# The Eighteenth Decennial Census of the United States 

## Census of Population: 1960

## Volume I CHARACTERISTICS OF THE POPULATION

Number of Inhabitants, General Population Characteristics, General Social and Economic Characteristics, and Detailed Characteristics

## Part 13 HAWAII

Prepared under the supervision of Howard G. Brunsman Chief, Population Division

USS. DEPARTMENT OF COMMERCE Luther H. Hodges, Secretary BUREAU OF THE CENSUS

Richard M. Scammony, Director (from May 1, 1961)
Robert W. Burgess, Director (to March 3, 1961)

# U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS 

RICHARD M. SCAMMON, Director

A. Ross Ecxler, Deputy Director<br>Howard C. Griever, Assistant Director<br>Comban Taeuber, Assistamt Director<br>Morese H. Hansen, Assistant Director for Research and Development<br>Canrles B. Lawrencre, Je., Assistant Director for Operations<br>Walter L. Kehreen, Assistant Director for Administration<br>Calvert L. Dedrick, Cbief, International Statistical Programs Office<br>Conrad Shamel, Acting Public Information Officer<br>Populatioa Division-<br>Howard G. Bruxbmax, Cbiff<br>Hzwer S. Snivocx, Jr., Asistant Chiof (Program Depelopment)<br>Dand L. Kaplan, Asistant Cbief (Metbods Developmenr)<br>Pavi C. Guocx, Assistans Chiof (Drmographic and Sacial Statistics Programs)<br>Meneix \$. Wericman, Asoistamt Chiff (Ecomomic Statistics Programs)<br>Demographaic Operations Division-Mortor A. Meyre, Cbiof<br>Filld Division-Jewnasom D. McPirn, Cbiof<br>Geography Division-Wrilua T. Fat, Cbiff<br>Statistical Methods Division-Jonspa Srawnero, Chisf

Library of Congress Card Number: A61-9570

The fow chapters of tables in this report were originally published in the $\mathrm{PC}(1)-\mathrm{A}, \mathrm{B}, \mathrm{C}$, and D final reports for this State.
SUGGESTED CITATION
U.S. Marcau of the Census. U.S. Census of Population: 1960.
Vol. I, Characturstics of the Population.
Part 13, Hawaii.
U.S. Governmeat Printing Office, Washington, D.C., 1963.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. ar any of the Field Offices of the Department of Commerce - Price $\$ 3.25$.

## PREFACE

This report presents statistics from the 1960 Census of Population on the number of inhabitants and the characteristics of the popuLation of the State and of its constituent areas. Legal provision for this census, which was conducted as of April 1, 1960, was made in the Act of Congress of August 31, 1954 (amended August 1957) which codified Title 13, United States Code. Comparable statistics from earlier censuses are also presented in this report.

The major portion of the information compiled from the 1960 Census of Population is contained in Volume I, Characteristics of the Population. A description of the other final reports of the 1960 Population Census appears on page IV. Volume I, of which this report is a part, consists of Part A and the 57 numbered parts listed on page IV. The parts for the United States, each of the 50 States, the District of Columbia, and Puerto Rico are bound in 53 individual books; the 4 parts for Guam, the Virgin Islands of the United States, American Samoa, and the Canal Zone are bound in a single book.

The detailed tables presented in each numbered part of Volume I were originally published in four separate reporta. Those reports (which correspond to chapters A, B, C, and D in this book) were identified by the following series desiguations and titles: PC(1)-A, Number of Inhabitants; PC(1)-B, General Population Characteristics; PC(1)-C, General Social and Economic Characteristics; and PC(1)-D, Detailed Characteristics. (For Guam, Virgin Islands, American Samoa, and Canal Zone, the material normally contained in the PC(1)-B, C, and D reports was included in $\mathrm{PC}(1)-\mathrm{B}$.)

Part A of Volume I is a compendium of the 57 series PC(1)-A reports. It presents in a single book, for library and other reference use, the 1960 Census population counts for States and their component areas.

## ACKNOWLEDGMENTS

A large number of persons participated in the various activities of the 1960 Census of Population. Primary responsibilities were exercised by many of the persons listed on the preceding page. Within the Population, Demographic Operations, Field, Geography, and Statistical Methods Divibions, most of the staff members worked on the program.

This report was prepared under the supervision of Howard G. Brunsman, Chief, Population Division, and Henry S. Shryock, Jr., David L. Kaplan, and Paul C. Glick, Assistant Chiefs, with the assistance of Sigmund Schor (Systems Coordinator to January 1962). The following members of the Population Division also had a major role in planning the content of this report: Henry D. Sheldon, Chief, Tobia Bressler, Charles P. Brinkman, Elizabeth A. Larmon, Gordon F. Sutton, Melvin Zelnik, and Denis F. Johnston of the Demographic Statistics Branch; Charles B. Nam, Chief, Education and Social Stratification Statistics Branch; Wilson H. Grabill, Chief, John C. Beresford, David M. Heer, and Robert Parke, Jr., of the Family and Fertility Statistics Branch; Stanley Greene, Chief, Stuart H. Garfinkle (Chief to October 1961), William J. Milligan, Miles A. Abelson, Arthur Podolsky, and G. Marie Dodd of the Economic Statistics Branch; and James C. Byrnes, Chief, Selma F. Goldsmith (Chief to April 1962), and Arno I. Winard of the Consumer Income and Expenditures Statistics Branch. Technical editorial work was performed by Mildred M. Russell, Chief, Publications Branch, assisted by Leah $\mathbf{S}$. Anderson.

Important contributions were made by Morton A. Meyer, Chief, Glen S. Taylor (Chief to June 1961), E. Richard Bourdon, Richard A. Hornseth, Morris Gorinson, Willard P. Hess, Patience Lauriat, Betty Mitchell, Catherine Neafsey, Richard J. Rice, Leo Solomon, and Florence Wright of the Demographic Operations Division in the processing and compilation of the statisties; Jefferson D. McPike, Chief, Robert B. Voight (Chief to July 1960), Ivan Munro, Paul R. Squires, and George K. Klink of the Field Division in the collection of the information; William T. Fay, Chief, Robert C. Klove, and Robert L. Hagan of the Geography Division in the delineation of apecial types of urban territory and other geographic work; Joseph Steinberg, Chief, Robert Hanson, and Herman Fasteau of the Statistical Methods Division in the planning of sampling and quality control procedures; and by William N. Hurwitz, Chief, Statistical Research Division, and Harold Nisselson, Jack Silver, Leon Gilford, and William H. Cook in the formulation of enumeration procedures.

Important contributions were also made by Lowell T. Galt and Herman P. Miller of the Office of the Director, by A. W. von Struve, Public Information Officer until his death in October 1962, and by the staffs of the Administrative Service Division, Everett H. Burke, Chief; Budget and Management Division, Charles H. Alexander, Chief; Jeffersonville Census Operations Office, Robert D. Krook, Chief; Data Processing Systems Division, Robert F. Drury, Chief; and Personnel Division, James P. Taff, Chief. Robert H. Brooks of the Administrative Service Division, assisted by John F. Lanham, was responsible for the 1960 Census printing arrangements.

To help carry out the 1960 Census most efficiently and effectively as well as to help maximize the usefulness of the results, a number of special advisory groups were organized in 1950 when the planning work was begun. One group established by the Census Bureau was the Technical Advisory Committee for the 1960 Population Census, which consisted of 19 experts in various phases of demography selected in their individual capacities. For their long and careful work on the program, special acknowledgment is made to the members of this Committee: Philip M. Hauser (chairman), Donald J. Bogue, Dorothy S. Brady, John D. Durand, John K. Folger, Maurice I. Gershenson, Harold Goldstein, Robert D. Grove, Margaret Jarman Hagood, Peter Henle, William Hodgkinson, Jr., Stanley Lebergott, Frank W. Notestein, Gladys L. Palmer, Charles B. Reeder, Calvin F. Schmid, Mortimer Spiegelman, Dorothy Swaine Thomas, and P. K. Whelpton. To supplement the views of this Committee with those of a less technically oriented but more broadly based group, the Census Bureau established the Council of Population and Housing Census Users (with Ralph J. Watkins, then of the Brookings Institution, as chairman), consisting of representatives of approximately 70 professional and public organizations whose memberships include many users of decennial census statistics. The U.S. Bureau of the Budget established the Federal Agency Population and Housing Census Council (with Peyton Stapp and Margaret E. Martin as successive chairmen) to coordinate the interests of the more than 30 Federal agencies which make substantial use of the decennial census material. In addition, the Population Association of America established a number of work groups to explore in detail the data needs for specific subjects; and the Census Advisory Committee of the American Statistical Association participated in certain phases of the 1960 Census as part of its continuing review of all Bureau programs. The guidance and counsel provided by all these groups, as well as by many other organizations and individuals, were invaluable in developing and carrying through the program.

## FINAL REPORTS OF THE 1960 CENSUS OF POPULATION

The final reportin of the 1900 Population Census are arranged in four volumes and a joint Population-Housing series of census tract rewarts. Ter Volumes II, III, and IV, which remain to be published as of this date, the scheduled content is subject to change. The 1960 Pepalation Cenoss publeation program also ineludes preliminary, advance, and supplementary reports, certain evaluation, procedural, and admindatentive reporta, and graphic summaries. After publication, copies of all reports are available for examination or purchase at may UR Department of Commerce Field Office. For reports not yet issued, more detailed descriptions of content than those given below the chand frox the Cluef, Population Division, Bureau of the Census, Washington 25, D.C.

Certatian type of umblimed statictice are available for the cost of preparing a copy of the data. Also, under certain conditions, mpecial tabatations of the 1960 Censur data can be prepared on a reimbursable basis. In addition, there are available for purchase magnetic taper and puneheards antaining 1960 Census information on the characteristics of a one-in-a-thousand and a one-in-ten-thousand sample of the population of the United States. Confidentiality of the information, as required by law, has been maintained by the omission of cortanu ideatifiention iteme. Further information about any of these materials can be obtained by writing to the Chief, Population Division, Burest of the Cenwas.

Voume $I_{.}$Chanecteritica of the Population. See description on page III.
Volume II (Series $\operatorname{PC}(4)$ reperta), Subject Reporta. Each report in this volume will concentrate on a particular subject. Detailed information and cresereltionships will generally be provided on a national and regional level; in a few reports data for States or standard suatrubelitan statiatical arear will also be shown. Among the characteristics to be covered are national origin and race, fertility, families, mand motas, migration, education, employment, unemployment, occupation, industry, and income. There will also be a report on the gergaphe distributive and characterieties of the institutional population.

Townime III (Series PC(S) reports). Selected Area Reports. This volume will contain three reports presenting, respectively, selected charmeternatica of the popalation (1) for State economic areas, and (2) according to the size of place where the individual resided, and (a) nochal mud exinmar characteristies of Americans overseas.

Voun IV. Summary and Analytical Report. This report will present an analytical review of the results of the 1960 Census of Popalntion for each major field.

Series PHC( 1 ). Census Tract Reports. These reports present information on both population and housing subjects. There is one report for each of 180 tracted areas in thated Daited and Puerto Rico. The population subjects include age, race, marital status, country of erthin of the foreign atock, rehationship to head of household, school enrollment, years of school completed, place of residence in 1955, erapluyment gtatus, otcupation group, hadastry group, place of work, means of transportation to work, and income of families, as well at ertain characteristies of the nowwhite population in selected tracts. The housing subjects include tenure, color of head of household, vatamy atatus, condition and plumbing facilitien, number of rooms, number of bathrooms, number of housing units in structure, year struatare built, besement, heating equipment, number of persons in unit, persons per room, year household head moved into unit, automatile avalable, value of property, and grows and contract rent, as well as certain characteristics of housing units with nonwhite household head tor selevted tractan. In addition, for meeted traets these reports contain data on certain population and housing subjects for persons of Puerto wican burth or parentage and for white permons with Spanish surname. (This series is the same as the tract reports included in the publicatida program for the 1060 Cewors of Howing.)

## VOLUME I

This volume consists of the parts listed below:

|  | 14. TAlho | 30. Nevada | 46. Utah |
| :---: | :---: | :---: | :---: |
| (all $\mathrm{maxam}_{\text {c }}$ ) | 15. MLIMais | 31. New Hampshtre | 47. Vermont |
|  | 16. Indiana | 32. New Jersey | 48. Virginia |
| 2. Alubunna | 17. Iowna | 33. New Mexico | 49. Washington |
|  | 18. Kıandat | 34. New York | 50. West Virginia |
| 4. Arimum | 10. Kentucky | 35. North Carolina | 51. Wisconsin |
| 5. Arlaway | 420. Leminiana | 30. North Dakota | 52. Wyoming |
|  | ${ }^{2} 1$. Maine | 37. Ohio | 53. Puerto Rico |
| 7. Cuxacado | 22 Maryland | 38. Oklahoma | 54-57. Outlying areas |
| 3. Gemasectiont | 248. Mansachusetts | 39. Oregon | (bound together) |
|  | 24. Michigan | 40. Pennsylvania | 54. Guam |
|  | 26. Minizestata | 41. Rhode Island | 55. Virgin Islands of the |
| 11. FMsrat | 27. M1stouri | 43. South Dakota | 56. United States |
| 12. Gexight | gx. Montana | 44. Tennessae | 57. Canal Zone |
|  | 24. Nebrama | 45. Teras | 57. Canal zone |

## CONTENTS

## INTRODUCTION



## TABLES AND MAPS

[See list preceding each chapter]
Chapter A. Number of inhabitants (Tables 1 to 12).
Chapter B. General population characteristics (Tables 13 to $31, \mathrm{~B}-1$ and B-2).
Chapter C. General social and economic characteristics (Tables 32 to 93 and $\mathrm{C}-1$ to $\mathrm{C}-3$ ).
Chapter D. Detailed characteristics (Tables 94 to 146 and D-1).

## Corrections of errors discovered after the individual chapters

 were originally published are listed on page xuvir.
## SUBIECTS INCLUDED IN THIS PUBLICATION, BY TYPE OF AREA AND TABLE NUMBER






## SUBJECTS INCLUDED IN THIS PUBLICATION, BY TYPE OF AREA AND TABLE NUMBER-Con.



## Note:

a. Data on population counts hor the various areas of the state are shown in chapter A.
b. Data on age, color or race, marital status, and household relationship (or number of honseholds) are presented far urban phaces of 2,500 to 10,000in table 22; for places of 1,000 to 2,500 In tables 23 and 24; and for minor civi divisions (or census county divisions) in tables 25 and 26 ,
c. Data on age and race of the household population are presented for selected urban places and counties in table 31
d. Data on nativity and parentage, years of school completed, employment status, occupation, industry, and family income are presented for phaces of 2,600 to 10,000 in table 81 .
e. Data on age by nativity and race are presented for cities of 1000000 or more in table $\%$.
f. Data on single years of age for persons 5 to 24 years old are presented for cities of 250,000 or more in table 101.
g. Data on place or birth, residence in 1955 , year of school in which enrolled, and years of school completed (each cross-clasififed by age) are presented for cities of 250,000 or
h. Data on selected charaeteristies of the rural population are presented for counties in tables 29,30 , and 91 ; and of the rural-farm population for selected countles in tables 92 and 93.

1. Data on selected charseteristics are presented by size of place in table 70 and by metropolitan-nommetrophitan residence in table 71.
2. Summary statistics on characteristics of the population are presented for selected areas of the State in tables 13 and 32 to 86

Data on nonresponse rates are presented in the appendix tables in chapters $\mathrm{B}, \mathrm{C}$, and D ,
Separate data for nonwhites in those areas with 25,000 or more nonwhites appear in tables markod with an asterisk. For the urban, rural-nonfarm, and rural-farm parts of States, such data are shown only for the south.
1 Data in tables $00,118,119,121,127$, and 131 are for SMSA's of 100,000 or more.
Outside New England States, and excluding counties which are coestensive with an
sM8A.
Urban by size of place; rural not by larm-nondarm residence.

Includes data by color.
Data for nonwhites in areas with 1,000 or more noawhite persons.
${ }^{\circ}$ Median income of lamilles and unrelated individuals combined.

## HAWAII

1960 Census of Population - Graphic Summary





[^0]



# Characteristics of the Population 

## GENERAL

This report presents the major portion of the information complled from the 1960 Census of Population for this State. It contains the four chapters, $A, B, C$, and $D$, previously published as paper-bound reports in the $\mathrm{PC}(1)-\mathrm{A}, \mathrm{PC}(1)-\mathrm{B}, \mathrm{PC}(1)-\mathrm{C}$, and PC(1)-D series of the 1960 Census of Population. The statistics in chapters $A$ and $B$ are from the complete count whereas those in chapters $C$ and $D$ are from the 25 -percent sample of the population.

Chapter A, "Number of Inhabitants," comprises tables 1 to 12 and furnishes statistics on the number of persons in the State and its counties or comparable areas. In addition, data are presented for minor civil divisions (townships, New England towns, etc.), or census county divisions, urban places, incorporated places (cities, boroughs, villages, etc.), urbanized areas, standard metropolitan statistical areas (SMSA's) and for the population of the State and its counties or comparable areas classified by urban-rural residence.

Chapter B, "General Population Characteristics," comprises tables 13 to 31 and presents the basic demographic statistics on age, sex, race, relationship to head of household, and marital status. The amount of detail presented is generally greater for larger places than for smaller ones, and data from earlier censuses are usually only included for larger areas. Maximum detail is shown for the State and its urban and rural parts and for SMSA's, urbanized areas, urban places of 10,000 or more, and countles. Somewhat less detail is shown for urban places of 2,500 to 10,000 , for rural parts of counties, and for the rural population of counties outside places of 1,000 to 2,500 . The least amount of detail is shown for places of 1,000 to 2,500 and for minor civil divisions or census county divisions.

Chapter C, "General Social and Economic Characteristics," comprises tables 32 to 83 and presents inventory statistics on social and economic characteristics. The characteristics shown are farm-nonfarm residence, nativity and parentage, State of birth of the native population, country of origin of the foreign stock, mother tongue of the foreign born, residence in 1955, year moved into present house, school enrollment, year and type of school (public or private) in which enrolled, years of school completed, veteran status of civilian males, married couples and families, number of children ever born, employment status, weeks worked in 1050, class of worker, occupation group, industry group, place of work, means of transportation to work, income in 1959 of persons and of families and unrelated individuals, earnings in 1950, and type of income in 1959.

Most of the 1960 statistics shown in chapter $C$ for the total population in the State and its urban and rural parts are also shown separately for the white and nonwhite population in those areas. Moreover, statistics on most of the subjects are shown for the nonwhite population In each SMSA, urbanized area, urban place of 10,000 or more, and county with 1,000 or more nonwhite persons. In addition, statistics on age. sex, and honsehold relationship are shown for counties with a rural-farm nonwhite
population of 400 or more persons. Statistics on country of origin of the foreign stock in areas within the State are shown only where there were 1,000 persons or more in this category. Likewise, statistics on mother tongue of foreign-born persons in areas below the State level are shown only where there were 1,000 or more persons in this category. As in chapter $B$, the amount of detail presented is greater for the areas with a larger population than areas with a smaller population.

Chapter D, "Detailed Characteristics," comprises tables 94 to 146, and completes the presentation of information for this State in Volume I. It shows detailed categories and cross-classifications (generally by age) on the social and economic characteristics of the inhabitants of this State. This chapter contains data on all the subjects treated in chapter $C$, except mother tongue of the foreign born and year moved into present house. It also includes data on whether married more than once, hours worked, and year last worked.

Although information on the flve population items-age, sex, race, relationship to head of household, and marital statuswas collected on a complete-count basis, the data on these items shown in chapters $C$ and $D$ are based only on persons in the sample.

Because of the amount of detail and cross-classification in the tables, the presentation in chapter D is restricted to the larger areas, namely, States, the urban and rural parts of States, the larger counties, SMSA's, and cities. Most of the data for counties, SMSA's, and cities in this chapter are for areas of 250,000 or more although a few tabulations are presented for SMSA's and cities of 100,000 or more. In general, data for the nonwhite population are shown separately for any of these areas containing 25,000 nonwhite persons or more. Historical comparisons are limited to 1950 data and are presented only for the State as a whole.

More detailed cross-classifications of many of these characteristics will be presented in the subject reports of Volume II. In some cases, a few tables for Staten and other large areas will also be included.

A list of the subjects included in this report, showing the type of area and the tables in which they appear, is presented on pages VI and VII.

Maps of this State, showing the composition of urbanized areas and county subdivisions, are presented in chapter A. Also, a map of the State indicating counties, places of 25,000 or more, and SMSA's is presented in chapters A, B, and C.

In general, medians are computed from the class intervals shown in the tables in which they appear. Hence, medians shown in one table may differ from the corresponding medians in other tables where a different number of class intervals is shown. The medians shown with the distributions by single years of age which appear in tables 94 and 95 , however, are based on 5-year age groups.

## COLLECTON AND FPOCESSING PROCEDURES


 then maxerathen of the tetal permation. The perpalation in the








 Tha maxtratima of the Ack requested that one or more of the namber witer om the form the andwers to all the quentions for
期

 rallacted the cowneterownt intornation and also asked the samphe fathinns at the time of his Fimit; thete are referred to below

 hanted the whemetement information and also left with each

 swerne ; the ate areaty are referred to below as the "two stage" srad. The partial whatitution of selfenumeration for the traGithonal divect interview had mrobably affected the nature and cxtent errorm in the 1900 sitationticu relative to those in the
 newanith of the natrire and efects of thig and other innovations in then censu pocedures will be given in later reports.

The owamornterf hay hected and copited the answera from the

 mathaly lenkned for electronle procemsing. Later, at the cen-
 cerked nad all of the information was mincoflmed. The micro-
 tranmernued by PosDIC (Flim Optical Sending Device for Input to Conayutar) inta eoded algnale on magnetic tape. Tus tape,
 (uncmanat to produce the tables.
Tha extathons of tereas which are glven below are consistent


 thene instretisum exatly. "The partial ase of self-enumeration



 watw, axd wowe of their mrron of andergtanding and reporting have wodmubtedy gen undetected. A few types of known or







 weration. It buskevea that thin beavy rellance on electronic




## CURRENT POPULATION SURVEY

Data on many of the subjects covered in this report are collected monthly or annually for the United States as a whole by the Bureau of the Census through its Current Population Survey (OPS). This nationwide survey, covering a sample of about 35,000 interviewed households, provides monthly data on employment which are published by the Bureau of Labor Statistics. The CPS also provides data on income which are published annually by the Bureau of the Census (in Series P-60 reports) and data on migration, education, familles, fertility, and other subjects insued annually or less frequently (in Series $P-20$ reports). This survey provides more limited statistics for regions, but statisties for the State or smaller areas, which are featured in the present report, have not been tabulated from the CPS.

Certain differences exist between the levels of the national data from the CPS and from the 1960 and 1950 Censuses. The reasons for the differences include the more extensive training, control, and experience of the CPS enumerators than of the census enumerators; the use of hourly rate payments in the CPS and of piece-rate payments in the census; differences in the extent to which self-enumeration is used; differences in the question wording on some of the items, in the time of year to which the data armly (as for the annual school enrollment figures collected in the October CPS), and in coverage (the CPS covering only the clyilian noninstitutional population in months other than March) ; enumeration of unmarried college students in the CPS at their parental home but in the census at their residence while attending college; differences in the methods used to process the original data into statistical tables; differences in the weighting procedure and in noninterview rates; and differences between the sampling variability in the CPS and in the 25 -percent sample in the census. The differences for some of the specific population characteristics are discussed below.

## COMPARABILITY OF COMPLETE-COUNT AND SAMPLE DATA

For the characteristics covered on a complete-count basis in chapter $B$ (i.e., sex, race, age, marital status, household relationship, and related items), chapters $C$ and $D$ present comparable 25 -percent sample statistics. A comparison of selected completecount and sample statistics is given in table A. The reasons for the differences (which result from processing differences and sampling) are discussed in Part 1 of this volume.

## SOURCES OF HISTORICAL DATA

Most of the statistics for 1950 shown in chapters $C$ and $D$ are based on a 20 -percent sample. The following are exceptions. The figures for foreign-born persons, in the distribution of the foreign white stock by country of origin, are based on a complete count (whereas the figures on native persons of foreign or mixed parentage are based on the 20 -percent sample). Statistics for families and those for married couples without their own households living with nonrelatives are based on Sample F. (Income data for families, however, are based on the 20 -percent sample.) Fertility statistics for women ever married 15 to 44 years old are based on Sample C. Nationally, Samples $F$ and $C$ covered about 2.4 percent of the families and women 15 years old and over, respectively. Statistics for 1950 on unrelated individuals in table 106 are partially based on Sample $F$; statistics on employment status (excent labor force status by age), occupation, industry, and class of worker are from complete counts. For Alaska, all 1050 figures are based on a complete count. For Hawall, 1950 figures on the following subjects are also based on a complete count: State of birth of the native population, race and nativity, marital status, presence of spouse and whether married more than once, and relationship to head of household.

Statistics for 1940 are based on complete counts with the following exceptions. Those on the native population of foreign

Table A．－COMPARISON OF COMPLETE COUNT AND SAMPLIE DATA FOR SELECTED CHARACTERISTICS， FOR THE STATE，URBAN AND RURAL： 1960


| Subjeet | The Stase |  |  |  | Urben |  |  |  | maral |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | complete | Smmin | Hifferexe |  |  | 3 ama | piffereme |  |  | Sempate | puffereme |  |
|  |  |  | Wutber | Per－ |  |  | Mrimer | ${ }_{\text {Fer－}}$ |  |  | mamer | ${ }_{\substack{\text { Per－} \\ \text { vent }}}$ |
| 3EX |  |  |  |  |  |  |  |  |  |  |  |  |
| Total population．．．．． | 632,7710 | 6．3， 72 |  |  | 429302 | （n），$x^{2}$ |  |  | 14，红 | 148，827 |  |  |
| Male．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． | $\begin{aligned} & 388,177 \\ & 274,5993 \end{aligned}$ | $\begin{aligned} & 37,552 \\ & 244,2,27 \end{aligned}$ | $\frac{-21}{621}$ | －0．2 |  | $\begin{aligned} & 251,23 x \\ & 232,723 \end{aligned}$ | －47\％ | 0.2 | $\begin{aligned} & 8,4,58 \\ & 6,5,55 \end{aligned}$ | $\begin{aligned} & 8,2,36 \\ & 6,2,49 \end{aligned}$ | －144 | $\frac{. .8}{-0.2}$ |
| color med ace |  |  |  |  |  |  |  |  |  |  |  |  |
| Tatal，all nges．．．． | 632，772 | 63,782 |  | ．．． |  | 43， 42 | ．．． |  | ＋4， 812 | 144， $\mathrm{SLO}_{21}$ |  |  |
| Under 5 years．．．．．．．．．．．．．．．．．．．．．．．． | $\xrightarrow{80,972}$ | $\frac{80,931}{73,260}$ | ${ }^{29}$ |  | tex |  |  |  | 18， 712 | ${ }^{28,752}$ |  | 0.2 |
| 10 to y y years．．．．．．．．．．．．．．．．． | comb | 77， 6,400 | － 324 | －0．5 | ${ }^{54,9,9,159}$ | 56， 6 |  | －0， 2 |  | 114， 1854 | ${ }^{8}$ | $\because$ |
| $\frac{15}{15}$ tag 29 y years．．．．．．．．．．．．．． | ${ }_{5}^{54,82.2}$ |  | Ser | 1.1 | 40，2m | 40， 3 ， 7 | 323 | －0．8 | 4， 4 | 15，024 | $2{ }^{-12}$ | 1.1 |
| 25 to 29 yearsa．．．．．．．．．．．．．．．．． | 4， | ${ }_{3}$ | － | 20．4 |  | 3n， 3 | ${ }_{-21}^{-126}$ | －10．5 |  |  | － 314 | ${ }_{-0.3}^{-0.3}$ |
|  | 4，4， 9 | 48，032 | 3 | 0.2 | 38，m？ | 3 mex | 120.3 | 0. | 10，059 | 10，052 | ${ }_{-7}$ | －0．1 |
| 45 to to yemra．．．．．．．．．．．．．．．．． | － $4,2,258$ | 4， 4, | － | －0．3 | 3x， 3 |  | －88 | －0．2， |  | ${ }_{7,874}^{7,867}$ | ${ }^{216}$ | －2．2 |
|  | 33，485 | 3， 3,710 | －375 | －1．1 | 2t，077 | 25， 28 | －49， | －1．8 | 7，398 |  | 8 |  |
| 55 to 99 yearst．．．．．．．．．．．．．．．．． | 22，012 | 2，2， 809 | 97 |  | 1．1， |  | ${ }_{561}$ | 1． 3.5 |  | 6，497 |  | 1.3 |
|  | ${ }^{15,727}$ | 15，588 | －183 | －1．2 | ${ }^{112}$ | 31，594 | 11. | 3 | 4，2， | 3， 3 ， 38 | －295 |  |
| ${ }_{75}^{65}$ yoars enar aver．．．．．．．．．．．．．． | ${ }_{9}^{19,6575}$ | ${ }_{8,847}^{19,67}$ | － | －1．0 |  |  | －30．3 | －0．8 |  |  | －1558 | $\stackrel{-3,1}{-4.2}$ |
| Medran age．．．．．．．．．．．．．．yearra． | 4.3 | 24.3 | $\ldots$ | $\ldots$ | 24.8 | 84.7 | $\ldots$ | ．．． | 23.3 | 23.2 | ．．． | ．．． |
| White，all agear． | 202，230 | 202，391 | 102 | $\ldots$ | 159，202 | 159，29 | 29 | ． | 52，028 | 52，100 | 72 | 0.1 |
| ${ }_{\text {Under }} 5$ y yeers．．．．．．．．．．．．．．．．． | 25，7\％ | 25，928 | 1／4 | 0.7 | 12，ens | 19，000 | 201 | 1.1 | 6,865 | 6，\％ris | －27 | －0．4 |
|  | 215，692 | 20， <br> 16,737 <br> 18 | ${ }^{-1}$ | 8.6 | 12， 12,2008 |  | －6．4． | －0．4． | 3， 3,73 | 5， 4,181 | －65 | －1．3 |
| $\frac{15}{15}$ to to 19 y years．．．．．．．．．．．．．．． | 26， 17.124 | 17，372 | $\begin{array}{r}257 \\ \hline 13\end{array}$ | $1 \cdot$ | 41，377 | 11， 512 | 134 | 2.2 | 5,737 | 5，860 | 123 | 2.1 |
| 25 to 5 years．．．．．．．．．．．．．．．．．． | 17，40 | 17，337 | $-73$ | －0．4 | 28， | 52， | －150 | －1．8 |  | ${ }_{4}^{4,853}$ | $\stackrel{-5 x}{7}$ | $-0616$ |
| ${ }_{35}^{30}$ to to 34 year3．．．．．．．．．．．．．．．．． |  |  | ${ }_{-714}$ | －0．3 | 12， 2,57 | 12，210 | －79 | －0．6 | 3，4098 | 4，029 | 120 | 3.1 |
| $44^{4}$ to 44 yenra．．．．．．．．．．．．．．．．．． | 13，001 | 12，162 | 16 | 10： | 10， 10.42 | 15， | 130 | 1.3 | 3， 3,595 | 2，583 | ${ }_{24}$ | －4．80 |
| ${ }_{45}^{45}$ to 48.8 years．．．．．．．．．．．．．． | 9，566 | 9,517 | －47 | －0．5 | 7，218 | 7，632 |  | 0.2 | 1，764 | 1，685 | －63 |  |
|  | ${ }_{5}^{7,3 \times 5}$ | 7， 7 ， 043 | ${ }_{97}^{87}$ | －1．8 |  |  |  |  |  |  | 101 | 8．${ }^{8}$ |
| ${ }_{6}^{60}$ to 64 years．．．．．．．．．．．．． | 3，979 | 3，858 | －1／12 | －3．0 | 3，448 | 3，175 | －${ }_{\text {cte }}$ | －20 | ${ }_{738}$ | ${ }_{68} 8$ | －59 | －7．5 |
| ${ }_{75}{ }^{5}$ years and verer．．．．．．．．．．．．．． | 3， $2,2,24$ | 2， 2,938 | ${ }_{-1}^{-142}$ | －in： 0 | 4， 1,814 | 1，6，67 | －-184 | －10．0 | ${ }_{3} 93$ |  | －60 | －15．3 |
| Meltan age．．．．．．．．．．．．years．． | 24，1 | 24.0 | $\ldots$ | ．．． | 25.1 | 25.0 | ．．． | $\ldots$ | 22， 3 | 22.2 | ．．． | ．．． |
| Nomuhite，all ares．．． | 430， 50.2 | 430，431 | －101 |  | 333，759 | 33， 720 | 29 |  | 96，783 | 96，721 | 72 | －0．1 |
| Under 5 yenrs，．．．．．．．．．．．．．． | 55，208 | 55，003 | －14，5 | －0．3 | 4，3，35 | 4，2，149 | －200， | 0.5 | 31，453 | 11，914 | 61 | 0.5 |
| it to to years．．．．．．．．．．．．．．．．．．．．．．．． |  | 57，792 | 337 -12 | 0．7 |  |  | 310 | 0.8 | 11，${ }_{103}$ |  | －738 | － $\begin{aligned} & 0.6 \\ & -1.6\end{aligned}$ |
| 15 to 19 g years．．．．．．．．．．．．．．．．．． | 37，707 | 38，028 | 318 | 0.1 | 2a， |  | 3989 | 8.7 | ${ }_{9} 9,503$ |  | －262 |  |
| ${ }_{25} 5$ to to 29 yearsanal．．．．．．．．．．．．． |  |  | －279 | ${ }^{-1.1}$ | 19，577 | 19，${ }^{1924}$ | －2938 | 1.5 | 4，974， | 4，928 | ${ }_{77}^{14}$ | 8.3 |
| 30 to 344 years．．．．．．．．．．．．．．．．．． | 32， 1218 | 32，873 | 55 | 0.2 | 26， 3 ， | 26，320 | 哏 | 0.7 | 6,135 | 6，0， | $-127$ | $-2.1$ |
| 40 to to 39 years．．．．．．．．．．．．．．．．． | 32， 72727 | 3， | －${ }^{-27}$ | －0．7 |  |  | ${ }^{-127}$ | ${ }_{-1.2}$ | $0_{0}^{6,189}$ | － 8,1128 | $\stackrel{-18}{-18}$ | $-1.1$ |
| 45 to 49 yerra．．．．．．．．．．．．．．． |  |  | －3t | －1．4． |  |  |  |  |  |  |  |  |
|  | 18，930 | 19，291 | 31 | 18 | 13，720 | 14，0at | 375 | 28 | 5 | 5，200 | ${ }_{-13}$ | －0．3 |
| 55 to 59 years．．．．．．．．．．．．．．．． | 315，662 | 17，${ }_{21}$ | 720 | 4.8 |  |  | 455 176 | 3 | \％ 4,542 | 5， | ${ }_{-245}$ | －6．9 |
|  | 14，5532 | 24，504 | 248 | ${ }_{-0.1}^{0.3}$ | 3， | 10，278 | 2 | 0.2 | 4,196 | 4，12x | －70 | ${ }_{-1.7}$ |
| 75 yeare and over．．．．．．．．．．．． | 7，2931 | $t, 3 t ?$ | $42: 4$ | －5．8 | 5，195 | 4，8it． | 379 | －7．3 | 2，096 | 2，091 | 4 | －2．1 |
| Medan age．．．．．．．．．．．．yerars．． | 24.6 | 4.6 | ．．． | $\cdots$ | 4.5 | 5.5 | $\ldots$ | $\ldots$ | 85，1 | 8.0 | ．． |  |
| mifthe etatis |  |  |  |  |  |  |  |  |  |  |  |  |
| Totai， 14 and over．． | 426，499 | 427，495 | $\stackrel{\square}{6}$ |  | 125，773 | 325，274 | 1 | ．． | 101，215 | 101，2a1 | 5 |  |
| singie．．．． |  |  | －1，173 |  |  |  | 9 |  |  |  |  |  |
| Married．．．．．．．．． | 26；${ }^{2} \times 19$ | 263，722 | 773 | 0.3 | 205，272 | 205，682 | 611 | 0.3 | 57，678 | 57，6mid |  | 0.3 |
| widwarate．．．．．．．．．．．．．．．．．．．． |  | 2i， 2,610 | ．819 | －3．0． | th， | ditat | － | ${ }_{-0.1}{ }^{-1.3}$ |  | 518 | 4 | －9．3 |
| divareet．．．．．．．．．．．．．．．．．．．．．．．． | 12，025 | 12，615 | 5\％2 | 4.9 | 9， 0 \％ | 10，40 | 4， | 4.6 | 2，056 | \％， | ${ }_{127}$ | 6，2 |
| hlamtiowhtp |  |  |  |  |  |  |  |  |  |  |  |  |
| Frguition in hayeetciss．．．．．． | 592， 607 | 597，477 | 0 | ． 1 | 41，764 | $4{ }^{4}$ | 524 | 3.1 | 231，0，5 | 212，7\％ | 4.2 | 0.2 |
|  | ${ }_{1}$ | 23， | m | 0.7 |  | 120， | $\cdots$ | 0.6 | 2，3，47 | 37，6093 | 3 m | 1． 0 |
| Primary indidy wus1．．．．．．．． | 23，589 | 22，647 | －8tit | －3．8 | 17， 7 ch | 2t，\％ | －6， | 3.7 | 8，528 | 6,23 | －262 | －0 |
| child unier 2 z of heali．．．．．： | 21， |  | ${ }^{8,74}$ | $2 \cdot$ | 17\％， |  | ，1，47， | 3.6 | ${ }_{512}^{2,565}$ |  | 退 | ${ }_{1.3}$ |
| Other relative if heati．．．．． | 87， 588 | 87，${ }^{8773}$ | － | － 5 | 70，14 | 70，tim | 1， 1 b | －10．t | 17，7／4 | 17，207 | － 8 3 | －${ }^{-3.2}$ |
|  | x， | 13，3，3， | $\stackrel{-1,93}{ }$ | － | \％， | 2i，7（\％） | － 71 | $\cdots$ | 17，2，46 | 77， 7 ， 3 \％ | －11 | －0．6 |

or
 bern whita me bused on a bpercent wampa Fertility matistics
 this mumbe coveral abuat 5.3 porcerst of the women.




 15: Vol. IV, Gpodul Roports, Part 2, chapter A, General Charaeterimide of ramilise ath Part 5C, Fertility.)

## CHANGES IN DEFINITIONS

The definitions of the major concepts used in the 1960 Census of Ropulation are given below. A few of the definitions used in 1960 differ from those used in 1950. These changes were made after consultation with users of census data and were made in order to improve the statistics, even though it was recognized that comparability would be affected. In some cases the new definitions were tested by the Bureau of the Census in connection with its Current Population Survey and census pretests, and, where feasible, measures of the impact of the change on the statistics were developed.

## AREA CLASSIFICATIONS

## USUAL PLACR OF Residence

Im ateorimme with ex man practice dating buet to 1790 , each

 haseally constrwed to mean the phace where he lives and sleeps

 why haveduble differencen for a few areas, in the vast majority cof cases the we of thene diftereat man of clamsification would


In the appleatima of this raie, persoms were not always counted sut residexts of the places in which they happened to be found
 wh mallar piaces were mumerated oa the night of March 31,
 anlochted thentr howes In adition, information on persons away froma thelr nawn phee of residence was obtulned from other numbery of their fanalles, landladies, ete. If an entire fanally whe expened to be away daring the whole period of the Cmaneration, information on the samily was obtained from nelghbunh A whtching proems wes nead to ellminate duplicate reports for a persom who reportex for himself while away from his usual reshlume and who walso reported at his usual residence by


Perwows the Armed Porces fuartered on military installathome were entamerted as residents of the States, counties, and connty whilvinhoms which their installations were located. Henober of thetr families were eammerated where they actually
 (f) the cormwities In which they were rewding while attending collene The crews of vostels of the U.S. Navy and of the U.S. merchut mantue harbers of the United stiates were counted
 berthed oan Apil 1, 100 Inmatem inetitutions, who ordinarily Wve there for long pricds of time, were counted as inhabitants of the phace in whth the institutich was located, whereas patients
 thiow, were comated it, or alloeated to, their homes, Persons whom

 cunter. resophtew mad amanstic eenter, or other similar place on



Ambrican what wer uvereas for an extended period (in the Armud Fersus, warting at civilun jobs, studying in forelgn


 Whe wew wowented at their wal remdence on the basis of
 Wighumary

## URBAN-RURAL RESIDENCE

The population of the State by urban-rural residence is shown in table 1 and for counties, or comparable areas, in table 6.

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 1960 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 (see section below) ; (c) towns in New England and townships in New Jersey and Pennsylvania which contain no incorporated municipalities as subdivisions and have elther 25,000 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) countles in States other than the New England States, New Jersey, and Pennsylvania 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 (see section on "Places").

This definition of arban is substantially the same as that used in 1950; the major difference between 1950 and 1960 is the designation in 1960 of urban towns in New England and of urban townships in New Jersey and Pennsylvania. The effect on population classification arising from this change was actually small because, in 1950 , most of the population living in such places was classifled as urban by virtue of residence in an urbanized area or in an unincorporated urban place. (See sections below.) In the definition used prior to 1950 , the urban population comprised all persons living in incorporated places of 2,500 inhabitants or more and areas (usually minor civil divisions) classified as urban under somewhat different special rules relating to population size and density. In all definitions, the population not classified as urban constitutes the rural population. In the tables presentlig the population by urban-rural residence, the "current" urban defintion refers to the population classified in accordance with the deflnitions used in 1950 and 1960. The "previous" urban definition refers to the definition used prior to 1950 .

The most important component of the urban territory in both defintions is the group of incorporated places having 2,500 inhabitants or more. A definition of urban territory restricted to such places, however, excludes a number of equally large and densely settled places merely because they are not incorporated places. Under the definition used previous to 1850, an effort was made to aroid some of the more obvious omissions by the inclusion of selected places which were classified as urban under special rules. Even with these rules, however, many large and closely built-up places were excluded from the urban territory.

To improve its measure of urban population, the Bureau of the Census adopted, in 1050, the concept of the urbanized area
and defined the larger unincorporated places as urban. All the population residing in the urban-finge areas and in unincor. porated places of 2,500 or more is classified as urban, according to the current deflnition. The urban towne, townships, and counties, as defined for the 1060 Census, are somewhat similar in concept to the minor civil divisions classified as urban under special rules in 1940 and 1930.

For the convenience of those interested in the historical trend of the urban and rural population, the 1950 and 1960 population fgures are shown on the basis of both the "current" defnition and the "previous" definition. Although the Bureau of the Census had employed other defnitions of "urban" in prior years, the urban and rural population figures published here as according to the "previous" definition have been revised to present a substantially consistent series.

## FARM-NONFARM RESIDENCE

## Definitions

The rural popnlation is subdivided into the rural-farm population, which comprises all rural residents living on farms, and the rural-nonfarm population, which comprises the remaining rural population. In the 1980 Census, the farm population includes persons living in rural territory on places of 10 or more acres from which sales of farm products amounted to $\$ 50$ or more in 1959 or on places of less than 10 acres from which sales of farm products amounted to $\$ 250$ or more in 1050 . Through an error in computer programing, the small number ( 29,873 for the United States) of farm residents in workers' camps (including quarters for migratory agricultural workers) were erroneously classified as nonfarm in the chapter $C$ tables but were correctly classified as farm residents in chapter D. Persons in all other types of group quarters were properly classified as nonfarm.

Farm residence in accordance with this definition was deter* mined from answers to the following questions on the Household Questionnaire:


If the reported value of sales was at least the amount specified for that size of place, the household was classified as living on a farm, Other persons in rural territory, including those living on "city lots," were classified as nonfarm residents. Persons
were also classified as nonfarm if their household paid rent for the house but their rent did not include any land used for farming.

Sales of farm products refer to the grose recelpts from the sale of field crops, vegetables, fruits, nuts, livestock and livestock products (milk, wool, ete.), poultry and poultry products, and nursery and forest products produced on the place and sold at any time during 1979.

## Comparability

Earlier censuses of popalation.-Farm-nonfarm residence in 1850 was determined by respondents' answers to the question, "Is this house on a farm (or ranch)?" The instructions to the enumerators specified that "persons on farms who paid cash rent for this house and yard only are to be clasgified as nonfarm." In 1950 and 1960, persons living in group quarters on institutional grounds or in summer camps or motels were classifled as nonfarm residents. The definition adopted for 1900 employs more restrictive criteria than the 1950 definition. One reason for the change was to make the definition of farm residence essentially consistent with the definition of a farm used in the agricultural census beginning with the 1959 Census of Agriculture. The uet effect of the 1960 definition is to exclude from the farm population persons living on places considered farms by the occupants but from which agricultural products are not sold from which sales are below the specified minimum. In previous censuses, farm-nonfarm residence was determined in cities and other territory classified as urban, but in 1960 no effort was made to identify farm population in urban areas. In 1950, this urban-farm population amounted to only about 300,000 persons in the country as a whole.

1959 Census of Agriculture.-According to the 1960 Census of Population, the rural-farm population numbered 13.4 million and rural-farm households numbered 3.0 million. According to the 1959 Census of Agriculture, there were 3.7 million farms and an estimated 3.4 million farm operators living on the farms they operated. The number of rural-farm households was 3.9 percent below the number of farms but 4.0 percent above the estimated number of farmers living on the farms they operated. Even if there had been no errors of enumeration, the number of farm households from the Census of Population would not equal exactly elther the number of farms or the number of operators living on farms operated. The Census of Agriculture, for example, includes farms in urban territory. Moreover, there are two or more households on some farms and no resident households on other farms. In addition, the absence of a resident operator does not preclude the presence of a household, for example, that of a farm hand. Finally, the Census of Agriculture was taken in the fall of 1050, and evidence from other sources suggests that there was a decline in the number of farm residents between the time of this enumeration and that of the Census of Population.

Current Population Survey.-A test conducted in the CPS of April 1900 indicated that at that time the change in the definition of the farm population resulted in a net reduction of 4.2 million persons on farms, representing about 21 percent of the farm population under the old definition. The farm population of 15.7 million under the new definition indicated by the CPS, however, was 2.3 million greater than the 1960 Census count, 13.4 million. This discrepancy between the census and the CPS figures may be the result of the effect of several factors.

Although there is no conclusive evidence on the relative validity of the farm-nonfarm classifleation in the CPS as compared with that in the census, the difference between the CPS and census procedures already noted (see "Current Population Survey," above) must be taken into consideration in evaluating the figure, 2.3 million. There is also a difference between the definition of urban territory in the census and in the CPS. In the CPS of









## COUNTHES









## COUNTY SUBDIVISIONS

Minor civil atritong.-.The mintor civil divisions which have
 wampamat party of comather rement political or administra-

 thenturn, electow, and other anitg for which meparate census





A whige the state whore minor eivil divisions are still recog. Whet, there in conatiderable variety of types, Although civil ane fluchal twoman are the most frequent type of minor civil
 Hicts, twem, and geres. In some instances. as is discussed more



Censms chety divilome- For purpowes of presenting census
 textil urens, which are called "census connty divisions" (COD's).
 which popakation entatistive were previously reported. These


 gur what of the data from me consus to another was Imreded and tise statithtrer the arew were of limited value. Eaumerators
 fachite colat af the pogatution where the boundaries were in-

 wat all, wit teir lant fumethons.

Cuathe chanty divinons were mabished in the State of Wash-

 the We- Arisoma, Califoraia, Colorado, Hawail, Idaho, Montama, New Mexiec, Oremona, Utah, and Wyoming-and 7 States


 what rewnite thate win that can be oasily located. The







may be separate divisions. Where an unincorporated enclave exists within a city, it is included in the same census county division as the city. In establishing census county divisions, consideration was given to the trade or service areas of principal settlements and in some cases to major land use or physiographic differences.

Each census county division has a name which is ordinarily the name of the principal place located within it, except in the State of Washington where most county divisions are numbered rather than named. The boundaries of census county divisions were reviewed with the officials in each county and various State agencles and were approved by the governors of the States or their representatives. Descriptions of these boundarieg are given in a set of reports entitled United States Oensuses of Population and Housing, 1960: Census County Division Boundary Desoriptions, U.S. Bureau of the Census, Washington, D.C., 1961.
In the State of Washington, some revisions in the census county divisions recognized in 1950 were made in the metropolitan counties in order to coordinate the divisions with the expanded system of census tracts.
The population count for each county or comparable area by county subdivisions (minor civil divisions or census county divisions) appears in table 7. Incorporated places which are not themselves county subdivisions and unincorporated places are shown indented under the county subdivisions in which they are located. When an incorporated or unincorporated place lies in more than one county subdivision, the population of the several parts is shown in table 7 under the appropriate county subdivision, and each part is designated as "part." The total population of such places appears in table 8. Changes in the boundaries of minor civil divisions and of census county divisions between 1950 and 1960 are shown in the notes at the end of table 7. Minor civil division boundary changes occurring between 1940 and 1950 are given in table 6 of the state reports of the 1950 Census of Population, Selected characteristics of the 1960 population of county subdivisions are shown in tables 25 and 26.

## PLACES

The term "place" as used in census reports refers to a concentration of population, regardless of the existence of legally prescribed limits, powers, or functions. Most of the places listed are incorporated as cities, towns, villages, or boroughs. In addition, the large unincorporated places outside the urbanized areas were delineated; and, those places with a population of 1,000 or more are presented in the same manner as incorporated places of equal size. Wach unincorporated place possesses a definite nucleus of residences and has its boundaries drawn so as to include, if feasible, all the surrounding closely settled area. Unincorporated places are shown within urbanized areas if they have 10,000 inhabitants or more and if there was an expression of local interest in their recognition. The towns in New England, townships in New Jersey and Pennsylvania, and countier recognized as urban are also counted as places.

## INCORPORATED PLACES

Political units recognized as incorporated places in the reports of the decennial censuses are those which are incorporated as cities, boroughs, towns, and villages with the exception that towns are not recognized as incorporated places in the New England States, New York, and Wisconsin. The towns in these States are minor civil divisions similar to the townships found in other States and not necessarily thickly settled centers of population such as the cities, boroughs, towns, and Fillages in other States. Similarly, in New Jersey and Pennsylvania, where some townships possess powers and functions similar to those of incorporated places, the townships are not classiffed as "incorporated places." Thus, some minor civil divisions which are
"incorporated" in one legal sense of the word are not regarded by the Census Bureau as "incorporated places."

Without this restriction on "incorporated places," all of the towns in the New England States, New York, and Wisconsin and the townships in New Jersey and Pennsylvania would be counted as incorporated places without any consideration of the nature of population settlement. A number of towns and townships in these States do qualify, however, as urban towns or townships and in other towns and towaships the densely settled portions are recognized as unincorporated places or as parts of an urban fringe.

## UNINCORPORATED PLACES

As it did for the 1950 Census, the Bureau delineated, in advance of enumeration, boundaries for densely settled population centers without corporate limits to be covered in the 1000 Census. (See the section above on "Places.")

## URBAN PLACES

The count of urban places in 1960 includes all incorporated and unincorporated places of 2,500 inhabitants or more, and the towns, townships, and counties classified as urban. Unincorporated places are designated by "U" and urban towns and townships by "UT." Under the urban deflnition used previous to 1950 , places of 2,500 or more and the areas urban under special rules were urban places.

## ANNEXATIONS

The population figure for an incorporated place in earlier censuses applies to the area of the place at the time of the given census. Hence, the indicated change in population over the decade reflects the effect of any annexations or detachments. In order to permit an analysis of the relative importance of population growth within the old boundaries and of population added in annexed territory, table 9 for incorporated places of 2,500 or more has been included here. There were a great many annexations in cities in the decade of the 1950 s , and some of these annexations involved large areas.

## URBANIZED AREAS

The major objective of the Bureau of the Census in delineating urbanized areas was to provide a better separation of urban and rural population in the vicinity of the larger cities. In addition to serving this purpose, however, individual urbanized areas have proved to be useful statistical areas. They correspond to what are called "conurbations" in some other countries. An urbanized area contains at least one city which had 50,000 inhabitants or more in $1060,{ }^{1}$ as well as the surrounding closely settled incorporated places and unincorporated areas that meet the criteria listed below. An urbanized area may be thought of as divided into the central city, or cities, and the remainder of the area, or the urban fringe. All persons residing in an urbanized area are included in the urban population.

It appeared desirable to delineate the urbanized areas in terms of the 1960 Census results rather than on the basis of information avnilable prior to the census, as was done in 1950. For this purpose a peripheral zone was recognized around each 1950 urbanized area and around cities that were presumably approaching a population of 50,000 in 1900 . Within the unincorporated parts of this zone, small enumeration districts (ED's) were estab-

[^1]lished, usually including no more than one square mile of land area and no more than 75 housing units. ${ }^{\text {? }}$
Arrangements were made to include within the urbanized area those enumeration districts meeting speciffed criteria of population density as well as adjacent incorporated places. Since the urbanized area outside incorporated places was defined in terms of ED's, the boundaries of the urbanized area for the most part follow such features as roads, streets, railroads, streams, and other clearly defined lines which may be easily identifed by census enumerators in the field and often do not conform to the boundaries of political units.

In addition to its central city or cities, an urbanized area also contains the following types of contiguous areas, which together constitute its urban fringe:

1. Incorporated places with 2,500 inhabitants or more.
2. Incorporated places with less than 2,500 inhabitants, provided each has a closely settled area of 100 housing units or more.
3. Towns in the New England States, townships in New Jersey and Pennsylvania and counties elsewhere which are classified as urban.
4. Enumeration districts in unincorporated territory with a population density of 1,000 inhabitants or more per square mile. (The areas of large nonresidential tracts devoted to such urban land uses as railroad yards, factories, and cemeteries, were excluded in computing the population density of an ED.)
5. Other ED's provided that they served one of the following purposes:
a. To eliminate enclaves,
b. To close indentations in the urbanized areas of one mile or less across the open end,
c. To link outlying ED's of qualifying density that were no more than $11 / 2$ miles from the main body of the urbanized area.
A single urbanized area was established for cities in the same SMSA if their fringes adjoin. Urbanized areas with central cities in different SMSA's are not combined, except that a single urbanized area was established in the New York-Northeastern New Jersey Standard Consolidated Area and in the ChicagoNorthwestern Indiana Standard Consolidated Area.

Urbanized areas were first delineated for the 1950 Census. In 1950, urbanized areas were established in connection with cities having 50,000 inhabitants or more according to the 1940 Census or a later spectal census prior to 1950; in 1960, urbanized areas were established in connection with cities having 50,000 inhabitants or more according to the 1960 Census.

The boundaries of the urbanized areas for 1900 will not conform to those for 1950 , partly because of actual changes in land use and density of settlement, and partly because of relatively minor changes in the rules used to define the boundaries. The changes in the rules were made in order to simplify the process of defining the boundaries, and, as a result of these changes, the area classifted as urbanized tends to be somewhat larger than it would have been under the 1950 rules. The changes include the following :

1. The use of ED's to construct the urbanized areas in 1900 resulted in a less precise definition than in 1950 when the limits were selected in the field using individual blocks as the unit of area added. On the other hand, the 1940 procedures produced an urbanized area based on the census results rather than an area defined about a year before the census, as in 1950.
2. Unincorporated termitory was included in the 1850 urbanized area if it contained at least 500 dwelling nnits per square mile, which is a somewhat different criterion than the 1,000 persons or more per square mile of the included 1980 unincorporated areas.
3. The 1960 areas include those entire towns in New England, towaships in New Jersey and Pennsylvania, and counties that are classified as urban in accordance with the criteria listed in the section on urban-rural residence. The 1950 criteria permitted the exclusion of portions of these particular minor civil divisions.

[^2]

 ratheren
Axy etty in an urimatwed areath when a central cty of an


 Now 罗絃－Northetatern New Jerney Area are the central dties





Iw thin repert，ata are mbown for each urtunized area with a watria elty locoted in the shate．In chapter a the popnlation for coub camponewt of tue arbmized area is bhown；and，in
 enatral city and the tutal nroanized area．

## STANDARD METROPOLITAN STATISTICAL AREAS

It ha＊long been rexomited that for many types of analysis
 arofud acty，the wetiviticeg of which ferman integrated economic

 swi ky warlown agenches．Lasadag examples were the metropolitan

 Darean of Healegtwet Security．To permit all Federal gtatistical
 purpowe statiotict，the arean of the Budget has extablished
 1060 Chasuch the areas were referred to as＂gtandard metro－ polltain eresse＂）Every city of wa，（00 inhabitants or more accord－ ing to the 1900 Cenmon it included in an SMSA．

The deankthon and tities of $x$ MSA＇s are established by the Wameat of the Bedget with the advice of the Federal Committee on wamard Motropolitan Statistical Areas This committee is cumpued of reprentatives of the major statistical agencies of ＊he Federal Government．The criterif nsed by the Bureau of
 the Burean of the Budget publication Standard Metropolitan
 2，D．©

The Aefintion of andindual MMSA involves two considera－
 toe centrul city and to derutify the coturty in which it is located as the ewtral ewanty；and，second，economie and social relation－ whpas wh conatiguevas counties whleh are metropolitan in charac－ tur，解 that theriphery of the mecific metropolittan area may

Popalation criteria．－The criteria for population relate to a city or tithe spedfed elre acording to the 1960 Census．


h．Two cithes han ling contiguous boundaries and constituting，
 with chabloed proplation of at least 50,000 ，the smaller of

 Hatathatat or wore（or twin cities under 1b）and the cities are
 Whin butwhed to the wamenrea waless there is definite evidence tifast the two ction are not economicaly and scocilly integrated．

[^3]Criteria of metropolitan character．－The criteria of metropoli－ tan character relate primarily to the attributes of the contiguous county as a place of work or as a home for a concentration of nonagricultural workers．

3．At least 75 percent of the labor force of the county must be in the nonagricultural labor force．${ }^{\text {．}}$
4．In addition to criterion 3，the county must meet at least one of the following conditions：
a．It must have 50 percent or more of its population living in contiguons minor civil divisions ${ }^{\text {B }}$ with a density of at least 150 persons per square mile，in an unbroken chain of minor civil divisions with such density radiating from a central city in the area．
$b$ ．The number of nonagricultural workers employed in the county must equal at least 10 percent of the number of non－ agricultural workers employed in the county containing the largest city in the area，or the county must be the place of employment of 10,000 nonagricultural workers．
c．The nonagricultural labor force living in the county must equal at least 10 percent of the number of the nonagricultural labor force living in the county containing the largest city in the area，or the county must be the place of residence of a nonagricultural labor force of 10,000 ．
5．In New England，the city and town are administratively more important than the county，and data are compiled locally for these minor civil divisions．Here，towns and cities are the units used in defining SMSA＇s．In New England，because smaller units are used and more restricted areas result，a population density criterion of at least 100 persons per square mile is used as the measure of metropolitan character．

Criteria of integration．－The criteria of integration relate pri－ marily to the extent of economic and social communication be－ tween the outlying counties and central county．

6．A county is regarded as integrated with the county or coun－ ties containing the central cities of the area if either of the follow－ ing criteria is met：
a． 15 percent of the workers living in the county work in the county or counties containing central cities of the area，or
b． 25 percent of those working in the county live in the county or counties containing central cities of the area．
Only where data for criteria $6 a$ and 6 b are not conclusive are other related types of information used as necessary．This in－ formation includes such items as the average number of telephone calls per subscriber per month from the county to the county containing central cities of the area；percent of the population in the county located in the central city telephone exchange area； newspaper circulation reports prepared by the Audit Bureau of Circulation ；analysis of charge accounts in retail stores of central cities to determine the extent of their use by residents of the contiguous county；delivery service practices of retail stores in central cities；official traffic counts；the extent of public trans－ portation facilities in operation between central cities and com－ munities in the contiguous county；and the extent to which local planning groups and other civic organizations operate jointly．

Criteria for titles．－The criteria for titles relate primarily to the size and number of central cities．

7．The complete title of an SMSA identifies the central city or cities and the State or States in which the SMSA is located：
a．The name of the SMSA includes that of the largest city．
b．The addition of up to two city names may be made in the area title，on the basis and in the order of the following criteria：
（1）The additional city has at least 250,000 inhabitants．
（2）The additional city has a population of onethird or more of that of the largest city and a minimum population of 25,000 except that both city names are used in those in－ stances where cities qualify under criterion 1b．（A city

[^4]which qualified as a secondary central city in 1950 but which does not quality in 1960 has been temporarily retained as a central city.)
c. In addition to city name, the area titles contain the mame of the State or States in which the area is located.
Data on the number of inhabitants for SMSA's which cross State lines are shown in full in table 11 for each State in which a central city is located. If that part of an SMSA that extends into another State does not include a central city, data are shown only for the part within the State. In table 12 only that part of the SMSA which is within the State is shown. Data on general characteristics in chapters $B$ and $C$ are shown for each SMSA with a central city located in this State.

Data on detailed characteristics in chapter D for SMSA's which cross State lines are shown for the State containing the largest central city, and, in addition, for any State not containing the largest central city but containing 50 percent or more of the total population of the SMSA.

In the 1050 Census reports, data were presented for standard metropolitan areas (SMA's) and in several carlier censuses a
somewhat similar type of area called the "metropolitan district" was used. In 105\%, the criteria for delineating metropoltan areas were revimed by the Bureau of the Budget, and, at the same time, the areas were designated as standard metropolitan statistical areas. The comparative SMSA figures shown here for 1950 apply to the SMSA as defined in 1960.

## STANDARD CONSOLIDATED AREAS

In view of the special importance of the metrophitan complexes around New York and Ohicago, the Nation's largest cties, several contiguous SMSA's and additional counties that do not appear to meet formal integration eriteria but do have strong interrelationships of other kinds, have been combined into the New York-Northeastern New Jersey and the Chicago-Northwestern Indiana Standard Consolidated Areas, respectively. The former is identical with the New York-Northeastern New Jersey SMA of 1050 , and the latter corresponds roughly to the Chicago SMA of 1950 (two more counties having been added),

## SOCIAL CHARACTERISTICS

## AGE

Definitions
The data on age were derived from answers to question $\mathbf{P}$ on the Advance Census Report. These answers were copied to the complete-count and sample FOSDIC forms, as explained in the section below on "Collection of data."


The age classiffcation is based on the age of the person in completed years as of April 1, 1960 . For the first time since 1900 , the Bureau of the Census obtained data on the age of the population by asking for date of birth. The respondent was requested to give the month and year of birth; for simplicity in the processing, however, only the quarter of year of birth was used in determining age. The comparable question in previous censuses was designed to obtain the age in completed years. It was believed that the use of self-enumeration coupled with the wording of the question in terms of date of birth would result in fewer errors in age reporting. On the other hand, there was a substantial rise in the proportion of persons reporting no information relating to age.

## Assignment of Unknown Ages

In each census since 1940, the Bureau of the Census has estimated the age of a person when it was not reported. In censuses prior to 1910 , with the exception of 1880 , persons of unknown age were shown as a separate category. The summary totals for "14 years and over" and "21 years and over" for earlier censuses included. all persons of "unknown age" since there is evidence that most of the persons for whom age was not reported were in the age classes above these limits. Both in 1940 and 1950, estimates for unknown ages were made for less than 0.20 percent of the population of the United States using basteally
similar techniques of inferring age from related information for the person and other members of the family and household. In 1930 , birth date was estimated for 1.7 percent of the enumerated population on the basis of other information regarding the perbon reported on the census questionnaire. Also, birth date was allocated for an additional 0.5 percent of the population as a part of the process of substituting persons with reported characteristics for persons not tallied because of the enumerator's fallure to interview households or because of mechanical failure in processing. This makes a total of about 2.2 percent of the population for whom age was estimated. For a discussion of the procedure followed in 1960 to estimate Falues for unknown items, ineluding age, see the section below on "Editing of unacceptable data."

## Errors in Age Statistics

Studies of age data collected in previous censuses have shown that age has been occasionally misreported in several characteristic ways. The numbers in some age groups have been understated, whereas others have been overstated, as the combined result of net underenumeration and of misstatements of age. One of the presumed advantages of self-enumeration was an expected reduction in such misreporting. The respondent was given an opportunity to consult records and discuss his reply before responding, Also, the wording of the question in terms of date of birth rather than age in number of years has changed the way in which age statistics tend to heap on certain terminal digits (e.g., 0 and 5) and may have reduced the overall extent of such heaping. As data become available from the 1960 tabulations, a more definitive analysis of the effect of the new enumeration techniques will be made.

Age estimates for selected sMSA's.-The 1950 data shown here for SMSA's apply to the area as defined in 1990. Estimates of some of the age categories were prepared for the relatively few areas in which 1950 data were not available in the detall needed for the 1900 area. The estimation was based on the assumption that the distribution of ages for the area to be estimated was the same as that of the area as defined in 1950.

## Median Age

The median, a type of average, is presented in connection with the data on age which appear in this report. The median is the value which divides the distribution into two equal parta-onehalf of the cases falling below this value and one-half of the cases erceeding this value. The medians shown in tables 94 and 95 (giving age by single years to 84) were computed on the basis of 5-year groupings.

## Rertility Ratios




 of whative fertility.







## RACE AND COLOR

## Definitions

That data mace were derived from answers to the following


 * the chand in derived from that which in conamonly accepted


 ming have affacted the data on race as compared with those of










Colere-The terw "owler refers to the diviston of the popula-





 "wher races." bat the 16w data pmblished in this report have





 for ferexte matwhite rave may be foand in chapter B.

## Nonwhite Races

Negro.-In addition to persons of Negro and of mixed Negro and white descent, this classification includes persons of mixed Indian and Negro descent, unless the Indian ancestry very definitely predominates or unless the individual is regarded as an Indian in the community.

American Indian.-In addition to fullblooded Indians, persons of mixed white and Indian blood are included in this category if they are enrolled on an Indian tribal or agency roll. A common requirement for such enrollment at present is that the proportion of Indian blood should be at least one-fourth. Indians living in Indian territory or on reservations were not included in the official population count of the United States until 1890.
other races.--The category "other races" is used variously in different tables of this report to include all racial stocks not shown separately. The greatest detail on racial stock of the population is presented in chapter $B$, in which separate statistics for persons of the white, Negro, American Indian, Japanese, Chinese, Fillpino, and all other racial stocks are shown for each SMSA, urbanized area, urban place of 10,000 or more, and county. In tables of chapter $B$ in which detailed racial stock is mresented, "other races" thus includes only the relatively small numbers of Koreans, Hawaiians, Asian Indians, Malayans, Eskimus, Aleuts, etc. Eisewhere, "other races" includes all nonwhite races other than Negro.

Mixed parentage.-Persons of mixed racial parentage are classiffed according to the race of the nonwhite parent, and mixtures of nonwhite races are classified according to the race of the father, with the special exceptions noted above.

In 1950, an attempt was made to classify as separate groups persons of mixed white, Negro, and Indian ancestry living in specified communities. These persons were included in the "other races" category. Because of problems of identification of these groups encountered in 1950 and the difficulty of distinguishing these groups by self-enumeration, the practice was dropped in 1960, except for the classification of a very few smal mixed groups.

## NATIVITY, PLACE OF BIRTH, AND PARENTAGE

The data on nativity, place of birth, and parentage were derived from answers to the following questions on the Household Questionnaire:

## P8. Where was this person born?

(If born in hospital, give residence of mother, not location of hospital)

If born in the United States, write name of State.
If born outside the United States, write name of country, U.S. possession, etc. Use international boundaries as now recognized by the U.S. Distinguish Northern Ireland from Ireland (Eire).
(State, foreign country, U.S. possession, etc.)

P10. What country was his futher born in?
United
Stales. $\square$ OR
(Name of foreign country; or Puerto Rico, Guam, otc.)

## PII. What country was his mother born in?


(Name of foreign country; or Puerto Rico, Guom, efc.)

## Nativity

In this report, information on place of birth is used to classlify the population of the United States into two major categories, native and foreign born. The "native" category comprises persons born in the United States, the Commonwealth of Puerto Rico, or a possession of the United States. Also included in this category is the small number of persons who, although they were born in a foreign country or at sea, have at least one native American parent. Persons whose place of birth was not reported are assumed to be native unless their census report contains eontradictory information, such as an entry of a language spoken prior to coming to the United States. Persons not classified as "native" in accordance with these qualiffations were considered "foreign born."

The total and white populations of the United States have been classified as native or foreign born in every census since 1850. Heginning with the Census of 1900 , the Negro population and the population of other races were similarly classified.

## Place of Birth

Native.-Data on the State of birth of the native population have been collected at each census beginning with that of 1850 . In the Censuses of 1850 and 1860 , State of birth was presented for whites and for free Negroes only. In this report, as in those for some of the more recent censuses, State of birth has been shown for the native population of the urban, rural-nonfarm, and rural-farm parts of States, and of individual cities above a specified minimum size.

In chapter $O$ of this report, the native population is further classified into the following groups: Persons born in the State in which they were residing at the time of the census, persons born in a different State, persons born in an outlying area of the United States or at sea of American parents, and persons whose State of birth was not reported. In addition, chapter D presents the region of birth of persons born in a different State and separate categories are shown for persons born in an outlying area of the United States and for persons born abroad or at sea of American parents. The enumerators in 1960 were instructed to report place of birth in terms of the mother's usual State of residence at the time of birth rather than in terms of the location of the hospital if the birth occurred in a hospital. This instruction also appeared on the Household Questionnaire.

The statistics on State of birth are of value mainly for the information they provide on the historical movements of the native population from one. State to another within the United States from the time of birth to the date of the census. These statistics indicate migration only in terms of the number of persons who had moved from the State of their birth and were still living in another State on the date of the census. The statisties therefore afford no indication of the amount of migration within a given State from rural to urban communities or from one locality to another; nor do they take any account of intermediate moves between the time of a person's birth and the time of the census.

The statistics thus do not indicate the total number of persons who have moved from the State in which they were born to other States, or to any speclfic State, during any given period of time. Some of those who had gone from one State to another have since died, others have returned to the State in which they were born, and others have gone to still other States, or places outside the United States.

Foreign born.-Foreign-born persons were asked to report their country of birth according to international boundaries as recognized by the United States on April 1, 1060. Similarly, in editing and coling the data on country of birth of the foreign born, the list of countries used was composed of those officially recogrized by the United States at the time of the census. There may have
been considerable deviation from the rules specifled in the instructions, in view of numerous chauges in boundaries that have occurred. Moreover, many foreign-born persons are likely to report their country of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference; such variations in reporting may have been intentional or the result of ignorance of the boundaries recognized by the United States.

## Parentage and Birthplace of Parents

Information on birthphace of parents is used to classify the native population of the United States into two categories: Native of native parentage and native of foreign or mixed parentage. The category "native of native parentage" comprises native persons, both of whose parents are also natives of the United States. The category "native of forelgn or mixed parentage" comprises native persons, one or both of whose parents are foreign born. The rules for determining the nativity and country of birth of parents are substantially the same as those used for the persons enumerated. Where the data on parents birthplace were incomplete, the editing procedure made use of other related information on the census schedule in order to determine an acceptable entry where possible.

## Foreiga Stock

The foreign-born population is combined with the native population of foreign or mixed parentage in a single category termed "foreign stock." This category comprises all first- and secondgeneration Americans. Third and subsequent generations in the United States are described as "native of native parentage."

In this report, persons of foreign stock are classiffed according to their country of origin with separate distributions shown for the foreign born and the native of foreign or mixed parentage. In this classification, native persons of foreign parentage whose parents were born in different countries are classified according to the country of birth of the father.

## MOTHER TONGUE OF THE FOREIGN BORN

## Definitions

The data on mother tongue of the foreign born were derived from answers to the following question on the Household Questionnaire:

P9. If this person was born outside the U.S.-
What language was spoken in his home before he came to the United States?

In the 160 Census, mother tongue is defined as the principal language spoken in the person's home before he came to the United States. If a person reported more than one langaage, the code assigned was the mother tongue reported by the largest number of immigrants from that country in the 1040 Census. Data are shown in chapter $C$ for all the more common European languages, as well as Chinese, Japanese, and Arabic.

Data on mother tongue were collected in the interest of determining nationality or ethnic or linguistic origin of the foreign born, especially of those persons born in certain Eastern European areas which have experienced changes in natimal sovereignty. The data on mother tongue of the foreign born do not necessarily reflect a person's current language skills or an inability to sleak English. The vast majority of persons reporting a mother tongue other than English have learned to speak English since entering this country. It is likely, furthermore,




 thana, than ronfoudent and the anmerator may have thought the


 way haw been owerlebked by the enumerator in direct interview






## Comparability


数

 fre the lunderge woken in earhest ehlldhood and included a
 frow ferelgaborm nerwous, they hould record the language myder fix the berore the person came to the United States.
 pretmrene what awhy given to the non-Figlish language. This grocedwa may rednce sontewhat the proportion of the foreign-



In the 1019 and 1020 Cenowses, watisties on mother tongue were walluiqed for the foreigh white stoek; in 1950, they were pobushed for the forden-born white population; and in 1940 they wera wablugh for the mative whte of native parentage as well
 sumunn for tore

## YEAR MOVED INTO PRESENT HOUSE

Whe data on year moved into present rostidence were derived frem the awners to the following question on the Household. Quowthmalre:

 mowe hbevy hatude The intont was to obtain the year when
 Thing, at mand wila had mowed back into the same house (or






 Whathen newer hat wny other pure of redidence. In reports of

 Way
always lived in the present house were distributed among the time periods on the basis of the head's age.

## RESIDENCE IN 1955

## Definitions

The data on residence in 1955 were derived from the answers to the following questions on the Household Questionnaire:

```
P13. Did he live in this house on April 1, 1955?
    (Answer 1, 2, or 3)
```



```
        a. City of lown.
```



```
        c. County
            AND
            State, foreign
            country, U.S.
            possession, elc.
```

Residence on April 1, 1955, is the usual place of residence 5 years prior to enumeration. Residence in 1955 was used in conjunction with residence in 1980 to determine the extent of mobility of the population.

The category "same house as in 1960" includes all persons 5 jears old and over who were reported as living in the same house on the date of enumeration in 1960 and 5 years prior to enumeration. Included in the group are persons who had never moved during the 5 years as well as those who had moved but by 1960 had returned to their 1955 residence. Persons who had changed residence from 1955 to 1960 were classified according to type of move.
The category "different house in the U.S." includes persons who, on April 1, 1955, lived in the United States in a different house from the one they occupied on April 1, 1960, and for whom sufficient information concerning the 1055 residence was collected. These persons were subdivided into three groups according to their 1955 residence, viz., "different house, same county," "different county, same State," and "different State." The last category was further subdivided by region of 1955 residence.

The category "abroad" includes those with residence in a foreign country or an outlying area of the United States in 1955. (In the coding of this item, persons who lived in Alaska or Hawail in 1955 but in other States in 1960 were classified as living in a different State in 1055.)

Persons 5 years old and over who had indicated they had moved into their present residence after April 1, 1955, but, for whom, or for members of their families, sufficiently complete and consistent information regarding residence on April 1, 1955, was not collected, are included in the group "moved, place of residence in 1055 not repmrted." (Missing information was supplied if data were available for other members of the family.) Also included in the category "moved, place of residence in 1955 not reported" are persons who gave no indication as to their movement since April 1,

1955, but who, on the basis of the final edited entry for year moved (for which all nonretponses were replaced by assigned entries), were classified as having moved into their present house since April 1, 1955.

The number of persons who were living in different houses in 1040 and 1955 is somewhat less than the total number of moves during the 5 years. Some persons in the same house at the two dates had moved during the E-year period but by the time of enumeration had returned to their 10\%5 residence. Other pergons made two or more moves. Persons in a different house in the same county may actually have moved between counties during the 5 -year period but by 1960 had returned to the same county of residence as that in 1955 . Finally, some movers during the 5 -year period had died or gone abroad.

## Comparability

Similar questions on mobility were asked in the 1950 and 1040 Censuses. However, the questions in the 1950 Census, as well as in annual supplements to the Current Population Survey, applied to residence 1 year earlier rather than 5 years earlier. In the 1950 reports, migrants reporting the State but not the county of residence in 1949 were included in the known categories of migration status and State of origin, whereas in this report such persons were all assigned to the category "moved, place of residence in 1955 not reported." This partial nonresponse group comprised 411,590 migrants in 1950 ; the corresponding figure for 1960 is not known.

Although the questions in the 1940 Census covered a 5 -year veriod, comparability with that census is reduced somewhat because of different definitions and categories of tabulation. In 1940, the population was classified in terms of four categories: Migrants, nonmigrants, immigrants, and migration status not reported. The first group, "migrants," included those persons who in 1035 lived in a county (or quasi-county) different from the one in which they were living in 1940. A quasi-county was defined as a city which had a population of 100,000 or more in 1930 or the balance of the county within which such a city was located. The second group, "nonmigrants," comprised those persons living in the same house in 1985 as in 1940 as well as persons living in a different house in the same county or quasi-county. The group classified as "immigrant" in 1940 is comparable to the gronp classified in 1960 as "abroad." The 1940 classification, "migration status not reprted," included persons for whom information was not reported in addition to those for whom the information supplied was not sufficient.

In the Series PHO(1), Census Tract Reports, for Denver, Colo.; Washington, D.C.-Md.-Va.; New Orleans, La.; Baltimore, Md.; St. Louis, Mo.-Ill.; Philadelphia, Pa.-N.J.; and Richmond, Va., the number of persons shown as having moved within the central city of the SMSA is slightly too low and the number shown as having moved from the ring to the central city is correspondingly too high. The cities in question are either coterminous with counties or are independent of any county. The error occurred in the tabulation where codes of "this county" without a code for the city were tallied as "other part of this SMSA." In those SMSA's with only one central city, the correct figures are available from the line for "same county" in table 82 of this report. If there are two or more central cities, however, the correct figures are not available for the category "central city of this SMSA." The SMSA's concerned are Newport News-Hampton and NorfolkPortsmouth in Virginia and San Franclsco-Oakland in Califormia.

## SCHOOL ENROLLMENT AND YEAR OF SCHOOL IN WHICH ENROLLED

## Definitions

The data on schoot enrollment were derived from answers to the following questions on the Household Questionnaire :

P16. Has he attended regular school or college at any time since February 1, 1960 ?
If he has oftended only nursery school, business or trade school, or adult education classes, check " No'"


P17. Is it a public school of a private school?
Public school. . ......
Private or
parochial school.... $\square$

The answers to these questions were recorded for persons 5 to 34 years of age. The data on year of school in which enrolled were obtained by tabulating, for those who were enrolled, the responses to the question on highest grade attended (see section below on "Years of school completed").
schooling included.-Persons were included as enrolled in school if they reported attending or being enrolled in a "regular" school or college at any time between February 1, 1900, and the time of enumeration. Aecording to the census definition, "regular" schooling refers to formal education obtained in public and private (denominational or nondenominational) kindergartens, graded schools, colleges, universities, or professional schools, whether day or night school, and whether attendance was full time or part time. That is, "regular" schooling is that which may advance a person toward an elementary school certificate or high school diploma, or a college, university, or professional degree. Schooling that was not obtained in a regular school and schooling from a tutor or through correspondence courses were counted only if the credits obtained were regarded as transferable to a school in the regular school system. Persons who had been enrolied in a regular school since February 1, 1960, but who had not actually attended, for example, because of illness, were counted as enrolled in school.
schooling excluded.-Persons were excluded from the enrollment figures if the only sehools they had been attending at any time since February 1, 1960, were not "regular" (unless courses taken at such schools could have been counted for credit at a regular school). Schooling which is generally regarded as not "regular" includes that which is given in nursery schools, in specialized vocational, trade, or business schools, in on-thejob training, and through correspondence courses.

Level and year of school in which enrolled,-Persons who were enrolled in school were classified according to the level and year of school in which they were enrolled. The levels which are separately identified in this report are kindergarten, elementary school, high school, and college. Table 101 in chapter $D$ presents data for single years within each level. Elementary school, as defined here, includes grades 1 to 8 and high school includes grades 9 to 12. If a person was attending a junior high school, the equivalent in terms of 8 years of elementary school and 4 years of high school was obtained. (See the section on "Years of school completed" for a discussion of variations in schnol organization.) The term "college" includes junior or community colleges, regular 4-year colleges, and graduate or professional schools.

Public or private school.--Persons who were enrolled in school were also classiffed as attending a prablic or private school. In general, a "public" school is defined as any school which is controlled and supported primarily by a local, State, or Federal govermment agency, whereas "private" schools are defined as schools which are controlled and supported mainly by a religious organization or by private persons or organizations.
Enameration of college students-College students were enumerated in 1950 and 1900 where they lived while attending college, whereas in most earher censuses they generally were enumerated








## Comaparability


 purind wace tho mecediter semtember 1. Furthermore, in that
 the wermo way attewdme In 1940, the question referred to the Hontiod whe the precting Mareh 1. There were indtcations, follewhug that ceaxas, that ha some areas the schooh chomed early

 Wowa, tharcene, have wewa relatively low. In order to insure Wane owulete comprability amoing areas, it was considered


 whe med in 15Mo.



 Hant wes sumarately lidentified and included with the regular
 bear adwad to mode emrollment in chadergarten with the regular eurolmant figurem.






 154 were reanduth as of por ounlity and as relating mostly to


 and (ariy thirtiot who are attemding regular colleges and welvervithe
 ropurt wan whathent were allowated as either curohed or wot corvitat. In woth 1940 and 1000 , the editing rules were defermin*a wrely on the basim of information on ages of compul-
 Adtided luformathon ned th editing inchuded otber items on themendule and rewalto of Curreat Popalation Survers showing















## YEARS OF SCHOOL COMPLETED

## Definitions

The data on years of school completed were derived from answers to the following questions on the Household Questionnaire:


These questions on educational attainment applied only to progress in "regular" schools, as defined above. Both questions were asked of all persons 5 years of age and over. In the present report, these data are shown for persons 14 to 24 years old not enrolled in school and for all persons 14 years old and over.

Highest grade of sohool attended.-The first question called for the highest grade attended, regardless of "skipped" or "repeated" grades, rather than the number of full school years which the person had spent in school. If the highest grade of school attended was in a junior high school, the instructions to enumerators were to determine the equivalent in elementary grades 1 to 8 or high school grades 1 to 4 .

In some areas in the United States, the school system has, or formerly had, 11 years of school ( 7 years of elementary school and 4 years of high school) rather than the more conventional 12 years ( 8 years of elementary school and 4 years of high school, or equipalent years in the elementary-junior high-senior high school system). Persons who had progressed beyond the 7th grade in this type of school system were treated as though they had progressed beyond the 8th grade of elementary school.

Enumerators were instructed to obtain the approximate equivalent grade in the American school system for persons whose highest grade of attendance was in a foreign school system, whose highest level of attendance was in an ungraded school, Whose highest level of schooling was measured by "readers," or whose training by a tutor was regarded as qualifying under the "regular" school defnition.

Completion of grade.-The second question on educational attainment asked whether or not the highest grade attended had. been finished. It was to be answered "Yes" if the person had successfully completed the entire grade or year indicated in response to the previous question on the highest grade ever attended. If the person was still attending school in that grade, had completed only a half grade or semester, or had dropped out of or failed to pass the last grade attended, the question was to be answered "No."

## Comparability

Question wording and editing.-In 1940 , a single question was asked on highest grade of school completed. Analysis of the 1940 returns and those of other surveys conducted by the Census Bureau using wording similar to that used in 1940 indicated that respondents frequently reported the grade or year in which they were enrolled, or had last been enrolled, instead of the one completed. The two-question approach used in 1950 and 1900 was designed to reduce this kind of error.

In 1000 , persons for whom highest grade attended was reported but for whom no report was made on finishing the grade were assumed not to have finished the grade if they were at the compulsory school ages but to have finished the grade if they were not at those ages. In 1960, nonresponses on both highest grade attended and completion of grade were eliminated by the procedure described below, in the section on "Editing of unacceptable data."

The number in each category of highest grade of school completed for 1950 and 1960 represents the combination of (a) persons who reported that they had attended the indicated grade and finished it, and ( $b$ ) those who had attended the next bigher grade but had not finished it.

## Median School Years Completed

The median number of school years completed is defined as the value which divides the population group into two equal parts-one-half having completed more schooling and one-half having completed less schooling than the median. This median was computed after the statistics on years of school completed had been converted to a continuous series of numbers (e.g., completion of the 1st year of high school was treated as completion of the 9 th year and completion of the 1st year of college as completion of the 13 th year). The persons completing a given school year were assumed to be distributed evenly within the interval from .0 to .9 of the year. In fact, at the time of census enumeration (generally April or May), most of the enrolled persons had completed at least three-fourths of a school year beyond the highest grade completed, whereas a large majority of persons who were not enrolled had not attended any part of a grade beyond the highest one completed. The effect of the assumption is to place the median for younger persons slightly below, and for older persons slightly above, the true median.

The same procedure for computing this median has been used in the 1940,1950 , and 1960 Censuses. Because of the inexact assumption as to the distribution within an interval, this median is more appropriately used for comparing groups and the same group at different dates than as an absolute measure of educational attainment.

## VETERAN STATUS

The data on veteran status were derived from answers to the following question on the Household Questionnaire :

```
P35. If this is a man-
    Has he ever served in the Army, Navy, or other Armed forces of
    the United States?
Yes... \(\square\) No... \(\square \quad\)\begin{tabular}{l} 
(Check one box \\
on each line)
\end{tabular}
Was It during:
World War II (Sept. 1940 to July 1947)
World War I (April 1917 to Nov. 1818) ..... \(\square\)
Any other time, including present service.... \(\square\)
```

Data on veteran status are being published in detail for the first time in this census. In the Census of 1840 , a special volume was issued giving the names, ages, and places of residence of
pensioners of the Revolutionary War or other U.S. military service, but other veterans were not identified. An inquiry on veteran status was undertaken in the Census of 1890 , and summary statistics on surviving veterans of the Union and Confederate Armies were published. A question on veteran status was also included in the Censuses of $1910,1930,1940$, and 1950 , but the results of these inquiries were not published because of the high rate of nouresponse and other reagous.

A "veteran" as defined here is a civilian male 14 years old and over, who has served but is not now serving in the Armed Forces of the United States. All other civillan males 14 years old and over are classified as nonveterans. Because relatively few females have served in the Armed Forces of this country, questions on veteran status were asked only of males.

The veteran population is elassiffed according to period of service. Among veterans with more than one period of service, those who served in both the Korean War and Wurld War II are presented as a separate group. All other persons with more than one period of service reported are shown according to the most recent wartime period of service reported. All data for veterans were edited to eliminate reported periods of service which were inconsistent with reported ages.

## Comparability

The figures in this report on the number of veterans cover all civilian males 14 years old and over in the United States who have served in the Armed Forces, regardless of whether their service was in war or during peacetime. The Veterans Administration's estimates include civilian veterans living outside as well as in the United States and, generally speaking, cover only persons with war service. Thus, the count of veterans from the 1960 Census is not directly comparable in all particulars with estimates of the total number of veterans published by the Veterans Administration.

Within these limitations, however, it appears that the 1000 Cengus figure for veterans of World War II and/or the Korean War is about 7 percent less than the Veterans Administration's estimate, and that the census count and the Veterans Administration's estimate for veterans of World War I are in substantial agreement. The difference in definition of the "other service" category precludes any useful comparison of the figures for this group. It is possible that the census figure, which presumably reflects in large part persons who served between World War II and the Korean War and after the Korean War, is overstated. Additional tabulations of the characteristies of veterans from the 1960 Census, and further study of the figures from both the Census Bureau and Veterans Administration, are being planned in an effort to determine the sonrces of these differences.

## MARITAL STATUS

The data on marital status were derived from answers to the following question on the Advance Census Report:













 - Whan from the cowatry at the the of rammerathon. Examples

















The mundur of married mes with wife present, shown in this rewart in mentical whith number of married couples. (See













## Comparability








## Whether Married More Than Once

The duth bin whether warried wore than once were derived






## HOUSEHOLD AND GROUP QUARTERS MEMBERSHIP, AND RELATIONSHIP TO HEAD OF HOUSEHOLD

## Definitions

The data on households, group quarters, and relationship to head of household were derived in part from the following question on the Advance Census Report:


Greater detail on persons classified as "other relative" or "nonrelative," which was used in determining family membership, was obtained from the following question on the Household Questionnaire:

```
P3. What is the relationship of this person to the head of this household?
```



```
Other-Wrile in:
(For example: Son-in-law, mother, uncle, cousin, etc.)
```

Household.-A honsehold consists of all the persons who occupy a housing unit. A house, an apartment or other group of rooms, or a single room, is regarded as a housing unit when it is occupied or intended for accupancy as separate living quarters. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and in which there is either (1) direct access from the outside or through a common hall, or (2) a kitchen or cooking equipment for the exclusive use of the occupants.

The average population per houschold is obtained by dividing the population in households by the number of households. The number of households is equal to the number of household heads.

Group quarters.-All persons who are not members of households are regarded as living in group quarters. Group quarters are living arrangements for institutional inmates or for other groups containing five or more persons unrelated to the person in charge. Group quarters are located most frequently in institutions, lodging and boarding houses, military and other types of barracks, college dormitories, fraternity and sorority houses, hospitals, homes for nurses, convents, monasteries, and ships. Group quarters are also located in a house or an apartment in which the living quarters are shared by the person in charge and five or more persons unrelated to hlm.

Five categories of group quarters are shown here:

1. Rooming or boarding house.-In addition to rooming and boarding houses, this category includes group quarters in ordinary homes, tourist homes, hotels, motels, residential clubs, Y's, and dormitories for students below the college level. Not all of the persons in these types of quarters are classified as living in group quarters; some are classified as living in housing units.
2. Military barracks.--These are quarters which are occupied by military personnel and which sre not divided into separate housing units. Data on persons in such quarters are shown separately in this report only for men.
3. College dormitory.-As used here, this term also refers to a fraternity or sorority house.
4. Institution.-Institutions include the following types: Correctional institution, hospital for mental disease, residential treatment center, tuberculosis hospital, other hospital for chronic disease, home for the aged and dependent (with or without nursing care), home or school for the mentally or physically handicapped, home for unwed mothers, or a home for dependent and neglected children; or a place providing custody for juveniles, such as a training school for juvenile delinquents, detention home, or diagnostic and reception center. Inmates of institutions are persons for whom care or custody is being provided. "Resident staff members" are persons residing in group quarters on institutional grounds who provide eare or custody for the inmates.
5. Other group quarters.-These quarters include the following types: General hospital (including quarters for nurses and other staff members), mission or flophouse, ship, religions group quarters (largely quarters for nuns teaching in parochial schools and for priests living in rectories; also other convents and monasteries except those associated with a general hospital or an institution), and dormitory for workers (including bunkhouse in migratory workers' camp, logging camp, or other labor camp). In addition, military barracks occupled by women are classified in this report as "other" group quarters.

All rural-farm persons in group quarters are persons in dormitories for workers located on a farm. (See chapter D, table 107.) In chapter $C$, these persons were erroneously classified as rural nonfarm because of a processing error.

Relationship to head of household.-The following categories of relationship are recognized in this report:

1. The "head of household" is the member reported as the head by the household respondent. The instructions to enumerators defined the head as the person considered to be the head by the household members. However, if a married woman living with her husband was reported as the head, her husband was classified as the head for the purpose of these tabulations.

Household heads are elther heads of primary families or primary individuals. The head of a primary family is a household head living with one or more persons related to him by blood, marriage, or adoption. A primary individual is a household head living alone or with nonrelatives only.
2. The "wife of head" is a woman married to, and living with, a household head. This category includes women in commonlaw marriages as well as women in formal marriages. This category is somewhat less inclusive than the category of married women, husband present, because it excludes those married women whose husband is not head of the household. By defnition, the number of wives of household heads should be identical with the number of heads of households who are married males, wife present, but in practice the two numbers may differ because, in the weighting of the sample, husbands and wives were sometimes given different welghts.
3. A "child of head," as shown in tables on relationship in chapters $B$ and D, is a son, daughter, stepchild, or adopted child of the head of the household (regardless of the child's marital status or age). The term excludes all other children, sons-inlaw, and daughters-in-law in the household. "Child of head" is a more inclusive category than "own child of head." (See section on "child" below.)
4. An "other relative of head" is a household member related to the head by blood, marriage, or adoption but not included specifically in another category. In table 106 this category includes only such relatives of the head as nephews, aunts, cousins, and grandparents; however, in table 135 the category comprises all relatives of the head other than his wife.
5. A "nonrelative of head" is any person in the household not related to the head by blood, marriage, or adoption. Nonrela. tives consist of lodgers and resident employees, as defined below.

A "lodger" is any household member not related to the head except a resident employee. The category "lodger" includes roomers, boarders, partners, and relatives of such persons, and also foster children and wards. A resident employee is an employee of the head of the household who usually resides in the housing unit with his employer; the term also includes the employee's relatives living in the same housing unit. Among the main tyies of resident employees are maids, hired farm hands, cooks, nurses, and companions.

## Comparability

1960 and 1950 household definition.-The 1060 definition of a household differs slightly from that used in the 1950 Census. The change arises as a result of the shift from a dwelling unit to a housing unit as the basie unit of enumeration in the Censur of Housing. According to the 1060 definition, a household consist of all the persons who occupy a housing unit, whereas according to the 1900 definition, a honsehold consisted of all the persons who occupied a dwelling unit.

In 1950, a dwelling unit was defined as: (1) A group of rooms occupied or intended for occupancy as separate quarters and having either separate cooking equipment or a separate entrance; or (2) a single room (a) if it had separate cooking equipment, (b) if it was located in a regular apartment bouse, or (c) if it constituted the only living quarters in the structure.

Housing units differ from dwelling units mainly in that separate living quarters consisting of one room with direct access but withont cooking equipment always qualify as a housing unit in 1960 but qualiffed as a dwelling unit in 1050 only when located in a regular apartment house or when the room was the only living quarters in the structure.

The evidence so far available suggests that using the housing unit concept in 1960 instead of the dwelling unit coneept as in 1950 had relatively little effect on the comparability of the statistics for the two dates on the number of households for large areas and for the Nation. Any effect which the change in concept may have on comparability can be expected to be greatest in statistics shown in other reports for some small areas, such as city blocks and census tracts. Living quarters classified as housing units in 1960 but which would not have been classified as dwelling units in 1950 tend to be clustered in nelghborhoods where many persons live alone in single rooms in hotels, rooming houses, and other light housekeeping quarters. In such areas, the number of households in 1060 may be higher than in 1950 even though no housing units were added by construction or conversion.

The count of households in 1950 excluded groups of persons living as members of quast-households. A quasi-household was defined as the occupants of a rooming house containing five or more persons not related to the head, or the occupants of certain other types of living quarters, such as dormitories, milltary barracks, and institutions. The concept of quasi-household used in 1950 is thus similar to the concept of group quarters used in 1960. Moreover, except for the household concept, the 1900 definitions with respect to relationship to head of household are essentially the same as those used in 1950. However, the national statistics for certain relatively small categories by relationship and family status may have been significantly affected through the change in the household definition. The effects of this change were still under investigation when the present report was prepared. The change from dwelling unit to housing unit (and, therefore, by implication, the change in household definition) is discussed in 1960 Census of Housing, Vol. IV, Components of Inventory Change, Fart 1A. This report contains statistics on dwelling units based on the December 1950 Components of Inventory Change Survey which was part of the 1960 Census of Housing.

Complete-count versus sample figures on members of group quarters.-The number of inmates of institutions shown in the completecount data for some small areas may differ from the corresponding number shown in the sample data beenuse of errors In the classfication of living quarters as an hastitution or other group quarters. Thus, secondary individuals in a few group quar* ters were misclassified as inmates in one of these two sources and correctly classified in the other. The opposite error, misclassification of immates as secondary individuals, also occurred, but in fewer cases. Differencer arising from these errors were usually caused by erroneous classiflcation in the complete-count data rather than in the sample data. Revised figures for these areas




## MAXPLUD COUFLE, FAMHY, \$UEPAMH.Y, CHLDD, AND UNAELATED INDIVIDUAL

## Married Couple





















 chanation as wito of beat nit howsebod.

## Family




 Woun of the buguchuld and the whe wife are memberk of the


 A



















## Subfamily











## Child

Statistics on the presence of "own" children are shown here for married couples, families, subfamilies, and women 15 to 49 years old. An own child is defined, in this report, as a person under 18 years of age who is a single (never-married) sou, daughter, stepchild, or adopted child of a family head or subfamily head. The number of "persons under 18 living with both parents" includes single stepehildren and adopted children as well as single sons and daughters born to the couple.

Data on women by age, classified by number of own children under 5 years old, provide a rough indication of how recent fertility has varied with age of woman. The age of the mother is known from information on the schedule for only those children who were living with their mother. Because the sample data on own children under 5 (in table 114) are inflated by the sample inflation weight of the mother rather than the sample inflation weight of the child, the results are not strictly comparable with the data on the total number of children under 5 years old shown in other tables in this report. Thus, the count of own children under 5 years old (living with their mother) exceeds the count. of total population under 5 years old in some States, whereas it logically should be smaller by 1 to 3 percent for white children (because some children do not live with their mother) and much mmaller for nonwhite children. (See alsc the section above on "Fertility ratios.")

Comparisons of figures on children under 18 years old of the household or family head with the total population in the same age group may also be affected by the fact that the parents sample inflation weight was used in some tables (such as table 108), whereas the child's own sample inflation weight was used in others (such as table 106).

Tables 111, 112, and 140 show the number of "related children" under 18 years old in the family. These persons include not only "own" children, as defined above, but also all other family members under 18 (regardless of marital status) who are related to the head or wife by blood, marriage, or adoption.

After most of the State PC(1)-D final reports were published, a tabulation error was discovered in the number of children under 5 years old shown in table 114. If this State was affected by this error, corrected figures are presented in the List of Corrections which begins on page xuvir.

## Unrelated Individual

As the term is used in the 1960 Census, an unrelated individual is either (1) a member of a household who is living entirely alone or with one or more persons all of whom are not related to him, or (2) a person living in group quarters who is not an inmate of an institution. Unrelated individuals who are house: hold heads are called "primary individuals." Those who are not heads of households are called "secondary individuals." Statistics on primary individuals are presented in chapter $B$ on the basis of complete-count data. Secondary individuals in households are shown in table 106 of chapter $D$; secondary individuals in group quarters constitute all persons in group quarters except inmates of institutions (table 107). Data for unrelated individuals by marital status and income are limited to persons 14 years old and over.

## CHILDREN EVER BORN

The data on children ever born were derived from answers to the following question on the Household Questionnaire:

[^5]Although the question on children ever born was asked only of women reported as having been married, the number of children reported undoubtedly includes some illegitimate births. It is likely that many of the unwed mothers living with an illegitimate child reported themselves as having been married and therefore were among the women who were expected to report the number of children ever born, and that many of the mothers who married after the birth of an illegitimate child counted that child (as they were expected to do). On the other hand, the data are, no doubt, less complete for illegitimate than fur legitimate births. Consequently, the rates of children ever born per 1,000 total women may be too low. The enumerator was instructed to include children born to the woman before her present marriage, children no longer living, and children away
from home, as well as children borne by the woman who were still living in the home.

The FOSDIC form for the sample data contained a terminal category of "l2 or more" children ever born. For purposes of computing the total number of children ever born, the terminal category was given a mean value of 13 .

## Comparability

The wording of the question used in the 1960 Census differs slightly from that used in 1950. In that census, the question was, "How many children has she ever borme, not counting stillbirths?" The intent of the change was to make the question more understandable to respondents and to obtain a better count from the few women who might misinterpret the word "children" to mean only those who survived early infancy.

## ECONOMIC CHARACTERISTICS

## EMPLOYMENT STATUS

## Definitions

The data on employment status were derived from answers to the following questions on the Household Questionnaire:
P22. Did this person work at any time last week?
Include part-time work such as a Saturday job, delivering papers, or helping without pay in a family business or farm. Do not count own housework.

P23. How many hours did he work last week (at all jobs)? (If exact figure not known, give best estimate)


P24. Was this person looking for work, or on layoff from a job?


P25. Does he have a job or business from which he was temporarily absent all last week because of illness, vacation, or other reasons?


The series of questions on employment status are designed to identify, in this sequence: (a) Persons who worked at all during the reference week; (b) those who did not work but were looking for work or were on layoff; and (c) those who neither worked nor looked for work but had jobs or businesses from which they were temporarily absent. For those who worked during the reference week, a question was asked on hours of work.

Reference week.-In the 1960 Census, the data on employment refer to the calendar week prior to the date on which the respondents flled their Household Questionnaires or were interviewed by enumerators. This week is not the same for all resiondents because not all persons were enumerated during the same week. The majority of the population was enumerated during the first half of April. The employment status data for the 1000 Census refer to the approximately corresponding period in 1950. The 1940 data, however, refer to a fixed week, March 24 to 30,1940 , regardless of the date of enumeration.

Employed.-Employed persons comprise all civilians 14 years old and over who were either (a) "at work"-those who did any work for pay or profit, or worked without pay for 15 hours or
more on a family farm or in a family business; or (b) were "with a job but not at work"-those who did not work and were not looking for work but had a job or business from which they were temporarily absent because of bad weather, industrial dispute, vacation, illness, or other personal reasons. There appears to have been a tendency for seasonal workers, particularly nonwhite women in the rural South, to report themselves as "with a job but not at work" during the off-season.

Unemployed.-Persons are classifed as unemployed if they were civilians 14 years old and over and not "at work" but looking for work. A person is considered as looking for work not only if he actually tried to find work during the reference week but also if he had made such efforts recently (i.e., within the past 60 days) and was awaiting the results of these efforts. Examples of looking for work are:

1. Registration at a public or private employment affice.
2. Meeting with or telephoning prospective employers.
3. Being on call at a personnel office, at a union hall, or from a nurses register or other similar professional register.
4. Placing or answering advertisements.
5. Writing letters of application.

Persons waiting to be called back to a job from which they had been laid off or furloughed were also counted as unemployed. Unemployed persons who have worked at any time in the past are classifled as the "experienced unemployed."
Labor force.-The labor force includes all persons classified as employed or unemployed, as described above, and also members of the Armed Forces (persons on active duty with the U.S. Army, Air Foree, Navy, Marine Corps, or Coast Guard). The "civilian labor force" comprises only the employed and unemployed components of the labor force. The "experienced civilian labor force" comprises the employed and the experienced unemployed.
Not in labor force.-This category consists of all persons 14 years old and over who are not classified as members of the labor force and includes persons doing only incidental unpaid work in a family farm or business (less than 15 hours during the week). Most of the persons in this category are students, housewives, retired workers, seasonal workers enumerated in an "off" season who were not looking for work, inmates of institutions, or persons who cannot work because of long-term physical or mental illuess or disability. Of these groups not in the labor force, only inmates of institutions are shown separately.

## Problems in Classification

Although the classification of the popalation by employment status is correct for most regular full-time workers, it is subject to error in marginal cases. Some of the concepts are difficult to apply; more important, for certain groups, the complete informa-




## Comaparability
























1949 nate centases.-The 1440 and 140 Census question.



 Corremt Pyphathan surver quembons and concents almost un-




The 緊-celled "main activity" queation of 1500-"What was

 maxytion that the informatron obtained in that item (e.g., the


 wem felt thet tide law of the chandinction of nonworkers (keep-
 wownd wit be skrixume Actrally the only group that cannot be ap-


That



















orlginally included among employed persons. In this report, the figurea for 1940 on employed persons have been adjusted to exclude the estimated number of men in the Armed Forces. Similarly, statistics for persons on public emergency work in 1040 were originally published separately, but in this report they have been combined with those for persons classified as unemployed.
Other data,-Because the 1960 Census employment data were obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. The data obtained from households provide information about the work status of the whole population without duplication. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest number of hours during the reference week. In statistics based on reports from business and farm establishments, on the other hand, persons who work for more than one establishment may be counted more than once. Moreover, other series, unlike those presented here, may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 14 years of age.
An additional difference between the two kinds of data arises from the fact that persons who had a job but were not at work are included with the employed in the statistics shown here, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the household reports include persons on the basis of their place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly signiffcant when data are being compared for areas where a number of workers commute to or from other areas.

For a number of reasons, the unemployment flgures of the Bureau of the Census are not comparable with published figures on unemployment compensation claims. Generally, persons such as private household workers, agricultural workerg, State and local government workers, the self-employed, new workers, and workers whose rights to unemployment benefts have expired, are not eligitle for unemployment compensation. Further, many employees of small firms are not covered by unemployment insurance. In addition, the qualifications for drawing unemployment compengation differ from the definition of unemployment used by the Bureau of the Census. Persons working only a few hours during the week and persons classifled as "with a job but not at work" are sometimes eligible for unemployment compensation but are classified as "employed" in the census reports. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as place of residence of the unemployed worker.

## HOURS WORKED

The statistics on hours worked pertain to the number of hours actually worked, and not necessarily to the number usually worked or the scheduled number of hours. For persons working at more than one job, the figures reflect the combined number of hours worked at all jobs during the week. The data on hours worked presented here provide a broad classification of persons at work into full-time and part-time workers, Persons are considered to be working full time if they worked 35 hours or more during the reference week and part time if they worked less than 35 hours. The proportion of persons who worked only a small number of hours is probably understated because such persons were omitted from the labor force count more frequently than were full-time workers. The comparability of data for 1960 and 1950 on hours worked may be affected by the fact that in 1950 a precise answer on number of hours was requested, whereas In 1060 check boxes were provided as shown in item P23.

## WEEKS WORKED IN 1959

Definitions
The data on weeks worked in 1059 were derived from answers to the following two questions on the Household Questionnaire:

## P30. Last year (1959), did this person work of ali, even for a few days? <br> P31. How many weeks did he work in 1959, either full-time or part - tirie? Count paid vacation, paid sick leave, and mili- tary service os weeks worked. (If exact figure not known, give best estimote) 13 weeks or less. $\square$ 14 to 26 weeks. $\square$ 27 to 39 weeks.. $\square$

The data pertain to the number of different weeks during 1959 in which a person did any work for pay or profit (including paid vacation and sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included. It is probable that the number of persons who worked in 1959 and the number of weeks they worked are understated, because there is some tendency for respondents to forget intermittent or short periods of employment, or they may have a tendency not to report weeks worked without pay.

## Comparability

The comparability of data on weeks worked collected in the 1940 and 1950 Censuses with data collected in the 1960 Census may be affected by certain changes in the questionnaires. In the 1060 questionnaire, two separate questions were used to obtain this information. The first was used to identify persons with any work experience in 1959 and thus to indicate those for whom the questions on number of weeks worked and earned income were applicable. This procedure differs from that used in 1940 and 1950, when the schedules contained a single question regard. ing the number of weeks worked.

In 1940, the enumerator was instructed to convert part-time work to equivalent full-time weeks, whereas in 1850 and 1960 no distinction was made between a part-time and a full-time work week. The 1940 procedure was to define as a full-time week the number of hours locally regarded as full time for the given occupation and industry. Furthermore, in the 1940 reports, the data were shown for wage and salary workers only and were published in terms of months rather than weeks.

## YEAR LAST WORKED

The data on year last worked were obtained for the first time in the 1960 Census. They were derived from answers to the following question on the Household Questionnaire :


The "year last worked" pertains to the most recent year in which a person did any work for pay or profit, or worked without
pay on a fumily farm or in a family business. Active service in the Armed Forces ls also included. Data derived from this item were tabulated for persons classified as not in the labor force and for persons classified as unemployed.

There are several reasons for introducing this item into the census. The data provide a means of evaluating the current applicability and signficance of the inventory of the occupational skills for those persons not in the labor force, and the tabulations resulting from the eross-classifications of this information provide data on the demographic characteristics of the labor reserve. Also, the data give some indication of the duration of unemployment for persons seeking jobs.

## OCCUPATION, INDUSTRY, AND CLASS OF WORKER

The data on occupation, industry, and class of worker were derived from answers to the following question on the Household Questionnaire:

```
P27. Occupation (Answer 1, 2, or 3)
    1. This person last worked in 1949 or eorlier.... }
OR
    2. On active duty in the Armed Forces now
OR
    3. Worked in 1850 or later . \square Answer a to e, below.
    Describe this person's job or business last week,
    if any, and write in name of employer. If this
    person hod no job or business last week, give
    information for last job or business since 1950.
```

    a. For whom did he work?
    (Name of company, business, organization, or other employer)
    b. What kind of business or industry was this?
    Describe activity at location where employed.
    (for example: County junior high school, auto assembly plant, TY
    and radio service, retail supermarket, rood construction, form)
        c. Is this primarily:
                                (Check one box)
    
d. What kind of work was he doing?
(for example: 8 th grade English teacher, paint sprayer, repairs IV sets, grocery checker, civil engineer, farmer, farm hand)
a. Was this person:
(Check one box)
Employee of private company, business, or indi= vidual, for woges, solary, or commissions
Government employee (Federal, Stale, county, or local).
Self-employed in own business, professional proctice, or farm
Working without pay in a family
business or farm.
In the 1900 Census, information on occapation, industry, and class of worker was collected for persons in the experienced civilian labor force as well as for persons not in the current labor force but who had worked sometime during the period 1850 to April 1900. All three items related to one specific job held by the person. For an employed person, the information referred
 at twa


 faces，the tmomrantion reforred to the lats gob that had been綪县






## Occupation

期




 U．G．Gwernament Priutheg Ofice，Wanhingtom，D．C． 1960.

Fer than monation of ervanation data in chapter $C$ ，a con－






 xumatan to dectinal Gerwation table 130 in chapter D．The followiug list mingw the componente of the condensed categories whose cumpostrom nay mot readly determined：

 nod robll mashinery operatorn miatery（construetion and main－



Drawar wh delmormen－Inchaden but drivers，chanfeurs，


Mredical and other wewh workers．－－Ineluder chiropractors，





Metal cratumon，Racept mumbanics－Incindes blacksmiths，

 metal Jhametwerg and molders，matal rolless and roll hands，mill－ wrighte mation and moded makers（exempt paper），sheet metal






 try．Whay has made of intarmedinte occupational ciassifica－











統解
the category＂former members of the Armed Forces＂shown in table 120 is limited to experienced unemployed persons whose last job was as a member of the Armed Forces．
Relation to DOT classifiogtion．－The occupational classification of the Population Census is generally comparable with the sys－ tem used in the Dictionary of Occupational Titles（DOT）．${ }^{\text {S }}$ The two systems，however，are designed to meet different needs and to be used under different circumstances．The DOT system is designed primarily for employment service needs，such as place－ ment and counseling，and is ordinarily used to classify very de－ tailed occupational information obtained in an interview with the worker himself．The census system，on the other hand，is designed for statistical purposes and is ordinarily used in the classification of limited occupational descriptions obtained in a self－enumeration questionaire or in an interview with a mem－ ber of the worker＇s family．As a result，the DOT system is much more detailed than the census system；and it also calls for many types of distinctions which cannot be made from census information．

## Industry

Classification system．－The industrial classification system de－ veloped for the 1900 Census is organized into 13 major industry groups and consists of 151 items（two of which are the govern－ ment and private subgroupings of the category＂Educational services＂）．The composition of each specifle category is shown in the above－mentioned Classified Indea of Occupations and Industres．
Several different levels of classification are used in this volume． The most detailed industry list appears in chapter D，tables 126 and 127；two combinations were made for the purposes of these tables and thus the list consists of 149 categories．In chapter C，a $40-$－tem condensed grouping is used．In chapter $D$ ，for cross－ tabulations by age，race，class of worker，and earnings，an in－ termediate industrial classifleation of 71 categories has been used（tables 128 to 130）．The industry list for table 125 con－ sists of 43 categorles．The industry list for nonwhite workers in table 130 consists of 42 categories for male and 28 for female． These intermediate classifications represent selections and com－ binations of the categories in the detailed system．The re－ latlonships among the 40－，71－，and 149－category levels of classi－ fleation are shown in List A．Further information on the inter－ mediate classifications can be obtained by writing to the Chief， Population Division，Bureau of the Census，Washington 25，D．C．

Relation to Standard Industrial Classification．－List A shows for each Population Census category the code designation of the similar category or categories in the Standard Industrial Classi－ feation（SIC）．${ }^{\top}$ This relationship is presented here for general information purposes only and does not imply complete compara－ bility．The SIC，which was developed under the sponsorship of the U．S．Burean of the Budget，is designed for the classification of indugtry reports from establishments．These reports，by their mature and degree of detail，produce considerably different data on industry from those obtained from household enumeration such as the Census of Population．As a result，some of the dis－ finctions called for in the SIC cannot be made in the 1960 Census．

Furthermore，the data from the Census of Population are designed to meet different needs from those met by the establish－ ment data．The allocation of government workers represents perhaps the most basic difference between the two systems．The SIC classifies all government agencies in a single major group． In the Population Census system，however，the category＂public administration＂includes only those activities which are uniquely

[^6]governmental functions, such as legislative and judicial activities and most of the activities in the executive agencies. Government agencies engaged in educational and medical services and in activities commonly carried on also by private enterprises, such as transportation and manufacturing, are classiffed in the appropriate industrial category. For example, persons employed by a hospital are classified in the "hospitals" group, regardless of whether they are paid from private or pubic. funds. Information on the total number of government workers appears in the tables on class of worker.

Relation to certain occupation groups.-In the Population Census classification systems, the industry category "agriculture" is somewhat more inclusive than the total of the two major occupation groups, "farmers and farm managers" and "farm laborers and foremen." The industry category also includes (a) persons employed on farms in occupations such as truck driver, mechanic, and bookkeeper, and ( $b$ ) persons engaged in agricultural activities other than strictly farm operation, such as crop dusting or spraying, cotton ginning, and landscape gardening, Similarly, the industry category "private households" is somewhat more inclusive than the major occupation group "private household workers." In addition to the baby sitters, housekeepers, laundresses, and miscellaneous types of domestic workers covered by the major occupation group, the industry category includes persons in occupations such as chauffeur, gardener, and secretary, if they are employed by private families.

## Class of Worker

The class-of-worker information refers to the same job as the occupation and industry information. The assignment of a person to a particular class-of-worker category is basically independent, however, of the occupation or industry in which he worked. The classification by class of worker consists of four categories which are defined as follows:

1. Private wage and salary workers.-Persons who worked for a private employer for wages, salary, commission, tips, pay-in-kind, or at piece rates.
2. Government workers.-Persons who worked for any governmental unit (Federal, State, local, or international), regardless of the activity which the particular agency carried on.
3. Self-employed workers.-Persons who worked for proft or fees in their own business, profession, or trade, or who operated a farm either as an owner or tenant. Included here are the owner-operators of large stores and manufacturing establishments as well as small merchants, independent craftsmen and professional men, farmers, peddlers, and other persons who conducted enterprises of their own. Persons paid to manage businesses owned by other persons or by corporations, on the other hand, are classified as private wage and salary workers (or, in some few cases, as government workers).
4. Unpaid family workers.-Persons who worked without pay on a farm or in a business operated by a person to whom they are related by blood or marriage. The great majority of unpaid family workers are farm laborers.

The relatively small number of employed persons for whom class of worker was not reported have been included among private wage and salary workers unless there was evidence on the census schedule that they should have been classified in one of the other class-of-worker categories.

## Special Editing Procedures

A factor to be considered in the interpretation of these data is that respondents sometimes returned occupation and industry designations which were not sufficiently speciffe for precise classiflcation. Indefinite occupation and industry returns were frequently assigned, however, to the appropriate category through the use of supplementary information. For example, the name of the employer or the industry return on the census schedule was often of great assistance in determining occupation. The name of the employer (company name) was used extensively to assign the proper industrial classification using lists of employers show-
ing their industrial classification in the 1958 Economic Censuses. In the coding of indefnite industry returns, helpful information was frequently obtained from other sources regarding the types of industrial ativity in the given area or of the given company.

## Comparability

Earlier censuses.-The changes in schedule design and interviewing techniques for the labor force questions, described in the section on "Employment status," have little effect on the commarability between 1040, 1050, and 1960 for most of the occupation, industry, and class-of-worker categories, For experienced unemployed persons, however, the 1950 and 1960 occupation data are not comparable with the data for the United States shown in Volume III of the 1940 reports on population, The Labor Force. The occupation data for public emergency workers (one of the two component groups of the unembloyed in 1040) referred to "current job," whereas the "last joh" of the unemployed was reported in 19.00 and 1960.

The occupational and industrial elassification systems used in 1940 and $19 \% 0$ are basically the same as those of 1860 . There are a number of differences, however, in the title and content for certain items, as well as in the degree of detail shown for the various major groups. For 1930 and earlier censuses, the occupational and industrial classification systems were markedly different from the 1900 systems. The 1940 and 1950 classification by class of worker is comparable with the 1900 categories. The following publications contain much helpful information on the various factors of comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, Sixteenth Census Reports, Population, Comparative Occupation Statistics for the United States, 1870 to 1940, and Bureau of the Census Working Paper No. 5, Occupational Trends in the United States, 1900 to $1950,1958$.

The 1940 and 1950 oceupation and industry data shown in this report include adjustments which take account of the differences between the 1940,1950 , and 1960 dassification systems. In order to make available as much comparable data as possible, it was sometimes necessary to estimate the adjustments from information which was incomplete or not entirely satisfactory for the purpose. Furthermore, there were certain differences among the 1940, 1050, and 1060 coding and editing procedures which could not be measured statistically. Caution should, therefore, be exercised in interpreting small numerical changes.

The 1940 data on occupation, industry, and class of worker shown in this report have been revised to eliminate members of the Armed Forces in order to achieve comparability with the 1950 and 1960 figures for the employed, which are limited to civilians. In the occupation tables of the 1940 reports, the Armed Forces were mainly included in the major group "protective service workers," In the industry tables, the Armed Forces were all included in the major group "government." In the class-of-worker tables, the Armed Forces were all included in the category "government workers" and in the total "wage or salary workers."

Other data.-Comparability between the statistics presented in this volume and statistics from other sources is frequently affected by the use of different classiflcation systems, as well as by many of the factors described in the paragraphs on comparability with other data in the section on "Employment status." Occupation figures from the Population Census are not always directly comparable with data from government licensing ageneles, professional associations, trade unions, etc. Arnong the sources of difference may be the inclusion in the organizational listing of retired persons or persons devoting all or most of their time to another occupation, the inclusion of the same person in two or more different listings, and the fact that relatively few organizations attain complete coverage of membership in an occupation field.

## Lig A－LELATHONSHIPS AMONG INDUSTRIAL CLASSIFICATION SYSTEMS USED IN THE 1960 CENSUS OF POPULATION



|  |  | Detalled classification－149 items |
| :---: | :---: | :---: |
|  | Achumatup |  |
| Tumbury |  |  |
|  | Mtaing |  |
| Cutatumuthan | Cunatution | Construction（16－17）． |
|  |  | Logging（241）． <br> Sawmills，planing mills and millwork（242，243）． Miscellaneous wood products（ 244,249 ）． Frainture and fixtures（25）． |
|  |  | ［Blast furmaces，steel works，and rolling and findshing mills（ 3312,3313 ）． （OOther primary iron and steel industries（3315－3317，332，3391， 33991 ）． Primary nonlerrous industries（ $333-336,3392,3399 \mathrm{i}$ ）． |
|  （anaili |  | （Cutiery，hand tools and other hardware（342）． Fabricated structural metal products（344）． <br> Miscellaneons fabricated metai products（341，343，345－349， 19 except 194）． <br> Not specifled metal industries．？ |
|  |  | （Farm machinery and equipment（352）． <br> Office，computing，and accounting machines（357）． <br> Miscellaneous machinery（ $351,353-366,358,369$ ）． |
|  |  | Electrical machinery，equipment，and supplies（36）． |
|  | Mutar wehathes and motor vebtele equipmen | Motor vehicles and motor veincle equipment（371）． |
|  | f Alverat mad parts．．．．．．．．．．．．．．．．． | Alreraft and parts（372）． <br> Ship and boat building and repairing（373）． <br> （Rafroad and miscellaneous transportation equipment（374；375，379）． |
| Othe famble grell |  | （Glase and glass products（321－323）． <br> Cement，and concrete，gypsum，and plaster products（324，327）． <br> Structural clay produots（325）． <br> Pottery and related products（326）． <br> Miscellaneous nonmetallic mineral and stone products（328，329）． <br> Professional equipment and supplies（381－385，194）， <br> Photographic equipment and supplles（386）． <br> Watchas，clocks，and clockwork－operated devices（387）． Miscellaneous manufacturing industries（39）． |
|  |  | Mest products（201）． <br> Bakery products（205）． <br> （Dairy producta（202）． <br> Oanning and preserving fruits，vegetables，and sea foods（203）． <br> Grain－mill products（204，0713）． <br> Confeotionery and related products（207）． <br> Beverage industrige（208）， <br> Miscellaneous food preparations and kindred products（200，209）． <br> Not spedifed food tindustries．？ |
|  |  | Knitting mills（225）． <br> Yarn，thread，and labric mills（221－224，228）． <br> $\left\{\begin{array}{l}\text { Dyeing and finishing toxtiles，except wool and knit goods（226）．} \\ \text { Floar coverings，breept hard surface（227）．} \\ \text { Miscellaneous textile mill products }\end{array}\right.$ |
|  | Appartel and other fabrieated textlie products． | （Apparel and accessortes（231－238）． <br> （Miscellaneous fabricated textile products（239）． |
|  |  | $\left\{\begin{array}{l} \text { Newspaper publishing and pinting (271), } \\ \text { Printing, publishing, and alled industries, except newspapers (272- } \\ 279) . \end{array}\right.$ |
|  | Chamitaste and nhei produets．．． | $\left\{\begin{array}{l}\text { Synthetic Abers（2823，2824）．} \\ \text { Drugz and medicines（233）．} \\ \text { Paints Farishes，and related products（285）．} \\ \text { Miscoelianoous chamicals and allied products（281，} 282 \text { except } 2823 \text { and } \\ 2834,284,286-280) .\end{array}\right.$ |
|  <br>  | Faper and atiled producta．．． | （Pulp，paper，and paperboard mills（261－203，286）． Praperboard contalners and boxes（205）． Misceilaneons paper and pulp products（264）． $\left\{\begin{array}{l}\text { Petroleum refining（201）．} \\ \text { Miscellaneons peto }\end{array}\right.$ |
|  | Bubber and nateellamotas plastie produets |  Rubber products（301－303，306）． |
|  | Fewwear，exeopt rubbe | Foctwear，except rubber（313，314）． |
|  | All ether bweduralle grods． |  |
|  | WNot mpendued mamulaturing industries．．． | Leather：tanned，curried，and finished（311）． Not specilied manulacturing industries，？ |
|  | Truckut serviee and warehousing | $\left\{\begin{array}{l}\text { Trucking gervice（ } 421,423 \text { ）} \\ \text { Warehousing and storage（422）．}\end{array}\right.$ |
|  | Tnidrowis and rallway exprexe service． | Rallroads and rallway express service（40）． <br> Street rallways and bus lines（ $411,413-415,417$ ）． Water transportation（44）． Air transportation（45）． Taxicab pervice（412）． <br> Petroleum and gasoline pipe lines（48）． <br> Eervices ineidental to transportation（47）． |
|  | Went rallway and bas une <br> Water trataripertation <br> Abr trazagatation |  |
| gen fuctume | Lall efther tramaportation．．． |  |



## Introduction

## llace of work and means of transportation TO WORK

Datat whe work with means of transportation to work were obtatwed for the first time in the 1960 Census. They were serived frumanawers to the following questions on the Househend Gwetionnaire:


## Place of Work

Pace of wort refers to the geographic location in which civilhana at work during the reference week and Armed Forces personmel wot on leave, siek, etts, chrried out their occupational or job activitues. In chapter c, place of work is classifed simply as to Whether it was in the same county (or equivalent area) as the werker's connty of rewidence or in a different county.

These work howations were chassifed in two ways in chapter D. For the standard metronolitan statistical areas in table 131, the lanathons are: (1) Central city (or eities) of the SMSA, (2) ring (or vatlying marts) of the SMSA, and (3) the area outside the amsat For the state statisticen in table 132, the areas are: (1) state of rewiduce, (2) spechied States contiguous to the State of readance, and 18 whemagums States.

Persons workiug at more than one job were asked to report on
 the ceasus weels. Salesmen, deliverymen, and others who work Ha meral phactwerb weeli were requested to name the place in which they began work elach day. if they reported to a central meadquartery. In wew in whith work was not begun at a central mare nath day, the prown was asked to report the county in Wheth we mad workel the greatest number of hours during the previone week.

Turing the tabulation of sfatistics on phace of work, it was atmerwed that some etumerators working in counties containing conarral ritien of smsars, bur ontside the cities themselves, had falled to deatify correetly these central citien as places of work. For the emvenienew of the enumerator and the coder, the FOSDIC dwewnent rentaliat a eircle for "this city" for indicating that the ware of work was in the respondent's city or town of residesce. shane minnerators understood this category to refer to a mearby large cty and flled the circle when they should have written in the name of that elty in P2sa. Since the cits that artualy contaised the phace of work was frequently a central eity of an smsa, the statistios in table 131 were impaired.
After a lunited mady of the relevant materials, including some of the Howebotd Questionalres (which gave the respondent's
own written reply), it was decided that a simple mechanical edit would tend to improve the statistics. This mechanical edit applies to entries for workers living in unincorporated parts of counties containing the central city of an SMSA (or other city with a population of 50,000 or more). For these workers, a workplace code of "this city" was tabulated as the largest city in the county. This edit was not used in New England, New Jersey, or the urban townships of Pemnsylvania since it was considered likely that the category "this city" was used to refer to the town or townshlp rather than to the large city. For the same reason, in all States, entries for workers living in incorporated places were not edited, Finally, codes of "this city" for workers living in unincorporated areas outside counties containing central cities of SMSA's (or other city of 50,000 or more) were tabulated as "balance of county" since it was not clear what city, if any, was intended.
Later, a national sample of reports of place of work was as. sembled for the purposes of estimating the magnitude of the error before and after the corrective edit. On a national basis, ercluding from consideration New England States and New Jersey, it appears that the published statistics are substantially better than would have been the case had the corrective edit been omitted. The number of workers residing outside central cities in the balances of central counties and working in the central cities appeared to be considerably understated before the correction and only slightly overstated, in net effect, after the correction. For the workers who were residing in parts of central counties located in ineorporated places and in urban townships in Pennsylvania, there still remains a small understatement of reports of place of work in central cities. Moreover, it is probable that there is also some understatement of commuting to central cities from outside the central counties. It was not feasible to estimate the error or take corrective action for these more distant areas. Therefore, it cannot be readily determined whether the total number of commuters to central cities of SMSA's is overstated or understated in the published statistics. This edit was further refined for the tabulations in chapter D; therefore, some minor inconsistencies in the data on both place of work and means of transportation are apparent between chapter D and chapter C, especially for areas containing military installations. Both before and after the corrective edit, there was considerable variation in the error rate from one SMSA to another. Hence, caution should be exerelsed in using the statistics for particular areas (especially in table 131).

## Means of Transportation to Work

Means of transportation to work refers to the principal mode of travel or type of conveyance used in traveling to and from work by civilians at work during the reference week and Armed Forces personnel not on leave, sick, etc. In this report, the categories "railroad" and "subway or elevated" were combined, and "taxicab" was included in "other means." The enumerator was instructed that "principal means" referred to the means of transportation covering the greatest distance, if more than one means was used in daily travel, or to the means of transportation used most frequently, if different means were used on different days. "Bus or streetcar" was defined as referring to vehicles operating within or between cities on public streets or highways. The facts that the items on place of work and means of transportation refer to the job held "last week" (see section on "Employment status") and that the worker may have subsequently changed his usual place of residence may explain some impossible or unlikely commuting patterns for particular areas.

## INCOME IN 1959

## Definitions

The data on income were derived from answers to the following questions on the Household Questionnaire:


Information on income for the calendar year 1959 was requested from all persons 14 years old and over in the sample. "Total income" is the sum of the amounts reported in P32 (wage or salary income), P33 (self-employment income), and P34 (other income). Earnings were obtained by summing wage or salary and self-employment income. The figures represent the amount of income received before deductions for personal income taxes, Social Security, bond purchases, union dues, etc.

Receipts from the following sources were not included as income: Money received from the sale of property, unless the recipient was engaged in the business of selling such property; the value of income "in kind," such as food produced and consumed in the home or free living quarters; withdrawals of bank deposits; money borrowed; tax refunds; gifts and lump-sum inheritances or insurance benefits.

Wage or salary income.-This is defined as the total money earnings received for work performed as an employee. It includes wages, salary, pay from Armed Forces, commissions, tips, piece-rate payments, and cash bonuses earned.

Self-employment income.-This is defined as net money income (gross receipts minus onerating expenses) from a business, farm, or professional enterprise in which the person was engaged on his own account. Gross receipts include the value of all goods sold and services rendered. Expenses include the costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes, etc.

Income other than earnings.-This includes money income received from sources other than wages or salary and self-employment, such as net income (or loss) from rents or receipts from roomers or boarders; royalties; interest, dividends, and periodic income from estates and trust funds; Social Security benefts; pensions ; veterans' payments, military allotments for dependents, unemployment insurance, and public assistance or other governmental payments; and periodic contributions for support from persons who are not members of the household, alimony, and periodic receipts from insurance policies or annuities.

This report prements information on income for families and unrelated individuals and for persons 14 years old and over by detailed characteristics. Data are also presented for 4 person hushand-wife families with two (own) children under 18 in which the head was an earner, including families in which there were one or more additional earners. ${ }^{\text {a }}$

In the statistics on family income, the combined incomes of all members of each family are treated as a single amount; whereas in the statistics on the income of unrelated individuals and in those on the income of persons 14 years old and over the classification is by the amount of their own income. Although the time period covered by the ineome statistics is the calendar year 1050, the characteristics of persons and the composition of families refer to the time of enumeration. Thus, the income of the family does not include amounts received by persons who wore members of the family during all or part of the calendar year 1959 if these persons no longer resided with the family at the time of the interview. On the other hand, family income includes amounts reported by related persons who did not reside with the family during 1509 but who were members of the family at the time of enumeration. For most of the families, however, the income reported was received by persons who were members of the family throughout 19.99.

## Median and Mean Income

The median income is the amount which divides the distribution into two equal groups, one having incomes above the median. and the other having incomes below the median. For families and unrelated individuals, the median income is based on the total number of familles and unrelated individuals; whereas for persons the medians are based on the distributions of persons 14 years old and over with income.

The mean income is the amount obtained by dividing the total income of a group by the number of income recipients in that group. For wage or salary income and selfemployment income, the means are based on persons having those types of income. In the derivation of aggregate amounts, persons in the open-end interval " $\$ 2 \pi, 000$ and over" were assigned an estimated mean of $\$ 20,000$.

## Limitations of the Data

The schedule entries for income are frequently based not on records but on memory, and this factor probably produces underestimates, because the tendency of respondents is to forget minor or irregular sources of income. Other errors of reporting are due to misunderstanding of the income questions or to misrepresentation.

A possible source of understatement in the income figures was the failure, on occasion. to obtain from the respondent any report on "other money incone." For these cases, the assumption was made in the editing process that no income other than earnings was recelved by a person who reported the receipts of either wage or salary income or self-employment income. Where no income information for a person 14 years old and over was reported, a more elaborate editing procedure was used, as described below in the section on "Editing of unacceptable data." Appendix tables $\mathrm{C}-2$ and $\mathrm{C}-3$ indicate the extent to which income in 1059 was allocated for families and persons 14 years old and over. Because of an error in programing the tatmiations, however, the nomesponse rates for families shown in these tables are somewhat overstated. This error is described in more detall in the section below on "Extent and implications of editing."

The income tables for families and unrelated individuals include in the lowest income group (under $\$ 1.000$ ) those that were

[^7]
## Introduction

## $x \mathrm{xsmim}$

entatismot M索斯 of theme were living on incone＂in kind，＂savings，or gifts， Were waly wanditutel familisw，or were unrelated individuals
 Drodwhenat hat recently ded or had left the household．How－ ever，mand af the famblles and unrelated individuals who re－
 recrexed in the corgus．

Tha invende data in this report corer money income only．The fact that many farm fumilise recelve an important part of their inownet in the form of rent－free bousing and of goods produced
 into consalakration in conpuring the income of farm and nonfarm rewtenth．In wowning ineome data for 1050 with earlier years，
 lustwees 1049 and 1 156 does not necessarily represent a com－ putrable chatuge in real locome，beeane adjustments for changes ita mrhes bave not been made in this repart．

## Comparability

1940 and 1050 Censurex．－In 1050，information on income simi－ lar to that revaested in 1000 was obtained from a 20 －percent
 wh the hat of atataly，the income quentions were repeated for the otler fanily members as a group in order to obtain the twoonse of the whate fanily．In 1000，however，separate income atat were requested for euch person 14 years old and over in the sumple bandedata．

In tabalating family income for the 1970 Census，if only the beatis ineowse was reported，the assumption was made that there Whas no other incoune in the family．In the 1060 Census，all non－ reanadente on infome（whether heads of families or other per－
 demwgraphic characteristics．

In 1040，all persma 14 years old and over were asked to report （a）the aravant of money wages or salary received in 1939 and （b）Whether fneone anounting to $\$ 0$ or more received in 1939 was frem mowress other than money wages or salaries．Income distribullons for 10 解 and 1949 shown in the present report relate to whal wamey inowne or to earnings；comparable statisties from the 1040 Census are not available．

Tomone tax Lata－For feveral retasons，the income data shown in this ropart are not directy comparable with those which may be sibtained from watistlcal summaries of income tax returns．

concept used by the Bureau of the Census．Moreover，the cover age of income tax statistics is less inclusive because of the ex emptions of persons having small amounts of income．Further． more，some income tax returns are filed as separate returns and others as joint returns；and，consequently，the income reporting unit is not consistently either a family or a person．

Bureau of 0ld－Age and Survivors Insurance earnings record data．－The earnings data shown here are not directly comparable with those which may be obtained from the earnings records of the Bureau of Old－Age and Survivors Insurance for several rea－ sons．The coverage of the earnings record data for 1959 is less inclusive than that of the 1960 Census data because of the exclu－ sion of the earnings of self－employed physicians，many civilian government employees，some employees of nomprofit organiza－ tions，workers covered by the Railroad Retirement Act，and persons who are not covered by the program because of insuff－ cient earnings，including some self－employed persons，some farm workers，and domestic servants．Furthermore，earnings received from any one employer in excess of $\$ 4,800$ in 1959 are not covered by the earnings record data．Finally，as the Bureau of the Census data are obtained by household interviews，they will differ from the Old－Age and Survivors Insurance earnings rec－ ord data，which are based upon employers＇reports and the Federal income tax returns of self－employed persons．

Office of Business Economios State income series．－The Office of Business Economics of the Department of Commerce publishes data on aggregate and per capita personal income received by the population in each State．If the aggregate total income were estimated from the income statistics shown in this report，it would be lower than that shown in the State income series for several reasons．The income statistics published by the Bureau of the Census are obtained from households，whereas the State income series published by the Office of Business Economics is estimated largely on the basis of data derived from business and governmental sources．Moreover，the definitions of income are different．The Office of Business Dconomics income series in－ cludes some items not included in the income statistics shown in this report，such as income in kind，the value of the services of banks and other financial intermediaries rendered to persons without the assessment of specific charges，and the income of persons who died or emigrated prior to the time of enumeration． On the other hand，income statistics in publications of the Bureau of the Census include contributions for support received from persons not residing in the same household，and employee con－ tributions for social insurance．

## COLLECTION AND PROCESSING OF DATA

The stop then in the collection and processing of data in the 14 Con Cowns dufered in several important respects from those

 whathen the theld by selfentumeration supplemented，if neces－ sary，by and or terephone call by an enmmerator，whereas in 100，wean riy all the thata were cohected by direct interview．

In 1sela，phanaratory recorded all the complete－count items and
 parde erreteg on the schedule，but those in 1850 recorded most answorl th termo written entries on the population census其
 nachinu：buwever，machine procedures were used much more extenemely for thim aperation in 1900 than in 1850 ．For complete－ covent datn，the 19eh Cenwus ured machine editing almost exclu－



More detailed descriptions of the 1960 Census practices in the collection and processing of data are given，respectively，in the reports entitled Onited States Censuses of Population and Hous． ing，1960：Prinoipal Data－Collection Forms and Procodures， 1961，and Processing the Data，1962，U．S．Government Printing Office，Washington，D．C．

## COLLECTION OF DATA

## Single－and Two－Stage Areas

In all parts of the United States，a few days before the census date（April 1），all households received by mail an Advance Census Report（ACR）containing the complete－count questions， that is，the questions which were to be answered for all persons． Houschold members were requested to fill these forms before the enumerator called．
In some areas，a＂single stage＂enumeration procedure was used，as discussed in the＂General＂section above．When the
momerator in a "single stage" area made his visit, he collecter all the completerount and sample information at that time." This information included answers to the questions on the ACR and to the udditional (sample) questions which were to be answered for one-fourth of the households and one-fourth of the persons in group quarters.

In the other areas, a "two stage" enumeration procedure was used. When the "Stage I" enumerator called to collect the ACR, he left at every fourth household a Household Questionnaire containing the sample questions and asked that the questionnaire be filled and mailed promptly to the local census office. (Special urocedures were used for sample persons in group quarters.) If the "Stage II" enumerator found that the questionnaire was incompletely filled or was not mailed, or if he detected answars that contained obvious inconsistencies, he was instrueted to make calls by telephone or personal visit to obtain the missing information or to correct errors.

## Advance Census Report, Household Questionnaire, and FOSDIC Forms

When an enomerator visited a household in a singlestage arpa, he obtained and recorded the complete-count information required for each person and for each living quarters on a spevial form designed for electronic processing on FOSDIC (Film Optical Sensing Device for Input to Computer). In doing so, he made use of the information which the household had entered on the ACR. Also, in each sample household, he completed the sample FOSDIC form. In addition, he transferred the complete-count information for the sample household to the sample FOSDIC form.

When a Stage I enumerator visited a household in a two-stage area, he followed the procedure described above for recording the complete-count information. Later, the Stage $I$ enumerator transferred the complete-count information for each sample household to its sample FOSDIC form. When the sample household mailed its Household Questionnaire to the local census office, the Stage II enumerator transferred the sample information from the Household Questionnaire to the sample FOSDIC form. If the sample household had failed to mail a completed Household Questionnaire, the Stage II enumerator usually recorded the sample information directly on the sample FOSDIC form when he called for the information by telephone or by personal visit.

Thus, the enumerator's duty was to deliver completed FOSDIC schedules to the local census office. To do so, he made use of completed ACR's and Household Questionnaires where they were available and conducted direct interviews as needed.

Most of the questions on the ACR and Household Questionnaire were virtually identical with the corresponding ones on the FOSDIC forms. Those on the FOSDIC forms were somewhat briefer and more compact, contained more boxes for precoding, and omitted many of the brief instructions which are given on the self-enumeration forms to explain the meaning of certain questions. The differences between the two types of forms, however, are regarded as minor and probably did not contribute in any important way to a lack of comparability of the sample data; the less detailed wording on the FOSDIC forms was reinforced by the training on detailed instructions that was given to enumerators who used these forms. The respondent was probably not ordinarily aware, however, of the special cases discussed in the instructions unless he asked the enumerator for clarifteation of a particular point.

[^8]
## Field Review

In the 1 :ho Census, one of the more important innovations was a series of rogalarly weheduled held review of the enumerator's work by his crew lesder or fleld reviewer. This oqeration was dewigned to asoure at an early stage of the work that the enumer. ator was performing his duties properly and had corrected the errors he had made. Moreover, the completeness of corerage of the enumeration was checked in varlous ways, including, for the first time, an advance partial histing by one of the supervisors of addresses throughout the enumerator's district, and the checking of this list of addresses against that reported by the enumerator.

## SAMPLE DESIGN

For persons in housing units at the time of the 1060 Census, the sampling unit was the housing unit and all its occupants; for persons in group quarters, it was the person. On the flist fisit to an address, the enumerator a*signed it sample key letter ( $\mathrm{A}, \mathrm{B}, \mathrm{C}$, or $D$ ) to each housing unit sequentally in the order in which he first visited the units, whether or not he completed an interview. Each enumerator was given a random key letter to start his assignment, and the order of canvasing was indicated in advance, although these instructions allowed some latitude in the order of risiting addresses. Each housing unit assigned the key letter "A" was designated as a sample unit, and all persons enumerated in the unit were included in the sample. In every group quarters, the sample consisted of every fourth person in the order listed.

In 1900, the sample was designed to include every fifth person, regardless of his living arrangements. Thus, if a household head was in the sample, his wife, if any, and most or all of his chlldren, if any, were not in the sample; Ilkewlse, if the wife or a child was in the sample, the head generally was not. This handicap to the analysis of household and family statistics was overcome by the use of the housing unit (hence, the hoasehold) as the basic sampilig unit in 1960. But the effect of "clustering" persons by sampling whole households increased the sampling variability of the data for some items and is one of the factors that led to the enlargement of the sampling fraction from 20 percent to 25 percent. (See discussion of "Sampling variability" below.) Moreover, in the $10 \% 0$ Census, the last few sample questions were to be asked only of every sixth sample person and may, therefore, have been regarded by the enumerator as less important, hence, could be given more casual treatment than the other sample questions. In the 1000 Census, if a person was in the sample, he was asked to answer all of the sample questions that were applicable.

Although the 1900 sampling procedure did not automatically insure an exact 25 -percent sample of persons or housing units in each locality, the sample design was unbiased if carried through according to instructions. Generally, for large areas the deviation from 25 percent was found to be small. Biases may have arisen, however, if the enumerator falled to follow his listing and sampling instructions exactly.

Table C-1 shows the percentage of persons and housebolds, respectively, that were in the unweighted sample. For the Inited States, as a whole, the published figures are 24.7 and 24.5 , respectively. The sample as finally processed, taking account of all replications, represented somewhat higher percentuges, namely, 24.94 for persons and 24.82 for bouseholds, Avallable records indicate that the sample of persons as desigaated in the field was very slightly larger than this, since the number of persons canceled because of bias in size of household was only slightly larger than the 85,255 persons repicated to replace them. Fistinates of the total number and percent of persons with spectied characteristics based on sample data for 1960 were obtalned by a ratio estimation procedure that is described in the section below on "Ratio estimation."

## mandal edmting and coding of schedules

 chach fur cowndumew in the field, they were wext to a central


 tone they were numenhuth.






 gedvel the reakikg of written gatries rather than the reading of markw eircles.

One of tha conlem wroblemas that required the matual processing of every waxpla fosolc form whe the coding of the item on re-

 cotwervin axa te moxigh a fanily number to every member of a






 burn, grate of bath of the antive poghatiom, country of origin of



 divisumben reatred and, in may instances, provided incomplete br waverarate imformatho or information wot called for by the

 unduatry. The elend wore provided with lists of names of large

 amotrit The chatweftworker entry was edited for consistency with ocrayatieg and molastry.

The whenghes of quaty control were aphied in the manual
 rewhen of axaeration work and in certain other operations.



 what, that los before they were climibe to be rated as "qualified."

 cherkew ty two werifers, edath of whon did the work independenty wallul nut the warl of the couler or of the other verifler. If the whid awd by a conter in the esuly phate was rejected on




After the coder qualifed, control of his work was based on the results of the independent verification in which the majority rule among the coder and two verifiers was used to determine whether the coder had made an error. If the coder's error rate rose and remained consistently high, he was removed from the coding operation. In addition, provision was made for correction of all the work of occupation and industry coders who showed very high weekly error rates. Information on error rates will be given in later publications.

## ELECTRONIC PROCESSING

The steps after the clerical processing of the sample data for 1900 were quite different from those performed in connection with the 1950 Census. In 1960, the procedure was as follows: (1) The schedules, which contalned both population and housing information in the form of shaded code circles, were microfilmed; (2) the microfilm was read by FOSDIO, which converted the shaded circles to coded signals on magnetic tape; (3) this tape was read by an electronic computer, which edited, coded (that yart of coding sometimes referred to as "recoding"), and tabulated the data; (4) a high-speed electronic printer printed the numbers and captions on sheets to which preprinted titles were added by hand; (5) the tables were reviewed; and (6) the highspeed printer output was used as copy for offset printing of the publication.

In 1900, the steps were as follows: (1) Cleriss edited and coded both complete-count and sample entries; (2) clerks punched a eard for each person containing the codes for population (but not housing) characteristics; (3) the punchcards were edited, the sample punchcards were weighted, and all cards were tabulated by conventional tabulators; (4) the tables were typed manually from the tabulation sheets; (5) the typed tables required proofreading and verification in addition to review; and (6) the tables were reproduced by offset printing for publication.

The extensive use of electronic equipment in the 1960 Census insured more uniform editing of the data than could have been accomplished by clerical work. On the other hand, the inability of the electronic equipment to read names and to perform some other operations that can be readily done by clerks introduced a measure of inflexibility at certain points in the processing operations. In the editing operation, substitutions were made for some of the nonresponses and inconsistencies, in order to simplify later tabulations and to make the published tables more usable. Moreover, the use of FOSDIC completely eliminated the cardpunching operation and thereby eliminated one important source of error. The types of error introduced by the use of FOSDIC were probably minor by comparison.

The enormous capacity of the electronic computer made it possible to do much more complex editing and coding than in earlter censuses and to insure consistency among a larger number of interrelated items. For example, the computer assigned a code to each person 14 years old and over for one of the five categories of employment status. In some instances, the determination of this code required the scanning of entries in as many as 9 items, where a full cross-classification of the 9 items would involve approximately 7,500 combinations of categories. At the same time, the greater capacity of the computer permitted the keeping of a detailed record of the extent of computer editing of census entries. (See section below on "Editing of unacceptable data.")

## ACCURACY OF THE DATA

## SOURCES OF ERROR




inconslatent information, recording information in the wrong place or incorrectly, and otherwise producing inconsistencies between entries on interrelated itemg on the fleld documents. Sampling biases occur because some of the enumerators fail to follow the sampling instructions. Clerical coding and editing
errors occur, and errors occur in the electronic processing operation for reasons discussed in the next section.

Careful efforts are made in every census to keep the errors in each step at an acceptably low level. Review of the enumerator's work, verification of manual coding and editing, checking of tabulated figures, and ratio estimation of sample data to control totals from the complete count (as discussed in a later section) reduce the effects of the errors in the census data. According to present plans, one or more reports evaluating the statistics of the 1060 Census will be published later. A report published by the Bureau of the Census and entitled The PostEnumeration Survey: 1950, Technical Paper No. 4, presents evaluative material on the 1950 Census.

## EDITING OF UNACCEPTABLE DATA

## Assignments for Nonresponse or Inconsistency

Regardless of the operating procedure that is used, the desired end is to produce a set of statistical tables that describes the population as accurately and clearly as possible. In keeping with this objective, certain unacceptable entries on the 1960 Census questionnaires were edited.

As one of the first steps in editing, the computer scanned the configuration of marks from a given section of the sample FOSDIC schedule to determine whether it contained information for a person, or merely a spurious mark or two. If the section contained marks for at least two of the general characteristicsrelationship, sex, color, age, marital status-and at least one of the entries was a relationship, sex, or color, the inference was made that the section contained entries for a person. Names were not used as a criterion of the presence of a person because the electronic computer was unable to distinguish between a name and any other entry in the name space. If the entries indicated that the line contained data for a person, the computer supplied information by assignment (as explained below) for more than half of the sample characteristics, where such information was missing, and for all of the missing complete-count characteris. tics. However, if sample information was entirely missing for more than a tolerable proportion of sample households in an area, special remedial action was taken, as explained in the section below on "Editing for other reasons."

Allocations, or assignments of acceptable codes in place of unacceptable entries, were needed most often where an entry for a given item was lacking or where the information reported for a person on that item was inconsistent with other information for the person. (See section below on "Editing for other reasons" for examples of other situations requiring allocations.) As in earlier censuses, the general procedure for changing unacceptable entries was to assign an entry for a person that was consistent with entries for other persons with similar characteristics. Thus, a person who was reported as a 20 -year-old son of the household head, but for whom marital status was not reported, was assigned a marital status from a marital status distribution for other sons in the same age group. Through the assignment of acceptable codes in place of blanks or unacceptable entries, it is believed that the usefulness of the data is enhanced.

In earlier censuses, the distributions from which assignments were made were derived from previous censuses or surveys. The use of the electronic computer improved upon this procedure by making feasible the use of distributions implicit in the 1960 data being tabulated. In addition, the superior flexibility of the computer permitted the use of a greater number of homogeneous subgroups and thus increased the probability that assignments would be accurate and consistent with entries on other items for the person.

The technique in the 1960 Census may be illustrated by the procedure used in the assignment of wage or salary income. The allocation of this item was carried out in the following steps:

1. The computer stored reported wage or salary ineome, by sex, age, color, major occupation group, and number of weeks worked in 1450 , for persons 14 years old and over who worked in 1075.
2. Each stored wage or salary income was retained in the computer only until a succeeding jerson having the same characteristics and having wage or salary income reported was processed through the computer during the mechanical edit operation. Then, the reported wage or salary income of the succeeding person was stored in place of the one previously stored.
3. When the wage or salary income of a person 14 years old or over who worked in 1859 was not reported or the entry was unacceptable, the wage or salary income assaigned to this person Was that stored for the last person who otherwise had the same characteristics.

The above procedure insured that the distribution of wage or salary income assigned by the computer for persons of a given set of characteristics would correspond closely to the reported wage or salary income dixtribution of such persons in the current census.

In general, the procedure for making assignments of completecount items shown in chapters $C$ and $D$ was more complex than that used for making assignments of completecount items shown in chapter B. The assignment procedure used for chapters $O$ and D often took account of additional information not avallable on the completecount schedules about the sample person, and, when feasible, about other members of the household to determine the most appropriate value to assign.

For persons in large group quarters in which the enumerator had not been able to obtain the required sample information, a manual editing operation was used. For some of these places, entries for isumple items were assigned by clerks from distributions of acceptable values for each item. These distributions of acceptable values were compiled through inspection of data for other group quarters of similar type for which adequate entries had been obtained.

## Editing for Other Reasons

Editing was performed not only when there were nonresponses and inconsistencies but was also performed when the proportion of sample households in a "work unit" (group of enumeration districts) with little or no sample information exceeded certain tolerance limits. When this situation was discovered, households with inadequate sample information were canceled, and households of the same size in the same general area that did have the sample information were repicated to replace the ones that were canceled. As shown in table $C-1$ for the United States, this procedure involved 315,069 persons and 127,257 households. Also, adjustments were made in the work done by a small proportion of the enumerators, for biases in the size distribution of sample households as compared to that of all households. Thus, if there were too many large sample househoids, the proper number of large households was canceled and the same number of small households was substituted. For the United States as a whole, this adjustment involved 85,255 persons in 26,307 replicated households. The number of persons in the canceled households has not yet been firmly established, but it is estimated at about 110,000 .

Editing was necessary, in addition, because of occasional failures in the microfliming process that caused an entire page of a schedule to be unreadable by FOSDIC. When this occurred, all information for at least one household was canceled. (Each sample FOSDIC page was designed to contain information for one housing unit and for one person or two persons.) If the unreadable page contained entry spaces for both housing and population information, two households may have been canceled because the computer was not always able to determine in this situation whether the page represented the beginning of a new household or the continuation of the previous household.


 thang were bequal taikerace, then medule bonks in which the errors mexrred werw elarkally reviewed. If it whs found that the errors




 code cireleg. If a lare number of allootions resulted from faulty
 allocationg was condilered and, in some instances, a manual al-

 pritwarly by machtue editiog but oceatomally by certeal editing.
 remarcesan amber of comphcated edting steps were not introaned when the eflert upow the fat data was considered to be

 Whaten winder 18 yodra will with 5 or more children, members of that Armed Forew muder 17, and norent under 80 years old of beacembid betads or wives.

Fry minh difference betwen table result from imperfections In the cloctronf: equipaent. For example, in table 82 for the
 Per the Cuited statwo the sume universe is reported as $43,460,946$. No attempt mas becn made to reconcile these insignificant


## Extent and Implications of Editing

In order th mateure the effects of the warious edting procedined a number of arpowdix tablef is presented. Appendix tekle whow the extent and impleathons of census editing. Tables 3-1 whe B- follow the chapter B tables, tables O-1, C-2, and C-B Rollow the chater O tablev, and table D-1 follows the chapLer D takiets Spertictly, tabley B-1 and B-2 show the extent of the ullocutions for nomirempatse or for inconsistency. In these tabled "sulutituten permons" amd "persons with allocations" are



 to take the phace of the groun of permons in a housing unit


 Were manditated to acwownt for permons on pages which could


The comat "mertamy with one or more allocations" and the
 eraly exchute "perman substituted." However, persons who

 Whe were weluded on the count of permons with one or more
 for bean they were whustituten. The sum of the percentages of
 is grather that the mamber por permong with one or more allocathons wecta whametertwtic.

The mine of the sampland the extent of replication are shown If GPewtis table C-1. The extent of the allowations for nonre-


 manyle characterimtie\% net reparted.

In table C-1, "persons in sample" and "households in sample" represent unweighted counts of distinct sample persons and dig. tinct sample households, as determined after the computer had completed the various processing steps. These totals do not include the flgures for "replicated because of bias in size of house hold" and "replicated because of absence of sample information" that appear on the following lines in table C-1. In tables C-2 and $\mathrm{C}-3$, replicated persons were tallied as many times as they were replicated; and, therefore, the percent of "persons in sample" in table C-3 may be larger than the corresponding per. cent in table C-1. All data shown in tables $\mathrm{C}-2$ and $\mathrm{C}-3$ are weighted so as to be consistent with corresponding completecount data, except "persons in sample" in table $\mathrm{C}-3$, which represents the ratio of the unweighted sample count plus replica. tions to the total population.
In table C-2, "persons with two or more sample characteristics reported" are persons with acceptable entries in two or more relevant sample characteristics (for example, entries in employment status are only relevant to persons 14 years old and over) The characteristics listed in table $\mathrm{C}-2$ cover all the items that are published in chapter $C$ and are classified into three major groups: Those subjects for which all nonresponses were allocated, those for which some but not all nonresponses were allocated, and those for which no nonresponses were allocated. For each subject, the universe applicable to the characteristic is indicated, along with the percent of persons in the relevant universe for whom nonresponses were allocated.

For each subject, the number of assignments shown in table C-2 for nonresponse or inconsistency includes only those made by the computer. This number excludes any assigmments that were made in the field review of the census schedules, in the manual editing and coding operation, or in the manuad repair of schedules for areas where the computer had made more than the tolerable number of assignments on the subject.

In table $\mathrm{C}-3$, the percent of nonresponses shown in the column "nativity and nativity of parents" is overstated because, if both Items were not reported, the person was incorrectly counted twice in the numerator.

The allocation rates for family income shown in tables $C-2$ and C-3 are somewhat overstated. The number of primary individuals for whom income items were allocated was inadvertently included in the numerator of the rates. The numerator should have included only families for which any member 14 years old and over had a nonresponse on income. This error was discovered too late for correction. For most areas, a fairly adequate correction may be obtained by assuming that the allocation rate for primary individuals is the same as that shown for persons 14, years old and over. This adjustment, though reducing the rates for families shown in tables $\mathrm{C}-2$ and $\mathrm{C}-3$, would nevertheless tend to result in an overstatement of the true rate because allocation rates for primary individuals are generally higher than those for all persons 14 years old and over. The application of this procedure reduces the family-income allocation rate for the United States from 11.7 to 10.6 percent.

Appendix table $\mathrm{D}-1$ presents distributions of selected subjects, essentially as they appeared prior to allocation of nonresponses. These distributions may be compared with the corresponding statistics in the regular tables, category by category, in order to measure the net effects of allocation.

The figures shown are based on the final weighted sample figures, and the total number of persons in each distribution should agree with corresponding totals in the report. The data shown include persons in households which were replicated, and the characteristics tabulated for these persons are those of the members of the replicated household. In other words, the "not reported" categories in table $\mathrm{D}-1$ include allocations but not replications (unless the person in the replicated household himself happened to have a nonresponse on the given characteristic).

For each subject, the number of allocations shown in table D-1 for "not reported" includes only those made by the computer; the exclusions are the same as those noted above for table c-2.

For items with all nonresponses allocated in 1900 but not in 1950 -such as income and years of school completed--the 1040 percent distributions are based on the total number of persons in the given area or group; whereas the corresponding percent distributions for earlier censuses, as shown in this report, are based on the number reporting. If the nonresponsen had been distributed for the earlier censuses in the more complicated ways that were used for the 1960 Census, the results obviously would have been a little different.

Certain types of response assignment (or allocation) are not included in the appendix tables. Among these, the following are the chief examples: Allocations of color were made for household members by substituting the color of the household head; allocations of marital status and sex were automatically made for persons identified as wives of household heads or as headm of households with wife present; and allocations were made at random for missing information on quarter of year of birth. Allocations of color made by substituting that of the household head were made only when the person was related to the head. The possibility of error in these cases was considered so low that the inclusion of such allocations in the tables was felt to be unjustifled. All persons coded as wives were automatically classifled as female and married, and all heads with wife present as male and married. These automatic classiffcations occurred regardless of the original entries in sex or marital status, and assignments in sex or marital status resulting from these allocations were not recorded. Also, clerical corrections, such as making darker shadings in the code circles, were not tallied and are not reflected in the counts of allocations.

Assignments for nonresponse or inconsistency, substitutions of persons and households, and other aspects of editing by the electronic computer will be discussed more fully as part of a more detalled report to be published at a later date under the title Eighteenth Decennial Census: Procedural History.

## RATIO ESTIMATION

The statistics based on the sample of the 1960 Census returns are estimates that have been developed through the use of a ratio estimation procedure. This procedure was carried out for each of the following 44 groups of persons in each of the smallest areas for which sample data are published. ${ }^{19}$

Group

$$
\begin{aligned}
& \text { Sex, color, } \\
& \text { and age }
\end{aligned}
$$

Relationship and tenure
Male white:
1
2
2
3
4
5
$6-8$
$9-11$

Under 5
5 to 18
14 to 24
14 to 24
14 to 24
25 to 44
45 and over
Male nonwhite:
Same groups as male white
Female white:
Same groups as male white
Female nonwhite:
34-44
Same groups as male white
For each of the 44 groups, the ratio of the complete count to the sample count of the population in the group was determined. Each specific sample person in the group was assigned an integral weight so that the sum of the weights would equal the complete count for the group. For example, if the ratio for a group was 4.2, one-fifth of the persons (selected at random)
within the gronp were awigned weight of 5 , and the remaining four-iftha weight of 4 . The use of wuch a combination of integral weights rather than a single fructional weight was adopted to aroid the complications involved in rotuding in the final tables. In crder to increase the reliability, where there were fewer than 50 persons in the complete count in a group, or where the resulting weight was over 16, groups were combined in a specific order to tatisfy both of these two conditions.

These ratio estimates reduce the compotent of sampling error arising from the variation in the size of household and achieve some of the sains of stratification in the gelection of the sample, with the strata being the grouys for which separate ratio estimates are computed. The net effect in a reduction in the sampling error and biam of most statistics below what would be obtained by wefghting the resultio of the $2 \pi$-percent sample by a uniform factor of four. The reduction in sampling error will be trivial for mome items and mubstantial for others. A byproduct of this estimation mrocedure is that entimates for this sample are generally consistant with the complete connt with respect to the total jopulation and for the subdivisions used as groups in the estimation procedure. A more complete discussion of the technical aspects of these ratio entimates will be presented in another refort.

## SAMPLING VARIABILITY

The figures from the 25 -percent sample tabalations are subject to sampling variablity, which can be estmated roughly from the standard errors shown in tables $B$ and $C$ below. Somewhat more precise estimates of sampling error may be obtalued by using the factorg shown in table $D$ in conjunction with table $C$ for percentages and table $B$ for absolute numbers. These tables ${ }^{17}$ do not reflect the effect of remponse variance, processing vartance, or bias arising in the collection, processing, and entimation steps. Estimates of the magnitude of some of these factors in the total error are being evaluated and will be published at a later date. The chances are about 2 out of 3 that the difference due to samping variability between an estimate and the figure that wonld have been obtained from a complete count of the population is less than the standard error. The chances are about 19 out of 30 that the difference is less than twice the standard error and about 90 out of 100 that it is less than $21 / 2$ times the standard error. The amount by which the entimated standard error must be multipiled to obtain other odds deemed more appropriate can be found in monst statistical textbooks.

Table $B$ shows rough statudard errors of estimated numbers. In determining the figures for this table, some ampects of the sample design, the estimation process, and the population of the area over which the data have been compiled are ignored. Table C shows rough standard errors of data in the form of percentages Linear interpolation in tables $B$ and C will provide approximate results that are satisfactory for most purposes. The standard errors estimated from tables $B$ and $C$ are not directly applicable
${ }^{2 n}$ Estimites of characteristics from the ample for a given area are prodided asing the formula:

$$
x^{\prime}-\sum_{i=1}^{44} \frac{x_{i}}{y_{i}} y_{i}
$$

Where $x^{\prime}$ in the entimate of the characteristic for the area obtained through the use of the ratio entimation procedure,
x) is the count of mample porsong with the characteristle for the area in one (1) of the 44 groups,
yf is the count of all kample persons for the area to the mame one of the 44 grouph, and
$Y_{1}$ is the count of persong in the complete connt for the ared in the rame one of the 44 groupa.
uthe estimater of gampling variability are baned on calculations from a preliminary bample of the 1960 Consua results, Further estimates are being calenlated and will be apailable at a later date.
 Ertimates Numben


|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  <br>  |  |  |  |
|  |  |  |  4 4 |
| 䁤 | 2 | 5 |  |
| 数 | 䌦 |  | 14） |
| 變新 | 㱍 |  | 129 |
| 3變 | $4{ }^{4}$ | \％${ }^{\text {Wex }}$ | 變 |
| 1．4 | 蒳 |  | Wat |
| 4． 4 鶭 | 卙 |  |  |



 Estmatig Percentace

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | 緼 |  |  |  | 20， 4 （6） | Wanm |
| 教紼 | 18 | 08 | 08 | 48 | 0.1 | 01 |
| 8 cter | 2a | 14 | 4 | \％ 4 | 42 | 0. |
|  | \％ 8 | 21 | 1.4 |  | 4.3 | 62 |
|  | \％${ }^{\text {a }}$ \％ | 2. | 1.4 | 97 | 94 | 02 |
|  | 4.4 | 31 | 1．4 | 0．4 | $00^{5}$ | 6.3 |

直（1）



 the mandard frove lay wemtheal with the gitandard ertor of the

 frew ento wad the othor frow 11 now，or both from the same क्यक










 （ar an worgatiante vame may he obtained by roultiplying by 1.2





 table（














corresponding to this number．In a corresponding manner，add the standard errur to $\frac{N}{2}$ ，cumulate the frequencies in the table， and obtain a value corresponding to the sum of $\frac{N}{2}$ and its standard arror．The chances are about 2 out of 3 that the median would lie between these two values．The range for 19 chances out of 20 and for 90 in 100 can be computed in a similar manner by mul－ tiplying the standard error by the appropriate factors before sub－ tracting from and adding to one－half the number reporting the characteristic．Interpolation to obtain the values corresponding to these numbers gives the confidence limits for the median．

The sampling variability of a mean，such as the number of chlldren ever horn per 1,000 women，or mean income，presented in certain tables，depends on the variability of the distribution on which the mean is brased，the size of the sample，the sample design for example，the use of households as the sampling unit），and the use of ratio estimates．Formulas for computing the variability of a mean in simple random sampling can be found In textbooks on statistics．Although the estimated distribution on which a given mean is based may not be published in the detailed tables which follow，an approximation to the variability of the moan may be obtained by using a comparable distribution for a larger area or for a similar population group．A rough estimate of the sampling variability of means in this report may then be obtained by multiplying the figure thus derived by the factor corresponding to it in table $D$ ．

For most characteristics，the use of the household as a sampling unit increases the standard error above what would be ex－ pected for a simple random sample of persons taken with the same aampling fraction．In particular，sample items which tend to have the same value for all members of a household（e．g．， race or residence in 1955）may have a considerably higher vari－ ance than if a sample of persons had been used．However，for many characteristics，the standard error is reduced below what would be expected for a simple random sample of persons be－ catse of geographie stratification in the selection of the sample and the use of ratio estimation．

Table E shows standard errors for estimated numbers of per－ gons depending on the population of the place（city，county， State），unlike table $B$ ，and the magnitude of the estimate but， similar to table $B$ ，ignoring some aspects of the sample design and the estimation process．Table D provides a factor by which the standard errors shown in table $E$ should be multiplied to adjust for the combined effect of the sample design，the estima－ tion procedure，and the population of the area over which the estimate is calculated．

To extimate a somewhat more precise standard error for a given characteristic，locate in table $D$ the factor applying to the characteristic．Where data are shown as cross－classifications of two characteristics，locate each characteristic in table D．The factor to be used for any cross－classification will usually lie between the values of the factors．When a given characteristic is cross－classifled in extensive detail（i．e．，by single years of age）， the factor to be usex is the smaller one shown in table $D$ ．Where a characteristic is cross－elassified in broad groups（or used in broad groups），the factor to be used in table $D$ should be closer to the larger one．Multiply the standard error given for the sine of estimate and the population of the area as shown in table $\mathbf{E}$ by this factor from table $D$ ．The result of this multiplication is the approximate standard error．Similarly，to obtain a some－ what more precise estimate of the standard error of a percentage， multiply the standard error as shown in table $C$ by the factor from table D．For most estimates，linear interpolation in tables C and E will provide reasonably accurate results．

Table D.-Factor to be Applied to Standard Errors

| Characteristle | Factor |
| :---: | :---: |
| Age---..... | 0.8 |
| Natlvity and parentage... | 1.4 |
| Color or race--- | 1.8 |
| Farm-noufurm residence. | 1.8 |
| Place of birth. | 1.2 |
| Country of origin. | 1.4 |
| Mother tongue-- | 1.4 |
| Residence in 1965-............. | 1.8 |
| Year moved into present house | 1.8 |
|  | 0.8 |
| Level and typer of school in which | 0.8 1.0 |
| Veteran status of clvilian males. | 1.0 |
| Marital status. | 1.0 |
| Presence of spouss. | 1.0 |
|  | 1.0 |
| Whather married more than once---1/ Household relationship and unrelated Individ | 1.0 |
| Household relationship and unrelated Individ | 1.0 |
| Children ever born....-. | 1.0 |
| Employment status. | 1.0 |
| Labor force status.. | 0 |
| Hours worked. | 1.0 |
| Weeks worked in 1959 | 1.0 |
| Year last worked...- | 1.0 |
| Occupation. | 1.0 |
| Industry | 1.0 |
| Place of work. | 1.0 |
| Means of transportation to work. | 1.0 |
| Class of worker. | 1.0 |
| Earnings in 1980 | 1.0 |
| Income in 1958-.. | 1.0 |

Illustration: Let us assume that, for a city with a population of 200,000 , table 101 shows that there are an estimated 1,500 males 6 years old who were enrolled in the first year of elementary school. Table D shows that, for data on school enrollment,
the appropriate standard error in table $E$ should be niultiplied. by a factor of 0.8. Table $E$ shows that the standard error for an extimate of 1,500 in areas of 250,000 inhabitants is about 60 . The factor of 0.8 times 00 is 48 , which means that the chances are approximately 2 out of 3 that the results of a complete census will not differ by more than 48 from this estimated 1,500 . It also follows that there is only about 1 chance in 100 that a complete census result would differ by as much as 120 , that is, by about $21 / 2$ times the number estimated from tables $D$ and $E$.

Table E.-Standard Error of Estimated Number
[For multiplying factors see table $D$ and text; range of 2 chances out of 8]

| Estimated number ${ }^{1}$ | Population of areas |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1,0100 | 10,000 | 25,000 | 100,000 | 250,000 | 1,000,000 | 5,000,000 | 15,000,000 |
| 50.......... | 15 | 15 | 15 | 15 | 15 | 15 | 15 |  |
| 100.......- | 29 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 250..------- | 25 | 30 | 30 | 30 | 30 | ${ }_{40}^{30}$ | 40 | 30 40 |
| 500 $1,000$. | 25 0 | 5 | 40 | 40 50 | 40 50 | 40 50 | 40 50 | 40 50 |
| 2,500 $\ldots$ |  | 70 | 70 | 80 | 80 | 80 | 80 | 80 |
| 5,000 $\ldots$ |  | 80 | 100 | 110 | 110 | 110 | 110 | 110 |
| 10,000 |  | 0 | 120 | 150 | 150 | 150 | 100 | 160 |
| 15,000 |  |  | 120 | 180 | 190 | 190 | 190 | 190 |
| 25,000 $\ldots$ |  |  | 0 | 210 | 230 | 240 | 250 | 250 |
| 50,000 . .... |  |  |  | 250 | 310 | 340 | 350 | 350 |

1 For estimated numbers larger than 50,000 , the relative errors are somewhat amaller than for 50,000.
${ }^{I} \mathrm{An}$ areai is the smallest complete geographic area to wheh the estimate under consideration pertains. Thus, the zrea may be the state, city, county, standard or county. The rural-farm or rural-noniarm population of the Btate or county, the nonwhite population, etc., do not represent complete aress.


[^0]:    
    
    
    
    
    
    
    
    

[^1]:    ${ }^{1}$ There are a few urbanized areas where there are 'twin central cities," nelther having a population of 50,000 or more but which have a combined population of at least 50,000 . See the section below on "Standard metropolitan statistical areas" for further discussion of twin central cities.

[^2]:    ${ }^{2}$ An enumeration district is a small area amsigned to one enumerator to be canyagsed and reported sepnrately. The average EDD contained approximately 200 housing ualts.

[^3]:    
    
    
    
    

[^4]:    ＊Nonagricultural labor force is defined as those employed in non－ agricultural occupations，those experlenced unemployed whose last oc－ cupation wan a nonagricultural occupation，members of the Armed Forces， and new workers．
    EA contiguous minor civil division either adjoins a central city in an SMSA or adjoins an intermediate minor civil alvision of qualifying popu－ lation density．There is no limit to the number of tiers of contiguous minor civil divisions so long as the minimum density requirement is met in each tier．

[^5]:    P20. If this is a woman who has ever been married How many babies has she ever had, not counting stillbinths? Do not count her stepchildren or odopted children.

[^6]:    －See U．S．Department of Labor，Bureau of Employment Securlty， Dietionary of Occupational Titles，Second Edition，Fols．I and II，Wash－ Ington，D．C．， 1949.
    ${ }^{2}$ Spe Executive Office of the Prenident，Bureau of the Budget，Standard Induatrial Clasaification Manual（1857）．For bale by the Superintendent of Documents，U．S．Government Printing offce，Washington 25，D．C．

[^7]:    a Because of a processing error, the data on thia wubject shown in tables 65, 76, and 86 were mislabeled in a number of States. To determine whether this State is one of those affected, see "List of Corrections" on page xtivir,

[^8]:    ${ }^{9}$ States enumerated completely on a single-stage basis were: Alaska, Arkansas, Hawall, Idaho, Mississippi, Montana, Nevada, New Mexico, North Dakota, South Dakota, and Wyoming. States enumerated partly, but not completely, on a single-stage basis were: Alabama, Arizona, Callfornia, Colorado, Florida, Georgia, Kansas, Kentucky, Lodisiana, Maine, Michigan, Minnesota, Nebraska, Oklahoma, Oregod, Texab, Utah, Washington, and Wisconsin.

