,054 | 167,460 | 13,524 | 12,525 | 192,700 | 26,845 | 6,883,272 | 1,059,501 | 16,113 | 6,192,571 |
| 1911–1915 | 437,346 | 158,529 | 15,017 | 10,795 | 221,865 | 31,140 | 7,087,530 | 1,053,654 | 15,695 | 14,802,416 |
| 1916–1920 | 456,584 | 159,869 | 14,346 | 9,758 | 237,808 | 34,805 | 7,364,937 | 810,327 | 26,026 | 41,565,670 |
| 1921–1925 | 409,457 | 115,445 | 10,105 | 6,972 | 239,151 | 37,785 | 6,691,913 | 557,300 | 16,704 | 65,903,991 |
| 1926–1930 | 389,244 | 99,470 | 8,374 | 5,821 | 235,421 | 40,159 | 6,360,650 | 414,044 | 10,479 | 109,361,216 |
| 1931–1935 | 349,785 | 64,662 | 5,404 | 3,660 | 239,072 | 36,987 | 4,648,368 | 245,412 | 20,417 | 121,702,676 |
| 1936–1940 | 344,331 | 54,402 | 6,029 | 4,703 | 241,561 | 37,636 | 5,184,661 | 164,652 | 2,956 | 174,117,549 |
| 1935 | 342,728 | 60,588 | 5,604 | 4,683 | 235,757 | 36,095 | 4,685,370 | 177,822 | 2,504 | 139,966,180 |
| 1936 | 347,977 | 59,165 | 6,372 | 5,068 | 239,349 | 38,022 | 5,172,279 | 180,006 | 2,458 | 158,893,958 |
| 1937 | 340,579 | 58,331 | 6,774 | 4,999 | 233,334 | 37,141 | 5,303,369 | 198,585 | 3,066 | 169,969,320 |
| 1938 | 345,369 | 54,495 | 5,659 | 4,572 | 243,470 | 37,173 | 5,014,758 | 152,990 | 2,638 | 171,686,383 |
| 1939 | 343,307 | 51,263 | 5,733 | 4,701 | 243,640 | 37,970 | 5,197,627 | 156,940 | 4,369 | 180,666,824 |
| 1940 | 344,423 | 48,759 | 5,605 | 4,176 | 248,011 | 37,872 | 5,235,271 | 134,758 | 2,249 | 189,371,258 |
| 1941 | 342,427 | 50,230 | 5,614 | 5,069 | 241,897 | 39,616 | 5,610,176 | 146,711 | 1,790 | 217,934,925 |
| 1942 | 330,413 | 54,300 | 6,024 | 5,084 | 224,002 | 41,003 | 5,840,805 | 133,150 | 2,503 | 257,520,863 |
| 1943 | 327,089 | 58,945 | 6,257 | 4,460 | 214,249 | 43,179 | 5,363,027 | 125,480 | 6,111 | 296,173,333 |
| 1944 | 306,935 | 61,655 | 6,498 | 4,092 | 192,728 | 41,962 | 5,198,679 | 123,340 | 26,870 | 323,583,888 |
| 1945 | 330,502 | 59,704 | 6,723 | 3,970 | 216,271 | 43,834 | 5,274,675 | 98,167 | 82,416 | 332,164,670 |
| 1946 [2] | 253,231 | 51,810 | 5,773 | 3,756 | 152,531 | 39,361 | 5,617,700 | 92,262 | 1,658 | 350,038,093 |

[1] Includes scrap chewing tobacco.
[2] Number of factories on Jan. 1, 1947: Tobacco and snuff (excluding 206 "quasi" manufacturers), 381; cigars, 2,441; cigarettes, 60.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 938.—Tobacco, Leaf—Amounts Consumed in the Manufacture of Cigars, Cigarettes, Chewing and Smoking Tobacco, and Snuff

[**All figures in thousands of pounds.** Figures represent the equivalent in unstemmed leaf tobacco of stemmed leaf or scraps, cuttings, and clippings. In the following table the tobacco used in the manufacture of cigars and cigarettes was converted on the basis of 3 pounds of stemmed leaf or scraps, etc., to 4 pounds of unstemmed beginning 1915 (conversion prior to 1915 was at the ratio of 3 to 5) and of tobacco and snuff beginning 1903. For 1896 to 1902, tobacco used in manufactured tobacco and snuff was shown only under two heads, namely, "leaf" and "scraps." It is probable that stemmed leaf was included with unstemmed tobacco under the head of "leaf" without the one kind being converted to the equivalent in the other. The conversion ratio of 3 to 4 was applied only to "scraps" for these years. Data exclude tobacco used in bonded manufacturing warehouses]

| Calendar year or yearly average | Total | Cigars | Cigarettes | Tobacco and snuff | Calendar year | Total | Cigars | Cigarettes | Tobacco and snuff |
|---|---|---|---|---|---|---|---|---|---|
| 1896–1900 | 359,053 | 87,851 | 16,235 | 254,967 | 1934 | 775,530 | 111,123 | 375,383 | 289,024 |
| 1901–1905 | 451,461 | 124,411 | 12,444 | 314,606 | 1935 | 775,932 | 113,742 | 399,458 | 262,731 |
| 1906–1910 | 524,193 | 139,206 | 22,079 | 362,908 | 1936 | 847,367 | 126,578 | 453,327 | 267,462 |
| 1911–1915 | 578,283 | 151,890 | 52,207 | 374,186 | 1937 | 872,924 | 128,653 | 479,961 | 264,309 |
| 1916–1920 | 650,460 | 155,312 | 130,320 | 364,828 | 1938 | 865,302 | 118,751 | 483,840 | 262,710 |
| 1921–1925 | 672,077 | 151,421 | 198,069 | 322,588 | 1939 | 885,299 | 122,681 | 509,133 | 253,485 |
| 1926–1930 | 762,540 | 149,240 | 312,533 | 300,767 | 1940 | 922,716 | 126,835 | 535,218 | 260,663 |
| 1931–1935 | 740,934 | 112,296 | 345,985 | 282,652 | 1941 | 1,009,085 | 136,066 | 626,842 | 246,178 |
| 1936–1940 | 878,722 | 124,700 | 492,296 | 261,726 | 1942 | 1,131,065 | 140,679 | 754,550 | 235,837 |
| 1930 | 779,806 | 137,901 | 347,915 | 293,990 | 1943 | 1,228,703 | 131,896 | 860,459 | 236,349 |
| 1931 | 752,404 | 127,628 | 329,962 | 294,813 | 1944 | 1,254,541 | 129,882 | 920,418 | 204,241 |
| 1932 | 690,134 | 104,288 | 299,029 | 286,817 | 1945 | 1,291,176 | 128,390 | 944,286 | 218,499 |
| 1933 | 710,668 | 104,699 | 326,093 | 279,876 | 1946 | 1,306,667 | 137,539 | 1,000,938 | 168,190 |

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 939.—Cotton-System Spindles, Cotton Consumption, and Stocks

[Statistics for 1915 to 1947 relate to 12 months ending July 31 and those for prior years to 12 months ending Aug. 31. For 1946 and 1947 spindles in place include all cotton-system spindles in place regardless of fiber spun. Prior to 1946, "in place" figure represents all spindles in place used exclusively for spinning cotton. Consumption and stocks are expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton for all years are in equivalent 500-pound bales]

| YEAR | COTTON-SYSTEM SPINDLES (THOUSANDS) | | | | | Active cotton spindle hours (millions) | COTTON CONSUMED, EXCLUDING LINTERS (THOUSANDS OF BALES) [2] | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total in place | Active [1] | | | | | | | | |
| | | United States | Cotton-growing States | New England | Other States | | United States | Cotton-growing States | New England | Other States |
| 1840 | (3) | 2,285 | 181 | 1,597 | 506 | (3) | 237 | 71 | 159 | 7 |
| 1850 | (3) | 3,998 | 265 | 2,959 | 775 | (3) | 576 | 78 | 431 | 67 |
| 1860 | (3) | 5,236 | 324 | 3,859 | 1,053 | (3) | 845 | 94 | 567 | 184 |
| 1870 | (3) | 7,132 | 328 | 5,498 | 1,306 | (3) | 797 | 69 | 551 | 177 |
| 1880 | (3) | [4]10,653 | [4]561 | [4]8,632 | [4]1,460 | (3) | [4]1,570 | [4]189 | [4]1,129 | [4]252 |
| 1890 | (3) | 14,384 | 1,570 | 10,934 | 1,880 | (3) | 2,518 | 539 | 1,502 | 477 |
| 1900 | (3) | 19,472 | 4,368 | 13,171 | 1,933 | (3) | 3,873 | 1,523 | 1,909 | 440 |
| 1910 | 28,929 | 28,267 | 10,494 | 15,735 | 2,038 | (3) | 4,622 | 2,234 | 1,995 | 393 |
| 1920 | 35,834 | 35,481 | 15,231 | 18,287 | 1,963 | (3) | 6,420 | 3,583 | 2,397 | 440 |
| 1925 | 37,929 | 35,032 | 17,292 | 15,975 | 1,765 | 91,055 | 6,193 | 4,220 | 1,639 | 335 |
| 1930 | 34,025 | 31,245 | 18,586 | 11,351 | 1,308 | 87,515 | 6,106 | 4,749 | 1,143 | 214 |
| 1935 | 30,093 | 26,701 | 18,212 | 7,763 | 726 | 72,526 | 5,361 | 4,306 | 818 | 237 |
| 1939 | 25,261 | 23,731 | 17,666 | 5,408 | 657 | 87,696 | 6,858 | 5,810 | 859 | 189 |
| 1940 | 24,750 | 23,586 | 17,641 | 5,279 | 666 | 97,006 | 7,784 | 6,647 | 918 | 219 |
| 1941 | 24,335 | 23,389 | 17,653 | 5,088 | 649 | 111,775 | 9,722 | 8,289 | 1,147 | 285 |
| 1942 | 23,971 | 23,608 | 17,800 | 5,138 | 670 | 131,161 | 11,170 | 9,526 | 1,313 | 331 |
| 1943 | 23,401 | 23,429 | 17,746 | 5,043 | 641 | 129,709 | 11,100 | 9,640 | 1,156 | 305 |
| 1944 | 23,293 | 23,019 | 17,652 | 4,784 | 582 | 118,283 | 9,943 | 8,739 | 950 | 254 |
| 1945 | 23,128 | 22,675 | 17,610 | 4,511 | 554 | 111,898 | 9,568 | 8,455 | 891 | 222 |
| 1946 | 23,862 | 21,578 | 16,869 | 4,173 | 536 | 105,368 | 9,163 | 8,074 | 854 | 235 |
| 1947 | 23,824 | 21,383 | 16,692 | 4,237 | 454 | 114,727 | 10,025 | 8,776 | 968 | 281 |

| YEARLY AVERAGE OR YEAR | CONSUMPTION (THOUSANDS OF BALES) | | | | | | | STOCKS IN CONSUMING ESTABLISHMENTS AT END OF YEAR (THOUSANDS OF BALES) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cotton, excluding linters | | | | | | Linters | Cotton, excluding linters [5] | | | Linters |
| | Total | Domestic | | | | Foreign | | Total | Domestic | Foreign | |
| | | Total | Upland | Sea Island | American-Egyptian | | | | | | |
| 1906–1910 | [6]4,829 | [6]4,680 | [6]4,616 | [6]64 | ------- | 149 | [7]163 | [6]731 | [6]673 | 58 | [7]39 |
| 1911–1915 | 5,257 | 5,051 | [8]4,976 | 75 | (9) | 206 | 293 | 822 | 738 | 84 | 86 |
| 1916–1920 | 6,388 | 6,105 | [8]6,034 | 71 | (9) | 282 | 734 | 1,452 | 1,352 | 100 | 179 |
| 1921–1925 | 5,869 | 5,577 | 5,531 | 9 | 37 | 292 | 599 | 1,003 | 911 | 92 | 139 |
| 1926–1930 | 6,735 | 6,434 | 6,419 | 1 | 15 | 301 | 815 | 1,150 | 1,050 | 100 | 186 |
| 1931–1935 | 5,466 | 5,325 | 5,311 | 1 | 14 | 140 | 720 | 1,116 | 1,061 | 55 | 261 |
| 1936–1940 | 6,938 | 6,799 | 6,780 | 2 | 18 | 139 | 836 | 7,133 | 7,060 | 74 | 275 |
| 1936 | 6,351 | 6,220 | 6,198 | (9) | 21 | 131 | 734 | 897 | 855 | 42 | 181 |
| 1937 | 7,950 | 7,768 | 7,747 | (9) | 20 | 182 | 819 | 1,286 | 1,218 | 67 | 236 |
| 1938 | 5,748 | 5,616 | 5,608 | 2 | 6 | 132 | 715 | 10,908 | 10,821 | 87 | 268 |
| 1939 | 6,858 | 6,736 | 6,714 | 3 | 19 | 122 | 851 | 12,483 | 12,406 | 76 | 291 |
| 1940 | 7,784 | 7,655 | 7,631 | 3 | 21 | 128 | 1,061 | 10,094 | 9,999 | 95 | 400 |
| 1941 | 9,722 | 9,576 | 9,545 | 3 | 27 | 146 | 1,359 | 11,581 | 11,441 | 140 | 469 |
| 1942 | 11,170 | 10,974 | 10,922 | 4 | 47 | 196 | 1,488 | 9,900 | 9,765 | 135 | 439 |
| 1943 | 11,100 | 10,930 | 10,874 | 6 | 50 | 170 | 1,301 | 9,792 | 9,704 | 88 | 465 |
| 1944 | 9,943 | 9,829 | 9,782 | 3 | 44 | 114 | 1,365 | 10,159 | 10,041 | 118 | 335 |
| 1945 | 9,568 | 9,448 | 9,404 | 1 | 44 | 120 | 1,481 | 10,339 | 10,215 | 124 | 247 |
| 1946 | 9,163 | 8,966 | 8,946 | 1 | 19 | 197 | 1,055 | 6,746 | 6,593 | 153 | 255 |
| 1947 | 10,025 | 9,765 | 9,755 | 1 | 9 | 260 | 984 | 2,310 | 2,178 | 132 | 201 |

[1] For 1945 and earlier years data represent sum of greatest number of cotton spindles reported by each mill as active at any time during year, regardless of length of time operated. Beginning with 1946, active figure includes all cotton-system spindles active last day of year, regardless of type of fiber spun. On July 31, 1947, there were 21,383,000 spindles active on cotton, 807,000 on synthetics, 329,000 on other fibers and blends, and 1,305,000 idle.

[2] Includes linters for 1840 to 1908. Figures for all years include foreign and domestic cotton.

[3] Not available. [4] Cotton mills only.

[5] Includes stocks held in public storage and at compresses beginning 1938.

[6] Includes linters for 1906 to 1908. [7] Average, 1909 and 1910.

[8] "Upland" includes "American-Egyptian" beginning 1912 (first year produced). [9] Less than 500 bales.

Source: Dept. of Commerce, Bureau of Census; annual report, Cotton Production and Distribution.

## No. 940.—Cotton-System Spindle Activity, 1945, 1946, 1947, and Cotton Consumption, 1943 to 1947, by Region and State

[Years ending July 31. Consumption includes domestic and foreign cotton and is in running bales counting round as half bales, except foreign cotton which is in equivalent 500-pound bales]

| Region and state | Cotton spindles in place (thousands)[1] | | | Active cotton spindle hours (millions) | | | Cotton consumed, excluding linters (thousands of bales) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1945 | 1946 | 1947 | 1945 | 1946 | 1947 | 1943 | 1944 | 1945 | 1946 | 1947 |
| **United States** | **23,128** | **23,862** | **23,824** | **111,898** | **105,368** | **114,727** | **11,100** | **9,943** | **9,568** | **9,163** | **10,025** |
| Cotton-growing States | 17,607 | 18,128 | 18,104 | 94,249 | 88,446 | 95,507 | 9,640 | 8,739 | 8,455 | 8,074 | 8,776 |
| New England | 4,931 | 5,125 | 5,154 | 15,831 | 15,230 | 17,425 | 1,156 | 950 | 891 | 854 | 968 |
| Other States | 590 | 609 | 566 | 1,819 | 1,692 | 1,795 | 305 | 254 | 222 | 235 | 281 |
| Alabama | 1,804 | 1,819 | 1,788 | 9,616 | 9,588 | 10,291 | 1,301 | 1,176 | 1,164 | 1,128 | 1,238 |
| Connecticut | 486 | 501 | 491 | 1,327 | 1,196 | 1,299 | 78 | 62 | 57 | 59 | 65 |
| Georgia | 3,064 | 3,177 | 3,191 | 16,596 | 15,814 | 16,775 | 2,296 | 2,045 | 2,010 | 1,971 | 2,116 |
| Maine | 602 | 602 | 630 | 2,007 | 1,976 | 2,648 | 182 | 153 | 149 | 138 | 165 |
| Massachusetts | 2,694 | 2,789 | 2,825 | 9,017 | 8,714 | 9,685 | 625 | 513 | 485 | 470 | 525 |
| New Hampshire | (2) | (2) | (2) | (2) | (2) | (2) | 146 | 125 | 112 | (2) | (2) |
| New York | 268 | 288 | 305 | 869 | 844 | 944 | 119 | 103 | 91 | 90 | 100 |
| North Carolina | 5,719 | 5,848 | 5,850 | 30,071 | 27,797 | 29,634 | 2,854 | 2,660 | 2,550 | 2,382 | 2,576 |
| Rhode Island | 825 | 862 | 851 | 2,222 | 2,148 | 2,430 | 121 | 95 | 86 | 81 | 96 |
| South Carolina | 5,314 | 5,522 | 5,543 | 29,673 | 27,334 | 30,098 | 2,190 | 2,039 | 1,952 | 1,823 | 2,028 |
| Tennessee | 533 | 562 | 567 | 2,980 | 2,704 | 2,974 | 263 | 222 | 221 | 208 | 214 |
| Texas | 239 | 242 | 230 | 1,028 | 1,058 | 1,130 | 267 | 208 | 191 | 198 | 200 |
| Virginia | 620 | 646 | 646 | 2,770 | 2,692 | 3,200 | 260 | 231 | 226 | 197 | 221 |
| All other States | 958 | 1,004 | 907 | 3,722 | 3,503 | 3,619 | 397 | 312 | 274 | 418 | 481 |

[1] For 1946 and 1947 spindles in place include all cotton-system spindles in place regardless of fiber spun. Prior to 1946, "in place" figure represents all spindles in place used exclusively for spinning cotton.
[2] Included in all other States.

Source: Dept. of Commerce, Bureau of Census; annual report, Cotton Production and Distribution.

## No. 941.—Cotton and Rayon Mill Machinery—Number of Machines in Place, by Kind and by Region and State: February 28, 1942

[Machinery in place is that which is set up in operating position]

| Region and state | Cards | Combs | Roving machinery | | | | Spinning spindles | Twisting spindles | Looms |
|---|---|---|---|---|---|---|---|---|---|
| | | | Slubbers | Speeders | Intermediates | Jacks | | | |
| **United States** | **90,582** | **7,245** | **637,529** | **1,962,868** | **700,060** | **524,948** | **24,185,947** | **3,427,293** | **522,127** |
| **Cotton-growing States** | **72,141** | **3,828** | **524,619** | **1,493,816** | **520,330** | **232,444** | **18,184,663** | **2,612,863** | **363,376** |
| North Carolina | 24,339 | 2,591 | 161,786 | 539,540 | 162,410 | 148,002 | 5,861,613 | 1,173,469 | 85,383 |
| South Carolina | 16,969 | 499 | 129,672 | 491,417 | 136,000 | 17,768 | 5,620,037 | 364,376 | 144,770 |
| Georgia | 15,692 | 264 | 124,558 | 224,347 | 103,000 | 9,668 | 3,154,956 | 648,122 | 54,404 |
| Alabama | 8,365 | 168 | 72,405 | 104,520 | 50,276 | 18,120 | 1,813,716 | 224,414 | 34,870 |
| Other cotton-growing States[1] | 6,776 | 306 | 36,198 | 133,992 | 68,644 | 38,886 | 1,734,341 | 202,482 | 43,949 |
| **New England**[2] | **15,441** | **3,219** | **90,686** | **392,722** | **156,412** | **282,780** | **5,297,814** | **723,078** | **117,020** |
| Massachusetts | 8,671 | 2,171 | 46,228 | 269,876 | 98,220 | 195,692 | 2,992,490 | 405,150 | 56,790 |
| Rhode Island, Connecticut | 3,179 | 798 | 16,864 | 71,592 | 27,412 | 73,512 | 1,301,520 | 264,860 | 35,029 |
| Middle Atlantic[3] | 2,616 | 180 | 18,308 | 64,058 | 20,084 | 8,212 | 589,436 | 87,372 | 39,483 |
| Midwestern[4] | 384 | 18 | 3,916 | 12,272 | 3,234 | 1,512 | 114,034 | 3,980 | 2,248 |

[1] Includes Arkansas, California, Kentucky, Louisiana, Mississippi, Oklahoma, Tennessee, Texas, and Virginia.
[2] Includes Maine, New Hampshire, and Vermont, not shown separately.
[3] Includes Delaware, Maryland, New Jersey, New York, and Pennsylvania.
[4] Includes Illinois, Indiana, Michigan, Ohio, and Wisconsin.

Source: Department of Commerce, Bureau of the Census; compiled from manufacturers' reports to War Production Board and published in Facts for Industry Series 32-16-1.

## No. 942.—Wool Manufacturing Equipment, by Type: 1899 to 1943

[Represents equipment in possession of wool manufacturing establishments, regardless of condition. 1943 data based on reports of machinery "in place," and include estimates of number in possession but not in place. Data for 1899, 1914, and 1929 reported in Census of Manufactures, and exclude mills whose product was valued at less then $500 in 1899 and 1914, and less than $5,000 in 1929; 1943 inventory included all mills, regardless of size]

| TYPE | 1899 | 1914 | 1929 | 1943 |
|---|---|---|---|---|
| Rag pickers [1] | (2) | 1,769 | 1,495 | 1,346 |
| Garnetts [1] | (2) | 413 | 437 | 577 |
| Cards (sets), except shoddy cards | (2) | (2) | 8,831 | 7,172 |
| Woolen | 7,766 | 6,819 | 6,610 | 5,247 |
| Worsted [1] | (2) | (2) | 2,221 | 1,925 |
| Combs | 1,451 | 2,425 | 2,661 | 2,613 |
| Spinning spindles, total | 3,220,792 | 4,307,365 | 4,850,608 | 3,642,902 |
| Woolen [1] | 2,225,893 | 2,079,626 | 2,303,207 | 1,661,818 |
| Worsted | 994,899 | 2,227,739 | 2,547,401 | 1,981,084 |
| Twisting spindles, total [1] | 442,672 | 876,783 | 917,146 | 798,220 |
| Woolen | 98,252 | 91,792 | 95,778 | 144,030 |
| Worsted | 344,420 | 784,991 | 821,368 | 654,190 |
| Looms, except carpet and rug [3] | 63,294 | 76,789 | 69,554 | 43,210 |
| Carpet and rug looms | 9,796 | 9,821 | 10,267 | 6,557 |

[1] Data for 1899, 1914, and 1929 include estimates to provide for these machines in knitting mills. 1929 data also include estimates on number of woolen spinning spindles and worsted cards in knitting mills.
[2] Data not available.
[3] 1943 and other years not strictly comparable. Census of Manufactures for 1899, 1914, and 1929 called for a report on looms from those mills whose principal products were wool and hair goods while 1943 inquiry covered all mills consuming weaving yarns spun on woolen or worsted spinning spindles. Includes pile fabric looms conforming with these definitions.

Source: Department of Commerce, Bureau of the Census; 1943 data published in Facts for Industry Series M15H.

## No. 943.—Wool Manufacturing Equipment in Place, by Region and State: 1943

[Machinery in place is that which is set up in operating position]

| REGION AND STATE | Worsted combs | Woolen spinning spindles | Worsted spinning spindles | Woolen and worsted looms | WOOL CARPET AND RUG LOOMS | |
|---|---|---|---|---|---|---|
| | | | | | Broad | Narrow |
| **United States** | 2,582 | 1,653,550 | 1,957,593 | 42,213 | 2,422 | 3,488 |
| New England | 1,804 | 855,471 | 1,390,135 | 25,699 | 340 | 669 |
| Connecticut | (1) | 127,664 | 15,192 | 2,588 | (1) | (1) |
| Maine | (1) | 152,343 | 96,312 | 3,466 | | (1) |
| Massachusetts | 1,141 | 336,318 | 698,381 | 10,781 | (1) | (1) |
| New Hampshire | (1) | 122,071 | 62,864 | 2,610 | | |
| Rhode Island | 560 | 74,962 | 497,050 | 5,336 | | |
| Vermont | | 42,113 | 20,336 | 918 | | |
| Middle Atlantic | 672 | 414,504 | 454,330 | 9,548 | 1,886 | 2,577 |
| New Jersey | 405 | 66,965 | 156,434 | 2,597 | 193 | 291 |
| New York | 61 | 206,966 | 82,144 | 2,371 | 1,216 | 1,278 |
| Pennsylvania | 206 | 140,573 | 215,752 | 4,580 | 477 | 1,008 |
| Southern [2] | | 192,654 | 58,312 | 3,557 | 196 | 242 |
| North Central [3] | 106 | 160,245 | 43,436 | 2,658 | | |
| Western [4] | | 30,676 | 11,380 | 751 | | |

[1] Not shown separately to avoid disclosing information for individual establishments.
[2] Ala., Del., Ga., Ky., N. C., S. C., Tenn., Texas, Va., W. Va., Md., and Okla.
[3] Ill., Ind., Iowa, Mich., Minn., Mo., Ohio, and Wis.
[4] Calif., Oreg., Utah, Wash., and Wyo.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M15H.

## No. 944.—Cotton Manufactures—Production by Kind: 1939 to 1947

[Data for 1941–46 collected to meet requirements of war agencies; not strictly comparable with Census of Manufactures for 1939. 1947 data preliminary]

[In thousands of linear yards]

| PRODUCT | 1939 [1] | 1941 | 1943 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|
| **Cotton woven goods over 12 inches in width, except tire fabrics, total [2]** | **8,287,249** | **10,431,979** | **10,573,294** | **8,720,550** | **9,144,418** | **9,808,746** |
| Cotton duck | 173,979 | 338,063 | 550,472 | 436,513 | 241,652 | 212,020 |
| Narrow sheeting and allied coarse and medium yarn fabrics | 1,585,034 | 2,110,024 | 2,869,511 | 2,234,890 | 2,232,578 | 2,353,599 |
| Print-cloth yarn fabrics | 2,999,356 | 3,530,336 | 3,298,124 | 2,810,429 | 2,883,996 | 3,250,198 |
| Napped fabrics, total | 451,412 | 535,133 | 446,781 | 418,769 | 455,497 | 509,889 |
| Flannel, moleskin and duvetyn [3] | 313,346 | [4] 316,745 | 308,348 | 282,120 | 294,644 | 346,757 |
| Blankets, except crib, total [5] | [6] 74,774 | 101,940 | 63,195 | 41,697 | 42,498 | 48,765 |
| All-cotton, total | 58,407 | [7] 82,301 | [7] 49,323 | [7] 36,390 | [7] 37,924 | [7] 40,272 |
| Not jacquard | 45,452 | ([8]) | ([8]) | ([8]) | ([8]) | ([8]) |
| Jacquard | 12,955 | ([8]) | ([8]) | ([8]) | ([8]) | ([8]) |
| Part-wool (blankets, except all-cotton, containing less than 25 percent, by weight, of wool or similar fibers)—jacquard and not jacquard [5] | [6] 16,367 | [9] 19,639 | [9] 13,872 | [9] 5,307 | [9] 4,574 | [9] 8,493 |
| Crib blankets, all cotton | 10,750 | ([10]) | 11,795 | 16,637 | 20,621 | 22,742 |
| Crib blankets, all fibers | ([8]) | | | | | |
| Blanketing (made for sale as piece goods), all cotton | 5,507 | ([8]) | ([8]) | ([8]) | ([8]) | ([8]) |
| Other napped fabrics | 47,035 | 116,448 | 63,443 | 78,315 | 97,734 | 91,625 |
| Colored yarn cotton goods and related fabrics | 683,659 | 909,699 | 696,471 | 517,831 | 616,295 | 726,556 |
| Fine cotton-goods (all combed or part-combed cotton fabrics, including fabrics having rayon or other synthetic fiber or silk decorations and fine carded goods) | 1,036,206 | [11] 1,270,113 | [11] 1,335,739 | [11] 1,142,301 | [11] 1,275,542 | [11] 1,316,620 |
| Towels, toweling, washcloths, and terry-woven fabrics other than towels | 482,641 | 531,405 | 416,695 | 352,632 | 414,613 | 408,275 |
| Wide cotton fabrics | 557,475 | 679,329 | 586,351 | 493,426 | 562,335 | 646,314 |
| Specialties and all other fabrics | 317,487 | 527,877 | 373,150 | 313,759 | 461,910 | 385,275 |

[1] Data collected in 1939 Census were published in square yards, although the major fabric classifications included data in terms of linear yards.
[2] In the gray except blankets and blanketings. All figures for 1941–47 represent goods in the gray.
[3] Includes outing and interlining flannels, canton flannels, moleskin (heavy-filling sateens), duvetyns and suede.
[4] Data for interlining flannels, workshirt flannels, moleskins and suede included with all other napped fabrics.
[5] For production of wool-and-cotton mixed blankets and blanketing containing 25 to 98 percent wool, see table 948.
[6] 1939 data are for finished fabrics. 1941–47 are for goods in the gray.
[7] Includes a small quantity of cotton and rayon blankets.
[8] Data not available.
[9] Includes blanketing.
[10] Data for crib blankets not collected separately. Included with other blankets according to fiber content.
[11] Includes fabrics containing 51 percent or more cotton by weight, balance rayon.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1941–46 compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series 32-2; 1947 data published in Facts for Industry Series M15-A.

## No. 945.—Cotton and Rayon Woven Goods, Bleached, Dyed or Printed: 1939 to 1947

[Data cover bleaching, dyeing, and printing of cotton and rayon woven textiles. Data for 1941-46 collected to meet requirements of war agencies, not strictly comparable with Census of Manufactures for 1939. 1947 figures preliminary]

[In thousands of linear yards]

| PRODUCT | 1939 [1] | 1941 | 1943 | 1946 | 1947 |
|---|---|---|---|---|---|
| **Bleached, dyed or printed goods, total** | 6,302,775 | (2) | 9,034,432 | 8,648,290 | 8,671,213 |
| Cotton | 5,050,065 | 6,519,520 | 7,403,108 | 6,922,822 | 6,913,758 |
| Rayon [3] | 1,252,710 | (2) | 1,631,324 | 1,725,468 | 1,757,455 |
| **Bleached and white finished goods, total** | [4] 2,174,352 | (2) | 3,900,383 | 3,578,225 | 3,779,755 |
| Cotton | 2,174,352 | 3,054,821 | 3,681,604 | 3,379,892 | 3,573,289 |
| Rayon [3] | (4) | (2) | 218,779 | 198,333 | 206,466 |
| **Plain dyed and finished goods, total** | [4] 2,404,894 | (2) | 3,533,410 | 3,037,150 | 2,966,593 |
| Cotton | 1,431,938 | 2,112,435 | 2,479,416 | 1,871,852 | 1,764,417 |
| Rayon [3] | [4] 972,956 | (2) | 1,053,994 | 1,165,298 | 1,202,176 |
| **Printed and finished goods, total** [5] | 1,723,529 | (2) | 1,600,639 | 2,032,915 | 1,924,865 |
| Cotton | 1,443,775 | 1,352,264 | 1,242,088 | 1,671,078 | 1,576,052 |
| Rayon [3] | 279,754 | (2) | 358,551 | 361,837 | 348,813 |

[1] Cotton fabric data for 1939 include cotton, linen and cotton-warp mixtures. Rayon fabric data include rayon and silk, including mixtures.
[2] Complete data for finishing rayon fabrics in 1941 are not available.
[3] Rayon fabrics are defined as fabrics containing 51 percent or more rayon by weight. Rayon means synthetic yarns made by viscose, cuprammonium and cellulose acetate processes. An unknown quantity of fabrics made from nylon and other synthetic fibers are also included in the rayon yardage.
[4] White finished rayon goods are included with rayon dyed goods.
[5] Includes roller, screen, flock and block printed fabrics.

Source: Department of Commerce, Bureau of Census; 1939 from Biennial Census of Manufactures; 1941-46 compiled from manufacturers' reports to War Production Board and Civilian Production Administration. Published in Facts for Industry Series M15G.

## No. 946.—Pyroxylin Spread, Shipments by Type of Goods, and Capacity: 1935 to 1947

[Based on monthly figures of processors who coat or impregnate fabrics or paper (except shade cloth) with soluble cotton or pyroxylin preparations, either separately or in combination with other materials. "Light" cotton fabrics include sheetings and print cloths; "Heavy" cotton fabrics include drills, ducks, sateens, broken twills, and moleskins]

[Quantity and value figures in thousands]

| YEARLY AVERAGE OR YEAR | Number of establishments | Pyroxylin spread (pounds) | SHIPMENTS | | | | | | | | Capacity (linear yards) [2] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Light cotton fabrics | | Heavy cotton fabrics | | Custom coating | | Nonfabric material [1] | | |
| | | | Linear yards | Value | Linear yards | Value | Linear yards | Value | Linear yards | Value | |
| 1935-39 | 21 | 58,851 | 33,828 | $8,114 | 22,132 | $11,865 | (3) | (3) | -------- | -------- | 87,851 |
| 1940 | 21 | 59,656 | 33,986 | 7,932 | 26,652 | 13,117 | (3) | (3) | -------- | -------- | 87,611 |
| 1941 | 21 | 82,331 | 48,112 | 12,450 | 39,945 | 20,420 | (3) | (3) | -------- | -------- | 87,443 |
| 1942 | 21 | 58,306 | 37,335 | 11,510 | 28,297 | 16,426 | (3) | (3) | -------- | -------- | 87,515 |
| 1943 | 21 | 49,444 | 34,311 | 8,186 | 25,464 | 15,577 | (3) | (3) | -------- | -------- | 94,415 |
| 1944 | 21 | 54,882 | 38,759 | 12,434 | 26,747 | 15,496 | (3) | (3) | -------- | -------- | 97,759 |
| | | | | | | | | | | | (*pounds*) |
| 1945 | 29 | 59,941 | 34,532 | 11,355 | 17,453 | 11,825 | [4] 22,532 | [4] $4,928 | 2,378 | $592 | [5] 17,173 |
| 1946 | 28 | 79,209 | 48,336 | 19,862 | 27,554 | 21,303 | [4] 23,692 | [4] 6,508 | 4,762 | 1,716 | [5] 16,723 |
| 1947 | 27 | 66,158 | 40,609 | 21,370 | 24,213 | 24,807 | [4] 13,603 | [4] 3,469 | 2,289 | 1,064 | [5] 16,970 |

[1] Data not collected prior to January 1945.
[2] Based on maximum quantity of 1.27 to 1.30 sateen coated to a finished weight of 17½ ounces per linear yard, in a month of 350 working hours.
[3] Data for "Custom coating" included with "Light cotton fabrics" and "Heavy cotton fabrics."
[4] Data for "Fabrics other than cotton" included with "Custom coating" to avoid disclosing data for individual establishments.
[5] Based on all machines suitable for pyroxylin coating, assuming 600 working hours per month and entire production on 53"—1.32 sateen coated to a finished weight of 17½ ounces per linear yard assuming 40 percent solids. No comparative data available from 1935 to 1944.

Source: Department of Commerce, Bureau of the Census; annual summary of monthly reports on pyroxylin-coated fabrics and paper, Facts for Industry Series M15F.

## No. 947.—Rayon Broad Woven Fabrics—Production, by Type: July 1943 to December 1947

[Data cover production of rayon broad woven fabrics containing by weight 51 percent or more rayon. Fabrics reported are either 100 percent rayon or rayon mixtures containing 51 percent or more rayon with addition of cotton or other fibers. However, if wool fibers are added to extent of 25 percent or more, they are classed as woolen mixtures and are not included with fabrics listed. After Census of Manufactures for 1939, detailed data for this industry were not collected until 1943. Data for 1943–46 were collected to meet requirements of war agencies and are not comparable with Census of Manufactures data. 1947 data are preliminary]

[In thousands of linear yards]

| PRODUCT | July–Dec. 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|
| **Rayon broad woven fabrics, total** [1] | 807,631 | 1,602,633 | 1,552,105 | 1,713,364 | 1,903,308 |
| **100 percent filament rayon fabrics, total** | 566,574 | 1,103,210 | 1,028,708 | 1,048,965 | 1,210,356 |
| Flat fabrics, total | 358,178 | 658,398 | 599,655 | 555,187 | 629,371 |
| Bright viscose taffetas | 26,893 | 48,724 | 44,266 | 46,426 | 51,935 |
| Pigment viscose taffetas | 43,512 | 81,482 | 76,349 | 76,625 | 98,124 |
| Acetate taffetas | 38,506 | 86,446 | 85,721 | 77,712 | 70,161 |
| Cross-dyed taffetas | 9,359 | 21,113 | 21,800 | 23,031 | 14,131 |
| Rayon parachute fabrics | 70,967 | 76,173 | 62,023 | [2] | [2] |
| Jersey weaves | [2] | 5,364 | 5,998 | 9,867 | [2] |
| Sand weaves | [2] | 15,959 | 15,267 | [2] | [2] |
| Sharkskins | [2] | [2] | [2] | 9,311 | 14,662 |
| Twills and serges | 61,211 | 137,462 | 104,487 | 129,266 | 160,337 |
| Viscose satins | 4,946 | 17,758 | 16,875 | 16,280 | 25,222 |
| Acetate satins | 64,644 | 119,332 | 113,167 | 114,973 | 142,001 |
| All other flat fabrics | 38,140 | 48,585 | 53,702 | 51,696 | 52,798 |
| Twisted yarn fabrics, total | 208,396 | 444,812 | 429,053 | 493,778 | 580,985 |
| Crepe satins | 4,944 | 19,382 | 21,029 | 25,675 | 25,294 |
| Flat crepes | 34,412 | 72,246 | 30,965 | | |
| Faille | [2] | [2] | 31,044 | 87,735 | 106,779 |
| Canton crepes | 2,511 | 8,522 | 9,828 | | |
| French crepes | 38,999 | 84,708 | 84,905 | 98,235 | 123,462 |
| Plied yarn fabrics, plain weave | 78,042 | 148,197 | 135,438 | 83,220 | 111,886 |
| Plied yarn fabrics, fancy weave | | | | 52,873 | 51,453 |
| Marquisettes | 17,882 | 39,295 | 44,237 | 55,417 | 54,928 |
| Ninons and voiles | 17,289 | 39,338 | 38,012 | 41,445 | 41,392 |
| Other sheers (georgettes, triple sheers, etc.) | 14,317 | 33,124 | 33,595 | 37,832 | 52,876 |
| All other twisted yarn fabrics | [2] | [2] | [2] | 11,346 | 12,915 |
| **100 percent spun rayon fabrics, total** | 80,872 | 156,141 | 161,996 | 191,606 | 294,441 |
| Twills (including serges, gabardines, etc.) | | | | 33,923 | 62,107 |
| Ribbed and corded fabrics (poplins, bedford cord, etc.) | 35,130 | 82,505 | 76,130 | | |
| Challis | 3,950 | | | 3,450 | [3] |
| Linen type flakes | 7,282 | 23,766 | 25,385 | 18,700 | 22,518 |
| Plied yarn fabrics | 6,667 | 17,895 | 21,409 | 22,825 | 24,701 |
| All other 100 percent spun rayon fabrics | 27,843 | 31,975 | 39,072 | 49,326 | 54,652 |
| **Combination filament and spun rayon fabrics, total** | 71,662 | 154,398 | 159,100 | 63,382 | 130,463 |
| Poplins and failles | [4] | 38,834 | 34,323 | 172,609 | 182,242 |
| Shantungs | 13,465 | 27,837 | 23,024 | 62,999 | 72,175 |
| Fujis | 18,667 | 47,912 | 61,137 | 22,111 | [4] |
| All other filament and spun rayon | 39,530 | 39,815 | 40,616 | 65,832 | 62,937 |
| **Pile, upholstery, drapery, tapestry, and tie fabrics, total** [5] | 15,571 | 29,226 | 31,842 | 21,667 | 47,130 |
| Velvets, plushes and other pile fabrics | 4,084 | 8,345 | 8,134 | 46,398 | 46,351 |
| Upholstery, drapery, and tapestry fabrics | 2,925 | 4,154 | 5,042 | 9,535 | 11,823 |
| Yarn-dyed tie fabrics | 8,562 | 16,727 | 18,666 | 15,962 | 13,513 |
| Non-yarn-dyed tie fabrics | | | | 14,394 | 21,015 |
| | | | | 6,507 | |
| **All other rayon mixtures, total** | 72,952 | 159,658 | 170,459 | 253,786 | 169,918 |
| Rayon and wool | 11,468 | 24,921 | 27,921 | 39,225 | 34,728 |
| Filament rayon and cotton | | | | 81,744 | |
| Spun rayon and cotton | 48,337 | 96,488 | 97,621 | 83,812 | 135,190 |
| Rayon and other fibers | 13,147 | 38,249 | 44,917 | 49,005 | |
| **Silk, nylon, glass, and other fabrics, total** [6] | 40,354 | 83,920 | 67,368 | 61,829 | 58,183 |
| 100 percent nylon fabrics | 33,395 | 64,399 | 43,382 | 21,539 | 20,573 |
| 100 percent silk fabrics | 1,739 | 1,650 | 1,891 | [7] 9,533 | [7] 8,938 |
| Other woven fabrics, not classified above | 5,220 | 17,871 | 22,095 | 30,757 | 28,672 |

[1] Includes estimated production for a few mills not reporting; estimates distributed by fabric classification.
[2] Included in "All other flat fabrics."
[3] Included with "All other 100 percent spun rayon fabrics" to avoid disclosing data for individual establishments.
[4] Included in "All other filament and spun rayon."
[5] Fabrics containing 51 percent or more rayon by weight, without separation as to type of yarn used; includes filament rayon, spun rayon and mixtures of rayon and other fiber.
[6] Includes fabrics made of casein, other synthetic fibers and mixtures of rayon and other fibers containing less than 51 percent of rayon.
[7] Includes small amount of silk mixtures.

Source: Department of Commerce, Bureau of the Census; compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series 32-3; 1947 data published in Facts for Industry Series M15C.

## No. 948.—Woolen and Worsted Manufactures—Production, by Kind, 1939 to 1947

[Woolen and worsted woven goods defined as fabrics containing by weight 25 percent or more wool fiber. Wool fiber means fibers as defined by Wool Products Labeling Act of 1939. Data beginning with 1943 not strictly comparable with those published in Census of Manufactures for 1939. Detailed information on military fabrics required by war agencies, and in most cases, collected by type of fabric rather than by end use. Consultations with military agencies provided basis for estimating end use of each type of fabric. Estimates occurred primarily in men's wear fabrics, and involved less than 15 percent of total apparel fabrics produced. Production figures of women's and children's wear fabrics collected by weight of fabric instead of end use. In Census of Manufactures for 1939 data collected from this industry on a square-yard basis; present series requires reporting of linear yards, with narrow fabrics converted to a 54-inch width. 1939 data converted to a 54-inch linear yard measure by dividing quantity of square yards by 1½, excepting blankets which were converted to a 72-inch linear yard measure by dividing quantities of square yards by 2]

| PRODUCT | 1939 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|
| | Thousands of linear yards [1] | | | | | |
| **Woven goods (except woven felt)** | 371,848 | 536,429 | 527,995 | 493,431 | 603,718 | 501,443 |
| **Apparel fabrics** [2] | 321,008 | 440,573 | 440,680 | 401,434 | 524,286 | 437,074 |
| Men's wear | 178,856 | 256,769 | 217,778 | 204,191 | 228,114 | |
| Men's wear suitings and pantings | 149,788 | 166,282 | 163,735 | 151,123 | 188,098 | |
| Men's wear shirtings | 1,880 | 46,007 | 21,194 | 25,227 | 18,313 | |
| Men's wear overcoatings and topcoatings | 27,188 | 44,480 | 32,849 | 27,841 | 21,703 | |
| Women's and children's wear [3] | 107,080 | 132,097 | 170,467 | 141,443 | 234,921 | |
| Weighing up to 8.9 ounces | [4] | 23,507 | 37,123 | 21,992 | 42,872 | |
| Weighing 9–12.9 ounces | [4] | 49,805 | 76,140 | 78,151 | 127,477 | [5] |
| Weighing over 13 ounces | [4] | 58,785 | 57,204 | 41,300 | 64,572 | |
| General use fabrics | 25,668 | 44,026 | 47,064 | 48,100 | 51,627 | |
| Melton, mackinaw, snow and ski suit cloths | [6] 8,892 | 9,705 | 15,978 | 17,278 | 17,933 | |
| Linings and interlinings | 6,204 | 27,918 | 22,358 | 23,662 | 20,188 | |
| Bathrobe flannels | 10,572 | 6,403 | 8,728 | 7,160 | 13,506 | |
| Other apparel fabrics | 9,404 | 7,681 | 5,371 | 7,700 | 9,624 | |
| **Nonapparel fabrics (except woven felts)** | 50,840 | 95,856 | 87,315 | 91,997 | 79,432 | 64,369 |
| Blankets | 19,576 | 89,302 | 78,887 | 80,167 | 48,457 | 31,848 |
| 98 percent or more wool or similar animal fibers | [4] | 66,303 | 52,713 | 52,894 | 18,494 | |
| 50 percent but less than 98 percent wool or similar animal fibers | [4] | 6,800 | 7,381 | 7,778 | 10,775 | [5] |
| 25 percent but less than 50 percent wool or similar animal fibers | [4] | 16,199 | 18,793 | 19,495 | 19,188 | |
| Upholstery fabrics | 5,688 | 1,904 | 4,162 | 7,817 | 28,631 | 28,932 |
| Bunting | [4] | 527 | 1,499 | [7] | [7] | [7] |
| Other nonapparel | 25,576 | 4,123 | 2,767 | 4,013 | 2,344 | 3,589 |
| | Thousands of pounds | | | | | |
| Papermakers' felts | 5,164 | 5,074 | 5,643 | 5,819 | 6,590 | 7,238 |
| Other woven felts | 1,576 | 3,668 | 3,655 | 3,182 | 3,331 | 3,479 |

[1] Measure used in 1939 was square yards; data converted to a 54-inch linear yard measure, excepting blankets which have been converted to a 72-inch linear yard measure. Data for 1943–47 on narrow fabrics converted by reporting companies to a 54-inch linear yard measure.
[2] Includes data for military fabrics reported by types. Estimates as to end use classification made on less than 15 percent of total quantity of apparel fabrics.
[3] Data for 1939 collected as to end use; 1943–46 data collected by weight of fabric.
[4] Data not available.
[5] Data not collected on same basis last half of 1947.
[6] An unknown quantity of these fabrics included in the women's and children's wear classifications.
[7] Included in other nonapparel fabric classification.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1942–46 compiled from manufacturers' reports to War Production Board and Civilian Production Administration. Published in Facts for Industry Series M15H.

## No. 949.—Knit Goods: Cloth, Underwear, and Outerwear—Production, by Type: 1944 to 1947

| PRODUCT | Unit | 1944 | 1945 | 1946 | 1947 [1] |
|---|---|---|---|---|---|
| **Knit cloth for sale, total** [2] | **Million pounds** | 125.9 | 130.0 | 148,1 | 117,9 |
| Warp knit fabrics | do | 28.6 | 28.1 | 34.3 | 35.7 |
| Circular knit fabrics | do | 97.3 | 101.9 | 113.8 | 82.2 |
| Knit underwear: [3] | | | | | |
| **Knit rayon underwear and nightwear, total** | **Thousand dozens** | 14,981,6 | 15,235.7 | 16,144,7 | 18,516,1 |
| Made from circular knit tubing | do | 11,155.6 | 10,725.4 | 10,675.7 | 11,632.4 |
| Made from warp knit fabric | do | 3,826.0 | 4,510.3 | 5,469.0 | 6,883.7 |
| **Knit cotton and wool underwear, total** | do | 37,496.7 | 38,231.9 | 37,687.6 | 39,778,3 |
| Union suits | do | 3,329.1 | 2,634.3 | 3,131.3 | 4,379.3 |
| Undershirts | do | 13,286.5 | 13,456.8 | 10,811.5 | 12,881.3 |
| Drawers | do | 2,396.9 | 1,894.3 | 1,166.5 | 1,301.5 |
| Shirts, briefs, vests, and panties | do | 18,484.2 | 20,246.5 | 22,578.3 | 21,126.2 |
| Knit outerwear: [4] | | | | | |
| Sweaters, jackets, and jerseys | do | 8,809 | 8,773 | 9,285 | 6,387 |
| Bathing suits and trunks | do | 595 | 779 | 901 | 465 |
| Knit headwear and neckwear | do | 2,534 | 2,523 | 2,378 | 1,083 |

[1] Preliminary. [2] Data account for practically entire production.
[3] Data account for approximately 90 percent of total production.
[4] Data account for approximately 93 percent of total production.

Source: Dept. of Commerce, Bureau of Census; published in Facts for Industry Series M15K, M67C, and M67G.

## No. 950.—Women's and Children's Clothing—Production, by Type: 1943 to 1947

[No data available for 1945]

| TYPE OF GARMENT | Unit | 1943 [1] | 1944 [1] | 1946 | 1947 [2] |
|---|---|---|---|---|---|
| Women's and misses' blouses | Thousand dozens | 6,734 | 6,328 | 6,154 | 5,856 |
| Women's and misses' unit price dresses | Thousand units | 139,409 | 135,225 | 134,185 | 112,042 |
| Women's and misses' dozen price dresses | Thousand dozens | 7,889 | 6,879 | 6,574 | 5,708 |
| Women's and misses' suits | Thousand units | 13,041 | 13,340 | 17,491 | 13,512 |
| Women's and misses' skirts | Thousand dozens | 2,428 | 1,841 | 1,795 | 1,788 |
| Women's and misses' untrimmed coats | Thousand units | 21,670 | 20,310 | 20,139 | 17,419 |
| Women's and misses' *fur-trimmed coats* | do | *3,431* | *2,387* | *1,685* | *1,725* |
| Women's and misses' slips and petticoats | Thousand dozens | 9,088 | 8,009 | 9,431 | 8,634 |
| Children's dresses | Thousand units | 70,695 | 70,948 | [3] | 60,525 |
| Children's coats | do | 9,507 | 13,294 | [3] | 9,934 |

[1] Includes estimates for firms (excused from filing during 1943 and 1944) with 1943 sales of less than $150,000.
[2] Preliminary. [3] No data available.

Source: Dept. of Commerce, Bureau of Census; published in Facts for Industry Series M67H, M67J, and M67K

## No. 951.—Men's and Boys' Clothing—Selected Garments Cut: 1937 to 1947

[Leaders indicate comparable data not available]

| TYPE OF GARMENT | Unit | 1937 | 1939 | 1946 | 1947 |
|---|---|---|---|---|---|
| Suits | Thousand units | 23,743 | 27,354 | 27,053 | 29,019 |
| Men's and youths' | do | 20,733 | 24,737 | 24,078 | 26,605 |
| Boys' | do | 3,010 | 2,617 | 2,975 | 2,414 |
| Separate trousers, wool | do | ---------- | ---------- | 31,102 | 30,951 |
| Men's and youths' | do | ---------- | ---------- | 25,681 | 26,243 |
| Boys' | do | ---------- | ---------- | 5,421 | 4,708 |
| Separate coats | do | ---------- | ---------- | 8,033 | 5,460 |
| Men's and youths' | do | ---------- | ---------- | 6,977 | 4,922 |
| Boys' | do | ---------- | ---------- | 1,056 | 538 |
| Overcoats and topcoats | do | ---------- | ---------- | 8,289 | 7,610 |
| Men's and youths' | do | 6,169 | 5,644 | 8,086 | 7,300 |
| Boys' | do | ---------- | ---------- | 203 | 310 |
| Dress and sport shirts | Thousand dozens | [1] 14,251 | 15,361 | 16,061 | 18,040 |
| Men's and youths' | do | [1] 12,027 | 13,362 | 13,878 | 16,347 |
| Boys' | do | [1] 2,224 | 1,999 | 2,183 | 1,693 |
| Separate trousers, cotton and rayon | Thousand units | ---------- | ---------- | 37,012 | 27,360 |
| Men's and youths' | do | ---------- | ---------- | 24,005 | 18,316 |
| Boys' | do | ---------- | ---------- | 13,007 | 9,044 |
| Overalls | Thousand dozens | 4,114 | 3,973 | 5,616 | 6,568 |
| Men's and youths' | do | ---------- | ---------- | 3,219 | 4,133 |
| Boys' | do | ---------- | ---------- | 2,397 | 2,435 |
| Work shirts (includes flannel) | do | 6,062 | 6,850 | 7,145 | 5,664 |
| Men's and youths' | do | ---------- | ---------- | 6,359 | 4,800 |
| Boys' | do | ---------- | ---------- | 786 | 864 |

[1] Includes polo, tennis, and basque shirts of knitted fabrics.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M67B.

## No. 952.—Hosiery—Production, by Type: 1942 to 1947

[In thousands of dozens of pairs]

| TYPE | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|
| **Total, all types** | **147,902** | **149,282** | **141,435** | **135,841** | **157,383** | **149,545** |
| Women's full-fashioned, total | 35,082 | 37,998 | 36,595 | 34,740 | 40,323 | 38,875 |
| All-silk | 379 | 12 | 1 | (1) | 1,602 | 687 |
| Silk leg, with cotton or rayon welt | 2,940 | 45 | 6 | | 387 | 411 |
| All-nylon | 798 | 4 | | 2,697 | 23,319 | 31,622 |
| Nylon leg, with cotton or rayon welt | 2,785 | 17 | 2 | 359 | 3,078 | 1,872 |
| All-rayon | 25,167 | 27,126 | 25,991 | 24,061 | 7,575 | 2,802 |
| Rayon leg, with cotton welt | | 8,357 | 10,301 | 7,383 | 3,826 | 1,117 |
| Cotton | 2,474 | 1,814 | 210 | 162 | 347 | 300 |
| All other yarns, and mixtures | 540 | 622 | 83 | 78 | 189 | 64 |
| Seamless, total (incl. men's full-fashioned) | 112,820 | 111,284 | 104,840 | 101,100 | 117,060 | 110,669 |
| Women's seamless | 15,192 | 13,043 | 9,462 | 7,420 | 9,832 | 11,246 |
| Men's full-fashioned | 102 | 62 | 99 | 118 | 171 | 129 |
| Men's seamless half-hose | 38,040 | 36,766 | 36,204 | 35,030 | 26,734 | 24,662 |
| Silk | 92 | 36 | 1 | | 69 | 19 |
| Nylon | 118 | 1 | | 6 | 230 | 450 |
| Rayon | 14,354 | 10,752 | 9,124 | 8,180 | 8,566 | 8,634 |
| Cotton | 19,889 | 18,755 | 15,914 | 14,875 | 13,182 | 12,156 |
| Wool | 3,588 | 7,222 | 11,165 | 11,969 | 4,687 | 3,401 |
| Men's slack socks | 14,392 | 15,724 | 12,608 | 13,564 | 21,885 | 21,911 |
| Silk | (2) | (2) | (2) | (2) | 40 | 49 |
| Nylon | (2) | (2) | (2) | (2) | 140 | 648 |
| Rayon | (2) | (2) | (2) | (2) | 6,491 | 8,143 |
| Cotton | (2) | (2) | (2) | (2) | 12,007 | 11,657 |
| Wool | (2) | (2) | (2) | (2) | 3,206 | 1,414 |
| Cotton bundle goods | 5,805 | 5,693 | 5,902 | 5,248 | 5,216 | 5,627 |
| Woolen bundle goods | 2,482 | 3,083 | 3,267 | 3,704 | 2,104 | 1,830 |
| Athletic socks | 1,057 | 1,164 | 1,192 | 847 | 2,302 | 1,610 |
| Crew socks | (3) | (3) | (3) | (3) | 3,528 | 3,239 |
| Children's and infants' | 6,117 | 4,546 | 5,224 | 6,281 | 8,150 | 8,221 |
| Anklets, total | 29,636 | 31,202 | 30,882 | 28,888 | 37,138 | 32,195 |
| Misses' and women's | 20,365 | 22,615 | 20,637 | 18,816 | 25,012 | 16,680 |
| Men's and boys' | 1,498 | 1,797 | 1,952 | 1,986 | 3,015 | 3,673 |
| Children's | (2) | (2) | (2) | (2) | (2) | 5,809 |
| Infants' | 7,773 | 6,790 | 8,294 | 8,085 | 9,111 | 6,033 |

[1] Less than 500 dozens.
[2] Not available.
[3] Included with men's slack socks.

Source: National Association of Hosiery Manufacturers, New York, New York; published annually in Hosiery Statistics.

## No. 953.—Shoes and Slippers (Other Than Rubber)—Production by Class: 1914 to 1947

[**In thousands of pairs.** Data for 1925 and subsequent years compiled from monthly reports of manufacturers representing almost entire production in U. S. 1947 data preliminary]

| CLASS | 1914 | 1919 | 1925 | 1930 | 1935 | 1940 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|---|
| **Total** | **292,666** | **331,225** | **323,553** | **304,170** | **383,761** | **404,151** | **486,226** | **528,962** | **468,044** |
| Leather uppers: | | | | | | | | | |
| Men's [1] | 98,031 | 95,017 | 86,546 | 77,147 | 99,525 | 102,383 | 107,742 | 106,044 | 106,253 |
| Youths' and boys' | 22,896 | 26,504 | 21,021 | 18,530 | 17,847 | 15,276 | 14,237 | 20,515 | 18,509 |
| Women's | 80,916 | 104,813 | 104,782 | 112,629 | 145,231 | 151,944 | 120,150 | 181,351 | 191,556 |
| Misses' | 48,322 | 48,538 | 38,691 | 32,037 | 37,276 | 40,750 | 21,836 | 25,869 | 27,655 |
| Children's | | | | | | | 20,172 | 25,143 | 26,455 |
| Infants' | 15,477 | 16,669 | 24,587 | 18,558 | 21,167 | 21,750 | 30,348 | 34,751 | 32,742 |
| Athletic [1] | (2) | 586 | 5,914 | 1,728 | 1,961 | 4,454 | 2,808 | 5,954 | 4,282 |
| Part-leather | (3) | (3) | (3) | (3) | 2,891 | 9,482 | 5,599 | 15,597 | 6,802 |
| Non-leather [4] | (2) | 11,056 | 8,564 | 2,593 | 3,671 | 6,395 | 91,867 | 45,901 | 13,117 |
| Slippers [5] | (2) | (2) | 23,899 | 34,994 | 42,055 | 46,387 | 68,008 | 65,327 | 38,434 |
| All other footwear | 27,024 | 28,042 | 9,549 | 5,954 | 12,138 | 5,331 | 3,459 | 2,510 | 2,239 |

[1] Figures beginning with 1930 not strictly comparable with earlier years owing to fact that large quantities of heavy footwear now included with men's shoes were included with "Athletic" prior to 1927. Men's shoes include Government shoes beginning with 1941.
[2] Not reported separately; included with "all other."
[3] Not reported separately; included with various classes of boots and shoes.
[4] Includes footwear with fabric uppers and rubber soles made on conventional shoe machinery.
[5] Includes slippers and moccasins (all leather and part leather, felt, etc.) for house wear.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M68A.

## No. 954.—Printing and Publishing—Receipts and Circulation: 1929 to 1939

| CLASS | VALUE (THOUSANDS OF DOLLARS) | | |
|---|---|---|---|
| | 1929 | 1937 | 1939 |
| **Aggregate value and receipts** [1] | 2,676,262 | 2,173,062 | 2,149,603 |
| Newspapers and periodicals, printed and published or published only | 1,580,565 | 1,269,524 | 1,254,715 |
| Newspapers | 1,073,119 | 861,689 | 845,687 |
| Subscriptions and sales | 275,781 | 287,508 | 306,192 |
| Advertising | 797,338 | 574,180 | 539,495 |
| Periodicals | 507,445 | 407,835 | 409,027 |
| Subscriptions and sales | 184,545 | 171,961 | 184,572 |
| Advertising | 322,900 | 235,874 | 224,455 |
| Books [1] | 243,867 | 230,739 | 239,987 |
| Printed and published or published only | 185,870 | 159,868 | 149,380 |
| Printed for publication by others [1 2] | 57,998 | 70,871 | 90,607 |
| Pamphlets, printed and published or published only | 13,145 | 8,389 | 15,000 |
| Maps, atlases and globe covers [1] | [3] | 8,283 | 8,262 |
| Printed and published or published only | [3] | 6,495 | 4,964 |
| Made for others [1] | [3] | 1,788 | 3,298 |
| Greeting cards [1] | [4] | 32,637 | 44,286 |
| Printed and published or published only | [3] | [3] | 28,314 |
| Printed for others [1] | [3] | [3] | 15,972 |
| Souvenir cards | [4] | [5] | 1,412 |
| Newspapers and periodicals printed for others [1] | 71,521 | 81,772 | 87,852 |
| Labels, tags, and seals [6] | 7,384 | 51,874 | 53,085 |
| Other commercial printing | 759,781 | 487,399 | 442,819 |
| Manifolding done in printing establishments | [3] | 2,446 | 2,186 |

| CLASS | AGGREGATE CIRCULATION PER ISSUE (AVERAGE FOR THE YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 1929 | 1931 | 1933 | 1935 | 1937 | 1939 |
| Newspapers: | | | | | | |
| Daily: | | | | | | |
| Morning | 15,741,769 | 15,480,287 | 14,781,657 | 15,983,996 | 17,311,078 | 17,152,298 |
| Evening | 26,273,692 | 25,813,372 | 22,848,688 | 24,886,550 | 26,033,858 | 25,813,827 |
| Sunday | 29,011,648 | 27,453,465 | 25,453,894 | 29,196,006 | 32,713,298 | 33,006,875 |
| Triweekly | 287,152 | 184,380 | 140,497 | 120,601 | 231,365 | 219,121 |
| Semiweekly | 1,580,221 | 1,352,720 | 1,025,567 | 1,723,630 | 1,719,820 | 1,989,744 |
| Weekly | 18,883,551 | 16,173,234 | 12,048,317 | 15,185,366 | 17,286,731 | 18,294,604 |
| Periodicals: | | | | | | |
| Daily | 932,363 | 830,992 | 793,936 | 681,697 | 790,722 | 1,979,417 |
| Triweekly | 24,625 | 31,314 | 25,206 | 22,327 | 32,978 | 27,152 |
| Semiweekly | 1,401,963 | 1,284,406 | 1,810,522 | 2,129,010 | 2,556,002 | 2,994,810 |
| Weekly | 34,494,799 | 30,781,548 | 39,365,192 | 42,648,210 | 56,115,124 | 55,825,296 |
| Semimonthly | 9,168,458 | 6,375,456 | 4,592,507 | 5,507,919 | 7,547,644 | 8,135,260 |
| Monthly | 133,048,488 | 122,670,528 | 103,192,794 | 102,193,740 | 124,520,846 | 134,766,467 |
| Quarterly | 20,605,002 | 19,575,617 | 23,237,557 | 23,277,089 | 25,808,324 | 26,238,181 |
| Other classes | 2,345,897 | 1,977,550 | 1,741,779 | 2,160,680 | 6,903,152 | 9,725,925 |

[1] The inclusion of "Books and pamphlets printed for publication by others," "Maps, atlases and globe covers made for others," "Greeting cards printed for others," "Newspapers and periodicals printed for publication by others," etc. results in duplication in the aggregate value and receipts, as follows: 1937, $158,466,000; 1939, $201,627,000. (No separate data available for greeting cards for 1937.) These amounts represent receipts by commercial printers for work done by them for other printers or for publishers, and consequently enter twice into the aggregate value and receipts.

[2] Includes "Pamphlets printed for publication by others."

[3] No data.

[4] Included with "Other commercial printing."

[5] Included with "Greeting cards."

[6] In addition, labels, tags, and seals were produced by methods other than letterpress, as follows: 1937, $25,693,000; 1939, $29,944,000. 1929 figures are not available.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 955.—Chemicals—Production, by Kind, 1939 to 1947

[Data for chemicals shown are restricted to a selected group comprised for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Data for production by Government-owned arsenals, ordnance works, and certain plants operated for Government by private industry are excluded, except that data for chemicals manufactured by Tennessee Valley Authority are included]

| CHEMICAL AND BASIS | Unit | 1939 | 1943 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|
| Ammonia, synthetic anhydrous | Short tons | 310,822 | [1] 543,380 | [1] 548,655 | [1] 725,537 | [1] 2] 10,913,873 |
| Ammonium nitrate, original solution ($100\%NH_4NO_3$). | do | (3) | 383,358 | 421,487 | 724,899 | 1,047,792 |
| Ammonium sulfate, synthetic (technical) [4] | M pounds | (3) | (5) | 177,726 | 313,306 | 394,053 |
| Calcium arsenate ($100\%Ca_3(AsO_4)_2$) | do | [6] 41,349 | 74,854 | (5) | 35,392 | 47,186 |
| Calcium carbide (commercial) | Short tons | (3) | 659,021 | 672,568 | 570,138 | 608,337 |
| Calcium phosphate: | | | | | | |
| Monobasic ($100\%CaH_4(PO_4)_2$) | M pounds | 74,076 | 70,293 | 62,726 | 74,986 | 71,736 |
| Dibasic ($100\%CaHPO_4$) | do | (3) | 36,949 | 58,931 | 71,587 | 77,536 |
| Carbon, activated [7] | do | 32,336 | [8] 59,249 | 62,577 | 65,102 | 71,097 |
| Carbon dioxide: | | | | | | |
| Liquid and gas | do | (3) | 206,426 | 236,084 | 217,241 | 243,879 |
| Solid (dry ice) | do | 356,894 | 563,812 | 659,169 | 644,699 | 723,166 |
| Chlorine, gas | Short tons | 514,401 | 1,214,416 | 1,192,081 | 1,165,126 | [2] 1,395,013 |
| Chrome green (C. P.) | M pounds | 10,029 | [8] 8,351 | 9,068 | 17,871 | 14,161 |
| Chrome yellow and orange (C. P.) | do | [9] 38,933 | 38,338 | [10] 44,080 | 43,122 | 49,044 |
| Hydrochloric acid ($100\%HCl$) | Short tons | 123,831 | 342,475 | 407,551 | 341,580 | [2] 424,384 |
| Hydrofluoric acid, anhydrous and technical ($100\%H_2F_2$). | M pounds | 14,842 | 45,438 | 86,377 | 42,921 | 55,181 |
| Hydrogen | Mil. cu. ft | (3) | 22,975 | 22,247 | 17,605 | [2] 21,853 |
| Lead arsenate (acid and basic) | M pounds | 59,569 | 73,955 | 70,522 | 56,667 | 30,186 |
| Methanol (natural) ($100\%CH_3OH$) | M gallons | 4,005 | 3,881 | 2,814 | 2,306 | 2,525 |
| Molybdate chrome orange (C. P.) | M pounds | (3) | 1,752 | 2,280 | 4,896 | 4,458 |
| Nitric acid ($100\%HNO_3$) | Short tons | 167,740 | 483,197 | 447,088 | 573,827 | [2] 796,772 |
| Oxygen | Mil. cu. ft | (3) | 16,530 | 13,943 | 10,868 | 13,792 |
| Phosphoric acid: | | | | | | |
| Total ($50\%H_3PO_4$) | Short tons | (3) | 636,847 | 730,943 | 894,615 | 1,038,414 |
| From phosphorus ($50\%H_3PO_4$) | do | (3) | 285,527 | 364,850 | 440,056 | 555,176 |
| From phosphate rock ($50\%H_3PO_4$) | do | (3) | 351,320 | 366,093 | 454,559 | 483,238 |
| Silica gel, desiccant and aviation gas catalyst grades. | M pounds | ---------- | 47,091 | 133,973 | 49,682 | ---------- |
| Silver nitrate ($100\%AgNO_3$) | M ounces | (3) | 47,351 | 57,812 | 47,857 | 40,231 |
| Soda ash (commercial sodium carbonate): | | | | | | |
| Ammonia soda process— | | | | | | |
| Total wet and dry ($98–100\%Na_2CO_3$) [11] | Short tons | 2,826,000 | 4,407,600 | 4,375,017 | 4,284,231 | 4,519,144 |
| Finished light ($98–100\%Na_2CO_3$) [12] | do | ---------- | 2,305,776 | 2,285,532 | 2,079,959 | 3,835,847 |
| Finished dense ($98–100\%Na_2CO_3$) | do | ---------- | 1,387,952 | 1,444,022 | 1,546,746 | 1,641,452 |
| Natural ($Na_2CO_3$ equivalent) [13] | do | 121,858 | 163,523 | 181,783 | 209,411 | 281,132 |
| Sodium bicarbonate (refined) ($100\%NaHCO_3$). | do | [8] 150,913 | 172,998 | 174,949 | 188,945 | 181,145 |
| Sodium bichromate and chromate | do | 58,164 | 81,963 | 80,672 | 85,490 | 87,874 |
| Sodium hydroxide (caustic soda): [14] | | | | | | |
| Electrolytic process— | | | | | | |
| Liquid ($100\%NaOH$) | do | 512,492 | 1,115,200 | 1,129,312 | 1,129,956 | [2] 1,332,993 |
| Solid ($100\%NaOH$) | do | ---------- | 228,749 | 213,449 | 192,952 | 238,683 |
| Lime—soda process— | | | | | | |
| Liquid ($100\%NaOH$) | do | 532,914 | 663,492 | 734,993 | 742,932 | 747,247 |
| Solid ($100\%NaOH$) | do | ---------- | 241,624 | 244,015 | 226,349 | 244,992 |
| Sodium phosphate: | | | | | | |
| Monobasic ($100\%NaH_2PO_4$) | do | (3) | 10,885 | 14,783 | 11,961 | 14,214 |
| Dibasic ($100\%Na_2HPO_4$) | do | 32,382 | 45,899 | 62,673 | 59,328 | 83,340 |
| Tribasic ($100\%Na_3PO_4$) | do | 116,731 | 72,632 | 88,731 | 94,963 | 89,055 |
| Meta ($100\%NaPO_3$) | do | (3) | 18,019 | 27,925 | 26,088 | 30,662 |
| Tetra ($100\%Na_4P_2O_7$) | do | 48,691 | 36,037 | 43,447 | 52,149 | 56,170 |
| Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous). | do | (3) | 361,863 | 410,686 | 412,357 | [2] 474,589 |
| Sodium sulfate: | | | | | | |
| Anhydrous (refined) ($100\%Na_2SO_4$) | do | (3) | 76,608 | 91,340 | 122,573 | 135,088 |
| Glauber's salt ($100\%Na_2SO_4.10H_2O$) [13] | do | (3) | 212,067 | 200,782 | 167,153 | 197,963 |
| Salt cake (crude) (commercial) [13] | do | (3) | 564,941 | 543,371 | 527,746 | 627,331 |

For footnotes, see next page.

## No. 955.—Chemicals—Production, by Kind, 1939 to 1947—Continued

| CHEMICAL AND BASIS | Unit | 1939 | 1943 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|
| Sulfuric acid: | | | | | | |
| Gross (100% $H_2SO_4$) [15] | Short tons | 4,795,003 | 8,442,145 | 9,522,136 | 9,319,652 | 10,555,510 |
| Chamber process (100% $H_2SO_4$) | do | 2,120,963 | 3,147,590 | 3,169,197 | 3,099,016 | 3,284,997 |
| Contact process (gross) (100% $H_2SO_4$) [15] | do | 2,674,040 | 5,294,555 | 6,352,939 | 6,220,636 | 7,270,513 |
| Contact process (new) (100% $H_2SO_4$) [15] | do | | 4,703,193 | 5,517,873 | 5,676,232 | 6,654,170 |
| Fortified spent acid (100% $H_2SO_4$) | do | | 591,362 | 835,066 | 544,404 | 616,343 |
| Zinc yellow (zinc chromate) (C. P.) | do | | 12,958 | 12,326 | | 3,376 |

[1] Includes data for small amount of aqua ammonia reported by one company.
[2] Preliminary
[3] No comparable data.
[4] Excludes by-product coke-oven production.
[5] Not shown separately to avoid disclosure of individual operations.
[6] Proportion of estimate, 5 percent.
[7] Includes data for deodorizing, decolorizing, and water purification grades. Data for gas-mask solvent recovery grades excluded.
[8] Proportion of estimate, 3 percent or less.
[9] Includes data for molybdate chrome orange.
[10] About 1 percent of production represents data for pulp colors, and flushed and reduced chrome yellow.
[11] Includes quantities diverted to manufacture of caustic soda and sodium bicarbonate and quantities processed to finished light and finished dense soda ash.
[12] Excludes quantities converted to finished dense soda ash.
[13] Collected in cooperation with Bureau of Mines.
[14] Liquid production figures represent total production for each process, including quantities later evaporated to solid caustic and reported as such.
[15] Includes sulfuric acid of oleum grades.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1943–47 compiled from manufacturers' reports and published in Facts for Industry Series M19A. Monthly data published currently.

## No. 956.—Synthetic Organic Chemicals—Production and Sales, by Group: 1945 and 1946

| GROUP | 1945 | | | 1946 [1] | | |
|---|---|---|---|---|---|---|
| | Production (1,000 lb.) | Sales (1,000 lb.) | Sales value ($1,000) | Production (1,000 lb.) | Sales (1,000 lb.) | Sales value ($1,000) |
| ORGANIC CHEMICALS, CYCLIC | | | | | | |
| Intermediates | 2,326,921 | 1,256,625 | 143,042 | 2,547,485 | 1,417,509 | 159,870 |
| **Finished products** | 2,695,993 | 2,479,744 | 774,428 | 2,603,117 | 2,678,924 | 894,635 |
| Dyes | 145,213 | 138,248 | 103,489 | 186,307 | 184,855 | 120,289 |
| Color index | 109,407 | 102,565 | 60,002 | 152,244 | 150,898 | 78,691 |
| Prototype | 21,076 | 21,328 | 27,138 | 19,020 | 18,669 | 24,358 |
| Ungrouped | 14,730 | 14,355 | 16,349 | 15,043 | 15,288 | 17,240 |
| Color lakes and toners | 23,177 | 21,756 | 17,310 | 32,316 | 30,622 | 26,464 |
| Medicinals | 39,107 | 35,306 | 143,218 | 36,099 | 35,356 | 201,077 |
| Flavor and perfume materials | 12,719 | 11,025 | 14,784 | 10,981 | 10,102 | 15,736 |
| Plastic materials | 413,406 | 385,141 | 96,327 | 548,915 | 498,687 | 127,290 |
| Rubber processing chemicals | 80,080 | 69,485 | 28,768 | 80,129 | 72,900 | 29,604 |
| Elastomers (synthetic rubbers) | 1,620,062 | 1,500,087 | 278,577 | 1,379,411 | 1,548,275 | 288,473 |
| Miscellaneous [2] | 362,229 | 318,696 | 91,955 | 328,959 | 298,127 | 85,702 |
| ORGANIC CHEMICALS, ACYCLIC | | | | | | |
| **Intermediates and finished products** | 9,682,124 | 5,653,794 | 935,901 | 9,202,859 | 5,430,302 | 851,063 |
| Medicinals | 4,978 | 4,719 | 17,754 | 4,607 | 5,016 | 17,022 |
| Flavor and perfume materials | 5,398 | 5,066 | 5,442 | 6,042 | 5,891 | 7,023 |
| Plastic materials | 404,614 | 377,299 | 172,722 | 445,362 | 435,524 | 207,995 |
| Rubber-processing chemicals | 20,963 | 21,755 | 15,242 | 15,433 | 14,485 | 10,801 |
| Elastomers (synthetic rubbers) | 284,034 | 284,039 | 81,402 | 328,373 | 334,818 | 83,481 |
| Miscellaneous [2] | 8,962,137 | 4,960,916 | 643,339 | 8,403,042 | 4,634,568 | 524,741 |

[1] Preliminary.
[2] Includes plasticizers and surface-active agents.

Source: United States Tariff Commission; annual report, Synthetic Organic Chemicals, United States Production and Sales.

## No. 957.—Industrial Explosives Manufactured and Sold in the United States: 1923 to 1946

[In thousands of pounds. Excludes exports]

| Year | Total | Permissible explosives [1] | High explosives other than permissible | Black blasting powder: Granular | Black blasting powder: Pellet |
|---|---|---|---|---|---|
| 1923 | 529,728 | 60,371 | 267,405 | 201,951 | ------- |
| 1924 | 495,533 | 55,134 | 273,323 | 467,076 | ------- |
| 1925 | 501,752 | 58,353 | 286,435 | [2] 156,964 | (2) |
| 1926 | 535,890 | 67,685 | 310,518 | [2] 157,687 | (2) |
| 1927 | 499,011 | 63,847 | 303,468 | [2] 131,696 | (2) |
| 1928 | 475,251 | 60,708 | 292,785 | 98,004 | 23,754 |
| 1929 | 509,708 | 62,669 | 326,993 | 86,818 | 33,227 |
| 1930 | 445,090 | 53,826 | 291,391 | 63,139 | 36,735 |
| 1931 | 337,565 | 41,578 | 216,157 | 46,300 | 33,530 |
| 1932 | 233,887 | 32,225 | 137,908 | 35,793 | 27,961 |
| 1933 | 255,987 | 33,927 | 157,849 | 33,887 | 30,323 |
| 1934 | 314,768 | 39,208 | 206,625 | 37,193 | 31,742 |
| 1935 | 308,381 | 39,170 | 200,324 | 34,223 | 34,665 |
| 1936 | 391,605 | 47,859 | 262,047 | 40,420 | 41,278 |
| 1937 | 404,744 | 49,579 | 288,924 | 29,837 | 36,404 |
| 1938 | 332,130 | 41,859 | 238,576 | 23,552 | 28,143 |
| 1939 | 386,438 | 49,950 | 278,250 | 28,322 | 29,915 |
| 1940 | 423,369 | 58,436 | 305,180 | 29,084 | 30,670 |
| 1941 | 481,927 | 70,612 | 351,857 | 27,882 | 31,576 |
| 1942 | 499,255 | 84,022 | 359,699 | 24,167 | 31,367 |
| 1943 | 477,651 | 92,656 | 338,573 | 19,814 | 26,608 |
| 1944 | 464,111 | 102,538 | 318,613 | 16,282 | 26,677 |
| 1945 | 457,311 | 97,407 | 322,956 | 12,303 | 24,644 |
| 1946 | 536,315 | 100,258 | 399,233 | 13,539 | 23,285 |

| Use | Total | Permissible explosives [1] | High explosives other than permissible | Black blasting powder |
|---|---|---|---|---|
| 1945 | 457,311 | 97,407 | 322,956 | 36,948 |
| Coal mining | 223,440 | 96,848 | 91,551 | 35,041 |
| Metal mining | 89,328 | 15 | 89,292 | 21 |
| Quarrying and nonmetallic mineral mining | 74,866 | 447 | 73,031 | 1,388 |
| Railway and other construction work | 55,998 | 78 | 55,641 | 279 |
| All other purposes | 13,678 | 19 | 13,441 | 218 |
| 1946 | 536,315 | 100,258 | 399,233 | 36,824 |
| Coal mining | 240,115 | 99,455 | 108,076 | 32,583 |
| Metal mining | 82,239 | 20 | 82,173 | 46 |
| Quarrying and nonmetallic mineral mining | 103,920 | 689 | 101,458 | 1,773 |
| Railway and other construction works | 88,359 | 56 | 86,373 | 1,930 |
| All other purposes | 21,681 | 38 | 21,152 | 491 |

[1] Represents type of high explosives approved by Bureau of Mines as suitable for use in coal mines provided specifications of use are followed.
[2] Pellet powder (first manufactured for general sale in 1925) included with granular powder.

Source: Department of the Interior, Bureau of Mines; Production of Explosives in the United States.

## No. 958.—Asphalt and Tar Roofing and Siding Products—Shipments: 1928 to 1947

| Product and unit of measure | 1928 | 1933 | 1938 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 [1] |
|---|---|---|---|---|---|---|---|---|---|
| **Asphalt roofing, total** 1,000 squares | 36,540 | 24,737 | 34,610 | 54,211 | 51,349 | 48,889 | 49,157 | 60,864 | 69,925 |
| Smooth-surfaced do | 16,075 | 13,838 | 15,027 | 21,632 | 19,236 | 16,336 | 15,832 | 19,421 | 21,549 |
| Mineral-surfaced do | 9,608 | 5,685 | 8,799 | 16,511 | 16,688 | 14,337 | 13,532 | 13,717 | 15,893 |
| Strip shingles do | 9,002 | 4,223 | 9,054 | 13,908 | 13,014 | 15,426 | 16,924 | 24,505 | 28,331 |
| Individual shingles do | 1,855 | 991 | 1,730 | 2,160 | 2,411 | 2,790 | 2,869 | 3,221 | 4,152 |
| **Asphalt sidings, total** do | (2) | (2) | [3] 590 | 1,139 | 2,338 | 4,148 | 4,254 | 4,954 | 4,399 |
| Roll form do | (2) | (2) | (2) | 905 | 2,140 | 3,862 | 3,851 | 4,599 | 4,017 |
| Shingle form do | (2) | (2) | (2) | 234 | 198 | 286 | 403 | 355 | 382 |
| Mineral-surfaced insulating board base siding 1,000 squares | (2) | (2) | (2) | 720 | 1,012 | 1,725 | 1,885 | 2,444 | 3,213 |
| Asphalt board products 1,000 sq. ft | (2) | (2) | (2) | (2) | (2) | 73,929 | 91,564 | 70,092 | 45,913 |
| **Saturated felts, total** tons of 2,000 lb | (2) | (2) | (2) | (2) | (2) | 312,890 | 327,266 | 296,087 | 399,273 |
| Asphalt do | (2) | (2) | (2) | (2) | (2) | 264,092 | 273,179 | 223,978 | 309,907 |
| Tar do | (2) | (2) | (2) | (2) | (2) | 48,798 | 54,087 | 72,109 | 89,366 |
| **Saturated and coated sheathings, total** tons of 2,000 lb | (2) | (2) | (2) | (2) | (2) | 10,561 | 14,221 | 15,699 | 21,944 |
| Asphalt do | (2) | (2) | (2) | (2) | (2) | 8,476 | 11,881 | (4) | (4) |
| Tar do | (2) | (2) | (2) | (2) | (2) | 2,085 | 2,340 | (4) | (4) |

[1] Preliminary.
[2] Not available.
[3] Represents brick and all other types of siding.
[4] Not shown separately, to avoid disclosing operations of individual companies.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series M26D.

## No. 959.—Rubber (Natural, Reclaimed, and Synthetic)—New Supply, Distribution, and Stocks: 1940 to 1947

[**In tons of 2,240 pounds.** Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic includes GR-S, Neoprene, Butyl, and Butadiene-Acrylonitrile; reclaimed includes natural rubber reclaims for 1940-43 and both natural and synthetic rubber reclaims for 1944-47]

| ITEM | 1940 | 1941 [1] | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|
| **New supply, total** | 1,030,535 | 1,311,761 | 591,094 | 591,109 | 1,142,138 | 1,209,761 | 1,444,634 | 1,489,544 |
| **Domestic production, total** | 211,911 | 282,585 | 307,548 | 536,072 | 1,023,367 | 1,064,218 | 1,035,650 | 800,097 |
| Natural | | | | 359 | 130 | 536 | 12 | |
| Reclaimed | 208,971 | 274,202 | 285,114 | 303,991 | 260,607 | 243,309 | 295,612 | 291,395 |
| Synthetic | 2,940 | 8,383 | 22,434 | 231,722 | 762,630 | 820,373 | 740,026 | 508,702 |
| **Imports, total** | 818,624 | 1,029,176 | 283,546 | 55,037 | 118,771 | 145,543 | 408,384 | 689,447 |
| Natural | 818,624 | 1,029,176 | 282,653 | 54,970 | 107,704 | 135,136 | 400,675 | 688,354 |
| Reclaimed | [2] | | 893 | 67 | 24 | [2] | | |
| Synthetic | | | | | 11,043 | 10,407 | 7,709 | 1,093 |
| **Distribution, total** | [1] 860,051 | 1,052,289 | 691,942 | 834,248 | 1,087,597 | 1,143,979 | 1,406,425 | 1,440,764 |
| **Domestic consumption, total** | [1] 841,648 | 1,032,490 | 649,262 | 779,607 | 961,866 | 1,040,045 | 1,314,706 | 1,410,722 |
| Natural | 648,600 | 775,000 | 376,791 | 317,634 | 144,113 | 105,429 | 277,597 | 562,661 |
| Reclaimed | 190,244 | 251,231 | 254,820 | 291,082 | 251,083 | 241,036 | 275,410 | 288,395 |
| Synthetic | 2,904 | 6,259 | 17,651 | 170,891 | 566,670 | 693,580 | 761,699 | 559,666 |
| **Exports, total** | 18,403 | 19,799 | 42,680 | 54,641 | 125,731 | 103,934 | 91,719 | 30,042 |
| Natural | 7,060 | 5,376 | 10,856 | 20,815 | 9,665 | 6,743 | 4,338 | 4,101 |
| Reclaimed | 11,343 | 13,851 | 30,405 | 15,678 | 11,800 | 13,413 | 14,461 | 14,556 |
| Synthetic [3] | [4] | 572 | 1,419 | 18,148 | 104,266 | 83,778 | 72,920 | 11,385 |
| **Stocks, end of year, total** [5] | [1] 321,594 | 571,160 | 469,858 | 233,090 | 287,514 | 350,324 | 387,703 | 227,347 |
| Natural | 288,864 | [6] 527,708 | 422,714 | 139,594 | 93,650 | 118,715 | 237,467 | 129,038 |
| Reclaimed | 32,630 | 41,750 | 42,532 | 46,201 | 43,832 | 28,155 | 33,666 | 35,943 |
| Synthetic [7] | 100 | 1,702 | 4,612 | 47,295 | 150,032 | 203,454 | 116,570 | 62,366 |

[1] Data for synthetic estimated. [2] Less than 0.5 long tons.
[3] Allocations for export, 1941 and 1942, actual exports begin with 1943.
[4] Not available but believed to be negligible.
[5] Differences between "new supply" and "distribution" not precisely comparable with "stocks" due to year-end and inventory adjustments.
[6] After allowance for fire loss of Government rubber, Oct. 11, 1941.
[7] Includes stocks shipped for export which had not yet cleared port.

Source: 1940, natural and reclaimed, Department of Commerce; synthetic, Tariff Commission. 1941-46, Office of Temporary Controls, Civilian Production Administration, and predecessor agencies. Published in Facts for Industry Series 26-1. 1947, Department of Commerce, Bureau of Foreign and Domestic Commerce. Monthly data published in Survey of Current Business.

## No. 960.—Rubber Tires and Tubes—Production, by Type: 1943 to 1947

| TYPE | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|
| TIRES (UNITS) | | | | | |
| Airplane | 1,032,789 | 1,414,622 | 820,556 | 258,739 | 167,431 |
| Truck and bus | 12,923,444 | 14,624,328 | 16,354,445 | 15,837,039 | 17,757,981 |
| Tractor-implement | 914,136 | 2,105,032 | 2,695,317 | 4,811,814 | 5,061,724 |
| Industrial pneumatic | 217,641 | 599,853 | 686,070 | 1,110,168 | 1,489,947 |
| Industrial solid | [1] | [2] 2,866,315 | 2,572,324 | 1,494,090 | [3] 1,240,737 |
| Passenger | 7,810,801 | 18,899,022 | 28,292,112 | 66,508,256 | 77,790,410 |
| Motorcycle | | | | 226,185 | 200,587 |
| Bicycle | 4,281,871 | 4,277,674 | 5,054,477 | 9,061,296 | 9,316,107 |
| TUBES (UNITS) | | | | | |
| Airplane | 956,129 | 1,231,113 | 525,101 | 237,952 | 119,188 |
| Truck and bus | 12,362,747 | 12,464,926 | 16,063,134 | 14,858,778 | 14,254,002 |
| Tractor-implement | 699,409 | 1,816,518 | 2,673,414 | 4,360,864 | 4,481,374 |
| Industrial | 231,705 | 516,992 | 629,225 | 1,108,183 | 1,472,663 |
| Passenger | 2,926,739 | 14,980,644 | 25,810,530 | 62,392,262 | 65,378,102 |
| Motorcycle | | | | 203,526 | 196,159 |
| Bicycle | 3,844,554 | 4,841,385 | 5,741,118 | 9,757,194 | 10,703,614 |
| Camelback (tons of 2,240 lbs.) [4] | [5] 105,676 | 157,936 | 135,678 | 76,247 | 40,955 |

[1] Not available. [2] Incomplete; cured-on type reported for May-Dec. only.
[3] Represents all solid tires.
[4] Rubber compound for retreading worn tires. [5] Reported by Rubber Mfrs. Assn. Inc. as shipments.

Source: 1943-46, Office of Temporary Controls, Civilian Production Administration, and predecessor agencies; published in Facts for Industry Series 26-2. 1947, Rubber Mfrs. Assn. Inc., data raised to 100 percent by Dept. of Commerce, Bureau of Foreign and Domestic Commerce. Monthly data published in Survey of Current Business.

## No. 961.—Leather—Production, by Principal Types of Raw Stock: 1936 to 1947

[Cattle hide in thousands of hides, other figures in thousands of skins]

| Year | Cattle hide | Calf and kip | Goat and kid | Sheep and lamb [1] | Year | Cattle hide | Calf and kip | Goat and kid | Sheep and lamb [1] |
|---|---|---|---|---|---|---|---|---|---|
| 1936 | 22,628 | 13,127 | 47,363 | 37,942 | 1942 | 30,822 | 12,264 | 41,122 | 53,634 |
| 1937 | 22,380 | 12,027 | 46,554 | 34,232 | 1943 | 25,656 | 11,112 | 37,351 | 59,315 |
| 1938 | 19,047 | 12,991 | 31,905 | 28,941 | 1944 | 26,114 | 10,930 | 34,666 | 53,959 |
| 1939 | 22,095 | 14,027 | 40,419 | 39,384 | 1945 | 27,576 | 11,636 | 24,026 | 51,847 |
| 1940 | 21,013 | 11,387 | 37,697 | 37,920 | 1946 | 27,033 | 10,882 | 24,137 | 47,971 |
| 1941 | 28,099 | 13,098 | 45,355 | 51,865 | 1947 | 28,766 | 12,475 | 37,385 | 36,202 |

[1] Prior to 1940, includes skivers and excludes fleshers; beginning 1940, includes fleshers and excludes skivers.

Source: Tanners' Council of America. Monthly figures published in Survey of Current Business.

## No. 962.—Leather—Production, by Kind: 1937 and 1939

| Product | Unit | 1937 | 1939 | | 1937 | 1939 |
|---|---|---|---|---|---|---|
| | | Quantity (thousands of unit specified) | Produced in regular factories—quantity (thousands of unit specified) | Produced in contract factories on commission—quantity (thousands of unit specified) | Value (thousands of dollars) | Produced in regular factories—value (thousands of dollars) |
| **Total value** | | | | | **372,458** | **322,359** |
| Sole and belting leather: | | | | | | |
| Oak, union, chrome, and combination sole | Pound | 251,086 | 201,021 | 40,317 | 84,074 | 60,049 |
| Horse—sole | Square feet | 3,042 | 3,960 | | 825 | 938 |
| Belting butts—curried | Pound | 9,236 | 6,107 | | 6,365 | 3,661 |
| Offal | do | 94,438 | 88,687 | 176 | 18,948 | 16,314 |
| Harness leather: | | | | | | |
| Union black | do | 5,855 | 1,335 | | 1,816 | 387 |
| Oak black and russet | do | 8,642 | 6,332 | | 2,675 | 1,880 |
| Bag, case, and strap leather—finished grains | Square feet | 21,522 | 21,245 | | 5,316 | 4,888 |
| Collar, skirting, lace and latigo leather | do | (1) | 9,414 | | 2,805 | 2,334 |
| Welting leather—cattle | Pound | 7,240 | 7,933 | | 2,298 | 2,491 |
| Upholstery leather—finished: | | | | | | |
| Wholehide grains and machine-buffed | Square feet | 20,871 | 17,791 | [2] 5,596 | 5,227 | 4,036 |
| Splits | do | 13,868 | 10,193 | | 1,911 | 1,171 |
| Upper leather: | | | | | | |
| Cattle, including kip sides | do | 322,567 | 362,921 | 7,689 | 64,508 | 66,458 |
| Calf and whole kip, except kip sides | do | 119,905 | 123,140 | 10,330 | 35,706 | 34,482 |
| Goat and kid | do | 173,350 | 141,410 | 12,419 | 39,133 | 26,515 |
| Kangaroo and wallaby | do | 5,138 | 5,529 | | 1,634 | 1,419 |
| Wax and finished splits | do | 57,756 | 39,330 | (3) | 8,537 | 3,634 |
| Other upper leather | | | | | 4,152 | 3,820 |
| Glove and garment leather: | | | | | | |
| Cabretta | Square feet | (1) | 8,326 | 13,994 | 1,054 | 1,792 |
| Sheep and lamb, except shearlings | do | 91,996 | 99,515 | 43,271 | 10,072 | 10,317 |
| Shearlings | do | 22,772 | 19,050 | (3) | 4,878 | 3,648 |
| Other glove and garment leather | | | | | 6,636 | 5,857 |
| Fancy and bookbinders leather | | | | | 6,880 | 5,572 |
| Lining leather: | | | | | | |
| Sheep and lamb—shoe stock | Square feet | 85,202 | 60,522 | 26,716 | 9,210 | 5,812 |
| Goat and kid | do | 27,114 | 44,650 | 9,624 | 4,755 | 8,136 |
| Other lining leather | do | 7,969 | 12,371 | 1,664 | 1,466 | 1,985 |
| Patent upper leather (cattle, including kip sides)—japanned | do | 49,874 | 29,080 | 22,206 | 9,326 | 6,078 |
| Splits, other than wax and finished upper and upholstery | do | 94,899 | 112,399 | 25,787 | 10,230 | 7,968 |
| Skivers | do | 24,865 | 22,985 | 8,386 | 2,304 | 2,259 |
| Finishing or currying of tanned leather | do | (1) | 19,990 | 54,559 | (1) | 3,396 |
| Leather, tanned, curried, or finished on a commission basis for leather manufacturers, dealers, and jobbers | | | | | (1) | 13,623 |
| Other leather | Square feet | | 28,414 | 34,617 | 9,355 | 5,014 |
| Rough leather: | | | | | | |
| Belting butts—rough, for sale as such | Pound | 10,955 | 6,109 | | 5,829 | 2,707 |
| Upholstery leather—russet, for sale as such | Square feet | 27,244 | 28,205 | (2) | 2,923 | 3,053 |
| Other rough leather | | | | | 1,612 | 666 |

[1] Not available.

[2] Figure for "Upholstery leather—finished" includes both rough and finished upholstery leather which cannot be shown separately without disclosing production of individual establishments.

[3] Not shown to avoid disclosing, exactly or approximately, production of individual establishments.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 963.—Pressed and Blown Glassware—Quantity and Value of Shipments by Class: 1945 and 1946

| Class | Unit of measure | 1945 | | 1946 | |
|---|---|---|---|---|---|
| | | Quantity | Value ($1,000) | Quantity | Value ($1,000) |
| **Shipments, total value** | | | 170,451 | | 220,893 |
| Tumblers, goblets, and other stemware | Thous. of doz | 75,806 | 34,413 | 99,974 | 49,349 |
| Cooking ware [1] | | | 20,167 | | 23,287 |
| Ornamental, decorative, novelty glassware, and smokers' accessories, total. [2] | | | 10,785 | | 13,961 |
| **Lighting glassware, total** | | | 37,055 | | 43,582 |
| Electric-light bulb blanks, electronic-tube blanks (radio, x-ray, radar, and special tubes), and fluorescent tubes. | | | 20,355 | | 19,365 |
| Bowls, all types | | | 1,406 | | 3,944 |
| Enclosing globes, all types | | | 2,166 | | 2,989 |
| Shades, reflectors, and torchiers | | | 4,049 | | 5,808 |
| Railroad, marine, and traffic lighting glassware | | | 1,636 | | 1,516 |
| Lamp chimneys | Thous. of doz | 1,563 | 1,344 | 1,844 | 1,431 |
| Lantern globes (oil and electric) | Thous. of doz | 668 | 1,040 | 707 | 936 |
| All other lighting glassware | | | 5,059 | | 7,593 |
| **Technical and scientific glassware, total** | | | 15,851 | | 17,471 |
| Tubing (excluding fluorescent and industrial tubing). | Thous. of lbs | 11,018 | 2,292 | 15,304 | 3,063 |
| All other technical and scientific glassware (including insulators, laboratory glassware, rods and canes, etc.). | | | 13,559 | | 14,408 |
| Industrial glassware (including such products as gauge glass, instrument faces, machine parts, industrial tubing, glass knobs, meter covers, pumps, battery jars, etc.). | | | 7,378 | | 7,775 |
| All other pressed and blown glassware (except glass containers). | | | 44,802 | | 65,468 |

[1] Figures for 1945 represent "heat resistant tableware and kitchenware" including mixing bowls.
[2] Includes hand-made blown ornamental tableware, amounting to $344,000 in 1945.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M77E.

## No. 964.—Glass Containers—Direct Exports and Domestic Production and Shipments, by Kind: 1945, 1946, and 1947

[In thousand gross]

| Item | 1945 | | 1946 | | 1947 | |
|---|---|---|---|---|---|---|
| | Production | Shipments | Production | Shipments | Production | Shipments |
| **Total** | 105,267 | 106,318 | 115,664 | 116,084 | 115,344 | 110,170 |
| Direct exports | | 2,311 | | 2,537 | | 4,489 |
| Domestic production and shipments: | | | | | | |
| **Narrow-neck, total** | 63,788 | 62,322 | 67,594 | 65,935 | 74,843 | 68,026 |
| Food | 34,900 | 8,887 | 38,596 | 10,479 | 35,163 | 10,679 |
| Medicinal and health supplies | | 12,331 | | 13,864 | | 11,422 |
| Chemical, household, and industrial | | 6,962 | | 6,938 | | 5,367 |
| Toiletries and cosmetics | | 6,353 | | 6,986 | | 4,870 |
| Beverage, returnable | 6,959 | 6,806 | 6,950 | 6,456 | 11,694 | 10,377 |
| Beer, returnable | 6,227 | 5,940 | 6,396 | 5,904 | 11,378 | 9,952 |
| Beer, nonreturnable | 4,598 | 4,418 | 858 | 878 | 3,375 | 3,039 |
| Liquor | 8,683 | 8,261 | 10,657 | 10,413 | 10,564 | 9,902 |
| Wine | 2,421 | 2,364 | 4,137 | 4,017 | 2,669 | 2,418 |
| **Wide-mouth, total** | 41,479 | 41,685 | 48,070 | 47,612 | 40,501 | 37,655 |
| Food | 34,636 | 28,333 | 40,386 | 33,628 | 32,261 | 24,591 |
| Medicinal and health supplies | | 3,155 | | 3,457 | | 3,101 |
| Chemical, household, and industrial | | 1,338 | | 1,332 | | 1,023 |
| Toiletries and cosmetics | | 1,790 | | 1,656 | | 1,373 |
| Dairy products | 3,558 | 3,608 | 3,963 | 3,897 | 4,059 | 3,891 |
| Fruit jars | 2,083 | 2,245 | 2,431 | 2,418 | 2,350 | 2,003 |
| Jelly glasses | 223 | 213 | 222 | 175 | 214 | 171 |
| Packers' tumblers | 979 | 1,003 | 1,068 | 1,049 | 1,617 | 1,502 |

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M77C.

## No. 965.—Refractories—Production, Shipments, and Stocks, by Kind: 1946

[Excludes dead-burned magnesia or magnesite to avoid duplication; a large part of such materials shipped during year to refractory products manufacturing plants and later incorporated in refractory products covered (such as magnesite brick and shapes). Total quantity and value of dead-burned magnesia or magnesite reported to Bureau of Census as shipped during 1946 amounted to 252,000 short tons valued at $7,528,000. Also excludes crude and prepared clays sold for refractory purposes. Preliminary figures of U. S. Bureau of Mines show that 5,268,000 short tons of clay were sold or used by producers in 1946 for refractories. Largest part of this total represents fireclay later incorporated in clay refractories covered in this report.]

| PRODUCT | Number of plants | Unit of Measure (quantity) | Production (quantity) | SHIPMENTS | | Stocks at end of 1946 (quantity) |
|---|---|---|---|---|---|---|
| | | | | Quantity | Value ($1,000) | |
| **Clay and nonclay refractories, total** | 265 | | | | 153,304 | |
| Clay refractories, total | 207 | | | | 81,464 | |
| Fireclay brick, standards and special shapes, except superduty. | 123 | Thous. 9" equiv | 602,892 | 592,561 | 41,806 | 130,979 |
| Superduty fireclay brick, standards and special shapes. | 23 | do | 53,738 | 53,798 | 5,571 | 12,702 |
| High alumina brick, standards and special shapes (50% $AL_2 0_3$ and over, except fused alumina). | 14 | do | 19,383 | 19,177 | 3,373 | 4,034 |
| Insulating firebrick, standards and special shapes. | 13 | do | 25,564 | 24,950 | 3,015 | 3,206 |
| Ladle brick [1] | 18 | do | 155,311 | 153,327 | 5,609 | 13,907 |
| Hot top refractories | 12 | do | 26,255 | 26,194 | 2,060 | 4,059 |
| Sleeves, nozzles, runner brick, and tuyeres. | 18 | do | 43,134 | 44,060 | 3,607 | 5,642 |
| Glass-house pots, tank blocks, upper structure, and floaters. | 7 | Short ton | 27,385 | 26,016 | 2,692 | 11,646 |
| High-temperature bonding mortars | 50 | do | 59,524 | 59,316 | 3,562 | 3,361 |
| Plastic refractories (including ramming mixes). | 47 | do | 84,331 | 84,126 | 2,960 | 3,225 |
| Cast and castables (hydraulic setting) | 42 | do | 47,435 | 46,858 | 2,198 | 2,307 |
| Ground crude fire clay and high alumina refractories. | 87 | do | 360,193 | 359,893 | 2,239 | |
| Other clay refractories [2] | 11 | | | | 2,772 | |
| Nonclay refractories, total | 91 | | | | 71,840 | |
| Silica brick and shapes | 32 | Thous. 9" equiv | 261,768 | 246,621 | 19,378 | 66,970 |
| Magnesite and magnesite-chrome brick and shapes. | 5 | do | 16,095 | 16,751 | 6,441 | 2,424 |
| Chrome and chrome-magnesite brick and shapes. | 5 | do | 28,929 | 28,755 | 9,348 | 2,534 |
| Graphite and other carbon crucibles and retorts. | 9 | Short ton | 11,476 | 11,545 | 4,861 | 1,153 |
| Other graphite and carbon refractories | 3 | do | 1,091 | 1,121 | 411 | 198 |
| Other nonclay brick and shapes (of such materials as silicon carbide, fused alumina, fused magnesia, mullite, kyanite, sillimanite, zirconia, and forsterite). | 23 | | | | 12,117 | |
| High-temperature bonding mortars | 18 | do | 18,516 | 18,380 | 1,482 | 749 |
| Plastic refractories (including ramming mixtures). | 21 | do | 55,131 | 55,195 | 3,155 | 1,390 |
| Cast and castables (hydraulic setting) | 7 | do | 2,380 | 2,303 | 133 | 100 |
| Dead-burned dolomite [3] | 18 | do | | 1,077,983 | 10,102 | |
| Other nonclay refractories | 24 | do | 142,797 | 143,517 | 4,412 | |

[1] Estimated in part.
[2] Represents principally special shapes such as radiants, backwalls, and other shapes, not reported in terms of 9" equivalent.
[3] Represents dead-burned dolomite sold in 1946 as reported by U. S. Bureau of Mines.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series M27C.

## No. 966.—Structural Clay Products—Production and Shipments, by Kind: 1943 to 1946

| PRODUCT AND UNIT OF MEASURE | 1943 | 1944 | 1945 | 1946 |
|---|---|---|---|---|
| Unglazed brick: | | | | |
| Production, 1,000 standard bricks | 1,917,983 | 1,878,397 | 2,289,442 | 4,868,763 |
| Shipments: Quantity, do | 2,403,120 | 2,004,817 | 2,374,672 | 4,643,787 |
| Value, 1,000 dollars | 31,971 | 28,793 | 39,191 | 91,926 |
| Unglazed hollow facing tile: | | | | |
| Production, 1,000 brick equivalent | 85,874 | 81,875 | 89,069 | 100,422 |
| Shipments: Quantity, do | 96,519 | 92,624 | 98,793 | 100,966 |
| Value, 1,000 dollars | 1,956 | 1,935 | 2,275 | 2,711 |
| Glazed hollow facing tile: | | | | |
| Production, 1,000 brick equivalent | 51,332 | 70,634 | 85,491 | 174,744 |
| Shipments: Quantity, do | 58,265 | 80,668 | 92,651 | 171,866 |
| Value, 1,000 dollars | 2,057 | 3,176 | 3,856 | 8,052 |
| Vitrified paving brick: | | | | |
| Production, 1,000 bricks | 26,619 | 14,280 | 14,504 | 22,792 |
| Shipments: Quantity, do | 33,259 | 21,848 | 22,507 | 25,376 |
| Value, 1,000 dollars | 948 | 653 | 692 | 833 |
| Unglazed structural tile: | | | | |
| Production, short tons | 844,940 | 715,986 | 738,518 | 1,273,199 |
| Shipments: Quantity, do | 988,367 | 800,790 | 797,954 | 1,243,661 |
| Value, 1,000 dollars | 6,710 | 5,714 | 6,392 | 11,490 |
| Vitrified clay sewer pipe: | | | | |
| Production, short tons | 927,090 | 738,932 | 697,508 | 1,080,761 |
| Shipments: Quantity, do | 908,214 | 781,829 | 776,517 | 1,077,584 |
| Value, 1,000 dollars | 19,047 | 17,387 | 18,333 | 30,288 |
| **FLOOR AND WALL TILE AND ACCESSORIES** | **1939** | **1944** | **1945** | **1946** |
| Glazed— | | | | |
| Production, 1,000 square feet | [1] 656,672 | [1] 29,195 | 24,678 | 43,612 |
| Shipments: Quantity, do | (2) | [1] 30,527 | 24,670 | 43,291 |
| Value, 1,000 dollars | (2) | [1] 7,675 | 7,350 | 15,262 |
| Unglazed (except quarry tile)— | | | | |
| Production, 1,000 square feet | (1) | (1) | 8,680 | 12,802 |
| Shipments: Quantity, do | (2) | (1) | 8,492 | 12,973 |
| Value, 1,000 dollars | (2) | (1) | 2,095 | 3,447 |
| Quarry tile: | | | | |
| Production, 1,000 square feet | (2) | (2) | (2) | 5,114 |
| Shipments: Quantity, do | (2) | (2) | (2) | 5,409 |
| Value, 1,000 dollars | (2) | (2) | (2) | 797 |
| Drain tile: | | | | |
| Production, short tons | 487,119 | 412,496 | 435,819 | 464,718 |
| Shipments: Quantity, do | (2) | 421,947 | 443,910 | 464,096 |
| Value, 1,000 dollars | (2) | 4,422 | 4,491 | 5,613 |
| All other clay construction products,[3] value of shipments, 1,000 dollars | (2) | 3,449 | 4,178 | 8,337 |

[1] "Unglazed (except quarry tile)" included with "Glazed." [2] Not available.
[3] Includes glazed brick, flooring brick, roofing tile, flue lining, chimney pipe, tops and thimbles, terra cotta, wall coping, meter boxes, segment blocks, liner plates, silo and corn-crib tile, and conduits.

Source: Dept. of Commerce, Bureau of Census; published in Facts for Industry Series M26A and M26B.

## No. 967.—Concrete Block and Brick—Production: 1944, 1945, and 1946

[In thousands of units]

| YEAR AND QUARTER | Number of masonry plants (block and brick) | CONCRETE BLOCK (8" X 8" X 16"-BLOCK EQUIVALENT) | | | | CONCRETE BRICK (STANDARD BRICK) | |
|---|---|---|---|---|---|---|---|
| | | Number of plants | Production | | | Number of plants | Production |
| | | | Total | Lightweight aggregate | Heavyweight aggregate | | |
| 1944, 3rd quarter | 1,220 | 1,207 | 75,115 | 32,118 | 42,997 | 117 | 10,670 |
| 1944, 4th quarter | 1,203 | 1,189 | 70,791 | 31,022 | 39,769 | 104 | 7,972 |
| 1945, total | 2,015 | 1,981 | 400,367 | 175,314 | 225,053 | 240 | 62,607 |
| 1st quarter | 1,155 | 1,142 | 55,872 | 25,427 | 30,445 | 114 | 6,445 |
| 2nd quarter | 1,310 | 1,293 | 85,182 | 37,070 | 48,112 | 121 | 9,772 |
| 3rd quarter | 1,550 | 1,529 | 112,198 | 48,968 | 63,230 | 125 | 16,862 |
| 4th quarter | 1,964 | 1,933 | 147,115 | 63,849 | 83,266 | 177 | 29,528 |
| 1946, total | 3,789 | 3,673 | 940,107 | 386,389 | 553,718 | 500 | 218,167 |
| 1st quarter | 2,179 | 2,151 | 177,221 | 74,421 | 102,800 | 208 | 40,483 |
| 2nd quarter | 2,769 | 2,734 | 244,806 | 97,207 | 147,599 | 260 | 55,093 |
| 3rd quarter | 3,474 | 3,387 | 284,194 | 115,393 | 168,801 | 378 | 99,299 |
| 4th quarter | 3,304 | 3,208 | 233,886 | 99,368 | 134,518 | 343 | 53,292 |

Source: Dept. of Commerce, Bureau of the Census; Facts for Industry Series M26C.

## No. 968.—Pig Iron and Ferro-Alloys—Production, by Disposition, Kind, and Fuel and Materials Used: 1900 to 1946

[In thousands of short tons (2,000 lbs.)]

| ITEM | 1900 | 1910 | 1915 | 1920 | 1925 | 1930 | 1935 | 1940 | 1945 | 1946 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Total pig iron and ferro-alloys** | 15,444 | 30,580 | 33,506 | 41,357 | 41,105 | 35,562 | 23,937 | 47,399 | 54,919 | 46,515 |
| By disposition: | | | | | | | | | | |
| For sale | (1) | (1) | 9,613 | 12,011 | 10,070 | 7,933 | 4,505 | 6,837 | 8,351 | 7,646 |
| For maker's use | (1) | (1) | 23,893 | 29,346 | 31,034 | 27,630 | 19,433 | 40,561 | 46,569 | 38,869 |
| By kind: | | | | | | | | | | |
| Basic | 1,201 | 10,175 | 14,664 | 18,746 | 22,027 | 20,601 | 15,253 | 33,988 | 39,867 | 33,728 |
| Bessemer and low-phosphorus | 8,936 | 12,595 | 11,786 | 13,510 | 10,550 | 8,193 | 4,747 | 7,835 | 8,570 | 6,099 |
| Foundry (incl. ferro-silicon) | 3,781 | 5,892 | 5,425 | 6,673 | 6,059 | 4,436 | 2,137 | 2,791 | 3,067 | 3,585 |
| Malleable | 194 | 944 | 930 | 1,468 | 1,740 | 1,760 | 1,350 | 1,832 | 2,350 | 2,190 |
| Forge | 888 | 632 | 354 | 356 | 270 | 57 | 6 | 4 | ---- | ---- |
| Ferromanganese, spiegeleisen, and all other | 442 | 342 | 347 | 604 | 458 | 517 | 444 | 949 | 1,066 | 912 |
| By fuel: | | | | | | | | | | |
| Coke [2] | 13,135 | 29,409 | 33,080 | 40,656 | 40,885 | 35,455 | 23,854 | 47,312 | 54,871 | [3] 46,515 |
| Anthracite | 1,878 | 727 | 95 | 339 | ---- | ---- | ---- | ---- | ---- | ---- |
| Charcoal | 431 | 444 | 332 | 362 | 220 | 109 | 84 | 86 | 48 | (3) |
| Materials used: | | | | | | | | | | |
| Iron ore, briquettes, etc | 27,027 | 57,948 | 61,753 | 74,424 | 73,304 | [4] 60,101 | [4] 39,405 | [4] 79,672 | [4] 91,276 | [4] 77,242 |
| Cinder, scale, scrap, etc | 1,792 | 3,136 | 5,021 | 5,585 | 5,619 | [4] 7,052 | [4] 4,768 | [4] 7,480 | [4] 9,749 | [4] 7,576 |
| Coke [5] | (1) | (1) | 33,329 | 42,046 | 39,296 | [4] 31,168 | [4] 20,272 | [4] 40,451 | [4] 48,965 | [4] 41,823 |
| Limestone | 8,313 | 16,271 | 16,565 | 19,964 | 16,973 | [4] 12,431 | [4] 8,425 | [4] 16,678 | [4] 20,863 | [4] 18,180 |
| Total number furnaces Dec. 31 [6] | 406 | 473 | 445 | 452 | 395 | 300 | 258 | 231 | 241 | 233 |
| Furnaces in blast Dec. 31 [6] | 232 | 206 | 310 | 216 | 238 | 97 | 124 | 206 | 201 | 218 |

[1] Not available.
[2] Includes pig iron and ferro-alloys made in electric furnaces.
[3] Charcoal included with coke.
[4] Materials consumed in manufacture of pig iron only.
[5] Coke and bituminous coal 1900 to 1925.
[6] Or as of Jan. 1 of following year.

Source: American Iron and Steel Institute, annual report.

## No. 969.—Pig Iron and Ferro-Alloys—Production by States: 1939 to 1946

[In thousands of short tons (2,000 pounds)]

| STATE | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 |
|---|---|---|---|---|---|---|---|---|
| **Grand total** | 35,677 | 47,399 | 56,687 | 60,903 | 62,770 | 62,866 | 54,919 | 46,515 |
| **Pig iron, total** | 34,809 | 46,072 | 55,101 | 59,076 | 60,811 | 61,007 | 53,223 | 44,779 |
| Pennsylvania | 9,809 | 14,288 | 16,895 | 18,065 | 18,575 | 18,510 | 16,171 | 13,251 |
| Ohio | 8,033 | 9,970 | 12,787 | 13,140 | 13,725 | 13,371 | 11,259 | 9,534 |
| Indiana, Michigan | 4,787 | 6,689 | 7,725 | 8,114 | 8,208 | 8,474 | 7,436 | 6,190 |
| Illinois | 2,969 | 4,047 | 5,355 | 5,850 | 5,950 | 5,686 | 5,045 | 4,357 |
| Maryland, Virginia, West Virginia, Kentucky, Tennessee, Texas | 3,117 | 3,576 | 3,727 | 4,391 | 4,595 | 4,781 | 4,327 | 3,606 |
| Alabama | 2,936 | 3,419 | 3,696 | 4,082 | 3,780 | 3,949 | 3,582 | 3,149 |
| Massachusetts, New York | 2,423 | 3,113 | 3,758 | 4,221 | 4,178 | 3,947 | 3,295 | 2,780 |
| Minnesota, Iowa, Colorado, Utah, California | 735 | 971 | 1,158 | 1,212 | 1,800 | 2,289 | 2,109 | 1,912 |
| **Ferro-alloys, total** | 868 | 1,327 | 1,586 | 1,827 | 1,959 | 1,859 | 1,696 | 1,736 |
| Pennsylvania | 310 | 515 | 620 | 627 | 603 | 637 | 573 | 437 |
| New York, New Jersey | 192 | 323 | 494 | 540 | 544 | 478 | 449 | 701 |
| Virginia, West Virginia, South Carolina, Alabama, Tennessee | 128 | 143 | 160 | 308 | 422 | 380 | 322 | 265 |
| Ohio, Indiana, Illinois, Iowa, Colorado, Washington | 239 | 345 | 311 | 352 | 391 | 363 | 351 | 333 |

Source: American Iron and Steel Institute, annual report.

## No. 970.—Pig Iron and Ferro-Alloys and Steel Ingots and Castings—Production, Exports, and Imports: 1871 to 1946

[**In short tons (2,000 pounds).** Prior to 1901 exports and imports are for years ending June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For figures for earlier years, see Abstract for 1931]

| YEARLY AVERAGE OR YEAR | PIG IRON AND FERRO-ALLOYS | | | Steel ingots and castings, production [1] | YEAR | PIG IRON AND FERRO-ALLOYS | | | Steel ingots and castings, production [1] |
|---|---|---|---|---|---|---|---|---|---|
| | Production | Exports of domestic | Imports | | | Production | Exports of domestic | Imports | |
| 1871–1875 | 2,518,088 | 8,301 | 154,102 | [2] 436,575 | 1930 | 35,562,429 | 28,385 | 204,340 | 45,583,421 |
| 1876–1880 | 2,870,295 | 3,816 | 309,792 | 899,896 | 1931 | 20,637,516 | 17,280 | 115,965 | 29,058,961 |
| 1881–1885 | 4,817,228 | 5,948 | 364,325 | 1,850,540 | 1932 | 9,835,227 | 7,771 | 163,144 | 15,322,901 |
| 1886–1890 | 7,928,829 | 13,896 | 257,566 | 3,687,895 | 1933 | 14,947,074 | 12,625 | 219,838 | 26,020,229 |
| 1891–1895 | 9,108,976 | 25,741 | 61,351 | 5,236,824 | 1934 | 18,075,202 | 15,091 | 176,273 | 29,181,924 |
| 1896–1900 | 12,870,969 | 251,180 | 38,425 | 9,452,731 | 1935 | 23,937,423 | 19,840 | 211,901 | 38,183,705 |
| 1901–1905 | 20,428,425 | 50,921 | 352,537 | 17,212,083 | 1936 | 34,752,689 | 26,439 | 284,487 | 53,499,999 |
| 1906–1910 | 26,907,689 | 88,052 | 308,040 | 24,826,797 | 1937 | 41,582,550 | 916,160 | 180,625 | 56,636,945 |
| 1911–1915 | 30,820,405 | 226,252 | 148,681 | 31,783,886 | 1938 | 21,460,164 | 515,604 | 80,008 | 31,751,990 |
| 1916–1920 | 41,451,650 | 463,931 | 119,718 | 46,838,598 | 1939 | 35,677,097 | 238,224 | 129,497 | 52,798,714 |
| 1921–1925 | 34,132,119 | 41,444 | 405,785 | 41,138,917 | 1940 | 47,398,529 | 685,617 | 45,503 | 66,982,686 |
| 1926–1930 | 42,215,094 | 58,316 | 289,090 | 54,186,963 | 1941 | 56,686,604 | 610,729 | 23,044 | 82,839,259 |
| 1931–1935 | 17,486,488 | 14,521 | 177,424 | 27,553,544 | 1942 | 60,903,304 | 150,151 | 31,207 | 86,031,931 |
| 1936–1940 | 36,174,206 | 476,409 | 144,024 | 52,334,066 | 1943 | 62,769,947 | 231,068 | 22,905 | 88,836,512 |
| 1927 | 40,953,522 | 62,607 | 196,592 | 50,327,407 | 1944 | 62,866,198 | 185,526 | 32,416 | 89,641,600 |
| 1928 | 42,734,400 | 108,352 | 217,992 | 57,729,482 | 1945 | 54,919,029 | 122,819 | 102,304 | 79,701,648 |
| 1929 | 47,727,661 | 60,199 | 250,522 | 63,205,490 | 1946 | 46,514,826 | 134,648 | 77,463 | 66,602,724 |

[1] Beginning 1934, includes only steel castings produced in foundries producing steel ingots.
[2] 1875 only.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce through April 1941 and Bur. of Census thereafter; annual report, Foreign Commerce and Navigation of the United States.

## No. 971.—Rolled and Miscellaneous Steel Products—Production, by Kind: 1925 to 1946

[**In short tons (2,000 pounds)**]

| KIND | 1925 | 1930 | 1935 | 1940 | 1944 | 1945 | 1946 |
|---|---|---|---|---|---|---|---|
| **Hot-rolled products, total** | 37,393,395 | 33,054,568 | 26,840,298 | 48,660,369 | 65,803,979 | 59,811,669 | 50,936,772 |
| Plates | 4,203,865 | 4,102,362 | 1,629,987 | 4,323,408 | 13,123,423 | 7,245,888 | 4,433,747 |
| Sheets | 4,588,452 | 3,932,944 | 5,796,624 | 11,705,956 | 10,339,080 | 12,067,487 | 11,889,423 |
| Black plate | 2,192,261 | 2,120,144 | 2,307,462 | 521,924 | 556 | 941 | 1,029 |
| Strip | 1,398,471 | 2,174,885 | 2,965,300 | 2,077,744 | 2,593,107 | 2,542,935 | 2,465,990 |
| Strip and sheets for cold reduced black plate and tin plate | [1] | [1] | [1] | 3,103,627 | 4,177,865 | 4,436,924 | 4,485,832 |
| Hoops | 229,655 | 89,425 | 100,634 | 97,074 | 68,596 | 51,891 | 47,931 |
| Cotton ties and baling bands | 398,905 | 51,737 | 27,685 | 44,918 | 35,892 | 34,216 | 35,237 |
| Bars—merchant | 6,338,433 | 4,627,810 | 4,142,944 | 6,459,263 | 10,532,250 | 9,649,412 | 7,713,390 |
| Bars—concrete | 917,937 | 952,169 | 624,243 | 1,425,998 | 628,944 | 834,806 | 1,167,038 |
| Structural shapes | 4,036,626 | 3,933,970 | 1,959,709 | 4,232,346 | 4,676,481 | 4,467,164 | 4,387,664 |
| Sheet piling | 64,136 | 118,275 | 145,929 | 186,125 | 128,879 | 188,639 | 176,297 |
| Rails | 3,119,488 | 2,098,021 | 796,921 | 1,678,986 | 2,490,656 | 2,417,520 | 1,965,642 |
| Long splice bars and tie plate bars | 921,241 | 679,157 | 300,471 | 515,928 | 862,383 | 856,638 | 700,994 |
| Skelp | 3,617,340 | 3,003,892 | 1,514,328 | 2,709,000 | 3,049,682 | 2,894,023 | 2,534,848 |
| Blanks or pierced billets for seamless tubes | [2] | 1,397,935 | 1,067,776 | 2,320,966 | 3,677,631 | 3,384,489 | 2,743,814 |
| Wire rods | 3,186,015 | 2,630,432 | 2,733,689 | 4,351,848 | 4,646,298 | 4,531,157 | 4,520,280 |
| Rolled forging billets | 386,179 | 340,581 | 380,697 | 919,826 | 3,762,575 | 3,566,697 | 946,810 |
| Blooms, billets, etc. for export | 209 | 10,623 | 44,759 | 1,677,905 | 468,088 | 178,600 | 310,100 |
| Rolled steel car wheels | [2] | [2] | 83,714 | 191,102 | 291,529 | 291,375 | 248,571 |
| All other | 1,794,182 | 790,206 | 217,426 | 116,425 | 250,064 | 170,867 | 162,134 |
| **Miscellaneous products:** [3] | | | | | | | |
| Tin plate and terneplate | 1,856,730 | 1,882,619 | 1,996,960 | 2,738,581 | 2,647,978 | 2,827,483 | 2,709,651 |
| Galvanized sheets | 1,269,556 | 1,170,681 | 1,151,743 | 1,695,300 | 1,370,973 | 1,676,181 | 1,431,940 |
| Galvanized formed products | 89,110 | 73,047 | 67,245 | 84,854 | 95,112 | 58,717 | 137,173 |
| Wire (plain) | [1] | [1] | 2,177,816 | 3,071,824 | 3,669,813 | 3,544,826 | 3,615,924 |
| Wire nails | 772,687 | 478,071 | 443,596 | 648,593 | 614,184 | 583,048 | 619,914 |
| Cut nails and spikes | 36,805 | 22,996 | 19,748 | 24,377 | 15,564 | 15,279 | 22,656 |
| Pipes and tubes (black) | [1] | [1] | 2,276,544 | 4,272,684 | 6,406,423 | 6,030,243 | 5,058,468 |
| Forgings made by rolling mills | 434,414 | [4] 532,978 | [4] 352,390 | [4] 623,101 | [4] 2,076,298 | [4] 1,655,746 | [4] 494,808 |

[1] Not available.
[2] Included in all other.
[3] These are mostly further elaborations of products listed above.
[4] Including forged axles.

Source: American Iron and Steel Institute, annual report.

## No. 972.—Steel—Production of Ingots and Steel for Castings: 1890 to 1946

[In short tons (2,000 pounds)]

| Year | Total [1] | Open hearth | | | Bessemer | Electric | Crucible |
|---|---|---|---|---|---|---|---|
| | | Total | Basic | Acid | | | |
| 1890 | 4,790,320 | 574,820 | (2) | (2) | 4,131,536 | (2) | 79,716 |
| 1900 | 11,410,928 | 3,805,911 | 2,850,502 | 955,409 | 7,486,942 | (2) | 112,629 |
| 1910 | 29,226,309 | 18,485,050 | 17,127,408 | 1,357,642 | 10,542,305 | 58,398 | 136,979 |
| 1915 | 36,009,160 | 26,520,594 | 24,985,772 | 1,534,822 | 9,281,679 | 77,741 | 127,436 |
| 1920 | 47,188,886 | 36,592,522 | 35,140,810 | 1,451,712 | 9,949,057 | 566,370 | 80,937 |
| 1925 | 50,840,747 | 42,598,627 | 41,537,823 | 1,060,804 | 7,530,837 | 689,373 | 21,910 |
| 1930 | 45,583,421 | 39,255,073 | 38,380,514 | 874,559 | 5,639,714 | 686,111 | 2,523 |
| 1935 | 38,183,705 | 34,401,280 | 34,004,585 | 396,695 | 3,175,235 | 606,471 | 719 |
| 1936 | 53,499,999 | 48,760,463 | 48,288,605 | 471,858 | 3,873,472 | 865,150 | 914 |
| 1937 | 56,636,945 | 51,824,979 | 51,265,211 | 559,768 | 3,863,918 | 947,002 | 1,046 |
| 1938 | 31,751,990 | 29,080,016 | 28,774,999 | 305,017 | 2,106,340 | 565,627 | 7 |
| 1939 | 52,798,714 | 48,409,800 | 47,828,700 | 581,100 | 3,358,916 | 1,029,067 | 931 |
| 1940 | 66,982,686 | 61,573,083 | 60,882,840 | 690,243 | 3,708,573 | 1,700,006 | 1,024 |
| 1941 | 82,839,259 | 74,389,619 | 73,312,851 | 1,076,768 | 5,578,071 | 2,869,256 | 2,313 |
| 1942 | 86,031,931 | 76,501,957 | 75,183,065 | 1,318,892 | 5,553,424 | 3,974,540 | 2,010 |
| 1943 | 88,836,512 | 78,621,804 | 77,207,870 | 1,413,934 | 5,625,492 | 4,589,070 | 146 |
| 1944 | 89,641,600 | 80,363,953 | 79,168,294 | 1,195,659 | 5,039,923 | 4,237,699 | 25 |
| 1945 | 79,701,648 | 71,939,602 | 71,069,876 | 869,726 | 4,305,318 | 3,456,704 | 24 |
| 1946 | 66,602,724 | 60,711,963 | 60,112,300 | 599,663 | 3,327,737 | 2,563,024 | (3) |

[1] Includes all other grades not shown separately, as follows: 1890, 4,248 tons; 1900, 5,445; 1910, 3,577; 1915, 1,710. Beginning 1935, figures include only that part of steel for castings which was made in foundries producing steel ingots.
[2] Not available.
[3] Included with electric steel.

Source: American Iron and Steel Institute, annual report.

## No. 973.—Blast Furnaces and Steel Mills—Summary 1889 to 1939

[Data for years prior to 1937 include figures for steel castings, thereafter such data are excluded]

| Year | Number of establishments | Wage earners (average number) | Wages ($1,000) | Value of products ($1,000) [1] | Value added by manufacture ($1,000) [2] | Primary horsepower |
|---|---|---|---|---|---|---|
| 1889 | 719 | 171,181 | 89,273 | 478,688 | 151,415 | 784,358 |
| 1899 | 668 | 222,490 | 120,820 | 803,968 | 281,569 | 1,597,816 |
| 1909 | 654 | 278,505 | 187,807 | 1,377,152 | 399,013 | 3,274,285 |
| 1919 | 695 | 416,748 | 711,407 | 3,623,369 | 1,321,507 | 5,399,574 |
| 1923 | 658 | 424,913 | 696,761 | 4,161,938 | 1,289,910 | 5,999,941 |
| 1925 | 595 | 399,914 | 660,297 | 3,711,354 | 1,281,976 | 6,143,927 |
| 1927 | 602 | 389,270 | 645,534 | 3,488,744 | 1,219,534 | 6,781,058 |
| 1929 | 591 | 419,534 | 730,974 | 4,137,214 | 1,622,837 | 7,532,530 |
| 1931 | 526 | 278,206 | 357,645 | 1,714,214 | 623,199 | (3) |
| 1933 | 466 | 288,945 | 270,367 | 1,357,574 | 481,529 | (3) |
| 1935 | 468 | 374,808 | 458,584 | 2,305,970 | 893,681 | (3) |
| 1937 | 352 | 461,118 | 755,427 | 3,818,789 | 1,503,959 | (3) |
| 1939 | 334 | 388,441 | 598,037 | 3,270,822 | 1,234,631 | 4,944,118 |
| Blast furnaces: | | | | | | |
| 1937 [4] | 87 | 23,075 | 38,001 | 672,525 | 127,644 | (3) |
| 1939 [4] | 81 | 19,537 | 28,312 | 550,802 | 87,083 | (3) |
| Steel works and rolling mills: | | | | | | |
| 1937 | 265 | 438,043 | 717,425 | 3,146,263 | 1,376,314 | (3) |
| 1939 | 253 | 368,904 | 569,724 | 2,720,020 | 1,147,548 | (3) |

[1] Includes much duplication.
[2] Value of products less cost of materials, supplies, fuel, and purchased electric energy. Beginning 1935, deductions include, in addition, cost of contract work.
[3] No data.
[4] Includes data for 5 establishments in 1937 and 2 in 1939 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 974.—Iron and Steel Castings—Shipments: 1943 to 1947

[**In short tons.** For malleable iron castings, data represent complete coverage. Data for gray iron castings represent approximately 93 percent (for pressure pipe and soil pipe, practically complete) coverage for 1943, and complete coverage for 1944–46. For steel castings, data represent about 94 percent coverage for 1943 and 1944, and complete coverage for 1945 and 1946. For 1947, data on gray iron castings and steel castings represent preliminary estimates of complete coverage, based on a sample of the foundries]

| Year | Malleable iron castings | Gray iron castings | | | | Steel castings | | |
|---|---|---|---|---|---|---|---|---|
| | | Total | Pressure pipe and fittings | Soil pipe and fittings | All other gray iron castings | Total | Grade of Steel | |
| | | | | | | | Carbon | Alloy |
| 1943 | 844,639 | 9,217,800 | 541,446 | 159,330 | 8,517,024 | [1] 1,198,328 | [1] 861,110 | [1] 337,218 |
| 1944 | 878,233 | 9,794,541 | 507,525 | 181,956 | 9,105,060 | 2,445,421 | 1,825,130 | 620,291 |
| 1945 | 790,731 | 9,578,295 | 602,663 | 203,033 | 8,772,599 | 1,942,477 | 1,434,473 | 508,004 |
| 1946 | 752,028 | 10,269,657 | 786,314 | 409,214 | 9,074,129 | 1,432,049 | 1,112,243 | 319,806 |
| 1947 | 895,054 | 12,540,960 | 1,031,626 | 577,189 | 10,932,145 | 1,625,055 | 1,241,005 | 384,050 |

[1] For July through December only.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21A, M21B, and M22A.

## No. 975.—Steel Castings for Sale—Production and Orders Booked by Type of Casting: 1920 to 1947

[**In short tons.** Approximate coverage of industry is as follows: 1920–30, 80 percent; 1935, 90 percent; 1940–44, 96 percent; 1945–46, 100 percent; 1947, preliminary estimates of complete coverage, based on a sample of the foundries]

| Year | Production | | | Orders booked less cancellations | | |
|---|---|---|---|---|---|---|
| | Total | Railway specialties | Miscellaneous | Total | Railway specialties | Miscellaneous |
| 1920 | [1] | [1] | [1] | 997,358 | 429,643 | 567,715 |
| 1925 | [1] | [1] | [1] | 981,343 | 423,647 | 557,696 |
| 1930 | 991,872 | 368,690 | 623,182 | 884,433 | 333,199 | 551,234 |
| 1935 | 398,988 | 94,329 | 304,659 | 400,157 | 97,357 | 302,800 |
| 1940 | 797,947 | 290,255 | 507,692 | 816,919 | 266,418 | 550,501 |
| 1941 | 1,316,027 | 471,810 | 844,217 | 1,561,864 | 560,286 | 1,001,578 |
| 1942 | 1,679,178 | 309,352 | 1,369,826 | 2,187,347 | 219,145 | 1,968,202 |
| 1943 | 1,928,645 | 248,664 | 1,679,981 | 2,333,420 | 352,760 | 1,980,660 |
| 1944 | 1,843,386 | 338,007 | 1,505,379 | 1,914,294 | 322,630 | 1,591,664 |
| 1945 | [2] 1,484,957 | [2] 311,833 | [2] 1,173,124 | 1,529,912 | 352,382 | 1,177,530 |
| 1946 | [2] 1,043,358 | [2] 286,131 | [2] 757,227 | [3] 1,069,842 | [3] 283,511 | [3] 786,331 |
| 1947 | [2] 1,203,504 | [2] 341,987 | [2] 861,517 | [3] 1,330,081 | [3] 449,432 | [3] 880,649 |

[1] Not available. [2] Shipments beginning with last quarter of 1945.
[3] Calculated from data on shipments and unfilled orders.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M22A.

## No. 976.—Malleable Iron Castings—Production, Shipments and Orders Booked: 1925 to 1947

[**In short tons.** Statistics represent coverage of approximately 90 percent for 1923–43. Thereafter coverage is complete and represents reports from 115 foundries]

| Year | Production | Shipments | | | New orders less cancellations | | |
|---|---|---|---|---|---|---|---|
| | | Total | To outside trades | For use by own company or by an affiliate or subsidiary, or parent company | Total | For outside trades | For use by own company or by an affiliate or subsidiary, or parent company |
| 1925 | 793,199 | 794,174 | [1] | [1] | 750,761 | [1] | [1] |
| 1930 | 471,923 | 475,371 | [1] | [1] | 432,722 | [1] | [1] |
| 1935 | 466,395 | 455,208 | [1] | [1] | 452,611 | [1] | [1] |
| 1938 | 289,914 | 296,003 | 208,597 | 87,406 | 289,384 | 203,172 | 86,212 |
| 1939 | 480,578 | 466,068 | 331,421 | 134,647 | 489,482 | 354,249 | 135,233 |
| 1940 | 565,923 | 556,209 | 400,818 | 155,391 | 571,929 | 414,310 | 157,619 |
| 1941 | 843,038 | 832,173 | 619,365 | 212,808 | 884,881 | 663,688 | 221,193 |
| 1942 | 768,496 | 746,008 | 590,804 | 155,204 | 859,102 | 703,167 | 155,935 |
| 1943 | 849,764 | 844,639 | 653,884 | 190,755 | 1,054,224 | 826,422 | 227,802 |
| 1944 | 889,820 | 878,233 | 619,588 | 258,645 | 969,483 | 685,511 | 283,972 |
| 1945 | [1] | 790,731 | 520,887 | 269,844 | 766,711 | 426,159 | 340,552 |
| 1946 | [1] | 752,028 | 452,355 | 299,673 | [1] | 483,368 | [1] |
| 1947 | [1] | 895,054 | 513,228 | 381,826 | [1] | 447,975 | [1] |

[1] Not available.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21B.

## No. 977.—Iron and Steel, Finished Rolled—Production, Exports, and Imports: 1876 to 1946

[In short tons (2,000 pounds). Imports are imports for consumption beginning with 1933; general imports in earlier years. Blank spaces indicate no data available]

| Yearly average or year (calendar year) | Total production, finished rolled products | Rails | | | Plates and sheets | | | Merchant bar production [2] |
|---|---|---|---|---|---|---|---|---|
| | | Production | Exports | Imports | Production | Exports | Imports [1] | |
| 1876–1880 | | 1,020,426 | 4,974 | 67,033 | | | | |
| 1881–1885 | | 1,426,531 | 4,464 | 131,009 | | | | |
| 1886–1890 | [3] 5,911,600 | 1,915,511 | 8,148 | 55,748 | [3] 767,104 | | 8,975 | |
| 1891–1895 | 6,129,591 | 1,416,438 | 15,288 | 1,173 | 846,516 | 1,691 | 26,761 | |
| 1896–1900 | 9,142,067 | 2,107,734 | 260,420 | 2,687 | 1,639,544 | 34,714 | 5,344 | |
| 1901–1905 | 15,311,416 | 3,242,555 | 252,836 | 48,392 | 3,017,980 | 44,246 | 6,907 | [4] 4,024,833 |
| 1906–1910 | 20,730,629 | 3,627,104 | 339,622 | 4,439 | 4,540,594 | 177,622 | 4,588 | 3,897,499 |
| 1911–1915 | 24,920,084 | 3,091,824 | 424,247 | 26,589 | 6,028,088 | 466,372 | 3,220 | 4,222,754 |
| 1916–1920 | 34,507,928 | 2,945,047 | 616,920 | 23,959 | 9,235,794 | 1,016,396 | 1,765 | 7,050,073 |
| 1921–1925 | 30,458,732 | 2,794,109 | 274,737 | 35,530 | 8,875,380 | 488,464 | 4,265 | 5,375,343 |
| 1926–1930 | 39,562,938 | 2,971,808 | 178,599 | 22,228 | 11,797,300 | 536,823 | 27,580 | 7,080,924 |
| 1931–1935 | 20,002,332 | 828,436 | 46,310 | 5,780 | 6,891,694 | 181,332 | 14,569 | 3,356,504 |
| 1936–1940 | 38,066,554 | 1,334,946 | 139,217 | 6,511 | 13,664,259 | 791,090 | 8,963 | 6,217,207 |
| 1929 | 45,997,746 | 3,048,795 | 163,587 | 6,984 | 13,928,670 | 605,804 | 31,876 | 8,314,316 |
| 1930 | 33,054,568 | 2,098,021 | 106,600 | 9,304 | 10,155,450 | 388,475 | 31,904 | 5,579,979 |
| 1931 | 21,477,001 | 1,296,681 | 37,081 | 5,608 | 6,764,331 | 215,970 | 18,936 | 3,454,076 |
| 1932 | 11,705,219 | 450,874 | 12,678 | 6,341 | 3,856,505 | 88,515 | 24,922 | 1,903,441 |
| 1933 | 18,743,296 | 466,252 | 46,459 | 7,171 | 6,962,648 | 121,902 | 10,643 | 2,973,655 |
| 1934 | 21,245,847 | 1,131,451 | 77,458 | 3,442 | 7,140,913 | 226,537 | 5,204 | 3,684,162 |
| 1935 | 26,840,298 | 796,921 | 57,873 | 6,337 | 9,734,073 | 253,738 | 13,141 | 4,767,187 |
| 1936 | 37,857,544 | 1,366,228 | 82,270 | 8,700 | 13,610,595 | 346,753 | 25,796 | 6,822,492 |
| 1937 | 41,178,356 | 1,619,228 | 165,964 | 9,294 | 15,721,261 | 885,199 | 10,095 | 6,755,012 |
| 1938 | 23,568,951 | 697,642 | 92,648 | 4,059 | 8,506,233 | 573,817 | 7,167 | 3,484,923 |
| 1939 | 39,067,553 | 1,312,647 | 66,183 | 8,718 | 13,931,919 | 729,366 | 1,606 | 6,138,350 |
| 1940 | 48,660,369 | 1,678,986 | 289,020 | 1,780 | 16,551,288 | 1,420,311 | 153 | 7,885,261 |
| 1941 | 62,324,187 | 1,927,851 | 169,542 | 7,672 | 20,293,071 | 1,054,180 | 125 | 10,978,698 |
| 1942 | 62,445,914 | 2,096,159 | 256,159 | 14,435 | 21,237,072 | 1,364,824 | 254 | 11,939,982 |
| 1943 | 63,292,673 | 2,126,996 | 311,861 | 7,384 | 22,543,040 | 1,531,567 | 468 | 11,858,047 |
| 1944 | 65,803,979 | 2,490,656 | 316,915 | 9,893 | 23,463,059 | 1,246,556 | 5,665 | 11,161,194 |
| 1945 | 59,811,669 | 2,417,520 | 327,883 | 32,474 | 19,314,316 | 1,341,777 | 2,751 | 10,484,218 |
| 1946 | 50,936,772 | 1,965,642 | 385,584 | 7,997 | 16,324,199 | 1,159,169 | 2,254 | 8,880,428 |

| Yearly average or year (calendar year) | Skelp production | Wire rods | | | Structural shapes | | | All other finished rolled production [2] |
|---|---|---|---|---|---|---|---|---|
| | | Production | Exports | Imports | Production | Exports | Imports | |
| 1891–1895 | | 709,238 | | 38,980 | [5] 481,457 | | | 2,772,234 |
| 1896–1900 | | 1,018,997 | [6] 18,124 | 20,257 | 772,149 | [6] 54,742 | | 3,603,643 |
| 1901–1905 | [4] 1,608,314 | 1,781,114 | 18,306 | 20,597 | 1,348,246 | 62,329 | [7] 14,432 | 1,415,004 |
| 1906–1910 | 1,868,915 | 2,303,540 | 15,011 | 17,248 | 2,169,385 | 135,616 | 12,440 | 2,323,590 |
| 1911–1915 | 2,511,342 | 2,933,601 | 84,252 | 13,198 | [8] 2,739,958 | 297,798 | 7,114 | 3,392,518 |
| 1916–1920 | 3,123,005 | 3,336,179 | 162,072 | 4,188 | 3,340,000 | 376,744 | 3,143 | 5,477,829 |
| 1921–1925 | 3,345,985 | 2,836,325 | 31,408 | 4,803 | 3,199,711 | 224,177 | 31,317 | 4,031,879 |
| 1926–1930 | 3,752,372 | 3,148,573 | 35,039 | 16,096 | 4,489,127 | 311,101 | 160,219 | 6,322,836 |
| 1931–1935 | 1,248,507 | 2,065,158 | 25,456 | 12,505 | 1,631,689 | 66,574 | 45,874 | 3,980,346 |
| 1936–1940 | 2,282,301 | 3,424,361 | 97,413 | 12,251 | 3,317,886 | 237,283 | 49,232 | 7,825,593 |
| 1929 | 3,939,307 | 3,510,538 | 47,320 | 17,531 | 5,351,382 | 447,817 | 166,010 | 7,904,738 |
| 1930 | 3,003,892 | 2,630,432 | 44,552 | 9,904 | 3,933,970 | 273,101 | 134,773 | 5,652,824 |
| 1931 | 1,679,194 | 2,065,974 | 35,980 | 7,968 | 2,310,401 | 136,332 | 81,008 | 3,906,344 |
| 1932 | 680,511 | 1,328,523 | 16,596 | 8,886 | 1,049,695 | 36,468 | 40,933 | 2,435,670 |
| 1933 | 1,113,857 | 2,266,986 | 18,902 | 14,940 | 1,242,592 | 35,877 | 32,812 | 3,717,306 |
| 1934 | 1,254,643 | 1,930,617 | 26,580 | 11,936 | 1,596,045 | 60,003 | 28,026 | 4,508,016 |
| 1935 | 1,514,328 | 2,733,689 | 29,223 | 18,794 | 1,959,709 | 64,191 | 46,593 | 5,334,391 |
| 1936 | 2,415,394 | 3,357,626 | 39,057 | 21,180 | 3,245,346 | 98,143 | 68,974 | 7,039,863 |
| 1937 | 2,553,445 | 3,370,405 | 67,209 | 17,717 | 3,670,068 | 208,072 | 87,666 | 7,488,937 |
| 1938 | 1,403,540 | 2,361,630 | 24,957 | 5,914 | 2,082,685 | 142,822 | 44,379 | 5,032,298 |
| 1939 | 2,330,128 | 3,680,297 | 35,224 | 11,975 | 3,358,985 | 182,731 | 44,277 | 8,315,227 |
| 1940 | 2,709,000 | 4,351,848 | 320,621 | 4,465 | 4,232,346 | 554,644 | 859 | 11,251,640 |
| 1941 | 3,637,574 | 5,268,423 | 187,326 | 119 | 5,724,236 | 365,238 | 356 | 14,494,334 |
| 1942 | 2,900,741 | 4,632,017 | 145,251 | 57 | 5,816,321 | 229,757 | 166 | 13,823,622 |
| 1943 | 3,022,398 | 4,693,798 | 176,039 | 31 | 4,575,844 | 239,985 | 169 | 14,472,550 |
| 1944 | 3,049,682 | 4,646,298 | 123,804 | 2 | 4,676,481 | 235,592 | 28,017 | 16,316,609 |
| 1945 | 2,894,023 | 4,531,157 | 109,334 | 2,199 | 4,467,164 | 367,956 | 2,682 | 15,703,271 |
| 1946 | 2,534,848 | 4,520,280 | 62,355 | 6,054 | 4,387,664 | 449,270 | 874 | 12,323,711 |

[1] Includes skelp beginning 1922.
[2] Merchant bars include concrete reinforcement bars and, beginning 1934, certain miscellaneous bars previously included in "All other finished rolled production."
[3] Average for years 1887–90.
[4] Average for years 1902–05.
[5] Average for years 1892–95.
[6] Average for period July 1, 1897, to Dec. 31, 1900.
[7] Average for period July 1, 1903, to Dec. 31, 1905.
[8] Small structural forms not included in 1911.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bureau of Foreign and Domestic Commerce through April 1941, Bureau of Census thereafter; annual report, Foreign Commerce and Navigation of the United States.

## No. 978.—Iron and Steel—Aggregate Exports: 1890 to 1946

[Covers products listed in table 979; excludes data for highly elaborated products of iron and steel. Value figures through 1921 exclude, and those beginning 1922 include data for small items for which quantity figures are not available. Ferromanganese data included for all years. Data for steam and hot-water heating boilers and radiators, formerly classified as heavy iron and steel products, excluded beginning with 1922]

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

| YEAR | Quantity | Value | YEAR | Quantity | Value | YEAR | Quantity | Value |
|---|---|---|---|---|---|---|---|---|
| 1890 | 52 | | 1923 | 2,010 | 167,247 | 1935 | 3,064 | 88,414 |
| 1895 | 89 | | 1924 | 1,806 | 150,494 | 1936 | 3,157 | 112,692 |
| 1900 | 1,154 | 42,518 | 1925 | 1,763 | 144,262 | 1937 | 7,579 | 302,360 |
| 1905 | 1,010 | 33,813 | 1926 | 2,167 | 174,145 | 1938 | 5,148 | 185,432 |
| 1910 | 1,538 | 63,436 | 1927 | 2,183 | 160,609 | 1939 | 6,084 | 236,947 |
| 1915 | 3,533 | 140,993 | 1928 | 2,865 | 179,881 | 1940 | 10,603 | 524,426 |
| 1917 | 6,439 | 567,041 | 1929 | 3,038 | 200,203 | 1941 | 7,168 | 506,901 |
| 1918 | 5,375 | 558,279 | 1930 | 1,983 | 139,039 | 1942 | 6,596 | 598,939 |
| 1919 | 4,400 | 410,164 | 1931 | 969 | 63,226 | 1943 | 6,469 | 621,847 |
| 1920 | 4,935 | 458,376 | 1932 | 595 | 28,857 | 1944 | 5,489 | 560,178 |
| 1921 | 2,213 | 214,830 | 1933 | 1,341 | 45,534 | 1945 | 4,646 | 461,147 |
| 1922 | 1,995 | 136,334 | 1934 | 2,813 | 88,691 | 1946 | 4,598 | 449,881 |

## No. 979.—Iron and Steel—Exports, by Kind: 1943 to 1946

| ARTICLE | QUANTITY (TONS OF 2,240 LBS.) | | | | VALUE ($1,000) | | | |
|---|---|---|---|---|---|---|---|---|
| | 1943 | 1944 | 1945 | 1946 | 1943 | 1944 | 1945 | 1946 |
| **Total** | **6,468,627** | **5,488,944** | **4,645,759** | **4,597,599** | **621,847** | **560,178** | **461,147** | **449,881** |
| Pig iron, not including ferro-alloys | 128,812 | 145,070 | 81,101 | 85,445 | 4,291 | 4,307 | 2,393 | 2,670 |
| Ferromanganese and spiegeleisen | 11,449 | 715 | 2,883 | 9,343 | 1,728 | 108 | 258 | 653 |
| Other ferro-alloys | 30,167 | 7,123 | 4,804 | 7,310 | 5,513 | 9,307 | 3,442 | 2,070 |
| Scrap | 49,013 | 85,432 | 85,477 | 133,130 | 1,071 | 1,911 | 2,589 | 3,385 |
| Ingots, blooms, sheet bars, skelp, etc. | 1,946,715 | 1,128,988 | 312,751 | 454,551 | 97,688 | 57,120 | 17,045 | 23,926 |
| Iron and steel bars and alloy steel bars | 561,393 | 581,889 | 538,126 | 624,164 | 84,693 | 72,787 | 50,558 | 52,425 |
| Wire rods | 157,178 | 110,536 | 97,619 | 55,674 | 9,224 | 6,078 | 5,493 | 3,839 |
| Galvanized sheets | 64,658 | 84,931 | 156,023 | 69,416 | 5,801 | 7,305 | 15,159 | 7,557 |
| Plates, iron and steel | 652,249 | 295,121 | 191,039 | 475,542 | 45,437 | 19,102 | 13,398 | 33,422 |
| Black steel sheets | 624,840 | 697,259 | 662,771 | 431,057 | 47,833 | 58,114 | 53,250 | 46,078 |
| Black iron sheets | 4,152 | 16,854 | 11,460 | 27,836 | 338 | 1,382 | 944 | 2,478 |
| Hoop, band, and strip steel | 178,594 | 189,245 | 127,129 | 133,037 | 27,994 | 27,012 | 14,336 | 15,647 |
| Tin plate, terneplate, etc. | 396,586 | 436,632 | 471,080 | 355,794 | 46,615 | 52,306 | 55,457 | 43,569 |
| Structural shapes, plain material | 167,673 | 148,259 | 255,725 | 284,731 | 9,467 | 8,670 | 14,429 | 18,062 |
| Structural materials, fabricated | 67,697 | 80,356 | 247,839 | 144,365 | 8,937 | 10,337 | 31,686 | 19,612 |
| Tanks, complete and knocked down | 26,037 | 39,076 | 29,444 | 44,046 | 4,209 | 5,233 | 4,347 | 5,873 |
| Metal lath | 474 | 568 | 1,689 | 3,159 | 102 | 104 | 331 | 679 |
| Steel rails | 278,447 | 282,960 | 292,753 | 344,271 | 12,880 | 12,989 | 14,430 | 18,520 |
| Rail fastenings, switches, frogs, etc. | 86,790 | 120,180 | 115,688 | 71,741 | 8,502 | 11,719 | 11,654 | 7,968 |
| Boiler tubes | 50,623 | 69,635 | 47,075 | 39,790 | 9,174 | 14,616 | 8,140 | 6,688 |
| Casing and oil-line pipe | 101,102 | 177,338 | 229,240 | 160,518 | 10,649 | 20,071 | 24,520 | 18,912 |
| Seamless black pipe, except casing and oil-line | 74,420 | 40,239 | 19,265 | 13,277 | 8,935 | 6,337 | 2,355 | 1,838 |
| Black and galvanized welded pipe | 131,368 | 117,525 | 108,560 | 130,663 | 14,470 | 12,908 | 12,391 | 15,274 |
| Cast-iron pipe and fittings | 26,172 | 38,359 | 65,875 | 42,394 | 2,945 | 3,253 | 5,317 | 3,743 |
| Malleable-iron screwed pipe fittings | 5,183 | 4,061 | 3,287 | 3,956 | 2,145 | 1,782 | 1,534 | 1,924 |
| All other iron and steel pipe and fittings, n. e. s. | 116,933 | 101,034 | 55,024 | 65,165 | 26,966 | 26,374 | 18,180 | 17,617 |
| Barbed-wire and woven-wire fencing | 22,932 | 29,002 | 31,366 | 50,480 | 2,494 | 3,350 | 4,321 | 6,379 |
| Plain and galvanized wire | 145,351 | 126,018 | 108,527 | 105,114 | 21,418 | 17,815 | 13,315 | 15,633 |
| Woven-wire screen cloth | 3,503 | 4,256 | 3,364 | 3,143 | 2,444 | 2,685 | 2,047 | 2,300 |
| Wire rope and wire strand | 34,751 | 34,909 | 28,220 | 30,992 | 16,952 | 16,270 | 12,301 | 11,594 |
| Electric welding rods | 7,765 | 12,342 | 12,620 | 8,453 | 2,595 | 3,168 | 2,398 | 1,893 |
| Wire, other, and manufactures thereof | 23,706 | 28,507 | 19,824 | 23,300 | 8,382 | 8,456 | 5,911 | 8,223 |
| Wire nails | 36,746 | 38,103 | 27,914 | 17,055 | 3,378 | 3,498 | 2,871 | 2,047 |
| Nails other than wire, tacks, staples | 7,563 | 9,926 | 9,874 | 10,402 | 1,581 | 2,043 | 2,290 | 2,690 |
| Horseshoes | 139 | 266 | 1,501 | 1,660 | 23 | 46 | 260 | 275 |
| Bolts, nuts, rivets, and washers [1] | 48,667 | 50,100 | 37,325 | 28,234 | 14,318 | 14,008 | 10,638 | 9,216 |
| Car wheels and axles | 97,004 | 74,936 | 74,966 | 61,046 | 11,831 | 9,356 | 8,791 | 7,684 |
| Iron castings | 21,316 | 20,478 | 41,826 | 26,191 | 4,196 | 3,957 | 4,529 | 3,349 |
| Steel castings | 17,945 | 14,546 | 9,239 | 3,874 | 6,430 | 5,694 | 2,654 | 1,218 |
| Forgings | 62,515 | 46,170 | 25,466 | 17,280 | 28,199 | 18,605 | 5,184 | 2,952 |

[1] Except railroad.

Source of tables 978 and 979: Department of Commerce, Bureau of Foreign and Domestic Commerce through April 1941 and Bureau of the Census thereafter; annual report, Foreign Commerce and Navigation of the United States.

## No. 980.—Iron and Steel—Average Annual Prices, by Class or Kind: 1891 to 1947

[Prices of pig iron, rails, and billets, and wire rods in dollars per long ton (2,240 pounds); other prices in dollars per 100 pounds]

| Year | Pig iron: Basic, The Valleys | Pig iron: Southern, No. 2, Cincinnati | Pig iron: Local, No. 2, Chicago [1] | Open hearth rails at mills in Pennsylvania [2] | Open hearth steel billets, Pittsburgh [3] | Wire rods, Pittsburgh | Merchant bars, Pittsburgh | Iron bars (best refined), Pittsburgh [4] | Tank plates, Pittsburgh | Structural shapes, Pittsburgh [5] | Composite finished steel |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1891-1895 | ------- | 11.74 | 12.80 | 27.27 | 20.89 | ------- | ------- | 1.46 | ------- | ------- | ------- |
| 1896-1900 | ------- | 12.56 | 14.30 | 24.96 | 21.08 | ------- | [6] 1.46 | 1.50 | 1.61 | [6] 1.63 | ------- |
| 1901-1905 | ------- | 15.80 | 17.50 | 27.87 | 25.76 | ------- | 1.47 | 1.77 | 1.60 | 1.63 | ------- |
| 1906-1910 | 16.87 | 17.66 | 19.42 | 28.00 | 26.60 | ------- | 1.47 | 1.75 | 1.57 | 1.58 | 1.77 |
| 1911-1915 | 13.66 | 14.10 | 14.72 | 28.00 | 22.43 | ------- | 1.31 | 1.47 | 1.32 | 1.32 | 1.54 |
| 1916 | 19.76 | 18.67 | 20.26 | 32.00 | 43.95 | ------- | 2.67 | 2.13 | 3.53 | 2.55 | 2.67 |
| 1917 | 38.90 | 38.95 | 41.31 | 38.00 | 70.96 | ------- | 3.64 | 3.83 | 5.88 | 3.67 | 4.19 |
| 1918 | 32.50 | 36.56 | 33.25 | 55.00 | 47.33 | ------- | 2.89 | 4.31 | 3.24 | 2.99 | 3.54 |
| 1919 | 27.67 | 32.17 | 29.11 | 47.29 | 40.54 | 53.98 | 2.50 | 4.10 | 2.72 | 2.52 | 3.12 |
| 1920 | 42.25 | 44.52 | 42.52 | 52.42 | 56.14 | 69.55 | 3.22 | 4.75 | 3.28 | 2.95 | 3.74 |
| 1921 | 21.73 | 26.68 | 22.93 | 44.06 | 34.46 | 45.94 | 1.87 | 4.47 | 1.93 | 1.94 | 2.44 |
| 1922 | 24.20 | 23.93 | 24.85 | 40.75 | 33.90 | 40.49 | 1.72 | 3.35 | 1.72 | 1.71 | 2.12 |
| 1923 | 25.81 | 27.87 | 28.16 | 43.00 | 41.75 | 50.39 | 2.36 | 3.50 | 2.43 | 2.43 | 2.70 |
| 1924 | 20.24 | 23.91 | 22.10 | 43.00 | 37.99 | 48.31 | 2.20 | 4.00 | 2.12 | 2.19 | 2.51 |
| 1925 | 19.59 | 23.74 | 22.09 | 43.00 | 35.62 | 46.05 | 2.02 | 4.52 | 1.91 | 1.99 | 2.33 |
| 1926 | 18.55 | 24.71 | 21.64 | 43.00 | 35.00 | 45.00 | 2.00 | 4.62 | 1.88 | 1.95 | 2.32 |
| 1927 | 17.70 | 21.16 | 19.68 | 43.00 | 33.27 | 42.44 | 1.84 | 4.68 | 1.82 | 1.83 | 2.20 |
| 1928 | 16.66 | 19.70 | 18.54 | 43.00 | 32.67 | 42.55 | 1.87 | 4.64 | 1.87 | 1.87 | 2.17 |
| 1929 | 18.19 | 18.51 | 20.00 | 43.00 | 34.66 | 41.50 | 1.92 | 4.13 | 1.93 | 1.92 | 2.29 |
| 1930 | 17.98 | 16.16 | 18.47 | 43.00 | 31.84 | 36.91 | 1.71 | 4.11 | 1.69 | 1.69 | 2.11 |
| 1931 | 15.85 | 14.52 | 17.35 | 43.00 | 29.36 | 35.03 | 1.63 | 3.69 | 1.62 | 1.62 | 1.96 |
| 1932 | 13.98 | 13.84 | 15.87 | 42.44 | 26.52 | 37.00 | 1.57 | 3.35 | 1.57 | 1.57 | 1.87 |
| 1933 | 15.24 | 16.31 | 16.47 | 39.26 | 26.00 | 35.15 | 1.64 | 3.35 | 1.61 | 1.68 | 1.85 |
| 1934 | 17.69 | 18.80 | 18.19 | 36.37 | 27.10 | 37.37 | 1.81 | 3.50 | 1.78 | 1.78 | 2.05 |
| 1935 | 18.17 | 19.34 | 18.68 | 36.37 | 27.25 | 38.21 | 1.81 | 3.50 | 1.80 | 1.80 | 2.07 |
| 1936 | 19.10 | 19.99 | 19.60 | 36.59 | 29.68 | 39.12 | 1.95 | 3.70 | 1.85 | 1.85 | 2.12 |
| 1937 | 22.99 | 23.20 | 23.49 | 41.86 | 36.45 | 46.27 | 2.40 | 4.50 | 2.21 | 2.21 | 2.54 |
| 1938 | 21.70 | 22.18 | 22.20 | 41.77 | 35.45 | 44.93 | 2.35 | 4.50 | 2.17 | 2.17 | 2.46 |
| 1939 | 21.09 | 21.64 | 21.59 | 40.00 | 34.00 | 43.00 | 2.19 | 4.40 | 2.10 | 2.10 | 2.31 |
| 1940 | 22.53 | 23.06 | 23.03 | 40.00 | 34.00 | 44.80 | 2.15 | 4.64 | 2.10 | 2.10 | 2.30 |
| 1941 | 23.50 | 24.02 | 24.00 | 40.00 | 34.00 | 44.80 | 2.15 | 5.00 | 2.10 | 2.10 | 2.30 |
| 1942 | 23.50 | 24.52 | 24.00 | 40.00 | 34.00 | 44.80 | 2.15 | 5.00 | 2.10 | 2.10 | 2.29 |
| 1943 | 23.50 | 24.25 | 24.00 | 40.00 | 34.00 | 44.80 | 2.15 | 5.14 | 2.10 | 2.10 | 2.29 |
| 1944 | 23.50 | 24.81 | 24.00 | 40.00 | 34.00 | 44.80 | 2.15 | 5.85 | 2.10 | 2.10 | 2.27 |
| 1945 | 24.52 | [7] 26.19 | 25.02 | 42.44 | 35.21 | 46.85 | 2.21 | [8] 5.40 | 2.21 | 2.10 | 2.42 |
| 1946 | 27.14 | [9] 29.80 | 27.64 | 43.67 | 38.62 | 51.30 | 2.47 | [8] 7.00 | 2.47 | 2.32 | 2.67 |
| 1947 | 33.85 | 40.24 | 33.93 | [10] 2.60 | 44.38 | [10] 2.73 | 2.73 | [8] 8.00 | 2.80 | 2.63 | [11] 3.01 |

[1] At furnace after 1907.
[2] Bessemer rails prior to Oct. 22, 1921.
[3] Bessemer billets prior to 1927.
[4] Muck iron in 1891.
[5] Beams prior to Mar. 19, 1929.
[6] Average for 1898-1900.
[7] Average for week of Dec. 25, 1945.
[8] Double refined iron bars.
[9] Average for week of Dec. 24, 1946.
[10] Dollars per 100 pounds.
[11] Estimate.

Source: Steel and The Iron Age, annual review issues; and American Iron and Steel Institute, annual report.

## No. 981.—Magnesium—Production of Semifabricated Products: 1940 to 1947

[Thousands of pounds]

| Class | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|
| Total | 5,476 | 13,675 | [1] 55,164 | [1] 146,262 | [1] 213,418 | 89,770 | 15,114 | 12,500 |
| Castings: | | | | | | | | |
| Sand | 3,974 | 11,945 | 32,024 | 59,123 | 75,221 | 42,471 | 7,149 | 6,404 |
| Permanent mold | | | 20,387 | 81,337 | 123,904 | 39,592 | 532 | 729 |
| Die | 699 | 768 | 1,346 | 2,866 | 2,362 | 1,689 | 791 | 560 |
| Sheet, strip, and plate | 366 | 485 | 887 | 1,680 | 2,308 | 2,900 | 3,411 | 1,876 |
| Extrusions | 411 | 451 | 475 | 1,029 | 9,198 | [2] 3,118 | [2] 3,231 | [2] 2,931 |
| Forgings | 26 | 26 | 45 | 227 | 425 | | | |

[1] Excludes extruded sheet stock, forging stock, powder, and sticks.
[2] Represents extrusions, including forging stock; forgings data not available.

Source: 1940 and 1941, Department of Interior, Bureau of Mines; Minerals Yearbook. 1942 and subsequent years, Department of Commerce, Bureau of the Census; Facts for Industry Series, M24G and M24E.

## No. 982.—Brass Mill Production: 1942 to 1946

[Thousands of pounds]

| CLASS | 1942 (July–Dec.) | 1943 | 1944 | 1945 | 1946 (Apr.–Dec.) |
|---|---|---|---|---|---|
| **All products** | *2,402,892* | *5,610,026* | *5,013,514* | *3,782,354* | [1] *1,834,090* |
| Alloyed products | 2,180,474 | 5,226,179 | 4,618,353 | 3,312,499 | 1,351,772 |
| Plate, sheet, and strip | 1,568,082 | 3,994,819 | 3,272,926 | 2,051,366 | 540,371 |
| Rod and wire | 457,354 | 943,870 | 1,018,479 | 989,362 | 677,320 |
| Tubes | 155,038 | 287,490 | 326,948 | 271,771 | 134,081 |
| Unalloyed products | 222,418 | 383,847 | 395,161 | 469,855 | [2] 482,318 |

[1] Includes estimated production amounting to less than 1 percent.
[2] Includes 84,338 pounds of copper water tubing.

Source: Civilian Production Administration; published in Facts for Industry Series 10-1. Refer inquiries to Department of Commerce, Bureau of the Census.

## No. 983.—Nonferrous Metals and Alloys, and Finished Products thereof—Production, by Kind: 1935, 1937, and 1939

[*Covers products made for sale and interplant transfer, excluding those made for consumption in same works.* Data represent production of commodities specified, whether made as primary or as secondary products by industries reporting them. Census designations of industries in which these commodities are made are as follows: "Alloying; and rolling and drawing of nonferrous metals, except aluminum"; "Secondary smelting and refining of nonferrous metals, not elsewhere classified"; "Nonferrous metal foundries (except aluminum)"; and "Nonferrous metal products not elsewhere classified." No data are included for production of copper, lead, zinc, and other nonferrous metals from the ore nor of secondary metals by establishments engaged in primary smelting and refining of nonferrous metals]

| KIND | TONS (2,000 POUNDS) | | | VALUE ($1,000) | | |
|---|---|---|---|---|---|---|
| | 1935 | 1937 | 1939 | 1935 | 1937 | 1939 |
| Ingots and pigs: | | | | | | |
| Brass and bronze | 74,388 | 138,762 | 114,208 | [1] 14,381 | 34,348 | 25,102 |
| Antifriction-bearing metal | 19,638 | 40,970 | 20,900 | [1] 6,520 | 11,674 | 7,439 |
| Solders, all kinds | 38,950 | 58,546 | 56,617 | [1] 16,720 | 28,622 | 25,409 |
| Type metal | 28,381 | 34,756 | 31,901 | [1] 4,234 | 6,258 | 5,673 |
| Copper, secondary | 29,281 | 39,890 | 44,458 | 4,935 | 9,499 | 9,827 |
| Lead, secondary | 129,512 | 125,520 | 148,822 | 11,429 | 15,437 | 15,909 |
| Zinc, secondary | 31,058 | 47,918 | 44,485 | 3,044 | 6,221 | 4,955 |
| Tin, secondary | 2,746 | 4,924 | 5,450 | [1] 2,712 | 4,983 | 5,422 |
| Plates and sheets: | | | | | | |
| Brass and bronze | 153,364 | 195,822 | 186,548 | 44,606 | 78,798 | 68,452 |
| Copper | 93,014 | 104,366 | 105,211 | 26,143 | 36,350 | 36,282 |
| Lead | 17,332 | 22,503 | 23,407 | 2,309 | 3,776 | 3,440 |
| Zinc | 49,931 | 63,744 | 60,998 | 8,131 | 12,342 | 10,027 |
| Nickel-alloys | 14,881 | 17,899 | 25,515 | 7,713 | 10,795 | 12,145 |
| Rods: | | | | | | |
| Brass and bronze | 94,261 | 139,743 | 135,156 | 23,894 | 43,240 | 36,949 |
| Copper | 111,334 | 199,374 | 204,903 | 22,387 | 44,080 | 45,364 |
| Nickel-alloys and other nonferrous metals and alloys | | | | 6,400 | 8,760 | 8,731 |
| Extruded shapes | | | | 5,966 | 6,077 | 4,568 |
| Tubing (seamless) and pipe: | | | | | | |
| Brass and bronze | 47,834 | 78,865 | 70,183 | 16,626 | 34,870 | 29,735 |
| Copper | 33,992 | 57,999 | 67,330 | 12,039 | 26,282 | 29,386 |
| Lead | 16,829 | 22,965 | 17,923 | 2,455 | 3,928 | 2,706 |
| Nickel-alloys | 1,304 | 1,918 | 2,478 | 1,522 | 2,165 | 2,524 |
| Other tubing, including brazed | [2] | [2] | 3,189 | 1,399 | 2,183 | 1,547 |
| Wire and wire products [3] | | | | 40,459 | 83,860 | 67,848 |
| Castings, rough: | | | | | | |
| Brass and bronze | 51,598 | 126,281 | 93,371 | [4] 19,156 | 49,354 | 37,712 |
| Copper | 1,820 | 3,901 | 3,296 | [4] 771 | 2,214 | 1,777 |
| Nickel-alloys [5] | 1,194 | 1,513 | 1,139 | [4] 1,123 | 1,470 | 1,087 |
| Bells, cast | | | | [2] | 158 | 145 |
| Finished products: | | | | | | |
| Bearings and bushings (including antifriction linings) | | | | 21,209 | 43,255 | 37,192 |
| Die castings | | | | 20,267 | 28,073 | 28,559 |
| Castings, finished | | | | *4,356* | *3,475* | 3,828 |
| Forged and hot-pressed parts | | | | 2,723 | 6,837 | 5,931 |
| Fittings | | | | [2] | 6,094 | 9,247 |
| Spun ware | | | | [2] | 2,321 | 3,557 |
| Powder | | | | [2] | [2] | 1,792 |

[1] Not including the value of ingots and pigs for which no quantity was reported as follows: Brass and bronze, $197,000; antifriction-bearing metal, $1,186,000; solders, $2,010,000; type metal, $214,000; secondary tin, $44,000.
[2] Data not available. [3] Reported by establishments classified in this industry only.
[4] Not including the value of castings for which no quantity was reported as follows: Brass and bronze, $14,303,000; copper, $644,000; nickel alloys, $27,000. [5] Other than heat-corrosion resistant.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

## No. 984.—Selected Metal Products—Factory Shipments: 1946 and 1947

[Leaders indicate no data available]

| PRODUCT AND UNIT OF MEASURE | 1946 | | 1947 | |
|---|---|---|---|---|
| | Quantity | Value ($1,000) | Quantity | Value ($1,000) |
| Containers and closures: | | | | |
| Steel shipping barrels and drums—number | 31,649,398 | ---------- | 35,862,610 | ---------- |
| Steel packages, kegs, and pails—do | 55,560,197 | ---------- | 61,075,633 | ---------- |
| Metal cans—short tons of steel consumed | 2,759,519 | ---------- | 2,956,116 | ---------- |
| Food—do | 2,305,359 | ---------- | 2,146,601 | ---------- |
| Non-food—do | 454,160 | ---------- | 809,515 | ---------- |
| Crowns—gross | 288,559,772 | ---------- | 319,785,429 | ---------- |
| Closures (except crowns)—1,000 | 15,551,456 | ---------- | 11,602,610 | ---------- |
| Commercial—do | 14,749,916 | ---------- | 10,874,377 | ---------- |
| Home canning—do | 801,540 | ---------- | 728,233 | ---------- |
| Heating and cooking equipment: | | | | |
| Domestic cooking stoves and ranges—number | 3,375,918 | 220,844 | 4,510,951 | 367,932 |
| Electric—do | 576,723 | 55,089 | 1,043,711 | 117,848 |
| Gas, including bungalow—do | 1,762,138 | 114,476 | 2,286,788 | 179,615 |
| Liquid fuel—do | 516,308 | 15,300 | 559,579 | 20,627 |
| Coal and wood—do | 405,107 | 21,054 | 449,356 | 23,882 |
| Combination—do | 115,642 | 14,925 | 171,517 | 25,960 |
| Domestic heating stoves—do | 4,204,939 | 79,377 | 6,313,427 | 143,592 |
| Gas—do | 1,258,600 | 16,197 | 2,595,563 | 38,506 |
| Liquid fuel—do | 1,319,052 | 39,206 | 2,412,216 | 87,596 |
| Coal and wood—do | 1,627,287 | 23,974 | 1,305,648 | 17,490 |
| Water heaters—do | 2,897,031 | 100,386 | 3,540,565 | 163,567 |
| Electric—do | 496,912 | 25,662 | 830,773 | 52,667 |
| Non-electric—do | 2,400,119 | 74,724 | 2,709,792 | 110,900 |
| Direct-fired—do | 2,092,986 | 66,868 | 2,429,355 | 101,286 |
| Indirect—do | 307,133 | 7,856 | 280,437 | 9,614 |
| Range boilers—do | 1,001,223 | 9,233 | 691,252 | 7,437 |
| Cast iron boilers—1,000 pounds | 249,765 | 28,689 | 326,129 | 48,274 |
| Cast iron radiators and convectors—1,000 sq. ft. heating surf | 38,358 | 14,787 | 56,720 | 24,355 |
| Oil burners—number | 579,453 | ---------- | 1,185,949 | ---------- |
| Residential—do | 542,147 | ---------- | 1,137,173 | ---------- |
| Non-residential—do | 37,306 | ---------- | 48,776 | ---------- |
| Mechanical stokers—do | 190,917 | ---------- | 68,909 | ---------- |
| Warm air furnaces—do | 691,032 | 87,211 | 850,769 | 141,539 |
| Forced air—do | 239,702 | 45,196 | 463,823 | 100,125 |
| Gravity air—do | 451,330 | 42,015 | 386,946 | 41,414 |
| Construction machinery: | | | | |
| Power cranes and shovels—do | 5,696 | 81,324 | 8,035 | 132,836 |
| Dozers—do | 18,036 | 20,190 | 17,227 | 20,452 |
| Tracklaying tractors—do | 25,929 | 81,356 | 37,624 | 134,361 |
| Plumbing fixtures: | | | | |
| Bathtubs, cast iron and steel—do | 1,057,021 | ---------- | 1,671,795 | ---------- |
| Lavatories—do | 1,786,652 | ---------- | 2,737,610 | ---------- |
| Vitreous china—do | 1,029,679 | ---------- | 1,267,759 | ---------- |
| Cast iron and steel—do | 756,973 | ---------- | 1,469,851 | ---------- |
| Kitchen sinks—do | 2,344,584 | ---------- | 2,639,784 | ---------- |
| Vitreous china—do | 486,731 | ---------- | 111,954 | ---------- |
| Cast iron—do | 897,586 | ---------- | 1,232,355 | ---------- |
| Steel—do | 960,267 | ---------- | 1,295,475 | ---------- |
| Transportation equipment: | | | | |
| Truck trailers—do | 73,001 | 151,384 | 55,372 | 138,383 |
| Complete trailers—do | 67,386 | 142,801 | 52,071 | ---------- |
| Trailer chassis only—do | 5,615 | 8,583 | 3,301 | ---------- |
| Trailer coaches (housing types)—do | 47,103 | 74,584 | 70,078 | 115,741 |
| Complete aircraft (civilian)—do | 35,000 | 171,111 | 15,616 | 176,504 |
| Aircraft engines (civilian)—do | 40,822 | 56,217 | 16,340 | 49,320 |
| Miscellaneous: | | | | |
| Lawn mowers—do | 1,533,091 | 34,321 | 2,613,593 | 71,053 |
| Domestic water systems—do | 625,729 | 40,774 | 762,855 | 55,817 |
| Wheelbarrows—do | 561,981 | 3,856 | 651,279 | 6,759 |
| Electric power plants (10 kw or under)—do | 113,056 | 19,016 | 104,400 | 21,335 |
| Wind driven—do | 42,740 | 1,466 | 40,618 | 1,815 |
| Other—do | 70,316 | 17,550 | 63,782 | 19,520 |
| Scales and balances | ---------- | 31,935 | ---------- | 46,791 |
| Electric lamps—1,000 | 1,367,500 | 143,865 | 1,786,333 | 194,388 |

Source: Department of Commerce, Bureau of Census; Facts for Industry Series. Data for power cranes and shovels from Power Crane and Shovel Assn. Data on electric stoves and electric water heaters for 1946 from National Electric Manufacturers' Assn. and Bureau of Census; for 1947 from the former, and therefore not on comparable basis.

## No. 985.—Machinery—Value of the Principal Classes Manufactured

[**In thousands of dollars.** The various classes of machinery listed are products of a number of industries, such as "Industrial machinery, not elsewhere classified," "Motor vehicles, motor-vehicle bodies, parts and accessories," "Agricultural machinery (except tractors)," etc. This table is not an industry presentation, but a special presentation giving value of products for groups designated. The values are in part duplicated in other tables in this Abstract such as tables 986 and 990]

| CLASS | 1929 | 1933 | 1935 | 1937 | 1939 |
|---|---|---|---|---|---|
| Agricultural machinery and parts (harvesting, haying, planting, fertilizing, and machinery for preparing crops for market) | 167,673 | 17,109 | 68,916 | 114,340 | 96,207 |
| Aircraft (begun and completed within year) | 52,157 | 15,860 | 17,454 | 38,664 | 75,873 |
| Bakers' machinery and equipment | 21,730 | 7,332 | 11,869 | 18,120 | 17,583 |
| Blowers and fans | 25,243 | 6,955 | 15,830 | 26,282 | [1] 24,561 |
| Bottlers' machinery, except for dairies | 11,082 | 9,157 | 8,264 | 21,135 | 11,959 |
| Canning machinery | 8,535 | 3,139 | 8,271 | 11,840 | 4,103 |
| Cash registers, adding, calculating, and card-tabulating machines, and typewriters | 151,583 | 46,577 | [2] 83,217 | 118,552 | 95,712 |
| Cement and concrete machinery (not including cement-making, etc.) | 4,132 | 224 | 1,809 | 4,053 | 1,739 |
| Cement-making machinery | 4,387 | 545 | 1,646 | 2,065 | 3,035 |
| Clay-working machinery (brick, pottery, etc.) | 4,402 | 591 | 1,071 | 2,727 | 2,059 |
| Coin-operated commodity or vending machines | 8,821 | 5,472 | 5,989 | 8,978 | 6,154 |
| Commercial laundry, dry-cleaning, and pressing machery | [3] 36,110 | [3] 7,993 | [3] 14,241 | 21,969 | 20,727 |
| Confectionery and ice-cream machinery | 3,674 | 2,667 | 5,052 | 7,217 | 6,985 |
| Construction and similar machinery | [4] 160,683 | 25,858 | 61,708 | 133,869 | 115,298 |
| Cotton-ginning machinery | 11,760 | 2,165 | 4,892 | 11,300 | 5,115 |
| Dairy machinery | 16,593 | 8,327 | 14,864 | 18,462 | 15,467 |
| Electrical machinery (generators, motors, and fans, including parts) | 285,974 | 73,405 | 151,501 | [1] 296,690 | 219,910 |
| Elevators, escalators, and conveyors: | | | | | |
| Automobile lifts | [5] | 1,869 | 4,013 | 3,786 | 4,254 |
| Conveying and elevating machinery | 48,537 | 11,413 | 22,045 | 33,911 | 29,773 |
| Elevators, escalators, and dumb-waiters | 44,044 | 8,322 | 9,110 | 21,235 | 16,989 |
| Engines (steam or internal-combustion), turbines, and water wheels [6] | 129,175 | 25,874 | 61,555 | 113,851 | 113,572 |
| Flour-mill and grain-mill machinery | 8,286 | 2,354 | 5,167 | 6,916 | 6,087 |
| Foundry machinery | 10,639 | 1,957 | 5,585 | 9,156 | 6,804 |
| Glass-making machinery | 3,688 | 1,895 | 3,543 | 4,729 | 4,459 |
| Lawn mowers | 10,953 | 3,467 | 4,987 | 8,427 | 9,691 |
| Leather-working machinery, other than shoe | 1,249 | 747 | 1,005 | 1,220 | 1,265 |
| Locomotives | 82,909 | 2,748 | 21,735 | 65,163 | 43,411 |
| Machine tools | 147,316 | 16,457 | 64,515 | 162,046 | 166,649 |
| Metalworking machinery | 92,358 | 23,151 | 80,346 | 131,664 | 107,709 |
| Mining machinery (not including well drilling or dredging) | [7] 40,325 | 8,107 | 21,195 | 29,124 | [8] 34,380 |
| Motorcycles, side cars, bicycles, and parts | 21,198 | [5] | 22,807 | 30,827 | 38,917 |
| Motor vehicles and chassis | 3,412,056 | 928,650 | 2,152,986 | 2,848,786 | 2,275,254 |
| Oil-field machinery, tools, and equipment | [5] | [5] | [5] | [9] 120,988 | 81,862 |
| Oil-mill machinery, cottonseed and other | 2,533 | 2,110 | 2,790 | 4,677 | 2,931 |
| Oil-refinery machinery | 30,210 | 4,807 | 7,931 | 14,816 | 16,360 |
| Packing-house machinery | 6,663 | 2,756 | 5,317 | 7,029 | 6,023 |
| Paper-mill and pulp-mill machinery | 30,456 | 8,696 | 14,829 | 33,177 | 21,516 |
| Printers' machinery | 64,860 | 13,598 | 30,377 | 46,582 | 31,749 |
| Pumps, pumping equipment, and air compressors: | | | | | |
| Measuring and dispensing pumps | 132,747 | 10,343 | 18,092 | 38,893 | 31,767 |
| Pumps and pumping equipment | | 25,322 | 46,118 | 82,982 | 79,230 |
| Air compressors | 39,683 | 7,214 | 15,891 | 28,328 | 21,232 |
| Refrigerators, mechanical | 167,149 | 90,694 | 152,513 | 243,865 | 193,977 |
| Refrigerating and ice-making machinery | | 4,115 | 6,570 | 9,534 | 6,541 |
| Rubber-working machinery | 13,552 | 3,347 | 4,883 | 12,271 | 13,685 |
| Scales and balances | 25,385 | 6,805 | 12,191 | 17,169 | 13,544 |
| Sewing machines | 37,378 | 10,274 | 18,250 | 24,593 | 20,304 |
| Shoe machinery | 12,317 | 8,130 | 10,245 | 10,903 | 10,603 |
| Stokers, mechanical | 14,054 | 5,629 | 11,537 | 22,176 | 20,275 |
| Sugar-mill machinery | 5,046 | 794 | 1,260 | 4,344 | 2,935 |
| Textile machinery and parts | 115,525 | 57,892 | 64,899 | [1] 100,696 | 85,601 |
| Tobacco-manufacturers' machinery | 5,018 | 1,106 | 1,693 | 3,679 | 3,337 |
| Vacuum cleaners (electric) | 35,108 | 14,411 | 24,191 | 36,029 | 44,160 |
| Washing machines, clothes wringers, driers, and ironing machines for domestic use | 79,011 | 42,422 | 59,513 | 73,291 | [10] 66,282 |
| Well-drilling machinery (excluding oil-well) | [5] | [5] | [5] | 3,334 | 1,519 |
| Windmills | 4,063 | 1,400 | 1,833 | 2,613 | 1,929 |
| Woodworking machinery | 35,151 | 6,100 | 12,542 | 23,118 | 23,413 |

[1] Not strictly comparable with figures for earlier years.
[2] Includes postal meters.
[3] Excludes dry-cleaning machinery.
[4] Not including mining dredges.
[5] No comparable data.
[6] Not including motor-vehicle or aircraft engines.
[7] Includes dredging.
[8] Includes mine conveying and elevating machinery.
[9] Not strictly comparable with figures for 1939.
[10] Includes parts and attachments.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 986.—Electrical Machinery Group—Value, by Classes: 1933 to 1939

[In thousands of dollars]

| PRODUCT | 1933 | 1935 | 1937 | 1939 |
|---|---|---|---|---|
| **Electrical machinery, total** | 648,671 | 1,124,848 | 1,935,844 | 1,754,068 |
| **Wiring devices and supplies** | 38,948 | 63,559 | 109,529 | 109,140 |
| Wiring devices | 17,796 | 24,583 | 32,003 | 34,788 |
| Wiring supplies | 4,702 | 12,345 | 23,667 | 25,099 |
| Insulators and insulating materials | (1) | (1) | [2] 6,344 | [2] 3,924 |
| Conduits and fittings | 14,692 | 23,095 | 39,443 | 38,497 |
| Lightning arresters and choke coils | 1,592 | 2,871 | 5,983 | 5,412 |
| Relays (excluding industrial motor-control and telephone) | 166 | 664 | 2,088 | 1,421 |
| **Carbon products for the electrical industry, and manufactures of carbon or artificial graphite** | 8,997 | 12,470 | 20,432 | 18,585 |
| Brushes and plates, rods, and powder for making brushes | 2,282 | 4,150 | 6,511 | 5,330 |
| Electrodes | 6,715 | 8,320 | 13,921 | 10,102 |
| Other carbon and graphite products | | | | 3,153 |
| **Electrical measuring instruments** | 9,162 | 22,822 | 39,026 | 37,145 |
| Measuring instruments and meters | 9,162 | 22,822 | 36,879 | 32,689 |
| Analyzers for testing the electrical and other equipment of internal-combustion engines and radio apparatus | (1) | (1) | 2,147 | 4,456 |
| **Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified** | 120,961 | 241,564 | 492,735 | 404,583 |
| Generating apparatus and parts, except railway and vehicle power generators | [3] 14,129 | [3] 40,976 | 60,952 | 46,850 |
| Transformers, current-limiting reactors, and feeder-voltage regulators (except measuring-instrument transformers) | [4] 13,094 | 28,881 | 83,613 | 65,064 |
| Rotating converting apparatus | 2,201 | 5,862 | 10,928 | 4,816 |
| Motors, except railway and vehicle motors (not including starters and controllers) | 45,606 | 72,668 | 153,295 | 123,050 |
| Fractional-horsepower | [5] 23,746 | 32,365 | 71,723 | 55,037 |
| *Number* *thousands* | *3,818* | *7,019* | *20,666* | *11,256* |
| 1 hp. and over | 17,197 | 34,562 | 67,400 | 52,049 |
| Direct-current | 3,622 | 8,489 | 15,629 | 11,675 |
| Alternating-current | [5] 13,574 | 26,073 | 51,771 | 40,375 |
| *Number* *thousands* | *172* | *294* | *521* | *457* |
| Other motors and parts and supplies | [6] 4,663 | [7] 5,740 | 14,172 | 15,964 |
| Control apparatus (except railway and vehicle controllers, all types) | 15,165 | 28,230 | 47,388 | 46,040 |
| Fuses and fuse blocks (except high-voltage and power types, 2,300 volts and over) | 4,825 | 5,013 | 7,117 | 6,879 |
| Industrial and commercial apparatus and appliances | 9,698 | 23,747 | 40,697 | 34,901 |
| Switchboard apparatus (circuit breakers, panelboards, switchboards, and switches) | 16,243 | 36,188 | 88,743 | 76,983 |
| Panelboards and distribution boards | (1) | 7,896 | 16,692 | 14,451 |
| Knife, power, and other switches | (1) | 5,382 | 13,649 | 15,447 |
| Circuit breakers, including attachments and parts | (1) | 8,019 | 22,452 | 17,199 |
| Power switchboards and parts | (1) | 9,008 | 21,221 | 18,133 |
| Power switching equipment, power connectors, and distribution cut-outs and fuse links for 2,300 to 15,000 volts, a. c. service | (1) | 5,884 | 14,730 | 11,752 |
| **Electrical appliances** | 39,770 | 80,891 | 130,783 | 124,327 |
| Fans (direct motor-driven) | 2,437 | 6,695 | 15,565 | 8,286 |
| Domestic cooking and heating equipment and other household appliances | 36,707 | 72,457 | 112,151 | 112,248 |
| Water heaters (for permanent installation) | 432 | 3,530 | 5,605 | 3,453 |
| Cooking and heating appliances | 14,735 | 31,589 | 54,615 | 48,443 |
| Mixers, whippers, and juicers | (1) | 9,737 | 7,372 | 6,546 |
| *Number* *thousands* | (1) | (1) | *1,033* | *1,080* |
| Vacuum cleaners | 14,411 | 24,191 | 36,029 | 44,160 |
| *Number* *thousands* | *555* | *1,112* | *1,515* | *1,445* |
| Other | 7,129 | 3,410 | 8,530 | 9,646 |
| Commercial cooking apparatus and other commercial or domestic appliances | 625 | 1,739 | 3,067 | 3,792 |
| **Insulated wire and cable** | 65,637 | 122,226 | 245,342 | 204,430 |
| Rubber insulated | 25,789 | 46,242 | 90,432 | 67,435 |
| Cotton insulated, including weatherproof and slow-burning | 7,248 | 12,344 | 22,680 | 20,856 |
| Asbestos-insulated | | 3,041 | 6,530 | 4,476 |
| Paper-insulated | 6,032 | 8,129 | 33,420 | 20,783 |
| Varnished-cambric insulated | 1,979 | 4,121 | 9,140 | 5,796 |
| Magnet | 10,141 | 16,899 | 29,805 | 25,431 |
| Armored cable or conductor | 4,411 | 6,845 | 8,917 | 12,985 |
| Ignition-cable sets or wire assemblies for internal-combustion engines | (1) | (1) | 13,389 | 7,714 |
| Other | 10,039 | 24,606 | 31,028 | 38,952 |

For footnotes, see next page.

## No. 986.—Electrical Machinery Group—Value, by Classes: 1933 to 1939—Continued

[In thousands of dollars]

| PRODUCT | 1933 | 1935 | 1937 | 1939 |
|---|---|---|---|---|
| **Automotive electrical equipment** | 32,464 | 65,828 | 114,149 | 106,634 |
| Automotive generators for battery charging (not including automotive starter-motors) | [8] | [8] | 22,359 | 14,949 |
| Automotive starter-motors, railway motors and control equipment, motors, generators, and control equipment for gasoline-electric and oil-electric buses, trucks, and locomotives, and for storage battery trucks | [9] 9,032 | [10] 25,300 | 33,590 | 21,958 |
| Ignition apparatus for internal-combustion engines | 23,432 | 40,528 | 58,201 | 69,727 |
| **Electric lamps** | 49,849 | 64,774 | 77,891 | 79,304 |
| Incandescent-filament lamps | [11] 49,849 | 62,703 | 74,304 | 73,119 |
| Other lamps | | 2,072 | 3,588 | 6,185 |
| **Radios, radio tubes, and phonographs** | 119,235 | 206,633 | 288,620 | 284,476 |
| Radio sets, complete (cabinet, chassis, speaker, and tubes) | 71,961 | 134,674 | 176,736 | 161,391 |
| For home and general use (except radio-phonograph combinations and audio-television) | 56,240 | 104,816 | 131,526 | 111,848 |
| Covering standard broadcast band | 50,096 | 19,793 | 33,194 | 48,418 |
| *Number—thousands* | *2,781* | *1,437* | *2,280* | *5,361* |
| Socket-power-operated | 48,164 | 14,908 | 29,529 | 35,436 |
| *Number—thousands* | *2,689* | *1,250* | *2,045* | *4,209* |
| Battery-operated (excluding batteries) | 1,932 | 4,885 | 3,665 | 12,982 |
| *Number—thousands* | *93* | *187* | *235* | *1,153* |
| Extending beyond standard broadcast band | 5,071 | 85,023 | 98,332 | 63,429 |
| *Number—thousands* | *116* | *2,961* | *3,563* | *2,895* |
| Socket-power-operated | [1] | 77,994 | 91,472 | 60,324 |
| *Number—thousands* | [1] | *2,701* | *3,290* | *2,685* |
| Battery-operated (excluding batteries) | [1] | 7,028 | 6,860 | 3,105 |
| *Number—thousands* | [1] | *260* | *273* | *212* |
| Not reported by kind | 1,073 | | | |
| Radio-phonograph combinations | 1,408 | 2,461 | 4,567 | 17,193 |
| *Number—thousands* | *30* | *23* | *58* | *475* |
| Automobile sets, including all accessory equipment | 13,598 | 25,556 | 38,679 | 27,716 |
| *Number—thousands* | *700* | *1,222* | *1,891* | *1,587* |
| All other receiving sets | 715 | 1,841 | 1,963 | 4,634 |
| Radio tubes (made for own use or for sale) | 27,027 | 31,562 | 42,797 | 35,575 |
| Radio receiving tubes for use as initial equipment | 9,345 | 16,021 | 23,769 | 22,935 |
| *Number—thousands* | *23,417* | *41,462* | *70,746* | *78,194* |
| Radio receiving tubes for renewal and replacement | 15,870 | 12,954 | 15,482 | 10,012 |
| *Number—thousands* | *36,442* | *36,769* | *41,472* | *31,387* |
| Radio transmitting tubes | 1,812 | 2,587 | 3,547 | 2,629 |
| *Number—thousands* | [1] | [1] | [1] | *460* |
| Transmitters (including all associated equipment except tubes) | 1,363 | 5,770 | 8,876 | 7,333 |
| Phonographs and accessories | 2,973 | 6,081 | 15,493 | [12] 48,917 |
| Other | 15,910 | 28,545 | 44,718 | 31,260 |
| **Communication equipment** | 27,612 | 87,613 | 193,611 | 166,867 |
| Radio apparatus | [13] | 31,882 | 55,685 | 52,583 |
| Signaling apparatus, electric (other than railway) | 6,432 | 12,146 | 22,043 | 19,789 |
| Telephone and telegraph apparatus (not including wireless) | 21,180 | 43,584 | 115,883 | 94,496 |
| **Batteries, storage and primary (dry and wet)** | 67,444 | 85,718 | 102,877 | 111,217 |
| *Storage batteries* | *52,129* | *65,901* | *78,250* | *81,122* |
| Dry batteries (cells) | [14] 12,929 | 15,307 | 20,680 | 25,900 |
| Wet primary batteries and parts and supplies for dry batteries and wet primary batteries | 2,386 | 4,510 | 3,947 | 4,195 |
| **X-ray and therapeutic apparatus and electronic tubes** | 4,681 | 12,020 | 20,397 | 21,431 |
| Electrotherapeutic and electromedical apparatus | 4,389 | 4,680 | 6,534 | 6,326 |
| X-ray apparatus (exclusive of X-ray tubes) | | 4,563 | 9,765 | 10,506 |
| Nonradio electronic tubes and X-ray tubes | [15] 293 | 2,777 | 4,098 | 4,600 |
| Electrical products not elsewhere classified | 63,910 | 58,732 | 100,451 | 85,928 |

[1] No data.
[2] Includes porcelain and trolley-line insulators for 1937 and earlier years.
[3] Includes automotive generators for battery charging; for 1937 and 1939, data are included in "Automotive electrical equipment" industry.
[4] Includes radio transformers; for 1935, 1937, and 1939, data are included in radio apparatus in "Communication equipment" industry.
[5] Includes motors which in later years are included in other motors and parts and supplies.
[6] Includes motors not reported by kind. See note 5 also.
[7] Other motors only; parts and supplies included with automotive starter motors in "Automotive electrical equipment" industry.
[8] See note 3. [9] Automotive starter motors only.
[10] Automotive starter motors and parts and supplies for other motors, see note 7.
[11] Includes X-ray tubes; for later years data are included in nonradio electronic tubes and X-ray tubes in "X-ray and therapeutic apparatus and electronic tubes" industry.
[12] Includes phonographs for electrical reproduction of records, included in prior years in "Other."
[13] No data for radio parts. See note 4 also.
[14] Includes parts and supplies. [15] See note 11.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 987.—Farm Machines and Equipment (Complete Units, Attachments, and Parts)—Sales, by Class: 1943 to 1946

[**In thousands of dollars.** Excludes data for tractors for nonfarm use]

| CLASS | 1943 | 1944 | 1945 | 1946 |
|---|---|---|---|---|
| **Total** | 378,341 | 659,014 | 750,547 | 886,451 |
| Farm machines and equipment (complete units) | 233,077 | 468,387 | 533,950 | 658,452 |
| Attachments and parts | 145,264 | 190,627 | 216,597 | 227,999 |
| COMPLETE UNITS, ATTACHMENTS, AND PARTS | | | | |
| Plows and listers | 25,197 | 35,886 | 40,163 | 45,658 |
| Harrows, rollers, pulverizers, and stalk cutters | 10,824 | 22,514 | 22,599 | 32,414 |
| Planting, seeding, and fertilizing machinery | 16,358 | 35,110 | 43,286 | 52,062 |
| Cultivators and weeders | 16,172 | 30,713 | 33,567 | 34,203 |
| Sprayers and dusters | 8,366 | 13,085 | 14,715 | 24,274 |
| Harvesting machinery | 49,270 | 79,786 | 99,361 | 110,545 |
| Haying machinery | 26,115 | 44,743 | 49,456 | 57,830 |
| Machines for preparing crops for market or for use | 14,567 | 21,311 | 25,230 | 34,685 |
| Farm elevators and blowers | 3,495 | 4,585 | 6,144 | 11,121 |
| Tractors for farm use | 114,691 | 247,112 | 262,999 | 303,006 |
| Farm wagons, trucks, and other farm transportation equipment | 6,685 | 10,913 | 15,864 | 27,426 |
| Farm dairy machines and equipment | 25,024 | 36,127 | 46,752 | 49,548 |
| Barn equipment | 4,836 | 6,986 | 7,087 | 9,626 |
| Barnyard equipment | 4,052 | 7,184 | 8,087 | 8,792 |
| Farm poultry equipment | 17,989 | 21,326 | 24,868 | 23,928 |
| Miscellaneous farm equipment | 34,700 | 41,633 | 50,369 | 61,324 |

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

## No. 988.—Farm Machines and Equipment, Attachments, and Parts—Sales: 1929 to 1946

[**In thousands of dollars.** Includes data for tractors for nonfarm use; for figures excluding these data, see table 987. Survey suspended 1932–34]

| YEAR | Total | Farm machines and equipment | Attachments and parts | YEAR | Total | Farm machines and equipment | Attachments and parts |
|---|---|---|---|---|---|---|---|
| 1929 | 517,015 | 434,754 | 82,261 | 1939 | 420,797 | 330,894 | 89,903 |
| 1930 | 439,812 | 361,218 | 78,594 | 1940 | 497,823 | 396,371 | 101,452 |
| 1931 | 223,427 | 171,731 | 51,696 | 1941 | 671,398 | 538,963 | 132,435 |
| 1935 | 294,546 | 234,959 | 59,587 | 1942 | 659,028 | 447,187 | 211,841 |
| | | | | 1943 | 636,989 | 375,869 | 261,120 |
| 1936 | 402,875 | 327,941 | 74,934 | 1944 | 1,067,840 | 731,220 | 336,620 |
| 1937 | 517,475 | 436,678 | 80,797 | 1945 | 1,046,926 | 740,867 | 306,059 |
| 1938 | 435,806 | 346,133 | 89,673 | 1946 | 1,015,862 | 733,078 | 282,784 |

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

## No. 989.—Tractors, Attachments, and Parts (Farm and Nonfarm)—Sales, by Kind: 1943 to 1947

[Value in thousands of dollars]

| Year and type of product | Total value | Complete units | | | | Attachments and parts | |
|---|---|---|---|---|---|---|---|
| | | Farm | | Nonfarm | | Farm value | Nonfarm value |
| | | Number | Value | Number | Value | | |
| **Total:** | | | | | | | |
| 1943 | 373,340 | 107,009 | 64,030 | 37,120 | 142,793 | 50,662 | 115,855 |
| 1944 | 655,938 | 258,117 | 170,153 | 53,877 | 262,832 | 76,959 | 145,994 |
| 1945 | 559,378 | 263,164 | 177,578 | 52,488 | 206,917 | 85,421 | 89,462 |
| 1946 | 449,561 | 364,725 | 221,840 | 32,119 | 77,292 | 94,684 | 55,745 |
| 1947 | 720,316 | 578,048 | 385,170 | 47,572 | 124,625 | 139,780 | 70,741 |
| Wheel type: | | | | | | | |
| 1943 | 101,361 | 94,550 | 55,944 | 9,317 | 7,273 | 35,874 | 2,270 |
| 1944 | 236,395 | 235,453 | 157,519 | 14,502 | 12,594 | 59,007 | 7,275 |
| 1945 | 250,069 | 224,985 | 153,170 | 18,707 | 15,726 | 74,695 | 6,478 |
| 1946 | 279,470 | 243,271 | 180,363 | 12,067 | 11,909 | 80,360 | 6,838 |
| 1947 | 464,802 | 405,654 | 325,090 | 14,350 | 17,478 | 114,818 | 7,416 |
| Tracklaying type: | | | | | | | |
| 1943 | 269,959 | 2,906 | 6,688 | 27,746 | 135,506 | 14,211 | 113,554 |
| 1944 | 416,137 | 6,221 | 10,415 | 38,966 | 250,168 | 16,866 | 135,688 |
| 1945 | 303,269 | 11,149 | 20,974 | 32,849 | 191,033 | 8,400 | 82,862 |
| 1946 | 142,150 | 8,898 | 18,118 | 17,367 | 64,817 | 10,569 | 48,646 |
| 1947 | 211,242 | 11,619 | 28,197 | 25,988 | 106,018 | 14,257 | 62,770 |
| Garden type: | | | | | | | |
| 1943 | 2,020 | 9,553 | 1,398 | 57 | 14 | 577 | 31 |
| 1944 | 3,406 | 16,443 | 2,219 | 409 | 70 | 1,086 | 31 |
| 1945 | 6,040 | 27,030 | 3,434 | 932 | 158 | 2,326 | 122 |
| 1946 | 27,941 | 112,556 | 23,359 | 2,685 | 566 | 3,755 | 261 |
| 1947 | 44,272 | 160,775 | 31,883 | 7,234 | 1,129 | 10,705 | 555 |

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M37A.

## No. 990.—Machine Tools—Shipments by Major Types: 1939 to 1946

[Includes light type machine tools, particularly in drilling machines, lathes, grinding and polishing machines, and milling machines. Excludes machine tools specifically designed for home workshops, model makers, garages, and service shops. Data represent complete coverage except for last half of 1944 when coverage was approximately 95 percent]

| Major type | Value of shipments ($1,000) | | | 1946 | | |
|---|---|---|---|---|---|---|
| | | | | Number of companies [3] | Shipments | |
| | 1939 [1] | 1942 [2] | 1944 [2] | | Number | Value ($1,000) |
| **Total** | 166,644 | 1,321,748 | 497,465 | 344 | 181,051 | 327,222 |
| Boring machines | 14,167 | 137,472 | 44,321 | 39 | 1,888 | 27,454 |
| Broaching machines | 2,296 | 9,022 | 3,151 | 7 | 573 | 4,657 |
| Drilling machines | 12,373 | 103,726 | 46,623 | 51 | 26,704 | 33,970 |
| Gear cutting and finishing machines | 11,242 | 51,864 | 28,962 | 17 | 1,852 | 17,870 |
| Grinding and polishing machines (except gear tooth grinding, honing, lapping, and buffing) | 30,273 | 209,345 | 85,433 | 128 | 55,632 | 54,352 |
| Lathes | 50,108 | 455,250 | 168,780 | 84 | 53,284 | 103,453 |
| Milling machines | 24,216 | 246,223 | 71,015 | 68 | 10,857 | 41,367 |
| Planers | 4,484 | 29,931 | 10,962 | 6 | 206 | 4,853 |
| Shapers (except gear shapers) | 1,892 | 78,915 | 38,218 | 16 | 2,110 | 7,159 |
| All other machine tools | 15,593 | | | 117 | 27,945 | 32,086 |

[1] Value of production from Census of Manufactures.
[2] Only machine tools with a value of $350 or over are included.
[3] Number shipping machine tools is less for total than sum of companies shipping individual major types since some producers ship more than one major type of tool.

Source: 1939 and 1946, Department of Commerce, Bureau of Census; 1942 and 1944, War Production Board. Published in part in Facts for Industry Series M34A.

## No. 991.—Air Conditioning and Commercial Refrigeration Equipment—Shipments by Manufacturers: 1940 to 1947

[**Value figures in thousands of dollars.** Statistics cover types normally sold as standard items and more important types of components and accessories. Data include a very limited amount of certain types specifically designed for special uses. Excluded are less important components and accessories such as switches, dehydrators, accumulators, valves, and surge drums and tanks. Companies included represent substantially all producers of equipment shown]

| PRODUCT | SHIPMENTS OF COMPLETE UNITS | | | | | |
|---|---|---|---|---|---|---|
| | 1940 | | 1944 | | 1945 | |
| | Number | Value | Number | Value | Number | Value |
| **Total unitary equipment** | 338,796 | 76,141 | 153,026 | 52,594 | 214,833 | 67,791 |
| Walk-in coolers | 5,156 | 2,706 | 5,682 | 5,082 | 6,960 | 6,801 |
| Reach-in refrigerators | 20,642 | 5,475 | 24,300 | 6,983 | 36,734 | 11,965 |
| Bottled beverage-cooling equipment | 78,397 | 11,254 | 929 | 283 | 6,493 | 1,409 |
| Bulk beverage-dispensing equipment | 20,504 | 4,571 | 329 | 221 | | |
| Display cases | 36,363 | 16,281 | 7,600 | 4,186 | 9,520 | 5,145 |
| Soda fountain equipment and ice cream cabinets | 84,855 | 18,617 | 6,873 | 3,204 | 8,974 | 3,356 |
| Soda fountain equipment | 8,265 | 4,877 | 503 | 372 | 1,555 | 780 |
| Ice cream cabinets, hardening and dispensing | 74,281 | 11,940 | 2,660 | 641 | 7,419 | 2,576 |
| Counter freezers | 2,309 | 1,800 | 3,710 | 2,190 | | |
| Frozen food cabinets | 9,608 | 1,959 | 2,289 | 754 | 6,861 | 1,803 |
| Farm and dairy-milk coolers | (1) | (1) | 28,552 | 4,756 | 38,601 | 5,818 |
| Drinking-water coolers | 44,846 | 4,632 | 55,895 | 6,562 | 82,915 | 10,506 |
| Laboratory and industrial freezing equipment | (1) | (1) | 1,100 | 931 | 1,123 | 673 |
| Ice-making machines | 1,045 | 628 | 3,665 | 3,351 | 2,805 | 4,044 |
| Air-conditioning units—store type | 5,880 | 4,467 | 4,468 | 3,615 | 13,847 | 10,903 |
| Absorption systems | (2) | 831 | (2) | 2,410 | (2) | 5,368 |
| Special refrigeration units and systems for war purposes | | | 11,015 | 10,183 | (2) | (2) |
| Miscellaneous air-conditioning and refrigeration equipment | 31,500 | 4,719 | 329 | 71 | (2) | (2) |

| PRODUCT | TOTAL SHIPMENTS [3] | | DOMESTIC SHIPMENTS | | TOTAL SHIPMENTS [3] | | DOMESTIC SHIPMENTS | |
|---|---|---|---|---|---|---|---|---|
| | Number | Value | Number | Value | Number | Value | Number | Value |
| | 1940 | | | | 1945 | | | |
| **Total components and accessories** | | 45,405 | | 42,483 | | 71,896 | | 67,885 |
| Condensing units | 211,021 | 18,808 | 197,564 | 17,423 | 354,401 | 36,902 | 338,157 | 34,449 |
| Ammonia refrigerants | 985 | 964 | 902 | 893 | 1,785 | 2,503 | 1,642 | 2,334 |
| Refrigerants except ammonia | 210,036 | 17,844 | 196,662 | 16,530 | 352,616 | 34,399 | 336,515 | 32,115 |
| Air-cooled | 187,468 | 12,313 | 175,153 | 11,323 | 327,031 | 23,378 | 313,058 | 22,212 |
| Water-cooled | 22,568 | 5,531 | 21,509 | 5,207 | 25,585 | 11,021 | 23,457 | 9,904 |
| Compressors and compressor units | 84,889 | 7,084 | 63,096 | 6,344 | 107,340 | 9,578 | 104,051 | 8,852 |
| Centrifugal refrigeration machines | 112 | 2,404 | 101 | 2,237 | 185 | 2,993 | 181 | 2,932 |
| Heat-exchanger equipment | | 17,110 | | 16,478 | | 22,422 | | 21,652 |
| Evaporative condensers | 2,413 | 1,769 | 2,212 | 1,666 | 2,885 | 2,829 | 2,664 | 2,609 |
| Unit coolers | 63,417 | 7,076 | 60,826 | 6,721 | 91,003 | 10,187 | 88,153 | 9,870 |
| Other heat-exchanger equipment | | 8,265 | | 8,091 | | 9,407 | | 9,173 |
| | 1946 | | | | 1947 | | | |
| **Total components and accessories** | | 117,800 | | 111,663 | | 182,411 | | 166,753 |
| Condensing units | 755,538 | 55,380 | 725,119 | 51,973 | 1,201,524 | 87,551 | 1,135,750 | 79,400 |
| Ammonia refrigerants | 1,409 | 1,464 | 1,281 | 1,324 | 1,646 | 2,107 | 1,426 | 1,862 |
| Refrigerants except ammonia | 754,129 | 53,915 | 723,838 | 50,649 | 1,199,878 | 85,444 | 1,134,324 | 77,538 |
| Air-cooled | 712,781 | 40,340 | 685,088 | 37,864 | 1,157,777 | 69,572 | 1,095,869 | 63,330 |
| Water-cooled | 41,348 | 13,575 | 38,750 | 12,785 | 42,101 | 15,872 | 38,455 | 14,208 |
| Compressors and compressor units | 191,770 | 15,377 | 178,273 | 14,281 | 662,783 | 36,792 | 619,787 | 33,168 |
| Centrifugal refrigeration machines | 312 | 6,593 | 295 | 6,319 | 328 | 7,692 | 277 | 6,818 |
| Heat-exchanger equipment | | 40,451 | | 39,090 | | 50,376 | | 47,368 |
| Evaporative condensers | 4,859 | 4,957 | 4,536 | 4,639 | 5,997 | 7,106 | 5,555 | 6,650 |
| Unit coolers | 190,552 | 18,203 | 186,966 | 17,633 | 141,163 | 19,611 | 129,560 | 18,134 |
| Other heat-exchanger equipment | | 17,291 | | 16,818 | | 23,658 | | 22,583 |

[1] Not called for separately. [2] Not available. [3] Includes export shipments, not shown separately.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M52A.

## No. 992.—Motion-Picture Production—Summary: 1921 to 1939

[**All money figures are in thousands of dollars.** Represents activities of motion-picture studios and laboratories. Excludes distribution of films and their projection in theaters. No data included for establishments which reported less than $5,000 as cost of work done. The motion-picture industry has been canvassed, since 1921, in connection with the Biennial Census of Manufactures. It is not, however, a manufacturing industry, but was treated as such prior to 1931]

| Year and state | Number of establishments | Persons engaged | | Salaries and wages | | Cost of contract work | Cost of studio supplies, fuel, etc.[1] | Cost of production |
|---|---|---|---|---|---|---|---|---|
| | | Salaried officers and employees | Wage earners (average for year) | Salaries | Wages | | | |
| **United States** | | | | | | | | |
| 1921 | 127 | 4,400 | 6,259 | 22,953 | 14,740 | 563 | 31,190 | 77,397 |
| 1923 | 97 | 3,496 | 6,408 | 21,824 | 16,601 | 1,609 | 30,657 | 86,418 |
| 1925 | 132 | 5,945 | 5,573 | 35,951 | 13,066 | 5,369 | 33,258 | 93,636 |
| 1927 | 142 | 7,598 | 8,415 | 56,299 | 18,637 | 15,477 | 34,867 | 134,343 |
| 1929 | 142 | 8,818 | 10,784 | 60,168 | 24,860 | 11,312 | 38,441 | 184,102 |
| 1931 | 140 | [2] 14,839 | | [2] 70,637 | | 12,016 | 32,222 | 154,436 |
| 1933 | 92 | [3] 8,260 | 10,777 | [3] 52,948 | 18,395 | 4,028 | 26,153 | 119,343 |
| 1935 | 129 | 12,675 | 14,917 | 79,743 | 24,686 | 5,145 | 29,541 | 161,865 |
| 1937 | 83 | 13,060 | 19,338 | 102,393 | 37,158 | 7,013 | 35,575 | 197,741 |
| 1939 | 178 | 9,635 | 24,052 | 93,341 | 45,736 | 3,645 | 43,052 | 215,700 |
| **States, 1939** | | | | | | | | |
| California | 93 | 8,690 | 21,573 | 89,885 | 41,096 | 2,024 | 31,118 | 186,849 |
| Los Angeles | 65 | 4,554 | 9,597 | 43,680 | 19,701 | 832 | 20,464 | 95,320 |
| Remainder of State | 28 | 4,136 | 11,976 | 46,205 | 21,396 | 1,192 | 10,654 | 91,529 |
| Illinois | 9 | 53 | 72 | 162 | 97 | 2 | 226 | 530 |
| Michigan | 5 | 125 | 138 | 336 | 334 | 35 | 680 | 1,765 |
| Missouri | 5 | 20 | 11 | 43 | 9 | 1 | 32 | 172 |
| New York | 43 | 577 | 1,268 | 2,478 | 2,397 | 1,532 | 6,541 | 18,060 |
| Other States | 23 | 170 | 990 | 437 | 1,803 | 51 | 4,455 | 8,325 |

**Kind and cost of work done**

| Item | 1933 | 1935 | 1937 | 1939 | Item | 1933 | 1935 | 1937 | 1939 |
|---|---|---|---|---|---|---|---|---|---|
| **Total cost of work done** | 119,343 | 161,865 | 197,741 | 215,700 | Unfinished productions, cost | 14,581 | 15,684 | 33,075 | 38,301 |
| Negative films, cost | 82,280 | 118,673 | 131,755 | 148,632 | Laboratory work: | | | | |
| Theatrical: | | | | | Positive films, cost | 7,625 | 6,046 | 8,218 | 6,416 |
| Number | 1,059 | 1,094 | 3,942 | [4] | Receipts for work done for others | 11,835 | 15,089 | 15,318 | 18,594 |
| Cost | [5] 77,536 | [5] 110,975 | [5] 126,039 | 142,602 | Value of other work done | 1,520 | 1,818 | 3,468 | 2,337 |
| Advertising, cost | [5] 4,576 | [5] 4,940 | [5] 4,540 | 1,703 | | | | | |
| Industrial, cost | ------- | [6] | ------- | 2,175 | Receipts for use of studio facilities | 1,502 | 4,554 | 5,907 | 1,420 |
| Educational, cost | 168 | 324 | [7] 1,176 | [7] 726 | | | | | |
| Other films, cost | ------- | [6] 2,434 | | [7] 1,426 | | | | | |

[1] Includes cost of studio supplies, containers for films, fuel, and purchased electric energy.
[2] Data cover "productive employees" only. These include all wage earners and a part, but not all, of the salaried employees. Figures are not, therefore, comparable with either the wage-earner figures or with the total number of persons engaged. Data for other years cover all classes of employees.
[3] Does not include data for salaried officers of corporations.
[4] Data incomplete.
[5] "News reels" included with "advertising."
[6] Figure for "industrial" included in that for "other films."
[7] Combined to avoid disclosing approximations of data for individual establishments.

Source: Department of Commerce, Bureau of the Census; Biennial Census report, Motion Pictures.

## No. 993.—Alaska—Manufactures, by Industries: 1899 to 1939

[Figures for 1939 do not include data for plants reporting products valued at less than $2,000; those for earlier years cover all plants having products valued at $500 or more. This increase in minimum value-of-products limit resulted in some reduction in "Number of establishments" reported as compared with what it would have been had minimum of $500 been retained, but did not seriously impair comparableness of figures for 1939 with those for earlier years. Comparable figures for earlier years are given for all industries for which such figures are available]

| INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| **All industries, total** | [2] 1939 | 230 | 4,816 | 6,883,988 | 20,916,757 | 38,815,436 | 17,898,679 |
| | 1919 | 147 | 6,575 | 8,839,452 | 19,482,485 | 41,495,243 | 22,012,758 |
| | 1909 | 152 | 3,099 | 1,948,026 | 5,119,613 | 11,340,105 | 6,220,492 |
| | 1899 | 48 | 2,260 | 1,374,680 | 1,762,583 | 4,194,421 | 2,431,838 |
| Boat building and repairing | 1939 | 7 | 34 | 23,950 | 59,800 | 149,739 | 89,939 |
| | 1909 | 6 | 8 | 2,440 | 3,139 | 10,330 | 7,191 |
| Bread and other bakery products | 1939 | 24 | 51 | 67,497 | 233,216 | 408,464 | 175,248 |
| | 1909 | 8 | 24 | 41,900 | 71,099 | 141,110 | 70,011 |
| Fish canning and processing | 1939 | 140 | 4,308 | 6,288,175 | 19,990,289 | 36,367,663 | 16,377,374 |
| | 1919 | 104 | 6,085 | 8,136,659 | 18,535,578 | 39,160,922 | 20,625,344 |
| | 1909 | 46 | 2,717 | 1,457,587 | 4,053,094 | 9,189,982 | 5,136,888 |
| | 1899 | 36 | 2,092 | [3] 1,243,000 | [3] 1,588,000 | [3] 3,821,000 | [3] 2,233,000 |
| Ice, manufactured | 1939 | 4 | 12 | 18,566 | 10,080 | 77,776 | 67,696 |
| Lumber and timber products | 1939 | 21 | 250 | 287,376 | 309,416 | 900,111 | 590,695 |
| | 1919 | 22 | 222 | 327,292 | 311,439 | 950,256 | 638,817 |
| | 1909 | 22 | 131 | 108,201 | 168,504 | 400,272 | 231,768 |
| | 1899 | 10 | 78 | [3] 56,000 | [3] 67,000 | [3] 155,000 | [3] 88,000 |
| Machine shops | 1939 | 7 | 10 | 20,250 | 44,951 | 112,702 | 67,751 |
| Printing and publishing | 1939 | 15 | 109 | 129,701 | 81,916 | 415,877 | 333,961 |
| | 1909 | 16 | 64 | 100,403 | 36,392 | 228,192 | 191,800 |
| All other industries | 1939 | [4] 12 | 40 | 48,473 | 187,089 | 383,104 | 196,015 |
| | 1919 | 21 | 268 | 375,501 | 635,468 | 1,384,065 | 748,597 |
| | 1909 | 54 | 155 | 237,495 | 787,385 | 1,370,219 | 582,834 |
| | 1899 | 2 | 90 | [3] 76,000 | [3] 108,000 | [3] 218,000 | [3] 110,000 |

[1] Value of products less cost of materials, etc., fuel, and purchased electric energy.
[2] Figures for 1939 cover the 12-month period ended Sept. 30, 1939.
[3] Exact figures not available.
[4] Beverages, nonalcoholic, 1 establishment; concrete products, 2; confectionery, 1; ice cream, 2; liquors, malt, 2; sheet-metal work, 2; wire netting, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce; Bureau of the Census; reports of Census of Manufactures, 1939.

## No. 994.—Hawaii—Manufactures, by Industries: 1899 to 1939

[See headnote, table 993]

| INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy, contract work | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| **All industries, total** | 1939 | 474 | 17,002 | 11,458,311 | 75,651,675 | 134,005,264 | 58,353,589 |
| | [2] 1919 | 496 | 9,969 | 6,636,763 | 81,178,956 | 133,096,412 | 51,917,456 |
| | [2] 1909 | 500 | 5,904 | 2,108,903 | 25,817,734 | 47,403,880 | 21,586,146 |
| | [2] 1899 | 222 | 3,655 | 1,473,000 | 12,251,000 | 23,354,000 | 11,103,000 |
| Food and kindred products: [3] | | | | | | | |
| Bread and other bakery products | 1939 | 76 | 534 | 413,558 | 1,625,458 | 2,949,064 | 1,323,606 |
| | 1919 | 30 | 195 | 87,958 | 826,838 | 1,129,294 | 302,456 |
| | 1909 | 46 | 107 | 35,560 | 219,575 | 343,520 | 123,945 |
| | 1899 | 8 | 4 | 1,000 | 5,000 | 10,000 | 5,000 |
| Beverages, alcoholic (distilled liquors, malt liquors, sake, and wines) [4] | 1939 | [5] 9 | 254 | 249,569 | 705,194 | 2,118,907 | 1,413,713 |
| Beverages, nonalcoholic | 1939 | 27 | 121 | 97,355 | 356,302 | 816,235 | 459,933 |
| | 1919 | 32 | 157 | 88,534 | 251,763 | 518,569 | 266,806 |
| | 1909 | 22 | 83 | 35,391 | 74,312 | 194,273 | 119,961 |
| | 1899 | 7 | 35 | 11,000 | 25,000 | 89,000 | 64,000 |

For footnotes see p. 893.

## No. 994.—Hawaii—Manufactures, by Industries: 1899 to 1939—Continued

| Industry | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy, contract work | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| Food and kindred products—Con. | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| Cane sugar [6] | 1939 | 35 | 4,371 | 2,894,420 | 30,482,432 | 49,250,987 | 18,768,555 |
| | 1919 | 43 | 8,143 | 2,027,128 | 45,899,268 | 80,236,244 | 34,336,976 |
| | 1909 | 46 | 2,517 | 781,280 | 18,721,621 | 35,949,822 | 17,228,201 |
| | 1899 | 44 | 2,369 | 748,000 | 9,778,000 | 19,255,000 | 9,477,000 |
| Coffee deparchmentizing | 1939 | 9 | 39 | 19,555 | 401,422 | 464,321 | 62,899 |
| | 1919 | 10 | 39 | 20,516 | 875,463 | 1,050,752 | 175,289 |
| | 1909 | 5 | 71 | 12,100 | 250,705 | 297,263 | 46,558 |
| | 1899 | 6 | 47 | 9,000 | 60,000 | 95,000 | 35,000 |
| Confectionery | 1939 | 9 | 25 | 17,891 | 56,176 | 98,354 | 42,178 |
| | [7] 1919 | 20 | 102 | 51,279 | 393,147 | 587,330 | 194,183 |
| | 1909 | 6 | 21 | 6,330 | 23,574 | 43,162 | 19,588 |
| Fruit canning and preserving | 1939 | 18 | 7,949 | 4,577,867 | 24,549,416 | 48,692,282 | 24,142,866 |
| | 1919 | 9 | 2,855 | 1,391,522 | 10,772,745 | 18,997,975 | 8,225,230 |
| | 1909 | 10 | 816 | 174,502 | 926,591 | 1,591,073 | 664,482 |
| Canned pineapple and pineapple juice. | 1939 | 9 | 7,900 | 4,552,667 | 24,462,105 | 48,540,806 | 24,078,701 |
| Jellies, preserves, etc | 1939 | 9 | 49 | 25,200 | 87,311 | 151,476 | 64,165 |
| Ice cream | 1939 | 10 | 111 | 89,004 | 598,154 | 1,262,777 | 664,623 |
| Ice, manufactured | 1939 | 6 | 66 | 85,797 | 42,940 | 228,642 | 185,702 |
| | 1909 | 5 | 40 | 23,963 | 21,386 | 107,111 | 85,725 |
| | 1899 | 4 | 19 | 12,000 | 16,000 | 57,000 | 41,000 |
| Macaroni and noodles | 1939 | 8 | 26 | 16,499 | 40,503 | 86,067 | 45,564 |
| | 1919 | 4 | 17 | 8,936 | 76,517 | 97,799 | 21,282 |
| Native foods | 1939 | 56 | 121 | 64,080 | 331,861 | 599,010 | 267,149 |
| Fish cakes | 1939 | 4 | 26 | 18,967 | 67,921 | 110,005 | 42,084 |
| Poi | 1939 | 34 | 86 | 39,283 | 173,283 | 343,561 | 170,278 |
| Sugar and rice cakes | 1939 | 8 | 4 | 2,184 | 68,725 | 105,136 | 36,411 |
| Tofu | 1939 | 10 | 5 | 3,646 | 21,932 | 40,308 | 18,376 |
| Pickled fruits and vegetables; vegetable sauces. | 1939 | 6 | 4 | 1,337 | 16,390 | 38,224 | 21,834 |
| | 1919 | 3 | 4 | 1,447 | 22,816 | 34,481 | 11,665 |
| | 1909 | 6 | 13 | 2,522 | 17,133 | 33,572 | 16,439 |
| Potato chips; taro chips | 1939 | 6 | 17 | 9,433 | 23,621 | 45,372 | 21,751 |
| Chemicals and fertilizers | 1939 | 6 | 189 | 180,984 | 1,525,294 | 2,160,108 | 634,814 |
| Clothing, men's (including shirts) and women's. | 1939 | 16 | 303 | 149,125 | 479,079 | 777,089 | 298,010 |
| | 1919 | 15 | 26 | 11,868 | 37,960 | 79,402 | 41,442 |
| | 1909 | 4 | 3 | 600 | 3,985 | 7,630 | 3,645 |
| Concrete products; stone products; lime; pottery. [4] | 1939 | [8] 7 | 122 | 107,366 | 440,146 | 810,871 | 370,725 |
| Footwear | 1939 | 6 | 34 | 17,899 | 55,178 | 88,929 | 33,751 |
| | 1919 | 12 | 23 | 12,513 | 33,622 | 64,419 | 30,797 |
| | 1909 | 14 | 81 | 17,159 | 78,120 | 126,475 | 48,355 |
| | 1899 | 14 | 39 | 11,000 | 20,000 | 47,000 | 27,000 |
| Furniture | 1939 | 12 | 71 | 66,348 | 97,951 | 243,247 | 145,296 |
| | 1919 | 5 | 10 | 9,345 | 8,523 | 29,169 | 20,646 |
| | 1909 | 6 | 54 | 14,741 | 38,663 | 69,752 | 31,089 |
| Furniture, household (except upholstered). | 1939 | 4 | 9 | 7,264 | 6,876 | 23,036 | 16,160 |
| Furniture, upholstered | 1939 | 4 | 34 | 28,088 | 54,629 | 128,458 | 73,829 |
| Furniture and fixtures, office and store. | 1939 | 4 | 29 | 30,996 | 36,446 | 91,753 | 55,307 |
| Iron castings; steel products; machine-shop products. [4] | 1939 | [9] 7 | 95 | 117,839 | 148,708 | 358,163 | 209,455 |
| Jewelry; silverware; electroplating [4] | 1939 | [10] 8 | 28 | 29,447 | 21,757 | 106,419 | 84,662 |
| | 1919 | 6 | 36 | 26,414 | 46,432 | 107,963 | 61,531 |
| | 1909 | 6 | 54 | 24,143 | 51,006 | 111,335 | 60,329 |
| Mattresses and bed springs | 1939 | 5 | 18 | 11,610 | 56,677 | 94,605 | 37,928 |
| | 1919 | 5 | 15 | 11,844 | 30,389 | 54,035 | 23,646 |
| | 1909 | 6 | 21 | 7,511 | 16,137 | 37,908 | 21,771 |
| Picture frames; Venetian blinds [4] | 1939 | [11] 4 | 36 | 31,722 | 82,572 | 155,984 | 73,412 |
| Planing-mill products [12] | 1939 | 10 | 161 | 181,556 | 462,558 | 824,498 | 361,940 |
| | 1919 | 8 | 135 | 118,717 | 422,916 | 612,906 | 189,990 |
| | 1909 | 8 | 254 | 109,647 | 97,459 | 281,325 | 183,866 |
| | 1899 | 3 | 35 | 22,000 | 42,000 | 91,000 | 49,000 |
| Printing, publishing, and allied activities. | 1939 | 56 | 783 | 880,421 | 963,976 | 4,147,337 | 3,183,361 |
| | 1919 | 49 | 576 | 407,055 | 377,109 | 1,338,955 | 961,846 |
| | 1909 | 37 | 319 | 146,830 | 102,442 | 434,779 | 332,337 |
| | 1899 | 10 | 132 | 22,000 | 33,000 | 200,000 | 167,000 |
| Newspaper publishing and printing, or publishing only. | 1939 | 25 | 573 | 636,178 | 570,920 | 2,928,138 | 2,357,218 |

For footnotes, see p. 893.

No. 994.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

| INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy, contract work | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| Printing, publishing, and allied activities—Con. | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| Periodical publishing and printing, or publishing only | 1939 | 6 | 8 | 5,293 | 19,001 | 42,073 | 23,072 |
| Book publishing and printing or publishing only; job printing; lithographing; photoengraving [4] | 1939 | [13] 25 | 203 | 238,950 | 374,055 | 1,177,126 | 803,071 |
| Signs, neon | 1939 | 3 | 7 | 8,492 | 19,528 | 45,766 | 26,238 |
| Soap | 1939 | 3 | 3 | 1,639 | 8,592 | 20,347 | 11,755 |
| Wood products, not elsewhere classified | 1939 | 8 | 95 | 50,826 | 37,365 | 108,576 | 71,211 |
| All other industries | 1939 | [14] 48 | 1,422 | 1,086,672 | 12,022,425 | 17,413,083 | 5,390,658 |
| | 1919 | 245 | 2,636 | 2,361,687 | 21,103,448 | 28,157,119 | 7,053,671 |
| | 1909 | 273 | 1,450 | 716,624 | 5,175,025 | 7,774,880 | 2,599,855 |
| | 1899 | 126 | 975 | 637,000 | 2,272,000 | 3,510,000 | 1,238,000 |

[1] Value of products less cost of materials, etc., fuel, purchased electric energy, and contract work.
[2] Figures include data for coffee roasting and spice grinding which are no longer treated as manufacturing activities.
[3] Except butter and cheese, canned tuna, rice cleaning and polishing, meat packing and sausage manufacturing, and vegetable oils and sirups. See note 14.
[4] Combined to avoid disclosing, exactly or approximately, data for individual establishments or companies.
[5] Distilled liquors, 1 establishment; malt liquors, 2; sake, 5; wines, 1.
[6] Figures for this industry relate solely to sugar mills, and do not include data for sugarcane plantations.
[7] Reported as confectionery and ice cream.
[8] Concrete products, 2 establishments; stone products, 2; lime, 2; pottery, 1.
[9] Iron castings, 1 establishment; steel products, 4; machine-shop products, 2.
[10] Jewelry, 6 establishments; silverware, 1; electroplating, 1.
[11] Picture frames, 1 establishment; Venetian blinds, 3.
[12] Products of planing mills not operated in conjunction with sawmills.
[13] Book publishing and printing, or publishing only, 2 establishments; job printing, 21; lithographing, 1; photoengraving, 1.
[14] Boat building and repairing, 5 establishments; brooms, 2; butter and cheese, 3; canned tuna, 3; caskets, 1; cushions, pillows, and quilts, 1; drugs, medicines, perfumes, 3; insulation board, 1; lighting fixtures, 1; machinery, farm, 1; machinery, sugar-mill, 1; mats, 1; meat packing, sausage manufacturing, 6; paper goods, 5; prepared feeds, 1; rice cleaning and polishing, 2; skirts, hula, 1; suitcases and trunks, 1; tin cans, 7; vegetable oils and sirups, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; reports of Census of Manufactures, 1939.

## No. 995.—Puerto Rico—Manufactures, by Industries: 1909 to 1939

[See headnote, table 993]

| INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy, contract work | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| **All industries, total** | 1939 | 798 | 23,484 | 9,220,251 | 76,280,773 | 111,499,641 | 35,218,868 |
| | [2] 1919 | 619 | 15,985 | 6,765,604 | 59,985,058 | 85,506,834 | 25,521,776 |
| | [2] 1909 | 939 | 15,582 | 3,639,196 | 21,500,618 | 36,749,742 | 15,249,124 |
| Food and kindred products: [3] | | | | | | | |
| Bread and other bakery products. | 1939 | 219 | 1,470 | 530,573 | 1,853,111 | 3,067,773 | 1,214,662 |
| | 1919 | 152 | 880 | 514,140 | 3,426,050 | 4,761,192 | 1,335,142 |
| | 1909 | 258 | 1,197 | 366,107 | 1,173,745 | 1,729,886 | 556,141 |
| Bread and other bakery products, except crackers. | 1939 | 212 | 1,143 | 460,129 | 1,614,952 | 2,636,533 | 1,021,581 |
| Crackers | 1939 | 7 | 327 | 70,444 | 238,159 | 431,240 | 193,081 |
| Beverages, nonalcoholic | 1939 | 10 | 93 | 30,702 | 145,466 | 277,014 | 131,548 |
| | 1919 | 11 | 56 | 20,739 | 49,647 | 134,402 | 84,755 |
| Candy; chocolate and cocoa | 1939 | 6 | 42 | 10,620 | 79,546 | 108,559 | 29,013 |
| | 1909 | 4 | 12 | 3,086 | 26,814 | 39,969 | 13,155 |
| Cane sugar—except refineries [4] | 1939 | 40 | 7,765 | 4,501,813 | 38,880,800 | 55,377,402 | 16,496,602 |
| | 1919 | 55 | 7,490 | 2,832,022 | 40,139,359 | 56,411,932 | 16,272,573 |
| | 1909 | 108 | 5,062 | 1,227,585 | 12,280,994 | 20,569,348 | 8,288,354 |
| Cane-sugar refining [4] | 1939 | 4 | 1,893 | 239,313 | 10,340,938 | 12,510,477 | 2,169,539 |
| Canned fruits and vegetables | 1939 | 5 | 304 | 35,432 | 135,375 | 239,149 | 103,774 |
| | 1909 | 4 | 48 | 4,831 | 26,930 | 38,003 | 11,073 |
| Cheese | 1939 | 3 | 9 | 3,020 | 36,795 | 48,958 | 12,163 |
| Corn meal | 1939 | 4 | 8 | 2,180 | 21,991 | 30,241 | 8,250 |
| | 1919 | 10 | 11 | 5,085 | 84,558 | 115,916 | 31,358 |
| | 1909 | ------- | 4 | 597 | 9,017 | 12,401 | 3,384 |
| Ice cream and ices | 1939 | 6 | 27 | 11,960 | 43,584 | 70,927 | 27,343 |
| Ice, manufactured | 1939 | 25 | 285 | 107,939 | 118,697 | 500,765 | 382,068 |
| | 1919 | 13 | 86 | 35,882 | 86,112 | 248,889 | 162,777 |
| | 1909 | 6 | 38 | 9,965 | 29,427 | 99,927 | 70,500 |
| Liquors, distilled | 1939 | 9 | 340 | 152,695 | 930,927 | 1,918,934 | 988,007 |
| | 1909 | 14 | 58 | 15,871 | 144,129 | 1,117,084 | 972,955 |
| Liquors, rectified or blended | 1939 | 28 | 316 | 89,754 | 1,550,465 | 2,198,363 | 647,898 |
| Vermicelli, soup paste, and noodles. | 1939 | 8 | 154 | 69,156 | 249,382 | 420,844 | 171,462 |
| Wines | 1939 | 4 | 43 | 8,026 | 25,932 | 46,137 | 20,205 |
| Caskets | 1939 | 6 | 8 | 2,568 | 6,439 | 16,735 | 10,296 |
| Drugs and medicines | 1939 | 13 | 64 | 19,025 | 91,771 | 180,504 | 88,733 |
| | 1919 | 10 | 20 | 7,333 | 116,479 | 193,181 | 76,702 |
| Fertilizers | 1939 | 8 | 235 | 107,792 | 3,163,761 | 3,863,043 | 699,282 |
| Furniture and showcases | 1939 | [5] 45 | 687 | 171,549 | 379,336 | 744,202 | 364,866 |
| Leather and leather goods | 1939 | [6] 12 | 53 | 15,890 | 54,899 | 98,930 | 44,031 |
| | 1919 | 31 | 140 | 67,555 | 185,878 | 326,595 | 140,717 |
| | 1909 | 66 | 358 | 72,539 | 191,229 | 370,463 | 179,234 |
| Lime | 1939 | 8 | 90 | 27,203 | 62,407 | 150,777 | 88,370 |
| | 1919 | 19 | 62 | 19,074 | 21,159 | 58,014 | 36,855 |
| | 1909 | 12 | 28 | 2,842 | 7,812 | 14,149 | 6,337 |
| Machinery | 1939 | 6 | 475 | 271,972 | 488,548 | 1,146,696 | 658,148 |

For footnotes, see p. 895.

No. 995.—PUERTO RICO—MANUFACTURES, BY INDUSTRIES: 1909 TO 1939—Continued

| INDUSTRY | Census year | Number of establishments | Wage earners (average for the year) | Wages | Cost of materials, etc., fuel, electric energy, contract work | Value of products | Value added by manufacture [1] |
|---|---|---|---|---|---|---|---|
| | | | | *Dollars* | *Dollars* | *Dollars* | *Dollars* |
| Metal products | 1939 | [7] 11 | 144 | 63,735 | 53,890 | 170,237 | 116,347 |
| | [8] 1919 | 5 | 271 | 192,610 | 388,077 | 749,268 | 361,191 |
| | [8] 1909 | 6 | 188 | 63,556 | 57,634 | 178,210 | 120,576 |
| Needlework industries | 1939 | 136 | 6,378 | 1,575,814 | [9] 13,323,273 | [10] 20,778,267 | [11] 7,454,994 |
| Perfumes, cosmetics, and other toilet preparations. | 1939 | 13 | 74 | 19,690 | 141,850 | 234,978 | 93,128 |
| Planing-mill products [12] | 1939 | 12 | 110 | 55,131 | 129,285 | 258,390 | 129,105 |
| | 1909 | 8 | 123 | 39,996 | 178,418 | 268,719 | 90,301 |
| Printing, publishing, and allied activities. | 1939 | 59 | 654 | 329,217 | 559,860 | 1,606,975 | 1,047,115 |
| | 1919 | 35 | 311 | 187,100 | 260,638 | 671,587 | 410,949 |
| | 1909 | 43 | 353 | 97,720 | 146,772 | 370,559 | 223,787 |
| Newspapers | 1939 | 12 | 201 | 119,676 | 250,669 | 840,978 | 590,309 |
| Periodicals | 1939 | 5 | 50 | 35,121 | 51,626 | 131,252 | 79,626 |
| Books; job printing; photoengraving. | 1939 | [13] 42 | 402 | 174,420 | 257,565 | 634,745 | 377,180 |
| Stone and clay products | 1939 | 15 | 164 | 62,045 | 95,168 | 254,623 | 159,455 |
| | 1919 | 8 | 21 | 6,771 | 5,242 | 30,063 | 24,821 |
| Floor and wall tiles (except quarry). | 1939 | 9 | 117 | 45,742 | 58,898 | 132,365 | 73,467 |
| Brick and hollow structural tile; sewer pipe; other concrete and stone products. | 1939 | [14] 6 | 47 | 16,303 | 36,270 | 122,258 | 85,988 |
| Textile products and other fibre manufactures. | 1939 | [15] 10 | 308 | 161,591 | 290,116 | 571,023 | 280,907 |
| Tobacco products | 1939 | 47 | 445 | 123,615 | 451,554 | 740,694 | 289,140 |
| | 1919 | 183 | 5,098 | 2,267,204 | 3,039,541 | 8,134,534 | 5,094,993 |
| | 1909 | 282 | 7,025 | 1,479,567 | 2,059,315 | 6,060,393 | 4,001,078 |
| Cigars and cigarettes | 1939 | 42 | 415 | 119,706 | 435,681 | 713,484 | 277,803 |
| Tobacco, chewing and smoking | 1939 | 5 | 30 | 3,909 | 15,873 | 27,210 | 11,337 |
| Other industries | 1939 | [16] 26 | 847 | 420,231 | 2,575,607 | 3,868,024 | 1,292,417 |
| | 1919 | 87 | 1,539 | 610,089 | 12,182,318 | 13,671,261 | 1,488,943 |
| | 1909 | 123 | 1,088 | 254,934 | 5,168,382 | 5,880,631 | 712,249 |

[1] Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work.
[2] Figures include data for coffee cleaning and polishing, which is now treated as an agricultural activity and therefore was not covered by the 1939 Census of Manufactures.
[3] Except "Liquors, malt," and "Foods, miscellaneous." See footnote 16.
[4] The figures for this industry do not include data for sugar-cane plantations.
[5] Household furniture, 40 establishments; mattresses, 2; office furniture, 1; show cases, 2.
[6] Footwear, except rubber, 9 establishments; leather, tan, 1; saddlery, 1; other goods, 1.
[7] Aluminum products, 1 establishment; ornamental ironwork, 3; sheet-metal work, 3; tin cans, 3; watch parts, 1.
[8] Reported as "Foundry and machine-shop products."
[9] Estimated in part by use of ratios derived from reports made for corresponding classes of establishments operated in the United States.
[10] As part of the establishments engaged in contract work reported receipts for work done on materials owned by others, and part reported actual values of goods made, all returns have been converted to estimated value of products.
[11] This figure is inflated to the extent to which it includes amounts paid for outside work.
[12] Products of planing mills not reported in conjunction with sawmills.
[13] Books, 1 establishment; job printing, 40; photoengraving, 1.
[14] Brick and hollow structural tile, 2 establishments; sewer pipe, 1; other concrete and stone products, 3.
[15] Awnings, 1 establishment; hats, felt and linen, 2; hats, straw, 4; hosiery, full-fashioned, 1; rugs, string, 1; rugs, wool, 1.
[16] Bus bodies, 1 establishment; buttons, pearl, 2; compressed and liquefied gases, 2; cottonseed oil and meal, 1; diamond cutting, 1; foods, miscellaneous, 5; liquors, malt, 2; matches, 1; novelties, mahogany, 1; oxcarts and truck bodies, 1; paperboard containers, 1; salt, 1; signs, neon, 1; soap, 2; tires, retreading, 1; trunks, 3.

Source: Department of Commerce, Bureau of the Census; reports of Census of Manufactures, 1939.

## No. 996.—Patent Applications and Patents and Certificates of Registration Issued Since Initiation of the Patent System: 1836 to 1947

[Number of patents granted prior to July 28, 1836, was 9,957. Data include patents issued to citizens of United States and residents of foreign countries]

| Calendar year or period | Patent applications [1] | Patents issued | | | | | Certificates of registration issued | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | Patents | Plant patents | Designs | Reissues | Total | Trade-marks | Trade-mark renewals | Labels | Prints |
| 1836–1850 [2] | [3] 14,062 | 8,387 | 7,864 | ------- | [4] 340 | [5] 183 | ------- | ------- | ------- | ------- | ------- |
| 1851–1860 | 44,302 | 25,087 | 23,140 | ------- | 1,025 | 922 | ------- | ------- | ------- | ------- | ------- |
| 1861–1870 | 128,763 | 85,910 | 79,612 | ------- | 3,181 | 3,117 | [6] 121 | [6] 121 | ------- | ------- | ------- |
| 1871–1880 | 206,436 | 138,355 | 125,520 | ------- | 7,535 | 5,300 | 10,395 | 8,017 | ------- | [7] 2,378 | ------- |
| 1881–1890 | 352,475 | 217,821 | 207,850 | ------- | 8,357 | 1,614 | 14,660 | 10,636 | ------- | 4,024 | ------- |
| 1891–1900 | 410,049 | 234,956 | 220,840 | ------- | 13,374 | 742 | 18,794 | 16,903 | ------- | [8] 1,606 | [9] 285 |
| 1901–1905 | 253,417 | 148,291 | 143,791 | ------- | 3,953 | 547 | 18,590 | 12,768 | ------- | 4,579 | 1,243 |
| 1906–1910 | 307,187 | 175,618 | 171,560 | ------- | 3,297 | 761 | 36,375 | 32,060 | ------- | 2,856 | 1,459 |
| 1911–1915 | 350,937 | 194,387 | 186,241 | ------- | 7,295 | 851 | 32,381 | 27,369 | ------- | 3,522 | 1,490 |
| 1916–1920 | 368,737 | 207,108 | 197,644 | ------- | 8,486 | 978 | 35,364 | 30,681 | ------- | 3,411 | 1,272 |
| 1921–1925 | 427,127 | 217,525 | 203,977 | ------- | 12,326 | 1,222 | 81,566 | 68,881 | [10] 2,278 | 7,361 | 3,046 |
| 1926–1930 | 459,904 | 234,857 | 219,384 | ------- | 13,796 | 1,677 | 96,729 | 71,469 | 12,067 | 8,736 | 4,457 |
| 1931–1935 | 342,861 | 256,219 | 239,092 | 161 | 15,079 | 1,887 | 72,783 | 52,432 | 9,282 | 8,466 | 2,603 |
| 1936–1940 | 359,544 | 229,514 | 200,902 | 275 | 26,458 | 1,879 | 71,786 | 52,709 | 8,409 | 8,128 | 2,540 |
| 1909 | 65,839 | 37,421 | 36,574 | ------- | 687 | 160 | 4,824 | 4,184 | ------- | 492 | 148 |
| 1910 | 64,629 | 35,930 | 35,168 | ------- | 639 | 123 | 4,729 | 4,239 | ------- | 370 | 120 |
| 1911 | 69,121 | 34,084 | 32,917 | ------- | 1,010 | 157 | 5,112 | 4,205 | ------- | 659 | 248 |
| 1912 | 70,976 | 37,731 | 36,231 | ------- | 1,342 | 158 | 5,896 | 5,020 | ------- | 633 | 243 |
| 1913 | 70,367 | 35,788 | 33,941 | ------- | 1,683 | 164 | 6,063 | 5,065 | ------- | 708 | 290 |
| 1914 | 70,404 | 41,850 | 39,945 | ------- | 1,715 | 190 | 7,874 | 6,817 | ------- | 719 | 338 |
| 1915 | 70,069 | 44,934 | 43,207 | ------- | 1,545 | 182 | 7,436 | 6,262 | ------- | 803 | 371 |
| 1916 | 71,033 | 45,927 | 43,970 | ------- | 1,759 | 198 | 8,087 | 6,791 | ------- | 864 | 432 |
| 1917 | 70,373 | 42,760 | 41,069 | ------- | 1,512 | 179 | 6,197 | 5,339 | ------- | 613 | 245 |
| 1918 | 59,800 | 39,941 | 38,569 | ------- | 1,207 | 165 | 4,912 | 4,061 | ------- | 654 | 197 |
| 1919 | 80,638 | 38,598 | 36,872 | ------- | 1,523 | 203 | 4,874 | 4,208 | ------- | 520 | 146 |
| 1920 | 86,893 | 39,882 | 37,164 | ------- | 2,485 | 233 | 11,294 | 10,282 | ------- | 760 | 252 |
| 1921 | 93,395 | 41,401 | 37,885 | ------- | 3,277 | 239 | 13,605 | 11,654 | ------- | 1,485 | 466 |
| 1922 | 89,028 | 40,297 | 38,414 | ------- | 1,627 | 256 | 14,992 | 12,793 | ------- | 1,612 | 587 |
| 1923 | 79,189 | 40,787 | 38,634 | ------- | 1,927 | 226 | 16,725 | 14,845 | ------- | 1,261 | 619 |
| 1924 | 80,888 | 45,500 | 42,594 | ------- | 2,671 | 235 | 17,562 | 15,749 | ------- | 1,278 | 535 |
| 1925 | 84,627 | 49,540 | 46,450 | ------- | 2,824 | 266 | 18,682 | 13,840 | 2,278 | 1,725 | 839 |
| 1926 | 86,116 | 47,627 | 44,750 | ------- | 2,602 | 275 | 21,819 | 14,964 | 4,282 | 1,686 | 887 |
| 1927 | 92,122 | 44,444 | 41,731 | ------- | 2,387 | 326 | 20,548 | 14,586 | 3,063 | 1,807 | 1,092 |
| 1928 | 92,725 | 45,899 | 42,376 | ------- | 3,188 | 335 | 19,084 | 14,142 | 2,049 | 1,921 | 972 |
| 1929 | 94,738 | 48,565 | 45,284 | ------- | 2,907 | 374 | 18,087 | 14,526 | 1,008 | 1,711 | 842 |
| 1930 | 94,203 | 48,322 | 45,243 | ------- | 2,712 | 367 | 17,191 | 13,251 | 1,665 | 1,611 | 664 |
| 1931 | 84,423 | 55,103 | 51,766 | 5 | 2,937 | 395 | 15,328 | 11,407 | 1,643 | 1,683 | 595 |
| 1932 | 71,864 | 56,856 | 53,473 | 46 | 2,944 | 393 | 13,196 | 9,613 | 1,687 | 1,443 | 453 |
| 1933 | 60,633 | 51,563 | 48,786 | 33 | 2,411 | 333 | 12,758 | 9,140 | 1,665 | 1,470 | 483 |
| 1934 | 61,572 | 47,753 | 44,429 | 32 | 2,921 | 371 | 16,063 | 11,375 | 2,407 | 1,786 | 495 |
| 1935 | 64,369 | 44,944 | 40,638 | 45 | 3,866 | 395 | 15,438 | 10,897 | 1,880 | 2,084 | 577 |
| 1936 | 69,585 | 44,820 | 39,793 | 49 | 4,556 | 422 | 14,804 | 10,732 | 1,886 | 1,740 | 446 |
| 1937 | 72,984 | 43,271 | 37,695 | 55 | 5,137 | 384 | 15,276 | 11,254 | 1,524 | 1,850 | 648 |
| 1938 | 75,429 | 43,493 | 38,076 | 41 | 5,027 | 349 | 13,564 | 10,212 | 1,051 | 1,762 | 539 |
| 1939 | 71,689 | 49,080 | 43,090 | 45 | 5,593 | 352 | 14,337 | 10,526 | 1,399 | 1,807 | 605 |
| 1940 | 69,857 | 48,850 | 42,248 | 35 | 6,145 | 372 | 13,805 | 9,985 | 2,549 | [11] 969 | [11] 302 |
| 1941 | 59,901 | 47,978 | 41,121 | 62 | 6,486 | 309 | 11,299 | 8,534 | 2,765 | (11) | (11) |
| 1942 | 50,057 | 42,510 | 38,467 | 65 | 3,728 | 250 | 9,691 | 6,797 | 2,894 | (11) | (11) |
| 1943 | 48,724 | 33,523 | 31,074 | 47 | 2,229 | 173 | 9,432 | 5,596 | 3,836 | (11) | (11) |
| 1944 | 59,472 | 31,197 | 28,073 | 38 | 2,916 | 170 | 10,079 | 6,027 | 4,052 | (11) | (11) |
| 1945 | 76,119 | 29,364 | 25,702 | 17 | 3,524 | 121 | 11,703 | 7,493 | 4,210 | (11) | (11) |
| 1946 | 91,972 | 24,775 | 21,819 | 56 | 2,779 | 121 | 13,841 | 8,116 | 5,725 | (11) | (11) |
| 1947 | 83,313 | 22,423 | 20,139 | 52 | 2,102 | 130 | [12] 15,115 | 8,975 | 6,140 | (11) | (11) |

[1] Figures include patents for inventions, designs, and reissues of patents. Includes applications without fees.
[2] Data are for period from July 28, 1836, to Dec. 31, 1850, except as otherwise specified.
[3] Data are for 11 years beginning 1840; records prior to this date are not available.
[4] Data are for 8 years beginning 1843. [5] Data are for 13 years beginning 1838.
[6] Data are for the year 1870. [7] Data are for 7 years beginning 1874.
[8] Registration of labels suspended from May 27, 1891, to June 9, 1896.
[9] Data are for 8 years; first print registered Mar. 7, 1893. [10] Data are for the year 1925.
[11] Figures for 1940 are for the six-months period ended June 30, 1940. On July 1, 1940, jurisdiction of prints and labels was transferred to the Copyright Office, Library of Congress, and data concerning them are compiled by that organization. (See table 999.)
[12] Excludes 150 trade-mark republications (under Trade-Mark Act of 1946) of trade-marks registered under prior acts.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere). Fiscal year figures published in Annual Report of the Secretary.

o. 997.—PATENTS ISSUED TO CITIZENS OF THE UNITED STATES: 1938 TO 1947

| STATE OR OTHER AREA | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Total** | 37,352 | 42,372 | 42,319 | 42,345 | 38,299 | 30,704 | 28,441 | 27,124 | 22,982 | 20,676 |
| Alabama | 104 | 126 | 107 | 98 | 86 | 55 | 80 | 116 | 63 | 63 |
| Arizona | 43 | 62 | 46 | 50 | 34 | 40 | 30 | 29 | 30 | 23 |
| Arkansas | 46 | 67 | 45 | 57 | 50 | 33 | 33 | 25 | 32 | 34 |
| California | 2,448 | 2,933 | 2,911 | 2,915 | 2,780 | 2,326 | 2,108 | 2,223 | 2,042 | 1,719 |
| Colorado | 185 | 204 | 215 | 235 | 167 | 134 | 139 | 108 | 85 | 106 |
| Connecticut | 1,062 | 1,325 | 1,325 | 1,289 | 1,292 | 1,114 | 987 | 916 | 728 | 738 |
| Delaware | 298 | 325 | 333 | 315 | 339 | 297 | 279 | 300 | 314 | 213 |
| Florida | 230 | 221 | 256 | 241 | 255 | 171 | 181 | 148 | 127 | 134 |
| Georgia | 130 | 147 | 139 | 151 | 175 | 156 | 108 | 89 | 82 | 66 |
| Idaho | 31 | 37 | 44 | 67 | 43 | 35 | 26 | 16 | 27 | 15 |
| Illinois | 4,023 | 4,617 | 4,591 | 4,554 | 4,116 | 3,393 | 3,128 | 2,871 | 2,325 | 2,074 |
| Indiana | 985 | 1,100 | 1,063 | 1,005 | 997 | 839 | 742 | 643 | 562 | 513 |
| Iowa | 296 | 384 | 377 | 338 | 281 | 259 | 183 | 183 | 159 | 109 |
| Kansas | 178 | 203 | 218 | 216 | 171 | 132 | 121 | 106 | 92 | 86 |
| Kentucky | 160 | 172 | 167 | 174 | 148 | 108 | 115 | 103 | 80 | 72 |
| Louisiana | 121 | 152 | 181 | 135 | 135 | 106 | 131 | 92 | 95 | 99 |
| Maine | 68 | 84 | 84 | 76 | 59 | 69 | 50 | 59 | 58 | 50 |
| Maryland | 433 | 455 | 432 | 465 | 384 | 337 | 365 | 340 | 310 | 306 |
| Massachusetts | 1,817 | 2,009 | 2,046 | 2,080 | 1,827 | 1,506 | 1,378 | 1,259 | 1,106 | 1,046 |
| Michigan | 2,153 | 2,590 | 2,556 | 2,492 | 2,327 | 1,876 | 1,697 | 1,607 | 1,189 | 1,085 |
| Minnesota | 508 | 580 | 652 | 664 | 570 | 468 | 451 | 368 | 265 | 270 |
| Mississippi | 35 | 41 | 57 | 37 | 40 | 37 | 35 | 27 | 20 | 19 |
| Missouri | 768 | 750 | 825 | 933 | 770 | 640 | 538 | 518 | 356 | 332 |
| Montana | 63 | 57 | 61 | 51 | 43 | 24 | 32 | 25 | 19 | 28 |
| Nebraska | 137 | 136 | 103 | 109 | 74 | 66 | 56 | 44 | 47 | 28 |
| Nevada | 13 | 17 | 12 | 14 | 12 | 14 | 17 | 13 | 11 | 10 |
| New Hampshire | 140 | 137 | 97 | 101 | 107 | 81 | 73 | 67 | 45 | 56 |
| New Jersey | 2,862 | 3,300 | 3,143 | 3,322 | 3,202 | 2,563 | 2,409 | 2,427 | 2,218 | 2,063 |
| New Mexico | 29 | 43 | 36 | 37 | 33 | 25 | 45 | 17 | 45 | 30 |
| New York | 7,878 | 8,783 | 9,144 | 9,305 | 7,377 | 5,506 | 5,180 | 4,882 | 4,382 | 3,690 |
| North Carolina | 158 | 155 | 164 | 164 | 140 | 109 | 103 | 106 | 77 | 79 |
| North Dakota | 22 | 27 | 28 | 31 | 31 | 74 | 8 | 16 | 10 | 38 |
| Ohio | 3,009 | 3,593 | 3,484 | 3,344 | 3,270 | 2,592 | 2,440 | 2,362 | 1,864 | 1,623 |
| Oklahoma | 283 | 349 | 359 | 324 | 333 | 274 | 263 | 330 | 201 | 208 |
| Oregon | 184 | 191 | 195 | 211 | 189 | 132 | 134 | 132 | 120 | 94 |
| Pennsylvania | 3,154 | 3,308 | 3,143 | 3,156 | 3,039 | 2,313 | 2,127 | 2,050 | 1,701 | 1,488 |
| Rhode Island | 360 | 311 | 328 | 370 | 334 | 258 | 220 | 338 | 249 | 293 |
| South Carolina | 49 | 58 | 70 | 56 | 54 | 50 | 37 | 44 | 29 | 23 |
| South Dakota | 33 | 39 | 46 | 31 | 23 | 17 | 24 | 12 | 13 | 12 |
| Tennessee | 190 | 300 | 191 | 194 | 168 | 138 | 137 | 109 | 97 | 120 |
| Texas | 632 | 727 | 860 | 765 | 722 | 602 | 522 | 485 | 414 | 371 |
| Utah | 47 | 49 | 53 | 76 | 39 | 43 | 37 | 43 | 21 | 31 |
| Vermont | 41 | 54 | 42 | 42 | 47 | 36 | 51 | 32 | 27 | 25 |
| Virginia | 205 | 280 | 235 | 204 | 259 | 190 | 200 | 150 | 159 | 159 |
| Washington | 286 | 372 | 333 | 357 | 311 | 239 | 199 | 228 | 180 | 203 |
| West Virginia | 181 | 182 | 209 | 163 | 170 | 103 | 127 | 109 | 102 | 84 |
| Wisconsin | 878 | 941 | 966 | 1,012 | 966 | 808 | 812 | 665 | 490 | 484 |
| Wyoming | 25 | 23 | 20 | 37 | 22 | 24 | 17 | 17 | 13 | 12 |
| Alaska | 7 | 6 | 4 | 5 | 5 | 3 | 3 | 2 | 5 | 2 |
| Canal Zone | 4 | 3 | ------- | 1 | 6 | 3 | 5 | 3 | 2 | 0 |
| District of Columbia | 282 | 261 | 248 | 208 | 214 | 205 | 206 | 203 | 202 | 157 |
| Hawaii | 30 | 33 | 39 | 39 | 18 | 22 | 13 | 16 | 17 | 12 |
| Philippine Islands | 3 | 6 | 13 | 4 | 1 | 5 | 5 | ------- | ------- | ------- |
| Puerto Rico | 4 | 5 | 3 | 6 | 4 | 3 | 1 | 4 | 2 | 3 |
| U. S. Army | 1 | 2 | 1 | 1 | 18 | 19 | 13 | 22 | 12 | 15 |
| U. S. Navy | 35 | 38 | 18 | 18 | 22 | 30 | 20 | 21 | 59 | 61 |
| U. S. Marine Corps | 5 | 2 | 1 | ------- | ------- | 2 | ------- | 4 | 2 | 2 |

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

## No. 998.—Patents Granted to Residents of Foreign Countries: 1937 to 1947

| COUNTRY | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total** | 5,638 | 5,776 | 6,338 | 6,148 | 5,311 | 3,943 | 2,625 | 2,564 | 2,112 | 1,656 | 1,617 |
| Argentina | 27 | 21 | 22 | 24 | 23 | 24 | 16 | 23 | 25 | 29 | 22 |
| Australia | 44 | 68 | 46 | 36 | 36 | 42 | 25 | 27 | 21 | 23 | 12 |
| Austria | 105 | 112 | 120 | 63 | 26 | 7 | 5 | ------ | ------ | 1 | 1 |
| Belgium | 54 | 71 | 65 | 52 | 44 | 25 | 30 | 15 | 13 | 1 | 21 |
| Brazil | 3 | 3 | 4 | 9 | 10 | 9 | 5 | 11 | 9 | 6 | 1 |
| Canada | 418 | 367 | 345 | 372 | 355 | 310 | 259 | 260 | 255 | 223 | 216 |
| Czechoslovakia | 46 | 54 | 49 | 54 | 32 | 10 | 13 | 6 | 1 | 1 | ------ |
| Cuba | 15 | 15 | 11 | 16 | 16 | 13 | 14 | 18 | 15 | 9 | 14 |
| Denmark | 30 | 41 | 54 | 44 | 33 | 17 | 16 | 16 | 6 | 1 | 6 |
| England | 1,178 | 1,250 | 1,288 | 1,308 | 1,142 | 1,000 | 743 | 843 | 905 | 820 | 766 |
| Finland | 7 | 6 | 6 | 5 | 7 | 2 | 2 | ------ | 11 | 1 | 1 |
| France | 559 | 533 | 634 | 376 | 334 | 210 | 182 | 134 | 100 | 39 | 107 |
| Germany | 2,106 | 2,205 | 2,480 | 2,595 | 2,218 | 1,468 | 722 | 641 | 243 | 100 | 52 |
| Hungary | 28 | 25 | 48 | 63 | 37 | 29 | 11 | 26 | 7 | 3 | ------ |
| Ireland [1] | 7 | 6 | 12 | 17 | 5 | 4 | 3 | 6 | 3 | 3 | 5 |
| Italy | 88 | 82 | 91 | 97 | 92 | 82 | 27 | 52 | 28 | 10 | 8 |
| Japan | 68 | 87 | 57 | 44 | 36 | 20 | 7 | 15 | 5 | 9 | 2 |
| Mexico | 18 | 20 | 23 | 19 | 19 | 15 | 12 | 9 | 6 | 12 | 17 |
| Netherlands | 192 | 195 | 238 | 236 | 203 | 134 | 93 | 62 | 20 | 9 | 37 |
| New Zealand | 21 | 22 | 20 | 14 | 12 | 10 | 8 | 2 | 6 | 4 | 2 |
| Norway | 24 | 31 | 26 | 25 | 28 | 14 | 14 | 10 | 6 | 1 | 1 |
| Poland | 16 | 10 | 16 | 16 | 4 | 5 | 3 | ------ | ------ | 1 | 1 |
| Scotland | 41 | 48 | 47 | 31 | 35 | 25 | 29 | 20 | 29 | 33 | 25 |
| Spain | 21 | 11 | 8 | 8 | 4 | 2 | 5 | 2 | 10 | 4 | 8 |
| Sweden | 186 | 181 | 242 | 226 | 208 | 159 | 126 | 104 | 117 | 91 | 97 |
| Switzerland | 251 | 215 | 286 | 283 | 279 | 249 | 192 | 175 | 219 | 175 | 151 |
| Union of South Africa | 22 | 21 | 17 | 23 | 21 | 7 | 15 | 14 | 11 | 21 | 17 |
| Union of Soviet Socialist Republics | 4 | ------ | 1 | 8 | 2 | 4 | 6 | ------ | ------ | ------ | ------ |
| Wales | 8 | 13 | 12 | 5 | 4 | 6 | 7 | 9 | 9 | 5 | 5 |
| All other countries | 51 | 63 | 70 | 79 | 46 | 41 | 35 | 64 | 32 | 21 | 22 |

[1] Includes Northern Ireland and Eire.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

## No. 999.—Registration of Copyrights by Subject Matter: Fiscal Years, 1943 to 1947

| SUBJECT MATTER OF COPYRIGHT | 1943 | 1944 | 1945 | 1946 | 1947 |
|---|---|---|---|---|---|
| **Total** | 160,789 | 169,269 | 178,848 | 202,144 | 230,215 |
| Books | 40,457 | 40,682 | 40,544 | 47,860 | 53,925 |
| Printed in the United States | 39,784 | 39,998 | 39,754 | 43,737 | 49,243 |
| Books proper | 8,658 | 7,585 | 6,962 | 7,679 | 9,903 |
| Pamphlets, leaflets, etc | 27,558 | 27,683 | 27,936 | 30,554 | 34,940 |
| Contributions to newspapers and periodicals | 3,568 | 4,730 | 4,856 | 5,504 | 4,400 |
| Printed abroad in a foreign language | 156 | 82 | 111 | 3,513 | 3,970 |
| English books registered for ad interim copyright | 517 | 602 | 679 | 610 | 712 |
| Periodicals (numbers) | 42,995 | 44,364 | 45,763 | 48,289 | 58,340 |
| Lectures, sermons, addresses | 629 | 1,126 | 1,177 | 1,129 | 972 |
| Dramatic or dramatico-musical compositions | 3,681 | 4,875 | 4,714 | 5,356 | 6,456 |
| Musical compositions | 48,348 | 52,087 | 57,835 | 63,367 | 68,709 |
| Maps | 737 | 494 | 857 | 1,304 | 1,779 |
| Works of art, models, or designs | 1,649 | 1,743 | 1,821 | 3,094 | 4,044 |
| Reproductions of works of art | 221 | 173 | 186 | 317 | 540 |
| Drawings or plastic works of a scientific or technical character | 1,911 | 1,957 | 1,554 | 1,777 | 2,147 |
| Photographs | 1,042 | 1,270 | 1,258 | 1,752 | 1,838 |
| Commercial prints and labels | 5,385 | 5,953 | 7,403 | 7,975 | 9,674 |
| Prints and pictorial illustrations | 2,317 | 2,426 | 2,634 | 5,384 | 6,506 |
| Motion picture photoplays | 693 | 604 | 615 | 774 | 666 |
| Motion pictures not photoplays | 1,074 | 1,268 | 1,120 | 1,250 | 1,418 |
| Renewals of commercial prints and labels | 20 | 44 | 30 | 33 | 21 |
| Renewals of all other classes | 9,630 | 10,203 | 11,337 | 12,483 | 13,180 |

Source: The Library of Congress, Annual Report.