# Population Distribution and Population Movements in the United States 

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- AS IS TRUE of most relationships between different human activities, the relationship between the distribution of population, on the one hand, and the location of transportation facilities, on the other, is of a reciprocal nature. The availability of highways and the cost of travel along them in various kinds of vehicles influence the settlement pattern, including the types of residential structures that are built. Conversely, the existing or expected population distribution and the distances from homes to jobs, schools, shops, and recreational facilities affect the planning of highways. In one sense, highways are attracted by population concentrations because they must link large concentrations together. This might be called the macro-ecological sense (as distinguished from the micro-ecological sense) in which highways skirt population concentrations because of the costs of residential land. These various interactions between population distribution and the location and nature of highways, railroads, subways, etc., complicate the making of forecasts.

The population is not only growing fairly rapidly (adding about 3 million persons a year) but also, in several important respects, becoming more concentrated. In very general geographic terms, the Atlantic, Pacific, and Gulf Coasts and the shores of the Great Lakes are growing at the expense of the Nation's interior. In the 1950's, almost one-half ( 49 percent) of all the counties in the United States actually lost population. All of these counties lost because of net out-migration. In addition, 29 percent of American counties had net out-migration that was offset by natural increase (excess of births over deaths), so that they had only slight or moderate population growth. Obviously, then some counties had high rates of net in-migration. The counties with very high rates of net in-migration (Fig. 1) are mostly outlying counties within metropolitan areas, a few relatively "young" metropolitan areas, and counties in Florida and California. A comparison with the rates of net migration by counties for the 1940's would show a great deal of similarity.

Closely associated with the tendency of people to concentrate in certain geographic areas is the tendency of people to concentrate in cities. As part of its description of the distribution of people by the size of place in which they live, the Bureau of the Census classifies territory as "urban" or as "rural."

This classification is arbitary in that it uses a cutting score of 2,500 , but a moderately higher or lower cutting score would show regional differentials very similar to those given in Table 1. Moreover, the cutting score could be raised or lowered somewhat without invalidating the statement that population in urban territory is growing faster than that in rural territory.

The definition of urban territory now in use is as follows:

> In general, the urban population comprises all persons living in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas. More specifically, according to the definition adopted for use in the l960 Census, the urban population comprises all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs, villages, and towns (except towns in New England, New York, and Wisconsin); (b) the densely settled urban fringe, whether incorporated or unincorporated, of urbanized areas; (c) towns in New England and townships in New Jersey and Pennsylvania which contain no incorporated municipalities as subdivisions and have either 25,000

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#### Abstract

inhabitants or more or a population of 2,500 to 25,000 and a density of 1,500 persons or more per square mile; (d) counties in States other than the New England States, New Jersey, and Pernsylvania that have no incorporated municipalities within their boundaries and have a density of 1,500 persons or more per square mile; and (e) unincorporated places of 2,500 inhabitants or more.


Table 1 gives the urban and rural population in the 13 economic regions used by Bogue and Beale (1). Figure 2 shows these economic regions. Between 1950 and 1960, the urban population grew faster than the rural population in all but one of these economic regions. Indeed, in 5 regions and in the United States as a whole, the rural population decreased. Furthermore, in all but two of the regions, the urban population is in the majority and the two exceptions are now very close to being 50 percent urban.

This urbanization process has been taking place since the very first intercensal decade (Table 2). Study of the historic trend is complicated somewhat by the fact that a more realistic definition was introduced in the 1950 Census to include as urban not only the incorporated places of 2,500 or more but also the densely settled 'urban fringes" around cities of 50,000 or more. On the old definition, the urban population comprised only 5 percent of the population in 1790, first exceeded 50 percent in 1920, and comprised 63 percent in 1960. The new definition gives 70 percent urban for 1960.

A town of 2,500 is, of course, a small place by modern standards. It is perhaps more striking to point out that cities of 50,000 or more and their urban fringes (which together are called "urbanized areas") account for over one-half the population ( 53 percent in 1960). Table 3 gives the distribution of the population by size of place. Lest the picture of the American as a dweller in big cities be overemphasized, about onequarter still live in what the table calls "other rural territory"; i.e., villages and hamlets of less than 1,000 inhabitants plus the open country. Of these 48 million, however, only 13 million lived on farms.

Population change in a subdivision of the United States always has two broad components: (a) natural increase and (b) net migration. It may have a third-changes in boundaries. At the present time, practically all areas have an excess of births over deaths. Migration includes immigration and emigration from, and to abroad; but internal migration is numerically a much more important factor in population increase or decrease. Boundary changes result from such actions as annexations, retrocessions, and consolidations. Furthermore, when viewing population change for an aggregate, like urban territory or cities of 50,000 to 100,000 , one must bear in mind that places enter or drop from the class when their population passes the critical size.

TABLE 1
POPULATION IN 1960 AND PERCENT CHANGE, 1950-60, BY URBAN-RURAL RESIDENCE ${ }^{\text {a }}$

| Region | Name of Region | Population, 1960 |  |  | Percent Change, 1950-60 |  |  | Percent Urban | Percent Rural |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Urban | Rural | Total | Urban | Rural |  |  |
| I | Atlantic Metropolitan Belt | 36,500, 804 | $31,603,170$ | 4, 897,634 | 17.5 | 18.6 | 10.8 | 86.6 | 13.4 |
| II | Eastern Great Lakes-Northeastern Upland | $10,116,810$ | 6, 087, 691 | 4, 029, 119 | 9.7 | 8.4 | 11.8 | 60.2 | 39.8 |
| III | Lower Great Lakes | 25, 212, 494 | 20,358, 868 | 4,853, 626 | 18.6 | 22.1 | 5.8 | 80.7 | 19.3 |
| IV | Upper Great Lakes | 5, 750, 213 | 3, 351, 722 | 2, 398, 491 | 14.5 | 27.9 | -0.1 | 58.3 | 41.7 |
| V | North Center (Corn Belt) | 17, 169,930 | 9,942,641 | 7,227,289 | 12.6 | 23.7 | 0.2 | 57.9 | 42.1 |
| VI | Central Plains | $6,013,853$ | 3, 608, 311 | 2,405, 542 | 16.4 | 41.6 | -8.1 | 60.0 | 40.0 |
| VII | Central and Eastern Upland | 14, 882, 135 | 7, 421, 755 | 7, 460,380 | 5.1 | 20.2 | -6. 6 | 49.9 | 50.1 |
| VIII | Southeast Coastal Plain | 16,391, 896 | 7,788, 643 | 8,603, 253 | 9.6 | 32.3 | -5. 1 | 47.5 | 52.5 |
| IX | Atlantic Flatwoods and Gulf Coast | 11, 812, 018 | 8,971, 391 | 2, 840,627 | 48.1 | 63.2 | 14.7 | 76.0 | 24.0 |
| X | South Center and Southwest Plains | 8,993, 054 | 5, 434, 377 | 3,558, 677 | 8.3 | 40.8 | -19.9 | 60.4 | 39.6 |
| XI | Rocky Mountain and Intermountain | 4,568,878 | 2, 727, 282 | 1,841,596 | 26.7 | 54.2 | 0.3 | 59.7 | 40.3 |
| XII | Pacific Northwest | 4,918, 314 | $3,169,316$ | 1, 748,998 | 21.7 | 34.2 | 4.3 | 64.4 | 35.6 |
| XIII | Pacific Southwest | 16,992, 776 | 14, 805, 449 | 2, 187, 327 | 50.1 | 61.6 | 1.4 | 87.1 | 12.9 |
|  | U. S. total | 179,323, 175 | 125, 270,616 | 54, 052, 559 | 18.5 | 29.3 | -0.8 | 69.9 | 30.1 |

[^1]

Figure 2. Economic regions of the United States.

TABLE 2
URBAN AND RURAL POPULATION OF THE UNITED STATES: 1790 TO $1960^{\text {a }}$

| Area | Urban Definition | Census Date | Total |  |  | Urban |  |  | Rural |  |  | Percent of Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Population | Increase over Preceding Census |  | Population | Increase over Preceding Census |  | Population | Increase over Preceding Census ${ }^{\text {b }}$ |  | Urban | Rural |
|  |  |  |  | Number | Percent |  | Number | Percent |  | Number | Percent |  |  |
| United States | Current | 1960 | 179, 323, 175 | 27, 997, 377 | 18.5 | 125, 268, 750 | 28, 421, 933 | 29.3 | 54, 054, 425 | -424, 556 | -0.8 | 69.9 | 30.1 |
|  |  | 1950 | 151, 325, 798 | - | - | 96, 846, 817 | - | - | 54, 478, 981 | - | - | 64.0 | 36.0 |
|  | Previous | 1960 | 179, 323, 175 | 27, 997, 377 | 18.5 | 113, 056, 353 | 22, 928, 159 | 25.4 | 66,266, 822 | 5, 069, 218 | 8.3 | 63.0 | 37.0 |
|  |  | 1950 | 151, 325, 798 | 19, 161, 229 | 14.5 | 90, 128, 194 | 15, 422, 856 | 20.6 | 61, 197, 604 | 3, 738, 373 | 6.5 | 59.6 | 40.4 |
|  |  | 1940 | 132, 164, 569 | 8,961,945 | 7.3 | 74, 705, 338 | 5, 544, 739 | 8.0 | 57, 459, 231 | 3,417,206 | 6.3 | 56.5 | 43.5 |
|  |  | 1930 | 123, 202, 624 | 17, 181, 087 | 16.2 | 69, 160, 599 | 14,907, 317 | 27.5 | 54, 042, 025 | 2, 273, 770 | 4.4 | 56.1 | 43.9 |
| Conterminous United States | Current <br> Previous | 1960 | 178, 464, 236 | 27, 766, 875 | 18.4 | 124, 699, 022 | 28, 231, 336 | 29.3 | 53, 765, 214 | -464, 461 | -0.9 | 69.9 | 30.1 |
|  |  | 1950 | 150, 697, 361 | - | - | 96, 467, 686 | - | - | 54, 229, 675 | - | - | 64.0 | 36.0 |
|  |  | 1960 | 178, 464, 236 | 27, 766, 875 | 18.4 | 112,531, 941 | 22, 782, 878 | 25.4 | 65, 932, 295 | 4,983,997 | 8.2 | 63.1 | 36.9 |
|  |  | 1950 | 150, 697, 361 | 19, 028, 086 | 14.5 | 89, 749, 063 c | 15, 325, 361 | 20.6 | 60,948,298 ${ }^{\text {c }}$ | 3, 702, 725 | 6. 5 | 59.6 | 40.4 |
|  |  | 1940 | 131, 669, 275 | 8,894,229 | 7.2 | 74, 423, 702 | 5, 468, 879 | 7.9 | 57,245, 573 | 3, 425, 350 | 6.4 | 56.5 | 43.5 |
|  |  | 1930 | 122, 775, 046 | 17, 064, 426 | 16.1 | 68,954,823 | 14, 796, 850 | 27.3 | 53, 820, 223 | 2,267, 576 | 4.4 | 56.2 | 43.8 |
|  |  | 1920 | 105, 710, 620 | 13, 738, 354 | 14.9 | 54, 157, 973 | 12, 159, 041 | 29.0 | 51, 552,647 | 1, 579, 313 | 3.2 | 51.2 | 48.8 |
|  |  | 1910 | 91, 972, 266 | 15, 977, 691 | 21.0 | 41, 998,932 | 11, 839, 011 | 39.3 | 49, 973, 334 | 4, 138, 680 | 9.0 | 45.7 | 54.3 |
|  |  | 1900 | 75, 994, 575 | 13, 046, 861 | 20.7 | 30, 159,921 | 8, 053, 656 | 36.4 | 45, 834, 654 | 4,993,205 | 12.2 | 39.7 | 60.3 |
|  |  | 1890 | 62, 947, 714 | 12, 791, 931 | 25.5 | 22, 106, 265 | 7,976, 530 | 56.5 | 40, 841, 449 | 4,815, 401 | 13.4 | 35.1 | 64.9 |
|  |  | 1880 | 50, 155, 783 | 11, 597, 412 | 30.1 | 14, 129, 735 | 4, 227, 374 | 42.7 | 36, 026, 048 | 7,370,038 | 25.7 | 28.2 | 71.8 |
|  |  | 1870 | 38, 558, 371 | 7, 115, 050 | 22.6 | 9, 902, 361 | 3, 685, 843 | 59.3 | 28, 656, 010 | 3,429, 207 | 13.6 | 25.7 | 74.3 |
|  |  | 1860 | 31, 443, 321 | 8,251, 445 | 35.6 | 6,216,518 | 2,672, 802 | 75.4 | 25, 226, 803 | 5,578,643 | 28.4 | 19.8 | 80.2 |
|  |  | 1850 | 23, 191, 876 | 6,122,423 | 35.9 | 3, 543, 716 | 1, 698, 661 | 92.1 | 19, 648, 160 | 4, 423, 762 | 29.1 | 15.3 | 84.7 |
|  |  | 1840 | 17, 069, 453 | 4, 203, 433 | 32.7 | 1, 845, 055 | 717, 808 | 63.7 | 15,224,398 | 3, 485, 625 | 29.7 | 10.8 | 89.2 |
|  |  | 1830 | 12, 866, 020 | 3,227,567 | 33.5 | 1, 127, 247 | 433, 992 | 62.6 | 11, 738, 773 | 2,793,575 | 31.2 | 8.8 | 91.2 |
|  |  | 1820 | 9,638, 453 | 2,398,572 | 33.1 | 693,255 | 167, 796 | 31.9 | 8,945, 198 | 2,230, 776 | 33.2 | 7.2 | 92.8 |
|  |  | 1810 | 7, 239, 881 | 1,931,398 | 36.4 | 525, 459 | 203, 088 | 63.0 | 6, 714, 422 | 1, 728, 310 | 34.7 | 7.3 | 92.7 |
|  |  | 1800 | 5, 308, 483 | 1,379, 269 | 35.1 | 322, 371 | 120, 716 | 59.9 | 4,986, 112 | 1,258, 553 | 33.8 | 6.1 | 93.9 |
|  |  | 1790 | 3, 929, 214 | - | - | 201,655 | - | - | 3, 727, 559 | - | - | 5.1 | 94.9 |

${ }^{\text {a }}$ Source: U. S. Bureau of the Census, " 1960 Census of Population." Series PC(1)-1A, Table 3.
Minus sign denotes decrease.
${ }^{C}$ Revised since publication of 1950 reports.

TABLE 3
POPULATION IN GROUPS OF PLACES CLASSIFIED ACCORDING TO SIZE: 1960 AND $1950^{\text {a }}$

| Type of Area | 1960 |  |  |  | 1950 |  |  |  | Percent Change in Population 1950 to 1960 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. of Places | Population | Percent of Total <br> Population | Percent of Total Area | No. of Places | Population | Percent of Total <br> Population | Percent of Total Area |  |
| Central Cities: |  |  |  |  |  |  |  |  |  |
| 1,000,000 or more | 5 | 17, 484, 059 | 9.8 | 14.0 | 5 | 17, 404, 450 | 11.5 | 18.0 | 0.5 |
| 500,000 to 1, 000, 000 | 16 | 11,110,991 | 6.2 | 8.9 | 13 | 9,186, 945 | 6.1 | 9.5 | 20.9 |
| 250,000 to 500,000 | 30 | 10,765, 881 | 6. 0 | 8.6 | 22 | 7,990, 793 | 5.3 | 8.3 | 34.7 |
| 100,000 to 250,000 | 66 | 9,872, 604 | 5.5 | 7.9 | 55 | 8,244, 219 | 5.4 | 8.5 | 19.8 |
| 50,000 to 100,000 | 111 | 7,858,514 | 4.4 | 6.3 | 68 | 5,172,381 | 3.4 | 5.3 | 51.9 |
| Under 50,000 | 26 | 883, 083 | 0.5 | 0.7 | 9 | 378,452 | 0.3 | 0.4 | 133.3 |
| Total | 254 | 57,975, 132 | 32.3 | 46.3 | 172 | 48,377, 240 | 32.0 | 50.0 | 19.8 |
| Urban fringes: |  |  |  |  |  |  |  |  |  |
| 2,500 or more: |  |  |  |  |  |  |  |  |  |
| 100, 000 or more | 15 | 1,779,822 | 1.0 | 1.4 | 11 | 1,485, 210 | 1.0 | 1.5 | 19.8 |
| 50,000 to 100,000 | 90 | 5,977, 388 | 3.3 | 4.8 | 97 | 2,562, 230 | 1.7 | 2.6 | 133.3 |
| 25,000 to 50,000 | 212 | 7, 253, 877 | 4.0 | 5.8 | 71 | 2, 494, 662 | 1.6 | 2.6 | 190.8 |
| 10,000 to 25,000 | 518 | 8,209,099 | 4.6 | 6.6 | 231 | 3,629,308 | 2.4 | 3.7 | 126.2 |
| 5,000 to 10,000 | 399 | 2,862, 099 | 1.6 | 2.3 | 268 | 1, 892, 680 | 1.3 | 2.0 | 51.2 |
| 2,500 to 5,000 | 346 | 1,250, 219 | 0.7 | 1.0 | 241 | 885, 800 | 0.6 | 0.9 | 41.1 |
| Subtotal | 1,580 | 27, 332, 504 | 15.2 | 21.8 | 859 | 12,949, 890 | 8.6 | 13.4 | 111.1 |
| Under 2,500: |  |  |  |  |  |  |  |  |  |
| 2,000 to 2,500 | 112 | 249,559 | 0.1 | 0.2 | 80 | 180,587 | 0.1 | 0.2 | 38.2 |
| 1,500 to 2, 000 | 86 | 149, 220 | 0.1 | 0.1 | 106 | 183, 844 | 0.1 | 0.2 | -18.8 |
| 1,000 to 1,500 | 122 | 152, 177 | 0.1 | 0.1 | 93 | 115, 660 | 0.1 | 0.1 | 31.6 |
| Under 1,000 | 276 | 138,790 | 0.1 | 0.1 | 178 | 97,901 | 0.1 | 0.1 | 41.8 |
| Subtotal | 596 | 689, 746 | 0.4 | 0.6 | 457 | 577,992 | 0.4 | 0.6 | 19.3 |
| Other | --- | 9, 851,105 | 5.5 | 7.9 | --- | 7,344,026 | 4.9 | 7.6 | 34.1 |
| Total | --- | 37, 873,355 | 21.1 | 30.2 | --- | 20, 871, 908 | 13.8 | 21.6 | 81.5 |
| Within urbanized areas | --- | 95, 848, 487 | 53.5 | 76.5 | --- | 69,249, 148 | 45.8 | 71.5 | 38.4 |
| Outside urbanized areas: |  |  |  |  |  |  |  |  |  |
| 25,000 or more | 200 | 6, 935, 191 | 3.9 | 5.5 | 195 | 7,406, 051 | 4.9 | 7.6 | -6. 4 |
| 10,000 to 25,000 | 610 | 9, 237, 648 | 5.2 | 7.4 | 548 | 8,248, 451 | 5.5 | 8.5 | 12.0 |
| 5,000 to 10,000 | 995 | 6, 917,615 | 3.9 | 5.5 | 916 | 6,299, 956 | 4.2 | 6.5 | 9.8 |
| 2,500 to 5,000 | 1,806 | 6, 329, 809 | 3.5 | 5.1 | 1,617 | 5, 643, 211 | 3.7 | 5.8 | 12.2 |
| Subtotal | 3,611 | 29, 420, 263 | 16.4 | 23.5 | 3,276 | 27, 597, 669 | 18.2 | 28.5 | 6.6 |
| Urban total | ...- ${ }^{\text {b }}$ | 125, 268, 750 | 69.9 | 100.0 | -..c ${ }^{\text {c }}$ | $96,846,817$ | 64.0 | 100.0 | 29.3 |
| Rural: |  |  |  |  |  |  |  |  |  |
| 2,000 to 2,500 | 784 | 1,748,316 | 1.0 | 3.2 | 762 | 1,693, 965 | 1.1 | 3.1 | 3.2 |
| 1,500 to 2, 000 | 1,248 | 2,157,904 | 1.2 | 4.0 | 1,282 | 2,203, 750 | 1.5 | 4.0 | -2.1 |
| 1,000 to 1,500 | 2,119 | 2,590,568 | 1.4 | 4.8 | 2,142 | 2,617, 759 | 1.7 | 4.8 | -1.0 |
| Subtotal | 4,151 | 6, 496, 788 | 3.6 | 12.0 | 4,186 | 6,515, 474 | 4.3 | 12.0 | -0.3 |
| Other | --- | 47,557, 637 | 26.5 | 88.0 | - | 47, 963, 507 | 31.7 | 88.0 | -0.8 |
| Total | --- | 54, 054,425 | 30.1 | 100.0 | --- | 54, 478,981 | 36.0 | 100.0 | -0.8 |
| United States, Total | --- | 179,323, 175 | 100.0 | --- | - | 151,325, 798 | 100.0 | --- | 18.5 |
| Urbanized Areas: |  |  |  |  |  |  |  |  |  |
| 1,000,000 or more | 16 | 51,785,410 | 28.9 | 54.0 | 12 | 37, 817,068 | 25.0 | 54.6 | 36.9 |
| 500,000 to 1,000,000 | 22 | 15, 365, 801 | 8.6 | 16.0 | 13 | 8,751, 241 | 5.8 | 12.6 | 75.6 |
| 250,000 to 500,000 | 30 | 10,624, 125 | 5.9 | 11.1 | 24 | 8,676, 270 | 5.7 | 12.5 | 22.5 |
| 100,000 to 250,000 | 85 | 13, 480, 252 | 7.5 | 14.1 | 70 | 10, 888, 119 | 7.2 | 15.7 | 23.8 |
| Under 100,000 | 60 | 4, 592, 800 | 2.6 | 4.8 | 38 | 3,116,450 | 2.1 | 4.5 | 47.4 |
| Total | 213 | $95,848,487$ | 53.5 | 100.0 | 157 | 69, 249, 148 | 45.8 | 100.0 | 38.4 |

[^2]TABLE 4
POPULATION AND DENSITY IN GROUPS OF PLACES CLASSIFIED ACCORDING TO SIZE: $1960^{\text {a }}$

| Area | Population | $\begin{gathered} \text { Land Area } \\ (\mathrm{sq} \\ \mathrm{mi}) \end{gathered}$ | Population (per sq mi of land area) |
| :---: | :---: | :---: | :---: |
| United States: |  |  |  |
| Places of 1,000,000 or more | 17, 484, 059 | 1, 261 | 13,865 |
| 500, 000 to $1,000,000$ | 11,110, 991 | 1, 888 | 5,885 |
| 250,000 to 500,000 | 10,765, 881 | 2, 401 | 4,484 |
| 100,000 to 250,000 | 11,652, 426 | 2,728 | 4,271 |
| 50,000 to 100,000 | 13, 835, 902 | 3, 539 | 3,910 |
| 25,000 to 50,000 | 14, 950,612 | 5,319 | 2,811 |
| 10,000 to 25,000 | 17, 568, 286 | 6,939 | 2,532 |
| 5,000 to 10,000 | 9, 779, 714 | 5, 005 | 1,954 |
| 2,500 to 5,000 | 7,580,028 | 5,242 | 1,446 |
| Other urban territory | 10, 540, 851 | 5,917 | 1,781 |
| Rural territory | 54, 054,425 | 3, 508, 736 | 15 |
| Total | 179, 323, 175 | 3,548, 974 | 51 |
| Within urbanized areas: |  |  |  |
| Places of 1,000,000 or more | 17, 484, 059 | 1,261 | 13,865 |
| 500, 000 to 1, 000, 000 | 11, 110, 991 | 1,888 | 5,885 |
| 250,000 to 500,000 | 10,765, 881 | 2, 401 | 4,484 |
| 100,000 to 250,000 | 11, 652, 426 | 2,728 | 4,271 |
| 50,000 to 100,000 | 13, 835,902 | 3,539 | 3, 910 |
| 25,000 to 50,000 | 8,015, 421 | 2,594 | 3,090 |
| 10,000 to 25,000 | 8,330,638 | 2,873 | 2,900 |
| 5,000 to 10,000 | 2, 862,099 | 1, 488 | 1,923 |
| 2,500 to 5,000 | 1,250, 219 | 856 | 1,461 |
| Other urban territory | 10,540, 851 | 5,917 | 1,781 |
| Total | 95, 848, 487 | 25,544 | 3,752 |
| Outside urbanized areas: |  |  |  |
| Places of 25,000 to 50, 000 | 6, 935, 191 | 2, 725 | 2, 545 |
| 10,000 to 25,000 | 9,237, 648 | 4, 066 | 2, 272 |
| 5, 000 to 10,000 | 6,917, 615 | 3,517 | 1,967 |
| 2, 500 to 5,000 | 6,329, 809 | 4,386 | 1,443 |
| Rural territory | 54, 054, 425 | 3,508,736 | 15 |
| Total | 83, 474, 688 | 3,523, 430 | 24 |

$a_{\text {Source: }}$ U.S. Bureau of the Census, "1960 Census of Population," Series PC(1)-1A, Table E.

TABLE 5
POPULATION INSIDE AND OUTSIDE CENTRAL CITY OR CITIES OF STANDARD METROPOLITAN STATISTICAL AREAS WITH POPULATION OF AREAS ANNEXED TO CENTRAL CITIES, BY REGIONS: 1960 AND $1950^{\text {a }}$

| Region | Component Part of SMSA | Population |  | Change, 1950 to 1960 |  |  |  |  |  | 1960 <br> Population on Basis of 1950 Limits of Central Cities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1960 | 1950 | Total |  | Based on 1950 Limits of Central Cities |  | From <br> Annexations |  |  |
|  |  |  |  | Number | Percent | Number | Percent | Number | Percent |  |
| United States | Central city | 58,004,334 | 52, 371, 379 | 5,632, 955 | 10.8 | 767, 209 | 1.5 | 4,851, 483 | 9.3 | 53,138, 588 |
|  | Outside central city | 54, 880, 844 | 36, 945, 524 | 17, 935, 320 | 48.5 | 22,801, 066 | 61.7 | -4,851, 483 | -13.1 | 59,746,590 |
|  | Total | 112,885,178 | 89,316,903 | 23,568,275 | 26.4 | 23,568,275 | $\overline{26.4}$ | -- | -- | 112,885,178 |
| Northeast | Central city | 17, 321, 731 | 17, 881, 490 | -559, 759 | -3.1 | -594, 078 | -3.3 | 20,115 | 0.1 | 17,287, 412 |
|  | Outside central city | 18,024,774 | 13, 385, 679 | 4,639,095 | 34.7 | 4, 673, 414 | 35.0 | -20,115 | -0.2 | 18,059, 093 |
|  | Total | 35,346,505 | 31,267,169 | 4,079,336 | 13.0 | 4,079,336 | 13.0 | -- | -- | 35,346,505 |
| North Central | Central city | 16,510,746 | 15,836, 656 | 674,090 | 4.3 | -257, 583 | -1.6 | 931,673 | 5.9 | 15,579, 073 |
|  | Outside central city | 14, 449, 215 | 9, 238,018 | 5, 211, 197 | 56.4 | 6,142, 870 | 66.5 | -931, 673 | -10.1 | 15,380, 888 |
|  | Total | 30,959,961 | 25,074,674 | 5,885,287 | $\overline{23.5}$ | 5,885,287 | 23.5 | - | - | 30,959,961 |
| South | Central city | 15, 061,777 | 11, 720, 843 | 3, 340, 934 | 28.5 | 615, 801 | 5.3 | 2, 725, 133 | 23.3 | 12, 336, 644 |
|  | Outside central city | 11,385,618 | 7,696,908 | 3,688,710 | 47.9 | 6,413,843 | 83.3 | -2,725,133 | -35.4 | 14, 110, 751 |
|  | Total | 26, 447, 395 | 19,417,751 | 7,029,644 | $\overline{36.2}$ | 7,029,644 | $\overline{36.2}$ | -- | -- | 26,447,395 |
| West | Central city | 9, 110, 080 | 6,932,390 | 2,177, 690 | 31.4 | 1,003, 069 | 14.5 | 1,174, 562 | 16.9 | 7,935,459 |
|  | Outside central city | 11, 021, 237 | 6,624,919 | 4,396,318 | 66.4 | 5,579,939 | 84.1 | -1,174,562 | -17.7 | 12, 195, 858 |
|  | Total | 20, 131,317 | 13,557,309 | 6,574,008 | 48.5 | 6,574,008 | 48.5 | -- | -- | 20,131, 317 |

"Source: Adapted from U.S. Bureau of the Census, " 1960 Census of Population" Vol. 1, Part A, Number of Inhabitants, Table P.

Table 3 shows that, as the resultant of all these factors, every size-class of urbanized area grew more rapidly than the total population, as did most size-classes of central cities and of places in the urban fringe. In contrast, all urban size-classes outside urbanized areas and all rural size-classes grew less rapidly than the national average or even had a decrease of population.

Analytically, however, it is useful to know how much of the growth in, say, a given place or class of places occurred within constant boundaries. Elsewhere it is estimated that 59 percent of the 1950-1960 increase in the urban population is attributable to reclassification of territory (2). Probably less than one-half of that is specifically attributable to annexations to incorporated places.

Population growth leads to greater population density unless the area is expanded to include more thinly settled territory. Within the fixed area of the 48 States, population density increased during the 1950 's from 50.7 to 60.1 per square mile; but the addition of Alaska and Hawaii drove the density of the United States as defined in 1960 down slightly from the 1950 figure to 50.5 . Obviously, this average density represents a very wide range among various areas even within the conterminous United States. Table 4 shows, for example, that urbanized areas had an average population of 3,752 per square mile, whereas that of rural territory was only 15 . Within urbanized areas, the urban fringe areas, which are essentially suburban, had a density of 2,575 as contrasted with 5,349 for the central cities. Union City ( 40,138 persons per square mile) and two other cities in northeastern New Jersey have a higher density than New York City as a whole, but the Borough of Manhattan exceeds them with its density of $77,195$. At the other extreme, some middle-sized cities ( 25,000 inhabitants or more) have relatively low densities. Examples are Hilo, Hawaii, with only 89; Oak Ridge, Tenn., with 316; and Concord, N. H. , with 452.

At the risk of confusing the reader with still another type of area, it is necessary to discuss briefly the important concept of the metropolitan area. As defined by the Bureau of the Budget, a Standard Metropolitan Statistical Area (SMSA) includes a central city (or cities), the county containing it, and any contiguous counties that qualify in terms of criteria of metropolitan character and economic and social integration (3). The chief indicator used in determining the extent of integration is the rate of commuting by workers. Like urbanized areas, SMSA's have been defined for cities of 50,000 or more. An SMSA is almost always a larger area than its corresponding urbanized area, and the part beyond the urban fringe is of lower density. In fact, this density is only about 60 , or not much above the national average of 51 . Nevertheless, it is in this outer ring that the most rapidly growing areas of the next decade are likely to be found.

In 1960, 63 percent of all Americans lived in the 212 SMSA's. Central cities contained 32 percent and the metropolitan rings (including urban fringes) contained the remaining 31 percent. Although the central cities retain this slight majority of all metropolitan residents, the rates of growth in the 1950's show that their outlying areas are fast catching up (Table 5). The intercensal rates of growth are compared in Table 6. In fact, about five-sixths of the total national growth occurred within metropolitan areas and about two-thirds occurred within their outlying rings.

Moreover, 86 percent of the growth of the central cities was attributable to their annexations from their metropolitan rings. Had it not been for these numerous and extensive annexations during the decade, the rate of increase of central-city population would have been only 1.5 percent, whereas that of their rings would have been 62 percent. Nine of the 10 largest cities in 1950 and 19 of the 41 cities of 250,000 inhabitants or more in 1950 lost population as the
result of net out-migration. Essentially, these net losses were to the city's own suburbs. Only 8 of 212 entire metropolitan areas lost population during the 1950's. These were areas of chronic economic depression like the Johnstown, Scranton, Wheeling, and Wilkes-Barre-Hazleton SMSA's. The decline of coal mining was frequently a factor.

An interesting analysis of population change could be made in terms of small areas like city blocks, census tracts, and the minor civil divisions (townships, etc.) of counties. This would bring out the effects of new subdivisions and shopping centers; urban renewal and redevelopment; freeway construction; the creation of artificial lakes by damming rivers; the opening or expansion of factories, research laboratories, office buildings, and military posts and the contraction or closing down of such installations; and other ways in which man is altering the surface of this continent. This picture is too detailed to be painted on the small canvas of this paper, but many intensive local studies are being made and published.

The important role of net migration in redistributing population has been mentioned. Much of population movement is compensating, however, so that gross migration considerably exceeds the sum of net shifts; for example, when from the 1950 Census statistics the sum of the net migration in the preceding year for all States and net inmigration is about 300,000 . The total number of interstate migrants in this same 194950 period was 3.9 million, however. There is some evidence that the ratio of net migration to gross migration is declining; i. e., that a larger share of the gross migration is compensating (4).

About one in five Americans changes his address in any given year. This rate represents about 36 million persons nowadays, of whom 11 million move to a different county and 6 million to a different State. An estimated 8 or 9 million families have moved in each recent year. Many, if not most, of these movers use automobiles and moving vans to transport themselves and their furniture, respectively, to their new homes.

But obviously most passenger car trips are not made for the purpose of effecting a change of usual residence. , Various origin and destination studies give a partial picture of the purposes of automobile trips and the relative numbers of passengers who are going to work, to school, to shop, and so on. There are no comprehensive national statistics with a classification by routes, areas, time of day, day of the week, or season of the year. A new set of statistics that is comprehensive in at least its national coverage is becoming available from the 1960 Census, however. (Furthermore, the 1963 Census of Transportation will include a National Travel Survey, which will collect data quarterly from a panel of households concerning (a) trips over-night or to a place at least 100 miles away, and (b) home-to-work travel.)

The 1960 Census had questions on place of work in the preceding week and on the chief means of transportation employed. These questions and the resulting tabulations represent a modest beginning in some respects. The geographic detail on place of work is not so great as one would like, and all means of transportation used in the given week are not known. Nonetheless, a large volume of statistics (some in unpublished form) is becoming available. These show considerable detail on place of residence and on the characteristics (age, sex, occupation, industry, etc.) of the commuters.

Some summary figures are given in Tables 7 and 8. In the country as a whole, of those workers reporting, about one in seven worked away from their county of residence. There are, of course, tremendous geographic variations in this kind of commuter rate; but, surprisingly, the rate for workers living in metropolitan areas is only a little higher than that for those in nonmetropolitan areas. The moderate over-all metropolitan rate results from the fact that relatively few of the many workers in central cities of SMSA's work outside their home county. Between one-fifth and one-fourth of workers living in urban-fringe areas, however, commute to a different county. In Fairfax County, Va. (a Washington 'bedroom" county), 64 percent of those reporting worked outside the county and 38 percent worked in Washington. In the outlying "rings" of SMSA's of 100,000 or more, 34 percent of the workers reporting worked in the central city, whereas, of those living in the central cities, only 10 percent commuted to the outlying rings (Table 9).

If any proof is needed of the overwhelming importance of the private automobile as

TABLE 7
PLACE OF WORK OF WORKERS ${ }^{\text {a }}$ DURING THE CENSUS WEEK, BY COLOR, FOR THE UNITED STATES, URBAN AND RURAL: $1960^{\text {b }}$

| Worker | Place of Work | Number |  |  |  | Percent Distribution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | United States | Urban | Rural |  | United States | Urban | Rural |  |
|  |  |  |  | Nonfarm | Farm |  |  | Nonfarm | Farm |
| White | In county of res. | 47, 312,465 | 34, 263,368 | 9,435, 743 | 3,613,354 | 81.4 | 81.5 | 79.3 | 87.1 |
|  | Outside county of res. | 8,423,028 | 5,990,983 | 2,039, 283 | 392,762 | 14.5 | 14. 2 | 17.1 | 9.5 |
|  | Not reported | 2, 363,993 | 1,789,647 | 429,638 | 144,708 | 4.1 | 4.3 | 3.6 | 3.5 |
|  | Subtotal | 58, 099, 486 | 42,043, 998 | 11,904,664 | 4,150, 824 | 100.0 | 100.0 | 100.0 | 100.0 |
| Nonwhite | In county of res. | 5, 499, 552 | 4,279, 407 | 867,172 | 352,973 | 83.9 | 83.6 | 83.4 | 89.5 |
|  | Outside county of res. | 562, 560 | 412,850 | 124, 804 | 24,906 | 8.6 | 8.1 | 12.0 | 6.3 |
|  | Not reported | 494,207 | 429,493 | 48,312 | 16,402 | 7.5 | 8.4 | 4.6 | 4.2 |
|  | Subtotal | 6, 556, 319 | 5,121, 750 | 1,040,288 | 394, 281 | 100.0 | 100.0 | 100.0 | 100.0 |
| Total |  |  |  |  |  | 81.7 |  |  | 87.3 |
|  | Outside county of res. | 8,985,588 | 6, 403, 833 | 2,164,087 | 417,668 | 13.9 | 13.6 | 16.7 | 9.2 |
|  | Not reported | 2,858,200 | 2,219,140 | 477, 950 | 161,110 | 4.4 | 4.7 | 3.7 | 3.5 |
|  | Subtotal | 64,655,805 | 47,165,748 | 12,944,952 | 4,545, 105 | 100.0 | 100.0 | 100.0 | 100.0 |

${ }_{b}^{a}$ Including meubers of Armed Forces.
bource: U. S. Bureau of the Censub, "1960 Census of Population." Series PC(1)-1C, Table 93.

TABLE 8
MEANS OF TRANSPORTATION TO WORK OF WORKERS ${ }^{a}$ DURING THE CENSUS WEEK, FOR THE UNITED STATES, URBAN AND RURAL: 1960b

| Means of Transportation to Work | Number |  |  |  | Percent Distribution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United States | Urban | Rural |  | United States | Urban | Rural |  |
|  |  |  | Nonfarm | Farm |  |  | Nonfarm | Farm |
| Private automobile or car pool | 41, 368, 062 | 30, 295, 829 | 9,390, 246 | 1,681,987 | 64.0 | 64.2 | 72.5 | 37.0 |
| Railroad, subway, or elevated | 2, 484, 281 | 2, 436,865 | 44,657 | 2,759 | 3.8 | 5.2 | 0.3 | 0.1 |
| Bus or streetcar | 5, 322, 651 | 5,142, 633 | 158,948 | 21, 070 | 8.2 | 10.9 | 1.2 | 0.5 |
| Walked to work | 6, 416, 343 | 4, 717, 841 | 1,435, 783 | 262, 719 | 9.9 | 10.0 | 11.1 | 5.8 |
| Other means | 1, 619, 842 | 1,029, 471 | 471, 227 | 119, 144 | 2.5 | 2.2 | 3.6 | 2.6 |
| Worked at home | 4, 662, 750 | 1,357, 400 | 991, 701 | 2, 313, 649 | 7.2 | 2.9 | 7.7 | 50.9 |
| Not reported | 2,781,876 | 2,185, 709 | 452,390 | 143, 777 | 4.3 | 4.6 | 3.5 | 3.2 |
| Total worker | 64, 655, 805 | 47, 165, 748 | 12,944,952 | 4,545,105 | 100.0 | 100.0 | 100.0 | 100.0 |

${ }^{4}$ Including members of Armed Forces.
bSource: U.S. Bureau of the Census, " 1960 Census of Population," Series PC(1)-1C, Table 94.
a means of getting people to work, Table 8 should provide it. Nationally, two-thirds of all workers used a car as their chief means of traveling between home and work. Less than one-tenth used a bus or streetcar and another 4 percent used other forms of public transportation (railroad, subway, or elevated train). For workers living in the central cities of SMSA's, of course, public transportation is relatively more important. Even there, however, only 27 percent reported this means, or about onehalf the proportion reporting private automobile or carpool. Only in New York City do more than one-half of the workers use public transportation.

If commuter streams between certain areas and types of areas, are considered additional contrasts are found. Within SMSA's of 100,000 or more, 82 percent of those commuting to the central city used a private automobile or carpool, whereas this means was reported by a bare majority ( 54 percent) of those both living and working in the central city. Of those living and working in New York City, 18 percent traveled by automobile, 53 percent by subway, and 15 percent by bus; whereas of those commuting from the New York metropolitan ring (that part in New York State only), 43 percent used an automobile, 54 percent, railroad or subway, and only 2 percent traveled by bus.

A few students in the United States and Western Europe have speculated that the rise

TABLE 9
PLACE OF WORK AND MEANS OF TRANSPORTATION OF WORKERS DURING THE CENSUS
WEEK, BY RESDENCE IN THE CENTRAL CITY OR IN THE RING, FOR STANDARD METROPOLITAN STATISTICAL AREAS OF 100,000 OR MORE: 1960ª

| Residence and Means of Transportation | Total Workers 14 Years or Over | Place of Work |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Central City | SMSA Ring | Outside SMSA of Residence | Not Reported |
| Living in central city of SMSA | 22,134,421 | 18,301,306 | 2,027, 946 | 537, 127 | 1,268, 042 |
| Total reporting means of transportation | 20, 823, 578 | 18,142,360 | 2,006,086 | 524,756 | 150,376 |
| Percent distribution: |  |  |  |  |  |
| Private automobile or carpool | 57.9 | 54.4 | 84.9 | 74.5 | 59.5 |
| Railroad, subway, or elevated | 9.3 | 10.1 | 1.7 | 9.5 | 9. 6 |
| Bus or streetcar | 18.4 | 19.6 | 10.5 | 7.3 | 18.2 |
| Walked only | 9.9 | 11.0 | 1.5 | 2.9 | 7.3 |
| Other means | 1.7 | 1.6 | 1.4 | 5.7 | 5.4 |
| Worked at home | 2.8 | 3.3 | -- | -- | -- |
| Not reporting | 1,310,843 | 158,946 | 21,860 | 12,371 | 1,117,666 |
| Living in SMSA ring | 19, 642, 613 | 6, 491, 160 | 11,324, 847 | 1,073, 708 | 752,898 |
| Total reporting means of transportation | 18, 784, 183 | 6, 329,531 | 11, 225,396 | 1,058, 280 | 170,976 |
| Percent distribution: |  |  |  |  |  |
| Private automobile or carpool | 77.1 | 82.3 | 74.0 | 79.0 | 78.0 |
| Railroad, subway, or elevated | 2.7 | 6.1 | 0.3 | 6.9 | 4.8 |
| Bus or streetcar | 6.1 | 8.9 | 4.3 | 7.8 | 6.3 |
| Walked only | 7.6 | 1.3 | 11.7 | 1.7 | 5.4 |
| Other means | 2.3 | 1.3 | 2.5 | 4.5 | 5.5 |
| Worked at home | 4.3 | -- | 7.2 | -- | -- |
| Not reporting | 858,430 | 161,629 | 99,451 | 15,428 | 581,922 |

*3ource: Adapted from U.S. Bureau of the Census, " 1960 Census of Population." Series PC(1)-1D,' Table 216 (fortheoming report),
of worker-commuting has tended to reduce the amount of migration into the growing labor markets and have tried to measure the relationship between these two types of movement ( 5,6 ). The relationship is probably more complex than this statement suggests, however. Not only might workers living on the periphery of a labor market decide to commute daily rather than to move into town but also workers who live in the central city may decide to move their homes to this same peripheral area because of the feasibility of commuting. Moreover, shopping centers and other service facilities are diffusing to the periphery, and some employers are locating there to tap the local labor supply and to use other advantages of a site outside the city proper.

The fact that the Census statistics will show the streams of workers commuting to and from the larger areas permits the estimation of the total number of workers employed in the area, or in other words, the daytime working population. Such estimates have already been published on a limited basis (7).

What of the future? Will these trends intensify, will they level off in plateaus, or will some strong countertrends develop? Officially, the Bureau of the Census makes projections on the basis of specified assumptions. It does not make predictions or forecasts.

The last published projections to 1975 of the total population show 226 or $235 \mathrm{mil}-$ lion, depending on the assumption about future births. Either may be too high or too low; but, barring some major catastrophe, a population of 200 million is not very far off. There are 188 million today including the Armed Forces abroad.

Others have speculated about future trends in the metropolitan population and in the urban population. Writing in 1957, Cuzzort and Siegel independently concluded that there would be further concentration of the population in metropolitan areas and Siegel added, in urban areas and in suburbs, as well ( $8, \underline{9}$ ). Cuzzort projected the proportion of the population in SMSA's of 100,000 or more from 56 percent in 1950 to 60 or 66 percent in 1975. The percentage observed in 1960 was already 63 . The higher percentage, namely 66, looks somewhat more likely, therefore. Applied to the total population projections already cited, this yields a population of roughly 150 million in the principal metropolitan areas only a dozen years ahead. In a recent paper, Beale
has speculated about the future growth of the rural population (10). By subtraction, the projected urban population would constitute about 74 percent of the total in 1970 and 78 percent in 1980, as compared with 70 percent in 1960.

There is little doubt that these kinds of population concentrations are going to persist for several decades, partly because of the continuing decline in the number of families dependent on agriculture or mining. What is perhaps more problematical is whether the flight to the suburbs will be slowed down or even reversed, and people will be more attracted by the conveniences and amenities of the city proper. Already, some observers profess to see signs of a slackening of the centrifugal movement (11). These straws in the wind seem to have had very little impact on the statistics, however. One may have to wait until the next census to see whether big cities have recovered their losses of the 1950's or whether the decentralization pattern that was most pronounced in large metropolitan areas of the Northeast will spread to other regions and to smaller SMSA's.

Schnore expects commuting in 1975 to be characterized by a greater amount of lateral movement around the city, further decentralization of population, even longer work-trips, and more use of the private automobile (12). Writing in the same symposium, Hitchcock of the Bureau of Public Roads projected motor-vehicle registrations and highway travel to 1975 (13). In comparison with the 1960 figures that have since become available, these projections imply considerably higher rates of increase for vehicle registrations and highway travel over the 15 -year period than those projected for population. These relative growth rates are, of course, in line with past trends. Moreover, most projections assume the continuation of past trends. One of the great values of projections, however, is to give leaders an opportunity to see the indicated results, to compare these results with a preferred set of attainable living conditions, and to make necessary plans or suggestions for changing the trends. There may be differences about national goals, but there is agreement on the need for better data for plotting the course and for understanding the complex cause-and-effect relationships that were mentioned at the beginning of this paper.

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[^0]:    Paper sponsored by Special Committee on Urban Transportation Research.

[^1]:    ${ }^{\text {a }}$ Adapted from (I) by permission of authors.

[^2]:    a Source: U.S. Bureau of the Census, "1960 Census of Population." Series PC(1)-1A, Table 5.
    ${ }^{\text {chere were } 5,445 \text { places of } 2,500 \text { or more. }}$
    There were 4,307 places of 2,500 or more.

