Table C. **Standard Error Design Factors—United States**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.7	1.0	0.8
Place of birth	2.2	2.1	1.2	1.1
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.2	2.2	1.4	1.1
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Alabama**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.6	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.4	2.1	1.2	1.0
Place of birth	2.6	2.3	1.4	1.0
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.1	2.1	1.2	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.3	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Alaska**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.6
Children ever born	2.4	2.0	1.4	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.8	1.2	1.2
Place of birth	1.6	1.5	1.0	0.9
Citizenship	1.7	1.5	1.0	0.8
Residence in 1985	2.0	1.8	1.1	1.0
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/ rural)	2.4	2.4	1.2	1.2
Household type	1.3	1.1	0.7	0.6
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.8
Subfamily type and presence of children	1.1	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.3	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.5
Place of work	1.5	1.2	0.8	0.5
Means of transportation to work	1.4	1.2	0.7	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.3	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Arkansas**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.6	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.2	1.9	1.1	0.9
Place of birth	2.3	1.9	1.2	0.9
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.1	1.9	1.0	0.8
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.6	0.8	0.7
Type of residence (urban/ rural)	2.7	2.7	1.2	0.7
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	1.0	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.1	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Arizona**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.5
Household type and relationship	1.4	1.1	0.7	0.6
Children ever born	2.7	2.3	1.6	1.4
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.1	1.8	1.1	1.0
Place of birth	1.8	1.5	1.0	0.8
Citizenship	1.9	1.5	1.0	0.8
Residence in 1985	2.1	1.8	1.1	0.9
Year of entry	1.5	1.2	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.7	0.5
School enrollment	1.9	1.5	1.0	0.8
Type of residence (urban/rural)	2.4	2.1	0.9	0.7
Household type	1.4	1.1	0.7	0.6
Family type	1.3	1.0	0.6	0.5
Group quarters	1.1	1.0	1.0	1.0
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.7	0.5
Place of work	1.6	1.2	0.8	0.5
Means of transportation to work	1.5	1.2	0.7	0.5
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.8	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.3	1.1	0.6	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.4
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.0	0.6	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.3	1.1	0.5	0.4
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.0	0.6	0.6
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.6
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—California**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.6	0.4
Household type and relationship	1.4	1.1	0.7	0.5
Children ever born	2.6	2.3	1.4	1.1
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.3	1.9	1.1	0.7
Place of birth	1.9	1.6	1.0	0.7
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.1	1.8	1.1	0.8
Year of entry	1.7	1.4	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.4	1.2	0.7	0.5
School enrollment	1.8	1.5	1.0	0.7
Type of residence (urban/rural)	2.5	2.2	1.7	0.8
Household type	1.4	1.1	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.2	1.2	1.2	0.8
Subfamily type and presence of children	1.3	1.1	0.6	0.4
Employment status	1.3	1.1	0.6	0.5
Industry	1.3	1.2	0.7	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.1	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.6	1.3	0.8	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.2	0.7	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.5	1.2	0.7	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.6	1.3	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.7	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.4	1.1	0.6	0.4
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Colorado**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.5	2.2	1.4	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.1	0.8
Place of birth	1.8	1.6	1.0	0.8
Citizenship	1.8	1.4	1.0	0.7
Residence in 1985	1.9	1.7	1.1	0.8
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	1.0	0.7
Type of residence (urban/rural)	2.1	2.1	1.8	1.2
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.6
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.8	0.6
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.8	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.9	0.4
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.4	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Connecticut**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.5
Household type and relationship	1.3	1.0	0.5	0.5
Children ever born	2.5	2.1	1.2	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	1.9	1.6	0.8	0.7
Place of birth	2.0	1.7	0.9	0.8
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.4	0.8	0.7
Type of residence (urban/rural)	2.1	1.8	1.0	0.8
Household type	1.3	1.0	0.5	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.5	1.5	1.5	1.5
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.5	0.5
Class of worker	1.5	1.3	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.6
Place of work	1.5	1.3	0.6	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.6	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Delaware**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.7	1.0	0.8
Place of birth	1.9	1.6	1.0	0.7
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	1.0	0.7
Type of residence (urban/rural)	2.4	1.9	0.9	0.7
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.2	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.6
Place of work	1.5	1.3	0.8	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	0.9	0.5	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—District of Columbia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.4	1.1	0.7	0.6
Household type and relationship	1.4	1.2	0.7	0.6
Children ever born	2.7	2.1	1.3	1.1
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.4	1.7	1.2	1.0
Place of birth	1.9	1.4	0.9	0.8
Citizenship	2.1	1.7	1.1	0.9
Residence in 1985	2.1	1.8	1.0	0.9
Year of entry	1.5	1.3	0.7	0.6
Language spoken at home and ability to speak English	1.9	1.6	0.9	0.8
Educational attainment	1.4	1.2	0.7	0.6
School enrollment	2.0	1.5	1.0	0.8
Type of residence (urban/rural)	1.2	1.0	0.6	0.5
Household type	1.4	1.2	0.7	0.6
Family type	1.2	1.1	0.6	0.5
Group quarters	1.3	0.9	0.7	0.5
Subfamily type and presence of children	1.3	1.2	0.7	0.6
Employment status	1.4	1.2	0.7	0.6
Industry	1.3	1.2	0.7	0.6
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.1	0.7	0.5
Number of workers in family	1.4	1.3	0.7	0.6
Place of work	1.7	1.4	0.8	0.7
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.4	1.1	0.7	0.6
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.2	0.7	0.6
Type of income in 1989	1.5	1.2	0.7	0.6
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.8	1.4	0.9	0.8
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.0	0.6	0.5
Condominium status	1.3	1.1	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.3	1.1	0.6	0.5
Kitchen facilities	1.2	1.1	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.7	0.6
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.3	1.2	0.7	0.6
Telephone in housing unit	1.3	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.7	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.1	0.6	0.5

Table C. **Standard Error Design Factors—Florida**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.4	1.5	1.5
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.1	1.8	1.0	0.8
Place of birth	1.8	1.5	0.9	0.8
Citizenship	1.9	1.6	1.0	0.8
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.3	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.9	1.6	1.0	0.7
Type of residence (urban/rural)	2.2	2.2	1.0	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.3	1.1	0.6	0.5
Group quarters	1.2	1.2	1.2	1.2
Subfamily type and presence of children	1.3	1.0	0.6	0.5
Employment status	1.3	1.1	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.6	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.2	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.3	1.1	0.6	0.5
Family income in 1989	1.3	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.7	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.4
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.3	1.1	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Georgia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.5	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.1	1.1	1.0
Place of birth	2.3	2.2	1.3	1.1
Citizenship	1.9	1.6	0.9	0.8
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.3	1.3
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.8	0.8	0.7
Subfamily type and presence of children	1.3	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.6
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Hawaii**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.5	1.3	1.1
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.5	2.3	1.3	1.1
Place of birth	2.0	2.0	1.0	0.8
Citizenship	1.7	1.5	0.9	0.7
Residence in 1985	2.1	2.0	1.0	0.9
Year of entry	1.5	1.3	0.8	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.2	0.7	0.6
School enrollment	1.8	1.6	0.9	0.8
Type of residence (urban/ rural)	2.4	2.4	1.2	1.0
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.5	0.4
Subfamily type and presence of children	1.2	1.1	0.6	0.5
Employment status	1.3	1.1	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.1	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.6	1.4	0.8	0.7
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.2	0.7	0.6
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.2	0.7	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.3	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.1	0.5	0.4
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.3	0.6	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.5
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.1	0.6	0.5

Table C. **Standard Error Design Factors—Idaho**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.0	0.9	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.5	2.3	1.6	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.1	0.8
Place of birth	1.8	1.6	1.1	0.8
Citizenship	1.6	1.4	1.0	0.7
Residence in 1985	2.1	1.8	1.2	0.9
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.7
Educational attainment	1.2	1.1	0.7	0.5
School enrollment	1.6	1.4	1.0	0.7
Type of residence (urban/rural)	2.9	2.4	2.0	1.4
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.8	0.8
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.1	1.0	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.1	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.9	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.1	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.1	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Illinois**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.1	1.7	0.9	0.8
Place of birth	2.3	2.1	1.2	1.1
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.4	0.8	0.7
Type of residence (urban/ rural)	2.3	2.3	1.3	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.0	0.5	0.5
Class of worker	1.5	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.3	0.6	0.6
Means of transportation to work	1.5	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.4	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Indiana**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.5	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.0	1.8	0.9	0.8
Place of birth	2.3	2.1	1.1	1.0
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.8	0.7
Type of residence (urban/rural)	2.7	2.7	1.0	1.0
Household type	1.3	1.0	0.5	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.5	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Iowa**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.6	2.4	1.5	1.4
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.8	0.8
Place of birth	2.3	2.2	1.1	1.1
Citizenship	1.7	1.4	0.7	0.7
Residence in 1985	2.0	1.9	0.9	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.7	0.7
Type of residence (urban/ rural)	2.1	2.1	0.9	0.9
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.9	0.8	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.6
Private vehicle occupancy	1.4	1.2	0.6	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.3	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.1	0.5	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Kansas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.3	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.7	1.0	0.8
Place of birth	1.9	1.9	1.2	1.0
Citizenship	1.7	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.8	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.9	0.8
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.7	0.5
Place of work	1.4	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.6	0.5
Source of water, plumbing facilities	1.2	1.2	0.9	0.5
Sewage disposal	1.4	1.2	0.7	0.6
House heating fuel	1.1	1.0	0.5	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.1	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5
	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Kentucky**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.8	2.4	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.2	1.9	1.0	0.9
Place of birth	2.5	2.2	1.1	0.9
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/ rural)	2.5	2.5	1.1	0.9
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.2	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.1	0.6	0.5
Type of income in 1989	1.3	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.6	0.6
Source of water, plumbing facilities	1.3	1.2	0.7	0.6
Sewage disposal	[illegible]	[illegible]	0.6	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Louisiana**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.6	1.5	1.4
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.3	2.0	1.1	1.0
Place of birth	2.7	2.5	1.4	1.2
Citizenship	1.9	1.6	0.8	0.7
Residence in 1985	2.2	2.0	1.1	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.3	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.5
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.2	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Maine**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.6	2.3	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.0	0.8
Place of birth	2.1	2.0	1.2	1.0
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.8
Type of residence (urban/rural)	2.2	1.9	0.9	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.3	1.3	0.6	0.5
Source of water, plumbing facilities	1.3	1.0	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. Standard Error Design Factors—Maryland

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.1	1.7	1.0	0.8
Place of birth	2.0	1.6	1.0	0.7
Citizenship	1.8	1.5	0.9	0.6
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.3	0.7	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.9	0.6
Type of residence (urban/rural)	2.1	2.1	1.1	0.8
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.6
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.4	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.3	0.8	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.1	0.6	0.5
Source of water, plumbing facilities	1.2	1.0	0.5	0.5
Sewage disposal	1.3	1.1	0.6	0.5
House heating fuel	1.1	1.0	0.6	0.4
Telephone in housing unit	1.2	1.0	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.3	1.1	0.6	0.5
	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Massachusetts**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.1	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.0	1.6	0.8	0.7
Place of birth	2.3	2.1	1.1	0.9
Citizenship	1.9	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.8	0.7
Type of residence (urban/rural)	2.1	1.8	1.0	1.0
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.5	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.6	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.1	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.4	1.2	0.5	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.3	1.1	0.5	0.5
Vehicles available	1.3	1.2	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Michigan**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.6	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.6	0.9	0.8
Place of birth	2.4	2.1	1.5	1.2
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/ rural)	2.0	2.0	1.7	1.4
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.5	1.0	0.6	0.5
Source of water, plumbing facilities	1.2	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.4	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Minnesota**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.8	1.5	0.9	0.8
Place of birth	2.1	1.9	1.3	1.1
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	1.9	1.7	1.1	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.3	0.8	0.7
Type of residence (urban/rural)	2.9	1.9	1.4	1.1
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.8	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.5	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.1	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.1	1.0	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Mississippi**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.5
Household type and relationship	1.3	1.2	0.7	0.5
Children ever born	3.0	2.9	1.8	1.5
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.4	2.3	1.2	1.1
Place of birth	2.8	2.8	1.5	1.3
Citizenship	1.9	1.7	0.9	0.7
Residence in 1985	2.2	2.1	1.1	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.2	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.4	2.4	1.7	1.0
Household type	1.3	1.2	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	1.0	1.0	1.0
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.1	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.3	0.7	0.6
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.8	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.1	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.4
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.3	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Missouri**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.4	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.0	1.7	0.9	0.8
Place of birth	2.3	2.1	1.0	1.0
Citizenship	1.8	1.6	0.8	0.7
Residence in 1985	2.1	1.8	1.0	0.8
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/ rural)	2.4	2.4	1.2	0.7
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.6
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Montana

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.7	0.5
Children ever born	2.6	2.4	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.7	1.6	1.0	0.7
Place of birth	1.9	1.8	1.1	0.9
Citizenship	1.6	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.2	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.6	1.1
Household type	1.2	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.8	0.8	0.8
Subfamily type and presence of children	1.2	0.9	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.4
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.1	0.8	0.6
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Nebraska**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.2	1.1	0.7	0.5
Children ever born	2.5	2.3	1.8	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.6	1.1	0.8
Place of birth	2.1	2.0	1.4	1.1
Citizenship	1.7	1.4	1.0	0.7
Residence in 1985	2.0	1.8	1.2	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/ rural)	2.1	2.1	1.5	1.0
Household type	1.2	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.8	0.7	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.5
Sewage disposal	1.0	1.0	0.6	0.4
House heating fuel	1.3	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Nevada

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.6
Children ever born	2.6	2.2	1.3	1.3
Work disability and mobility limitation status	1.3	1.0	0.6	0.5
Ancestry	2.1	1.7	0.9	0.9
Place of birth	1.7	1.5	0.8	0.7
Citizenship	1.8	1.4	0.8	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.5	1.2	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.9	1.4	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.7	1.5
Household type	1.3	1.1	0.6	0.6
Family type	1.3	1.0	0.6	0.5
Group quarters	1.1	1.0	1.0	1.0
Subfamily type and presence of children	1.3	1.0	0.6	0.6
Employment status	1.3	1.0	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.6	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.6	1.2	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.5	1.2	0.6	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.4	1.0	0.5	0.5
Source of water, plumbing facilities	1.5	1.1	0.5	0.4
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.0	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—New Hampshire**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	1.9	1.6	0.9	0.8
Citizenship	1.8	1.5	0.9	0.8
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.6
School enrollment	1.8	1.5	0.9	0.8
Type of residence (urban/rural)	2.1	1.8	1.0	0.9
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	0.8	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	0.9	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—New Jersey**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.1	1.3	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.1	1.7	0.9	0.7
Place of birth	2.0	1.7	1.0	0.8
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.2	1.9	1.0	0.9
Year of entry	1.6	1.3	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.2	1.9	1.4	0.8
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—New York**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.4	1.1	0.6	0.5
Children ever born	2.6	2.2	1.3	1.1
Work disability and mobility limitation status	1.3	1.0	0.6	0.5
Ancestry	2.1	1.6	0.9	0.8
Place of birth	2.4	2.4	1.4	1.2
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.3	1.9	1.1	0.9
Year of entry	1.6	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/ rural)	2.1	1.8	1.7	1.5
Household type	1.4	1.1	0.6	0.5
Family type	1.3	1.1	0.6	0.5
Group quarters	1.1	0.8	0.8	0.8
Subfamily type and presence of children	1.3	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.5	1.2	0.6	0.5
Household income in 1989	1.3	1.0	0.5	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.3	0.8	0.7
Poverty status in 1989 (families)	1.3	1.0	0.5	0.5
Armed Forces and veteran status	1.7	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.5	0.5
Condominium status	1.3	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.3	1.0	0.5	0.5
Year structure built	1.3	1.0	0.5	0.5
Rooms, bedrooms	1.3	1.1	0.5	0.5
Kitchen facilities	1.4	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—New Mexico

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.6
Children ever born	2.9	2.5	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.4	2.0	1.4	1.2
Place of birth	2.0	1.7	1.3	1.1
Citizenship	1.8	1.5	1.0	0.8
Residence in 1985	2.1	1.9	1.2	1.0
Year of entry	1.4	1.1	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.3	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.6
School enrollment	1.7	1.5	0.9	0.8
Type of residence (urban/rural)	2.6	2.6	1.4	1.4
Household type	1.3	1.1	0.7	0.6
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.6
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.6
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.6	0.5
Source of water, plumbing facilities	1.2	1.2	0.8	0.5
Sewage disposal	1.3	1.1	0.6	0.5
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—North Carolina**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.6	2.5	1.6	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.0	1.0	0.9
Place of birth	2.4	2.2	1.1	1.1
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.9	1.0	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.3	2.2	1.5	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	0.9	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.2	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.6
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—North Dakota

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.8	0.5
Children ever born	2.6	2.5	2.1	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.6	1.2	0.8
Place of birth	2.1	2.1	1.7	1.1
Citizenship	1.6	1.5	1.1	0.7
Residence in 1985	2.0	1.8	1.5	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	1.0	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	1.1	0.7
Type of residence (urban/rural)	2.2	2.2	1.7	0.9
Household type	1.2	1.1	0.8	0.5
Family type	1.2	1.0	0.7	0.5
Group quarters	0.7	0.7	0.7	0.7
Subfamily type and presence of children	1.2	0.9	0.6	0.5
Employment status	1.2	1.0	0.7	0.5
Industry	1.3	1.0	0.7	0.5
Occupation	1.2	1.0	0.7	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.8	0.5
Place of work	1.5	1.2	0.9	0.6
Means of transportation to work	1.4	1.1	0.8	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.5	1.1	0.8	0.6
Time leaving home to go to work	1.3	1.0	0.7	0.5
Type of income in 1989	1.4	1.1	0.8	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.7	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.9	0.6
Poverty status in 1989 (families)	1.2	0.9	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.9	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	0.9	0.7	0.5
Condominium status	1.2	1.0	0.7	0.5
Units in structure	1.1	1.0	0.7	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.7	0.5
Kitchen facilities	1.4	1.4	0.9	0.5
Source of water, plumbing facilities	1.5	1.1	0.8	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.7	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	0.9	0.6	0.5

Table C. **Standard Error Design Factors—Ohio**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.5	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.7	0.9	0.8
Place of birth	2.3	2.2	1.2	1.0
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.0	1.9	0.9	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.8	0.7
Type of residence (urban/rural)	2.4	2.4	0.9	0.9
Household type	1.2	1.0	0.5	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Oklahoma**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.4	1.6	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.1	1.8	1.0	0.8
Place of birth	2.1	1.9	1.1	0.9
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.5	2.5	1.5	1.3
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.1	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.6
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Oregon**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.0	0.8
Place of birth	1.8	1.5	0.9	0.8
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	2.0	1.7	1.0	0.8
Year of entry	1.5	1.2	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.6	2.6	1.5	1.1
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.1	1.0	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.1	0.8	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Pennsylvania**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	2.6	2.3	1.2	1.1
Citizenship	1.9	1.5	0.9	0.7
Residence in 1985	2.2	1.9	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/ rural)	2.0	1.8	1.2	1.2
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.4	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Rhode Island**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.5
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.2	0.6	0.5
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.0	1.6	0.6	0.5
Place of birth	2.1	1.8	0.6	0.5
Citizenship	1.8	1.6	0.6	0.5
Residence in 1985	2.1	1.9	0.6	0.5
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.6	0.5
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.6	0.5
Type of residence (urban/rural)	2.1	1.9	0.6	0.5
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.7	0.6	0.5
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.2	0.6	0.5
Means of transportation to work	1.5	1.3	0.6	0.5
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.6	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.6	0.5
Poverty status in 1989 (families)	1.2	1.1	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.2	0.6	0.5
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.4	1.2	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—South Carolina**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.5	1.4	1.4
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.4	2.1	1.2	1.0
Place of birth	2.4	2.2	1.3	1.2
Citizenship	1.9	1.6	0.9	0.8
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.1	1.9	1.2	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.6
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—South Dakota**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.7	2.4	1.8	1.6
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.1	0.8
Place of birth	2.2	2.0	1.5	1.1
Citizenship	1.7	1.4	1.0	0.7
Residence in 1985	2.0	1.9	1.3	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.9	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	1.0	0.7
Type of residence (urban/rural)	3.4	2.3	1.5	1.1
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.0	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	0.9	0.6	0.5
Number of workers in family	1.4	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.5	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.5	1.2	0.8	0.6
Time leaving home to go to work	1.3	1.0	0.7	0.5
Type of income in 1989	1.4	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.9	0.6
Poverty status in 1989 (families)	1.2	0.9	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.3	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.7	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.4	1.3	0.7	0.5
Source of water, plumbing facilities	1.4	1.1	0.7	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.3	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.7	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	0.9	0.6	0.5

Table C. **Standard Error Design Factors—Tennessee**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.6	2.4	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.2	2.0	1.1	1.0
Place of birth	2.3	2.1	1.2	1.0
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	1.3	0.8
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.6
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Texas**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.5	1.3
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.4	2.0	1.1	0.9
Place of birth	2.3	2.1	1.3	1.1
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/ rural)	2.5	2.5	1.5	1.3
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	1.0	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.8	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.1	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Utah

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.4	1.2	0.8	0.6
Children ever born	2.7	2.4	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.2	1.0
Place of birth	2.3	2.1	1.5	1.3
Citizenship	1.7	1.5	1.0	0.7
Residence in 1985	2.2	2.0	1.3	1.1
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	2.2	1.7
Household type	1.4	1.2	0.8	0.6
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.8	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.4
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.9	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	0.9	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.7	0.6
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Vermont**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.5	1.0	0.8
Place of birth	1.9	1.6	1.0	0.9
Citizenship	1.7	1.4	1.0	0.8
Residence in 1985	1.9	1.7	1.0	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.9	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	1.0	0.8
Type of residence (urban/ rural)	1.7	1.7	1.4	1.4
Household type	1.2	1.0	0.6	0.5
Family type	1.1	1.0	0.6	0.5
Group quarters	1.0	1.1	0.9	0.8
Subfamily type and presence of children	1.1	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.2	1.0	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.1	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.6
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.0	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.1	1.0	0.6	0.5
Family income in 1989	1.1	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.5	1.2	0.7	0.7
Poverty status in 1989 (families)	1.1	0.9	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	0.9	0.9	0.5	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.1	1.0	0.6	0.5
Year structure built	1.1	1.0	0.5	0.5
Rooms, bedrooms	1.1	1.0	0.6	0.5
Kitchen facilities	1.1	0.9	0.6	0.6
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	0.9	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	0.9	0.5	0.5

Table C. Standard Error Design Factors—Virginia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.0	0.6	0.4
Children ever born	2.5	2.3	1.4	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.1	1.0
Place of birth	2.0	1.8	1.1	1.0
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.2	0.7	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	1.9	1.2
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.4
Kitchen facilities	1.2	1.1	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.6
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Washington**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.0	0.8
Place of birth	1.8	1.6	0.9	0.8
Citizenship	1.7	1.4	0.8	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.8	0.7
Type of residence (urban/rural)	2.3	2.3	1.5	1.1
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.6
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.8	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—West Virginia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.6	2.6	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.1	0.9
Place of birth	2.5	2.3	1.4	1.1
Citizenship	1.8	1.6	1.0	0.8
Residence in 1985	2.2	1.9	1.1	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.1	1.9	0.9	0.7
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.1	0.6	0.5
Type of income in 1989	1.4	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.7	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	1.2	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Wisconsin**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	2.3	2.2	1.2	1.1
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/ rural)	2.0	2.0	1.4	1.2
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.8	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.7	[illegible]
HOUSING				
Age of householder	1.2	1.0	0.6	[illegible]
Race of householder	1.2	1.0	0.6	[illegible]
Hispanic origin of householder	1.2	1.0	0.6	
Type of residence (urban/ rural)	1.0	0.9	0.5	
Condominium status	1.2	1.0	0.5	
Units in structure	1.1	1.0	0.5	
Tenure	1.2	1.0	0.6	
Occupancy status	1.2	1.0	0.6	
Value	1.1	1.0	0.5	
Gross rent	1.2	1.0	0.5	
Household income in 1989	1.2	1.0	0.5	
Year structure built	1.2	1.0	0.5	
Rooms, bedrooms	1.2	1.0	0.5	
Kitchen facilities	1.2	1.1	0.5	
Source of water, plumbing facilities	1.2	1.1	0.5	
Sewage disposal	1.1	0.9	0.5	
House heating fuel	1.3	1.1	0.5	
Telephone in housing unit	1.2	1.0	0.5	
Vehicles available	1.2	1.1	0.5	
Year householder moved into structure	1.2	1.0	0.5	
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	

...e C. Standard Error Design Factors—Wyoming

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.4
Household type and relationship	1.3	1.0	0.7	0.5
Children ever born	2.6	1.1	1.5	1.2
Work disability and mobility limitation status	1.2	2.3	0.6	0.5
Ancestry	1.9	1.0	1.0	0.8
Place of birth	1.8	1.7	0.9	0.7
Citizenship	1.7	1.6	1.2	0.7
Residence in 1985	2.1	1.6	0.6	0.9
Year of entry	1.3	1.9	0.9	0.5
Language spoken at home and ability to speak English	1.6	1.1	0.7	0.6
Educational attainment	1.3	1.4	0.9	0.5
School enrollment	1.7	1.1	1.7	0.7
Type of residence (urban/rural)	2.0	1.5	0.7	0.7
Household type	1.3	1.9	0.6	0.5
Family type	1.2	1.1	1.2	0.5
Group quarters	1.2	1.1	0.5	1.2
Subfamily type and presence of children	1.2	1.2	0.6	0.4
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.0	0.6	0.5
Occupation	1.2	1.1	0.7	0.5
Class of worker	1.4	1.0	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.2	0.7	0.4
Number of workers in family	1.4	1.0	0.8	0.5
Place of work	1.5	1.2	0.7	0.5
Means of transportation to work	1.4	1.3	0.7	0.5
Travel time to work	1.3	1.2	0.7	0.5
Private vehicle occupancy	1.4	1.1	0.6	0.5
Time leaving home to go to work	1.2	1.2	0.7	0.5
Type of income in 1989	1.2	1.0	0.6	0.5
Household income in 1989	1.6	1.0	0.6	0.5
Family income in 1989	1.2	1.4	0.8	0.5
Poverty status in 1989 (persons)	1.3	1.0	0.6	0.7
Poverty status in 1989 (families)		1.2	0.7	0.5
Armed Forces and veteran status	1.2			0.5
HOUSING	1.2	1.0	0.6	
...of householder	1.2	1.0	0.6	0.5
...of householder	1.2	1.0	0.6	0.5
...nic origin of householder	1.0	0.9	0.5	0.5
...of residence (urban/rural)	1.2	1.0	0.6	0.5
...minium status	1.2	1.0	0.6	0.5
...n structure	1.2	1.0	0.6	0.5
...	1.2	1.0	0.6	0.5
...ancy status	1.2	1.0	0.6	0.5
...nt	1.2	1.0	0.6	0.5
...ld income in 1989	1.2	1.0	0.6	0.5
...cture built	1.2	1.0	0.6	0.5
...edrooms	1.2	1.0	0.6	0.5
...cilities	1.2	1.0	0.6	0.5
...water, plumbing facilities	1.2	1.0	0.6	0.5
...sposal	1.2	1.0	0.6	0.5
...ing fuel	1.2	1.0	0.6	0.5
...n housing unit	1.4	1.2	0.6	0.5
...ilable	1.2	1.1	0.5	0.5
...older moved into structure	1.3	1.0	0.6	0.5
...tus and monthly mortgage costs	1.3	1.0	0.6	0.6
...tus and selected monthly owner costs	1.3	1.1	0.6	0.4
...a percentage of household income in 1989	1.2	1.1	0.6	0.5
...ome in 1989 by selected monthly owner costs	1.2	1.0	0.6	0.5
...ge of income	1.2	1.0	0.6	0.5
	1.3	1.0	0.6	0.5
	1.2	1.0	0.6	0.5
		1.0	0.6	0.5

APPENDIX D.
Collection and Processing Procedures

CONTENTS

Data Collection Procedures D–2
Enumeration and Residence Rules D–1
Processing Procedures D–5

ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

Enumeration Rules

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other Americans living overseas, such as employees of international agencies and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

Residence Rules

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

Persons in the Armed Forces—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of

the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

Persons on Maritime Ships—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

Persons Away at School—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

Persons in Institutions—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

Persons Away From Their Usual Residence on Census Day—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

Enumeration of Housing Units

Each housing unit in the country received one of two versions of the census questionnaire:

1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100-percent questions.
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/ mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990)

The update/ leave/ mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did *not* use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method

was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/ enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

Followup

Nonresponse Followup—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

Coverage and Edit-Failure Followup—In the mail-back areas, some households returned a questionnaire [illegible] specific quality standards because of [illegible] contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.
4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing $12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as [illegible] homes for unwed [illegible] hospitals, the Census Bureau [illegible] usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).

2. Hotels and motels used to house homeless persons and families.

3. A list of outdoor locations where homeless persons tend to be at night.

4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.

5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing $4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 8, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

PROCESSING PROCEDURES

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied by the respondent was indicated by filling circles in predesignated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC.

APPENDIX E.
Facsimiles of Respondent Instructions and Questionnaire Pages

Your Guide for the

1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside

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How to fill out your census form	**2**
Example	**2**
Your answers are confidential	**2**
Instructions for the census questions	**3–11**
What the census is about	**12**
Why the census asks certain questions	**12**

CENSUS '90

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

D-4

How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than ballpoint or other pens. Most questions ask you to fill in the circle, or to print the information. See **Example** below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.

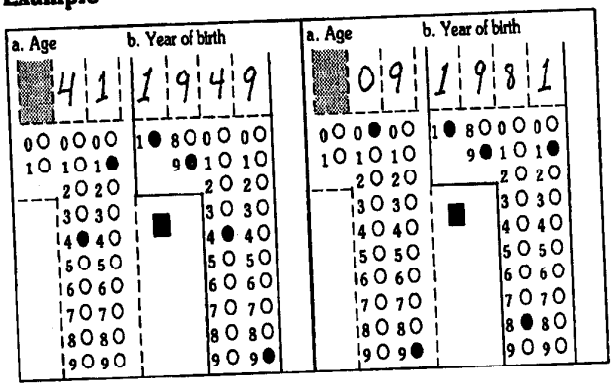
There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. **The telephone number is given on the cover of the questionnaire.**

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

Example



Your Answers Are Confidential

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups--including community organizations--and by businesses and industries, as well as by agencies at all levels of government.

Instructions for Questions 1a through 7

1a. List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.

If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.

b. If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.

2. Fill one circle to show how each person is related to the person in column 1.

If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.

If the **Stepson/stepdaughter** of the person in column 1 also has been legally adopted by the person in column 1, mark **Stepson/stepdaughter** but do not mark **Natural-born or adopted son/daughter**. In other words, **Stepson/stepdaughter** takes precedence over **Adopted son/daughter.**

4. Fill ONE circle for the race each person considers himself/herself to be.

If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).

If you fill the **Other API** circle [under **Asian or Pacific Islander (API)**], **only** print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sri Lankan, and so on.

If you fill the **Other race** circle, be sure to print the name of the race.

If the person considers himself/herself to be **White, Black or Negro, Eskimo or Aleut, fill one circle only. Please do not print the race in the boxes.**

The **Black or Negro** category also includes persons who identify as African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.

All persons, regardless of citizenship status, should answer this question.

5. Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the **Example** on page 2 of this guide.

6. If the person's only marriage was annulled, mark **Never married.**

7. A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadoran, Guatemalan, Honduran, Nicaraguan, Peruvian, Salvadoran, from other Spanish-speaking countries of the Caribbean or Central or South America, or from Spain.

If you fill the **Yes, other Spanish/Hispanic** circle, print one group.

A person who is not of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term **"Mexican-Am."** refers only to persons of Mexican origin or ancestry.

All persons, regardless of citizenship status, should answer this question.

Instructions for Question H1a through H1b

H1a. Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as **Yes.** Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as **No.**

b. If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes.** Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No.**

Instructions for Questions H2 through H7b

H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of **A one-family house attached to one or more houses** is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house;* a porch or shed is not considered a room.

H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

H4. Housing is owned if the owner or co-owner lives in it. Mark **Owned by you or someone in this household with a mortgage or loan** if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark **Owned by you or someone in this household free and clear (without a mortgage)** if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark **Rented for cash rent** if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark **Occupied without payment of cash rent** if the unit is **not** owned or being bought by the occupants and if money rent is **not** paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonages; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day	30	4 times a year	3
By the week	4	2 times a year	6
Every other week	2	Once a year	12

b. Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

Instructions for Questions H8 through H19b

H8. The *person listed in column 1* refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

H10. Mark **Yes, have all three facilities** if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do **not** count cars or trucks permanently out of working order.

H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

Solar energy is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system.** If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well.**

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

H16. A **public sewer** may be operated by a government body or private organization. A **septic tank or cesspool** is an underground tank or pit used for disposal of sewage.

H17. Fill the circle corresponding to the period in which the original construction was completed, *not* the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

H18. A *condominium* is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

b. *This property* is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

Instructions for Questions H20 through H26

H20. If your house or apartment is rented, enter the costs for utilities and fuels **only if you pay for them in addition to the rent entered in H7a.**

If you live in a condominium, enter the costs for utilities and fuels **only if you pay for them in addition to your condominium fee.**

If your fuel and utility costs are already included in your rent or condominium fee, fill the **Included in rent or in condominium fee** circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [ ] the two utilities.

H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.

H22. [illegible]

Enter the yearly amount even if no payment was made during the past 12 months.

[illegible]

b. [illegible]

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

H24a. A second or junior mortgage or home equity loan is secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

H25. A *condominium fee* is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

H26. Report amount even if your bills are unpaid or paid by someone else.

Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21. The amount to be reported should be the total amount for an entire 12-month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

Instructions for Question 8

8. *For persons born in the United States:*

Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland, or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies).

Instructions for Questions 9 through 13

9. A person should fill the **Yes, U.S. citizen by naturalization** circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the **Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas** circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the **Yes, born abroad of American parent or parents** circle.

10. If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

11. Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A *public school* is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are

[illegible]

person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of *professional school degrees* include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

13. Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. *All* persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dominica Island.

A religious group should not be reported as a person's ancestry.

Instructions for Questions 14a through 19

14a. Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).

b. If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York city and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No, lived outside the city/town limits** in part (4).

Part (4)

Mark **Yes** if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

15. Mark **Yes** if the person sometimes or always speaks a language other than English at home.

Do not mark **Yes** for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

17a. For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes, active duty** circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes, service in Reserves or National Guard only**. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count **World War II** Merchant Marine Seaman service as active duty; do **not** count other Merchant Marine service as active duty.

18. Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.

19. Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

Instructions for Questions 20 through 23b

20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

21a. *Count as work — Mark* **Yes:**

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work — Mark **No:**

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

22a. Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work location. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

d. *If the person worked in New York city* and the county is not known, print the name of the borough where the person worked.

If the person worked in Louisiana, print the name of the parish where the person worked.

If the person worked in Alaska, print the name of the borough where the person worked.

e. *If the person worked in a foreign country or Puerto Rico, Guam, etc.*, print the name of the country in 22e and leave the other parts of question 22 blank.

23a. *If the person usually used more than one type of transportation to get to work* (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.

b. *If the person was driven to work by someone who then drove back home or to a nonwork destination*, fill the circle for **Drove alone.**

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.

Instructions for Questions 24a through 30

24a. Give the time of day the person usually *left home to go to work.* DO NOT give the time that the person usually began his or her work.

If the person usually left home to go to work sometime *between 12:00 o'clock midnight and 12:00 o'clock noon,* fill the **a.m.** circle.

If the person usually left home to go to work sometime *between 12:00 o'clock noon and 12:00 o'clock midnight,* fill the **p.m.** circle.

b. Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.

25. If the person works only during certain seasons or on a day-by-day basis when work is available, mark **No**.

26a. Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.

b. Mark **No, already has a job** if the person was on layoff or was expecting to report to a job within 30 days.

Mark **No, temporarily ill** if the person expects to be able to work within 30 days.

Mark **No, other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.

27. Look at the instructions for question 21a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.

28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."

b. Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.

Some examples of what to enter:

Enter a description like the following –	**Do not enter –**
Metal furniture manufacturing	Furniture company
Retail grocery store	Grocery store
Petroleum refining	Oil company
Cattle ranch	Ranch

29. Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description.

Some examples of what to enter:

Enter a description like the following –	**Do not enter –**
Production clerk	Clerk
Carpenter's helper	Helper
Auto engine mechanic	Mechanic
Registered nurse	Nurse

30. Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.

Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.

For persons who worked at a public school, college or university, mark the appropriate *government* category; for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

Instructions for Questions 31a through 32h

31a. Look at the instructions for question 21a to see what to count as work.

b. Count every week in which the person did any work at all, even for an hour.

32. Fill the **Yes** or **No** circle for each part and enter the amount received during 1989.

If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the **No** circle for the other person.

a. Include wages and salaries from *all* jobs *before* deductions. Be sure to include any tips, commissions, or bonuses. Owners of *incorporated* businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.

b. Include *NONFARM* profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated businesses you own.

c. Include *FARM* profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated farm businesses you own. Also *exclude* amounts from land rented for cash but include amounts from land rented for shares.

d. Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.

Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.

Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose *primary* source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.

e. Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers *before* Medicare deductions.

f. Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. *Exclude* assistance to pay for heating (cooling) costs.

g. Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.

h. Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.

Do not include the following as income in any item:

- Refunds or rebates of any kind
- Withdrawals from savings of any kind
- Capital gains or losses from the sale of homes, shares of stock, etc.
- Inheritances or insurance settlements
- Any type of loan
- Pay in-kind such as food, free rent, etc.

What the Census Is About –
Some Questions and Answers

Why are we taking a census?
The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

What does the Census Bureau do with the information you provide?
The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

How long have we been taking the census?
The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

How are you being counted?
Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

Why the Census Asks Certain Questions

Here are a few reasons for asking some of the questions.

It is as important to get information about people and their houses as it is to count them.

Name?
Names help make sure that everyone in a household is counted, but that no one is counted twice.

Value or rent?
Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

Complete plumbing?
This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

Place of birth?
This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

Job?
Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

Income?
Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

CENSUS '90

OFFICIAL 1990 U.S. CENSUS FORM

Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

The law requires answers but guarantees privacy.

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years--or until the year 2062--only Census Bureau employees can see your form. No one else--no other government body, no police department, no court system or welfare agency--is permitted to see this confidential information under any circumstances.

How to get started--and get help.

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

Please answer and return your form promptly.

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census.
Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana –
(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: 1-800-CUENTAN
(o sea 1-800-283-6826)

U.S. Department of Commerce
BUREAU OF THE CENSUS

FORM D-2

OMB No. 0607-0628
Approval Expires 07/31/91

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.

Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- Newborn babies still in the hospital
- Children in boarding schools below the college level
- Persons who stay here most of the week while working even if they have a home somewhere else
- Persons with no other home who are staying here on April 1

Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

	LAST	FIRST	INITIAL		LAST	FIRST	INITIAL
1				7			
2				8			
3				9			
4				10			
5				11			
6				12			

1b. If EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle → ○ and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.

House number | Street or road/Rural route and box number | Apartment number

City | State | ZIP Code

County or foreign country | Names of nearest intersecting streets or roads

NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY.

PLEASE ALSO ANSWER HOUSING QUESTIONS ON PAGE 3 →

Please fill one column for each person listed in Question 1a on page 1.	PERSON 1	PERSON 2
	Last name First name Middle initial	Last name First name Middle initial
2. How is this person related to PERSON 1? Fill ONE circle for each person. If **Other relative** of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member.	If a RELATIVE of Person 1: ○ Husband/wife ○ Brother/sister ○ Natural-born or adopted son/daughter ○ Father/mother ○ Stepson/stepdaughter ○ Grandchild ○ Other relative → If NOT RELATED to Person 1: ○ Roomer, boarder, or foster child ○ Unmarried partner ○ Housemate, roommate ○ Other nonrelative
3. Sex Fill ONE circle for each person.	○ Male ○ Female	○ Male ○ Female
4. Race Fill ONE circle for the race that the person considers himself/herself to be. If **Indian (Amer.)**, print the name of the enrolled or principal tribe. → If **Other Asian or Pacific Islander (API)**, print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. → If **Other race**, print race. →	○ White ○ Black or Negro ○ Indian (Amer.) (Print the name of the enrolled or principal tribe.) → ○ Eskimo ○ Aleut Asian or Pacific Islander (API) ○ Chinese ○ Japanese ○ Filipino ○ Asian Indian ○ Hawaiian ○ Samoan ○ Korean ○ Guamanian ○ Vietnamese ○ Other API → ○ Other race (Print race) →	○ White ○ Black or Negro ○ Indian (Amer.) (Print the name of the enrolled or principal tribe.) → ○ Eskimo ○ Aleut Asian or Pacific Islander (API) ○ Chinese ○ Japanese ○ Filipino ○ Asian Indian ○ Hawaiian ○ Samoan ○ Korean ○ Guamanian ○ Vietnamese ○ Other API → ○ Other race (Print race) →
5. Age and year of birth a. Print each person's age at last birthday. Fill in the matching circle below each box. b. Print each person's year of birth and fill the matching circle below each box.	a. Age 0 ○ 0 ○ 0 ○ 1 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○ b. Year of birth 1 ● 8 ○ 0 ○ 0 ○ 9 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○	a. Age 0 ○ 0 ○ 0 ○ 1 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○ b. Year of birth 1 ● 8 ○ 0 ○ 0 ○ 9 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○
6. Marital status Fill ONE circle for each person.	○ Now married ○ Separated ○ Widowed ○ Never married ○ Divorced	○ Now married ○ Separated ○ Widowed ○ Never married ○ Divorced
7. Is this person of Spanish/Hispanic origin? Fill ONE circle for each person. If **Yes, other Spanish/Hispanic**, print one group. →	○ No (not Spanish/Hispanic) ○ Yes, Mexican, Mexican-Am., Chicano ○ Yes, Puerto Rican ○ Yes, Cuban ○ Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →	○ No (not Spanish/Hispanic) ○ Yes, Mexican, Mexican-Am., Chicano ○ Yes, Puerto Rican ○ Yes, Cuban ○ Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →
FOR CENSUS USE →	○ ○	○ ○

NOW PLEASE ANSWER QUESTIONS H1a—H26 FOR THIS HOUSEHOLD

PERSON 7

Last name

First name — Middle initial

If a RELATIVE of Person 1:

- O Husband/wife
- O Natural-born or adopted son/daughter
- O Stepson/stepdaughter
- O Brother/sister
- O Father/mother
- O Grandchild
- O Other relative

If NOT RELATED to Person 1:

- O Roomer, boarder, or foster child
- O Housemate, roommate
- O Unmarried partner
- O Other nonrelative

- O Male
- O Female

- O White
- O Black or Negro
- O Indian (Amer.) (Print the name of the enrolled or principal tribe.)
- O Eskimo
- O Aleut

Asian or Pacific Islander (API)

- O Chinese
- O Filipino
- O Hawaiian
- O Korean
- O Vietnamese
- O Japanese
- O Asian Indian
- O Samoan
- O Guamanian
- O Other API

- O Other race (Print race)

a. Age — b. Year of birth

- O Now married
- O Widowed
- O Divorced
- O Separated
- O Never married

- O No (not Spanish/Hispanic)
- O Yes, Mexican, Mexican-Am., Chicano
- O Yes, Puerto Rican
- O Yes, Cuban
- O Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)

H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?

O Yes, please print the name(s) and reason(s). O No

b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?

O Yes, please print the name(s) and reason(s). O No

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

- O A mobile home or trailer
- O A one-family house detached from any other house
- O A one-family house attached to one or more houses
- O A building with 2 apartments
- O A building with 3 or 4 apartments
- O A building with 5 to 9 apartments
- O A building with 10 to 19 apartments
- O A building with 20 to 49 apartments
- O A building with 50 or more apartments
- O Other

H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

- O 1 room
- O 2 rooms
- O 3 rooms
- O 4 rooms
- O 5 rooms
- O 6 rooms
- O 7 rooms
- O 8 rooms
- O 9 or more rooms

H4. Is this house or apartment —

- O Owned by you or someone in this household with a mortgage or loan?
- O Owned by you or someone in this household free and clear (without a mortgage)?
- O Rented for cash rent?
- O Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —

H5a. Is this house on ten or more acres?

O Yes O No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

O Yes O No

Answer only if you or someone in this household OWNS OR IS BUYING this house or apartment —

H6. What is the value of this property; that is, how much do you think this house and lot or condominium unit would sell for if it were for sale?

- O Less than $10,000
- O $10,000 to $14,999
- O $15,000 to $19,999
- O $20,000 to $24,999
- O $25,000 to $29,999
- O $30,000 to $34,999
- O $35,000 to $39,999
- O $40,000 to $44,999
- O $45,000 to $49,999
- O $50,000 to $54,999
- O $55,000 to $59,999
- O $60,000 to $64,999
- O $65,000 to $69,999
- O $70,000 to $74,999
- O $75,000 to $79,999
- O $80,000 to $89,999
- O $90,000 to $99,999
- O $100,000 to $124,999
- O $125,000 to $149,999
- O $150,000 to $174,999
- O $175,000 to $199,999
- O $200,000 to $249,999
- O $250,000 to $299,999
- O $300,000 to $399,999
- O $400,000 to $499,999
- O $500,000 or more

Answer only if you PAY RENT for this house or apartment —

H7a. What is the monthly rent?

- O Less than $80
- O $80 to $99
- O $100 to $124
- O $125 to $149
- O $150 to $174
- O $175 to $199
- O $200 to $224
- O $225 to $249
- O $250 to $274
- O $275 to $299
- O $300 to $324
- O $325 to $349
- O $350 to $374
- O $375 to $399
- O $400 to $424
- O $425 to $449
- O $450 to $474
- O $475 to $499
- O $500 to $524
- O $525 to $549
- O $550 to $599
- O $600 to $649
- O $650 to $699
- O $700 to $749
- O $750 to $999
- O $1,000 or more

b. Does the monthly rent include any meals?

O Yes O No

FOR CENSUS USE

A. Total persons

B. Type of unit — Occupied: O First form, O Cont'n — Vacant: O Regular, O Usual home elsewhere

C1. Vacancy status: O For rent, O For sale only, O Rented or sold, not occupied, O For seas/rec/occ, O For migrant workers, O Other vacant

C2. Is this unit boarded up? O Yes O No

D. Months vacant: O Less than 1, O 1 up to 2, O 2 up to 6, O 6 up to 12, O 12 up to 24, O 24 or more

E. Complete after: O LR O TC O QA O I/T O MV O ED O EN — O P0 O P3 O P6 O P1 O P4 O IA O P2 O P5 O SM — JIC 1 O, JIC 2 O

F. Cov.: O 1b O 1a O 7 O H1

G. DO ID

PLEASE ALSO ANSWER THESE

H8. When did the person listed in column 1 on page 2 move into this house or apartment?

- O 1989 or 1990
- O 1985 to 1988
- O 1980 to 1984
- O 1970 to 1979
- O 1960 to 1969
- O 1959 or earlier

H9. How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?

- O No bedroom
- O 1 bedroom
- O 2 bedrooms
- O 3 bedrooms
- O 4 bedrooms
- O 5 or more bedrooms

H10. Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?

- O Yes, have all three facilities
- O No

H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?

- O Yes
- O No

H12. Do you have a telephone in this house or apartment?

- O Yes
- O No

H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?

- O None
- O 1
- O 2
- O 3
- O 4
- O 5
- O 6
- O 7 or more

H14. Which FUEL is used MOST for heating this house or apartment?

- O Gas: from underground pipes serving the neighborhood
- O Gas: bottled, tank, or LP
- O Electricity
- O Fuel oil, kerosene, etc.
- O Coal or coke
- O Wood
- O Solar energy
- O Other fuel
- O No fuel used

H15. Do you get water from —

- O A public system such as a city water department, or private company?
- O An individual drilled well?
- O An individual dug well?
- O Some other source such as a spring, creek, river, cistern, etc.?

H16. Is this building connected to a public sewer?

- O Yes, connected to public sewer
- O No, connected to septic tank or cesspool
- O No, use other means

H17. About when was this building first built?

- O 1989 or 1990
- O 1985 to 1988
- O 1980 to 1984
- O 1970 to 1979
- O 1960 to 1969
- O 1950 to 1959
- O 1940 to 1949
- O 1939 or earlier
- O Don't know

H18. Is this house or apartment part of a condominium?

- O Yes
- O No

If you live in an apartment building, skip to H20.

H19a. Is this house on less than 1 acre?

- O Yes — *Skip to H20*
- O No

b. In 1989, what were the actual sales of all agricultural products from this property?

- O None
- O $1 to $999
- O $1,000 to $2,499
- O $2,500 to $4,999
- O $5,000 to $9,999
- O $10,000 or more

H20. What are the yearly costs of utilities and fuels for this house or apartment?
If you have lived here less than 1 year, estimate the yearly cost.

a. Electricity

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or electricity not used

b. Gas

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or gas not used

c. Water

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge

d. Oil, coal, kerosene, wood, etc.

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or these fuels not used

INSTRUCTION:

Answer questions H21 TO H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

$ .00
Yearly amount — Dollars

OR

O None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

$ .00
Yearly amount — Dollars

OR

O None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

O Yes, mortgage, deed of trust, or similar debt
O Yes, contract to purchase
} *Go to H23b*
O No — *Skip to H24a*

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

$ .00
Monthly amount — Dollars

OR

O No regular payment required — *Skip to H24a*

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

O Yes, taxes included in payment
O No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

O Yes, insurance included in payment
O No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

O Yes
O No — *Skip to H25*

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

$ .00
Monthly amount — Dollars

OR

O No regular payment required

Answer ONLY if this is a CONDOMINIUM —

H25. What is the monthly condominium fee?

$ .00
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —

H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

$ .00
Yearly amount — Dollars

Please turn to page 6.

PERSON 1

Last name First name Middle initial

8. In what U.S. State or foreign country was this person born?

(Name of State or foreign country; or Puerto Rico, Guam, etc.)

9. Is this person a CITIZEN of the United States?

- O Yes, born in the United States — *Skip to 11*
- O Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
- O Yes, born abroad of American parent or parents
- O Yes, U.S. citizen by naturalization
- O No, not a citizen of the United States

10. When did this person come to the United States to stay?

- O 1987 to 1990
- O 1985 or 1986
- O 1982 to 1984
- O 1980 or 1981
- O 1975 to 1979
- O 1970 to 1974
- O 1965 to 1969
- O 1960 to 1964
- O 1950 to 1959
- O Before 1950

11. At any time since February 1, 1990, has this person attended regular school or college?
Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree.

- O No, has not attended since February 1
- O Yes, public school, public college
- O Yes, private school, private college

12. How much school has this person COMPLETED?
Fill ONE circle for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received.

- O No school completed
- O Nursery school
- O Kindergarten
- O 1st, 2nd, 3rd, or 4th grade
- O 5th, 6th, 7th, or 8th grade
- O 9th grade
- O 10th grade
- O 11th grade
- O 12th grade, NO DIPLOMA
- O HIGH SCHOOL GRADUATE - high school DIPLOMA or the equivalent (For example: GED)
- O Some college but no degree
- O Associate degree in college - Occupational program
- O Associate degree in college - Academic program
- O Bachelor's degree (For example: BA, AB, BS)
- O Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)
- O Professional school degree (For example: MD, DDS, DVM, LLB, JD)
- O Doctorate degree (For example: PhD, EdD)

13. What is this person's ancestry or ethnic origin?
(See instruction guide for further information.)

(For example: German, Italian, Afro-Amer., Croatian, Cape Verdean, Dominican, Ecuadoran, Haitian, Cajun, French Canadian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Irish, Polish, Slovak, Taiwanese, Thai, Ukrainian, etc.)

14a. Did this person live in this house or apartment 5 years ago (on April 1, 1985)?

- O Born after April 1, 1985 — *Go to questions for the next person*
- O Yes — *Skip to 15a*
- O No

b. Where did this person live 5 years ago (on April 1, 1985)?

(1) Name of U.S. State or foreign country

(If outside U.S., print answer above and skip to 15a.)

(2) Name of county in the U.S.

(3) Name of city or town in the U.S.

(4) Did this person live inside the city or town limits?

- O Yes
- O No, lived outside the city/town limits

15a. Does this person speak a language other than English at home?

- O Yes
- O No — *Skip to 16*

b. What is this language?

(For example: Chinese, Italian, Spanish, Vietnamese)

c. How well does this person speak English?

- O Very well
- O Well
- O Not well
- O Not at all

16. When was this person born?

- O Born before April 1, 1975 — *Go to 17a*
- O Born April 1, 1975 or later — *Go to questions for the next person*

17a. Has this person ever been on active-duty military service in the Armed Forces of the United States or ever been in the United States military Reserves or the National Guard? If service was in Reserves or National Guard only, see instruction guide.

- O Yes, now on active duty
- O Yes, on active duty in past, but not now
- O Yes, service in Reserves or National Guard only — *Skip to 18*
- O No — *Skip to 18*

b. Was active-duty military service during —
Fill a circle for each period in which this person served.

- O September 1980 or later
- O May 1975 to August 1980
- O Vietnam era (August 1964—April 1975)
- O February 1955—July 1964
- O Korean conflict (June 1950—January 1955)
- O World War II (September 1940—July 1947)
- O World War I (April 1917—November 1918)
- O Any other time

c. In total, how many years of active-duty military service has this person had?

Years

18. Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which —

a. Limits the kind or amount of work this person can do at a job?

- O Yes
- O No

b. Prevents this person from working at a job?

- O Yes
- O No

19. Because of a health condition that has lasted for 6 or more months, does this person have any difficulty —

a. Going outside the home alone, for example, to shop or visit a doctor's office?

- O Yes
- O No

b. Taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the home?

- O Yes
- O No

If this person is a female —

20. How many babies has she ever had, not counting stillbirths? Do not count her stepchildren or children she has adopted.

None 1 2 3 4 5 6 7 8 9 10 11 12 or more

O O O O O O O O O O O O O

21a. Did this person work at any time LAST WEEK?

- O Yes — Fill this circle if this person worked full time or part time. (Count part time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.)
- O No — Fill this circle if this person did not work, or did only own housework, school work, or volunteer work. — *Skip to 25*

b. How many hours did this person work LAST WEEK (at all jobs)? Subtract any time off; add overtime or extra hours worked.

Hours

22. At what location did this person work LAST WEEK?
If this person worked at more than one location, print where he or she worked most last week.

a. Address (Number and street)

(If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.)

b. Name of city, town, or post office

c. Is the work location inside the limits of that city or town?

- O Yes
- O No, outside the city/town limits

d. County

e. State

f. ZIP Code

23a. How did this person usually get to work LAST WEEK? If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

- O Car, truck, or van
- O Bus or trolley bus
- O Streetcar or trolley car
- O Subway or elevated
- O Railroad
- O Ferryboat
- O Taxicab
- O Motorcycle
- O Bicycle
- O Walked
- O Worked at home — *Skip to 28*
- O Other method

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.

b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?

- O Drove alone
- O 2 people
- O 3 people
- O 4 people
- O 5 people
- O 6 people
- O 7 to 9 people
- O 10 or more people

24a. What time did this person usually leave home to go to work LAST WEEK?

[ ] O a.m. O p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

[ ] Minutes — *Skip to 28*

25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?

- O Yes, on layoff
- O Yes, on vacation, temporary illness, labor dispute, etc.
- O No

26a. Has this person been looking for work during the last 4 weeks?

- O Yes
- O No — *Skip to 27*

b. Could this person have taken a job LAST WEEK if one had been offered?

- O No, already has a job
- O No, temporarily ill
- O No, other reasons (in school, etc.)
- O Yes, could have taken a job

27. When did this person last work, even for a few days?

- O 1990
- O 1989
- O 1988
- O 1985 to 1987

Go to 28

- O 1980 to 1984
- O 1979 or earlier
- O Never worked

Skip to 32

28-30. CURRENT OR MOST RECENT JOB ACTIVITY. Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

28. Industry or Employer

a. For whom did this person work?
If now on active duty in the Armed Forces, fill this circle → O and print the branch of the Armed Forces.

[ ]
(Name of company, business, or other employer)

b. What kind of business or industry was this? Describe the activity at location where employed.

[ ]
(For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery)

c. Is this mainly — Fill ONE circle

- O Manufacturing
- O Wholesale trade
- O Retail trade
- O Other (agriculture, construction, service, government, etc.)

29. Occupation

a. What kind of work was this person doing?

[ ]
(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, cake icer)

b. What were this person's most important activities or duties?

[ ]
(For example: patient care, directing hiring policies, supervising order clerks, assembling engines, icing cakes)

30. Was this person — Fill ONE circle

- O Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
- O Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
- O Local GOVERNMENT employee (city, county, etc.)
- O State GOVERNMENT employee
- O Federal GOVERNMENT employee
- O SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
- O SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
- O Working WITHOUT PAY in family business or farm

31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?

- O Yes
- O No — *Skip to 32*

b. How many weeks did this person work in 1989? Count paid vacation, paid sick leave, and military service.

[ ] Weeks

c. During the weeks WORKED in 1989, how many hours did this person usually work each week?

[ ] Hours

32. INCOME IN 1989 —
Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989.
For income received jointly, see instruction guide.
If exact amount is not known, please give best estimate.
If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs — Report amount before deductions for taxes, bonds, dues, or other items.
O Yes → [$ .00] Annual amount — Dollars
O No

b. Self-employment income from own nonfarm business, including proprietorship and partnership — Report NET income after business expenses.
O Yes → [$ .00] Annual amount — Dollars
O No

c. Farm self-employment income — Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.
O Yes → [$ .00] Annual amount — Dollars
O No

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts — Report even small amounts credited to an account.
O Yes → [$ .00] Annual amount — Dollars
O No

e. Social Security or Railroad Retirement
O Yes → [$ .00] Annual amount — Dollars
O No

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.
O Yes → [$ .00] Annual amount — Dollars
O No

g. Retirement, survivor, or disability pensions — Do NOT include Social Security.
O Yes → [$ .00] Annual amount — Dollars
O No

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony — Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.
O Yes → [$ .00] Annual amount — Dollars
O No

33. What was this person's total income in 1989? Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

O None OR [$ .00] Annual amount — Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.

APPENDIX F.
Data Products and User Assistance

CONTENTS

Data Products F–1
Geographic Products F–3
Other Census Bureau Resources F–6
Reference Materials F–4
Sources of Assistance F–5

The 1990 census data products, being released during 1991-93, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA™. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F–8. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F–9), present both 100-percent and sample data.

Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: *1990 Census of Population and Housing* (1990 CPH), *1990 Census of Population* (1990 CP), and *1990 Census of Housing* (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F–12 through F–14.

Public Law 94-171 Data—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

Summary Tape Files (STF's)— These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

Subject Summary Tape Files (SSTF's)—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

Public Use Microdata Sample (PUMS) Files—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("microdata") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two standard PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

There also is a special 3-percent "elderly" file with the same geography as the 5-percent sample. Included are households with at least one person age 60 or more and all members of those households.

Other Special Computer Tape Files—Other files include the Census/ Equal Employment Opportunity (EEO) File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

Microfiche

All printed reports are offered on microfiche from Customer Services soon after they are published. Plans to prepare microfiche versions of selected other products were canceled, so that more products could be produced on CD-ROM.

Compact Disc—Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are also available on CD-ROM. The Census Bureau also offers on CD-ROM: PUMS Files, SSTF's, Census EEO File, and County-to-County Migration File. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

Online Information Systems

The Census Bureau began CENDATA™, its online information service, in 1984. CENDATA™ is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATA™ provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3. CENDATA™ also offers the entire Census EEO File.

Custom Data Products

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files.

The cost of preparing custom products must be paid by the users who request them. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.

User-Defined Areas Program (UDAP) Tabulations—UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

Special Tabulations—The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

GEOGRAPHIC PRODUCTS

Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these series:

County Block Maps—These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

County Subdivision Outline Maps—Maps in this State-based series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

Census Tract/ Block Numbering Area (BNA) Outline Maps—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show governmental units in relation to the census tracts/ BNA's. The Superintendent of Documents sells printed copies.

Urbanized Area Outline/ Boundary Maps—Maps in this urbanized area-based series depict the boundaries of the urbanized area and the features underlying the boundaries. They also show the boundaries for American Indian and Alaska Native areas (AIANA's), States, counties, county subdivisions (MCD's/ CCD's), places (incorporated and census designated), the map series subject area, and selected base features and their names at a small scale. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of the 1990 CPH-2 series and the Supplementary Report, *Population and Land Area of Urbanized Areas for the United States and Puerto Rico: 1990.*

Voting District Outline Maps—Maps in this county-based series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series will not be printed. Persons interested in this report are encouraged to use the TIGER/ GICS™ tape file (which also will be available on CD-ROM) described below. Listings similar to the tables that would have been included in the report may be offered. Contact Customer Serivces, Data User Services Division, Bureau of the Census, Washington, DC 20233, telephone 301-763-4100.

The *Congressional District Atlas, 103rd Congress of the United States* is a two-volume, 1,200-page atlas depicting the boundaries and number of the districts for the 103rd Congress as defined following the 1990 decennial census. This is the first Congress defined following the 1990 decennial census and, therefore, illustrates the most significant changes of the decade, including the reapportionment of the U.S. House of Representatives. Congressional district boundaries following governmental unit boundaries such as an incorporated place of a minor civil division, are illustrated using symbology identified in the map legend. Wherever possible, features used as congressional district boundaries are identified by their feature name or their feature type. The Census Bureau may produce subsequent atlases if court ordered or State mandated redistricting creates new congressional district boundaries. The Atlas is sold by the Superintendent of Documents (stock no. 003-024-08683-2; $42).

Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990 census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/ Line™ files. TIGER/ Line™ files (released on tape and CD-ROM) contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/ longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/ Line™ files also furnish address ranges and associated ZIP Codes for each side of street segments that have city-style (house number/ street name) addresses; provide the names of landmarks, such as lakes and golf courses; and include other information. The 1992 version also includes school district codes, 1990 census urbanized area codes, codes for districts of the 103rd Congress, and address range coverage expanded to include all areas that have city-style addresses.

TIGER/ GICS™ file is another extract. This file contains a total of 12 files, organized on a national or State-by-State basis, for a variety of geographic entities as metropolitan areas and their components as of the 1990 census, 1990 census urbanized areas and their components, American Indian and Alaska Native areas and their related states and counties, as well as more familiar entities including counties with their county subdivisions and places). This file contains high-level geographic names, codes, and relationship information. It can be used to link geographic entity names to the codes in the TIGER/ Line™, TIGER/ SDTS™ and other TIGER extract files. It also contains 1990 census population and housing counts, population density (CD-ROM version only, but can be calculated using the tape version), and area measurement information (including land area, total water area and separate measurements for each of the four components of water—Inland, Great Lakes, Coastal, and Territorial), as well as the latitude and longitude for an internal point within each geography entity. The TIGER/ GICS™ also includes corrections to names for selected entities and corrections to the FIPS 55 codes for county subdivisions and places. The first 300 characters of each record in this file are the same as those in the Data Dictionary for the Summary Tape Files; and additional 100 characters provide the above mentioned corrections and components of water. Listings of the files in the TIGER/ GICS™ may be offered. Call Customer Services at 301-763-4100. Other TIGER System extracts, such as TIGER/ Census Tract Comparability™ file and TIGER/ UA Limit file, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

REFERENCE MATERIALS

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- *1990 Census of Population and Housing, Guide.* This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office. (Part A, Text: stock no. 003-024-08574-7, $11. Part B, Glossary: stock no. 003-024-08679-4, $5.50.)

- *1990 Census of Population and Housing Tabulation and Publication Program.* A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.

- *Census '90 Basics.* A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.

- *Census ABC's—Applications in Business and Community.* A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.

- *Maps and More.* A free, tabloid-size booklet that describes the geographic entities for which the Census Bureau tabulates data. The booklet provides information on the types of geographic entities, how their boundaries are established, and how they relate to each other. It also covers how these entities differ among the censuses and surveys and describes the geographic products available from the Census Bureau. Request from Customer Services.
- *Strength in Numbers.* A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- *TIGER: The Coast-to-Coast Digital Map Data Base.* A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- *Census and You.* The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.
- *Monthly Product Announcement.* A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- *Census Catalog and Guide.* A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List.* This information and selected statistics are available online through CENDATA™, the Census Bureau's online information service. For more information, contact Customer Services.

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

Washington, DC, Contacts—To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4100 (fax number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Planning Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—William Downs, Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

Regional Office Contacts—

Atlanta, GA	404-347-2274
Boston, MA	617-565-7078
Charlotte, NC	704-344-6144
Chicago, IL	312-353-0980
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-259-0056
Kansas City, KS	913-236-3711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-783-3238.

Other Sources of Products and Services

State Data Centers—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer

Services. The list also notes organizations in States participating in the Census Bureau's Business/ Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

Census Information Center (CIC)—The CIC program provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through the project, five nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the program, write to the Census Information Center Branch, Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1384.

National Clearinghouse—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

Depository Libraries—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

OTHER CENSUS BUREAU RESOURCES

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- *People:* Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- *Business and industry:* Number of employees, total payroll, sales and receipts, products manufactured or sold.
- *Housing and construction:* Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.
- *Farms:* Number, acreage, livestock, crop sales.
- *Governments:* Revenues and expenditures, taxes, employment, pension funds.
- *Foreign trade:* Exports and imports, origin and destination, units shipped.
- *Other nations:* Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the annual *Census Catalog and Guide.* Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

Current Demographic and Housing Programs

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses

include the censuses of retail trade, wholesale trade, service industries, transportation, manufactures, mineral industries, and construction industries. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

Agriculture Census and Surveys

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—are published in conjunction with the 1987 Census of Agriculture. Also, the Census Bureau regularly issues reports from a survey on cotton ginnings.

Governments Census and Surveys

The census of governments, also for years ending in "2" and "7," covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

Foreign Trade Statistics

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. possessions.

Other Statistical Activities

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract of the United States*, the *County and City Data Book* (published every 5 years), and the *State and Metropolitan Area Data Book* (published approximately every 4 years).

Figure 1. **1990 Census Content**

100-PERCENT COMPONENT

Population

Household relationship
Sex
Race
Age
Marital status
Hispanic origin

Housing

Number of units in structure
Number of rooms in unit
Tenure—owned or rented
Value of home or monthly rent
Congregate housing (meals included in rent)
Vacancy characteristics

SAMPLE COMPONENT

Population

Social characteristics:
Education—enrollment and attainment
Place of birth, citizenship, and year of entry into U.S.
Ancestry
Language spoken at home
Migration (residence in 1985)
Disability
Fertility
Veteran status

Economic characteristics:
Labor force
Occupation, industry, and class of worker
Place of work and journey to work
Work experience in 1989
Income in 1989
Year last worked

Housing

Year moved into residence
Number of bedrooms
Plumbing and kitchen facilities
Telephone in unit
Vehicles available
Heating fuel
Source of water and method of sewage disposal
Year structure built
Condominium status
Farm residence
Shelter costs, including utilities

NOTE: Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

Figure 2. **1990 Census Printed Reports**

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)		
		100-Percent Data		
1990 CPH-1	**Summary Population and Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	**Population and Housing Unit Counts**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
		100-Percent and Sample Data		
1990 CPH-3	**Population and Housing Characteristics for Census Tracts and Block Numbering Areas**	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/BNA's, places of 10,000 or more, and counties
1990 CPH-4	**Population and Housing Characteristics for Congressional Districts of the 103rd Congress**	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
		Sample Data		
1990 CPH-5	**Summary Social, Economic, and Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
		1990 CENSUS OF POPULATION (1990 CP)		
		100-Percent Data		
1990 CP-1	**General Population Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. **1990 Census Printed Reports**—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF POPULATION (1990 CP)—Con.		
		100-Percent Data—Con.		
1990 CP-1-1A	**General Population Characteristics for American Indian and Alaska Native Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	**General Population Characteristics for Metropolitan Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	**General Population Characteristics for Urbanized Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
		Sample Data		
1990 CP-2	**Social and Economic Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	**Social and Economic Characteristics for American Indian and Alaska Native Areas**	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	**Social and Economic Characteristics for Metropolitan Areas**	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	**Social and Economic Characteristics for Urbanized Areas**	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	**Population Subject Reports**	Selected subjects	Reports on population census subjects such as migration, education, income, the older population, and racial and ethnic groups	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 2. **1990 Census Printed Reports**—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF HOUSING (1990 CH)		
		100-Percent Data		
1990 CH-1	**General Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	**General Housing Characteristics for American Indian and Alaska Native Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CH-1-1B	**General Housing Characteristics for Metropolitan Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CH-1-1C	**General Housing Characteristics for Urbanized Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
		Sample Data		
1990 CH-2	**Detailed Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	**Detailed Housing Characteristics for American Indian and Alaska Native Areas**	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	**Detailed Housing Characteristics for Metropolitan Areas**	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	**Detailed Housing Characteristics for Urbanized Areas**	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	**Housing Subject Reports**	Selected subjects	Reports on housing census subjects such as structural and utilization characteristics in metropolitan areas	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 3. **1990 Census Summary Tape Files**

Summary Tape File (STF 1A, 1B, etc.) and data type (100 percent or sample)[1]		Geographic areas	Description
STF 1 (100 percent)	A[2]	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas	Over 900 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B[2]	States, counties, county subdivisions, places, census tracts/BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
	C[2]	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas	
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	Over 2,100 cells/items of 100-percent population and housing counts and characteristics for each geographic area. Each of the STF 2 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas	
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	
STF 3 (Sample)	A[2]	States, counties, county subdivisions, places, census tracts/BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	Over 3,300 cells/items of sample population and housing characteristics for each geographic area
	B[2]	Five-digit ZIP Codes within each State	
	C[2]	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

Figure 3. **1990 Census Summary Tape Files**—Con.

Summary Tape File (STF 1A, 1B, etc.) and data type (100 percent or sample)[1]		Geographic areas	Description
	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	
STF 4 (Sample)	B	State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	Over 8,500 cells/items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.
	C	U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	

Note: STF 420 Place of Work 20 Destinations File. This is a new file for 1990. Comparable data were included as part of STF 4 in 1980, but for 1990 this is a separate file and must be ordered and purchased separately from STF 4. The file contains 20 place of work destinations for each county or county equivalent, minor civil division, place of 10,000 or more persons, and census tract or block numbering area. Data are also provided for each major race and for workers of Hispanic origin cross-classified by race. The geographic level of the destinations varies. A destination may be a place, county, balance of county, metropolitan area, or balance of metropolitan area.

[1]Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands.
[2]Also available on laser disc (CD-ROM). STF 1B CD-ROM presents only part of the data for blocks and other areas in the tape file.

Figure 4. **Other 1990 Census Data Products**

Title	Description	Geographic areas
Subject Summary Tape Files	Various computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series).	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and paper listings	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/ Equal Employment Opportunity (EEO) Special File	Sample tabulations showing detailed occupations and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to-county migration streams and significant interstate county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteristics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—County Based		County groups, counties, county subdivisions, and places with 100,000 or more inhabitants
1 Percent—Metropolitan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
3 Percent—Elderly	As above, but includes only households with at least one person age 60 or more	Same as for 5-percent sample
User-Defined Areas Tabulations	A set of standard tabulations provided on printouts, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geographic areas provided on printouts, tapes, or other products	User-defined areas or standard areas

APPENDIX G.
Maps

CONTENTS

County Subdivision Map Sample ———— G–3
Legend ———— G–2
Map Descriptions ———— G–1
Terminology ———— G–1

There is one map series that relates to the geographic entities for which the Census Bureau provides statistics in the STF 1D and STF 3D data. Copies of this map will be reproduced on electrostatic plotters in response to orders received by Customer Services, Data User Services Division, Bureau of the Census, Washington,
DC 20233 (301) 763-4100.

MAP DESCRIPTION

County Subdivision Maps—These State-based maps depict the boundaries and names of all counties and statistically equivalent areas, county subdivisions, and places. (The Census Bureau also will publish sectionalized versions of these maps in most 1990 census reports.)

TERMINOLOGY

Refer to appendix A for an explanation of the types of areas. Two terms used in the legend require explanation:

Asterisk(*)—A symbol following a block number to indicate the block number is repeated elsewhere in the block or is shown partially on an adjacent map sheet or on an inset map.

Fishhook(⟨⟩)—A map symbol drawn across a physical feature (creek, brook, etc.) or boundary on census maps to show that the areas on both sides of the feature or boundary belong to the same census block.

Legend

LEGEND

SYMBOL DESCRIPTION	SYMBOL	NAME STYLE	FIPS CODE	CENSUS CODE
International	★★★★★★★★★	CANADA		
American Indian Reservation	XXXXXXXXX	CAMPO RSVN	10522	(0450)
Trust Land	XXXXXXXXX		10522	(0450T)
Alaska Native Regional Corporation	♦♦♦♦♦♦♦♦♦	ALEUT ANRC		(14)
Alaska Native Village Statistical Area, Tribal Jurisdiction Statistical Area, or Tribal Designated Statistical Area	♦♦♦♦♦♦♦♦♦	KAW TJSA	38870	(5340)
State[1]	//////////	NEW YORK	(36)	
County[1]	▣▣▣▣▣▣▣▣	ERIE COUNTY	(029)	
Minor Civil Division[2]	●●●●●●●●●	YORK TWP	83908	(070)
Census County Division	●●●●●●●●●	KULA DIV	91890	(030)
Incorporated Place	●●●●●●●●●	Rome City	63418	(3120)
Census Designated Place	●●●●●●●●●	Zena	84187	(4100)
Corporate Corridor	○○○○○○○○○	1680		
Census Tract or Block Numbering Area		5702.01		
Block Number (With Asterisk)[3]	326*			
Fishhook[4]				
Crew-of-Vessel	Tract / Block	2100.99 / 2012		

Note: An international boundary also depicts a state boundary and a county boundary; a state boundary also depicts a county boundary. The symbols for all other coincident boundaries are shown alternately, as shown in the example:
e.g.: ■●●■●●■●●

FEATURE	SYMBOL	NAME STYLE
Interstate Highway and Limited Access Road[5]		Interstate 635
Other Highway[5]		Rte 101
City Street, Other Connecting Road, or Dirt Road[5]		Marsh Ln
Jeep Trail, Walkway, or Stairway		Labelle Walk
Railroad		
Ferry Crossing	FERRY	
Pipeline or Power Transmission Line		
Ridge, Fence, Canyon, or Other Physical Feature		RIDGE
Nonvisible Boundary or Other Feature Not Elsewhere Classified		PROPERTY LINE
Perennial Stream, or Shoreline of Perennial Water Body		*Tumbling Creek*
Intermittent Stream, or Shoreline of Intermittent Water Body		*Piney Creek*
Large River, Lake, or Other Water Body		*Pleasant Lake*
Military Installation	N/A	Fort Belvoir
Park (National, State, or Local)		Yosemite
Mountain Peak		*Pikes Peak*
Inset Area	A	

[1] State or County; or their equivalent area for statistical purposes.

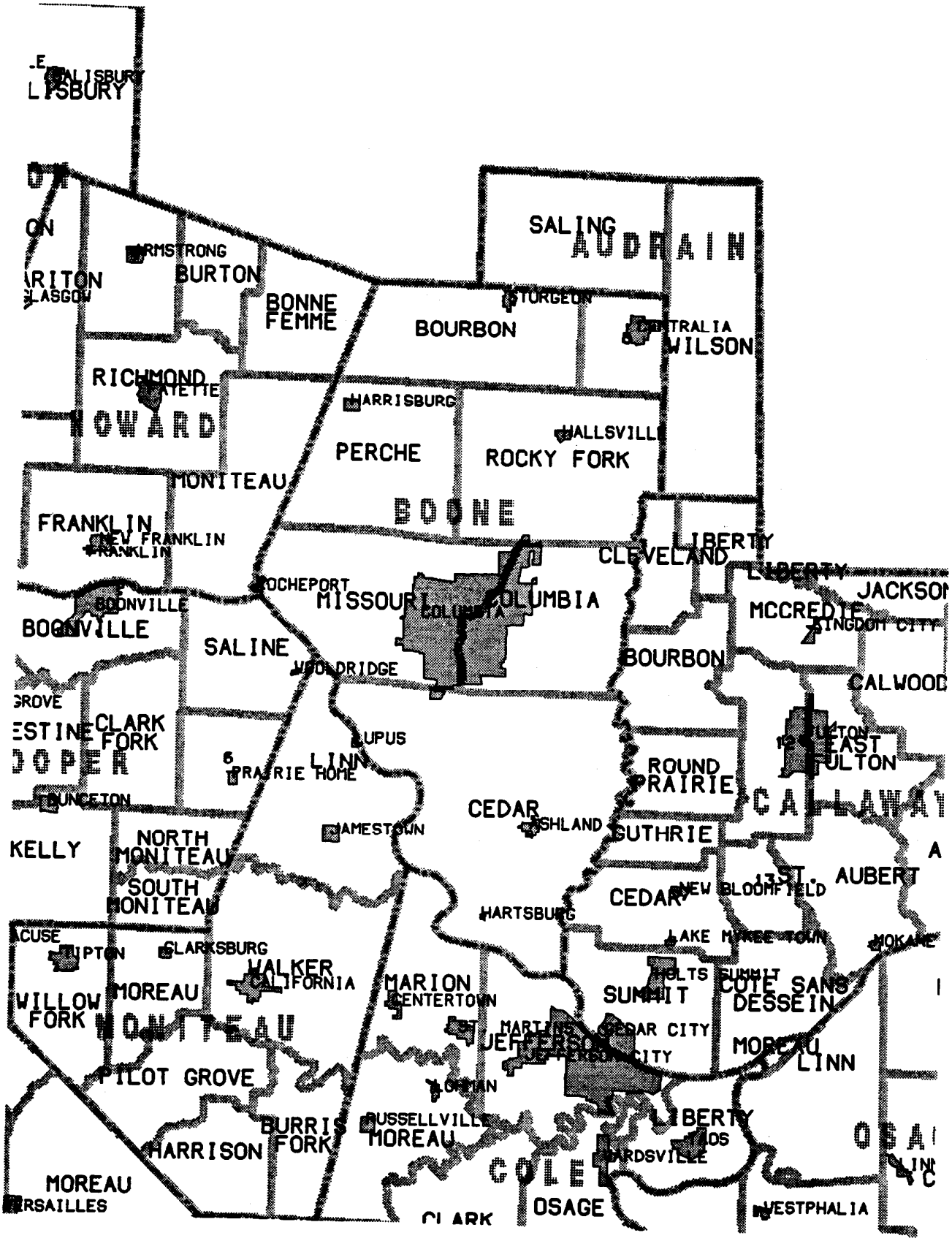
[2] A five-spoked asterisk following a minor civil division indicates that the minor civil division is coextensive with an incorporated place and has the same name.

[3] An asterisk following a block number indicates that the block number is repeated elsewhere in the block or is shown partially on an adjacent map sheet.

[4] A fishhook across a map feature or boundary indicates that the areas on both sides of the feature or boundary belong to the same census block.

[5] A % symbol indicates that there was insufficient space to plot a road name. Road names in parentheses indicate that the road has more than one name.

County Subdivision Map Sample



APPENDIX H.
Code Lists

CONTENTS

Ancestry — H–1
Group Quarters — H–17
Hispanic Origin — H–22
Industry — H–24
Language — H–30
Occupation — H–37
Place of Birth — H–50
Race — H–54

ANCESTRY

This section contains the code list for ancestry categories. Each person enumerated in the census had the opportunity to enter two distinct ancestry identities which indicated his or her ethnic origin. Each entry received one of the unique three-digit codes listed below. All codes are listed below. However, not all ancestry entries are listed. The ancestry codes can be aggregated to create commonly recognized national groupings. For example, the code for Walloon can be collapsed with other "Belgian" entries to form a national grouping representative of an area in Europe. National groupings can also be collapsed to represent continental areas. For example, Belgium can be added to France and other European clusters to form a representation of that continent. "n.e.c." is the abbreviation for not elsewhere classified.

000-099	WESTERN EUROPE (EXCEPT SPAIN)
000-001	ALSATIAN
000-001	Alsace Lorraine
002	ANDORRAN
002	Andorra
003-004	AUSTRIAN
003	AUSTRIAN
003	Austria
004	TIROL
004	Tirol
005-007	BASQUE
005	BASQUE
005	Euskalduna
005	Euzkadi
006	FRENCH BASQUE
007	SPANISH BASQUE
007	Vasco
008-010	BELGIAN
008	BELGIAN
008	Belgium
009	FLEMISH
009	Flanders
009	Fleming
009	Vlamand
010	WALLOON

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
011-014	BRITISH
011	BRITISH
011	Great Britain
011	United Kingdom
012	BRITISH ISLES
013	CHANNEL ISLANDER
013	Guernsey Islander
013	Jersey Islander
014	GIBRALTAR
015	CORNISH
015	Cornwall
016	CORSICAN
016	Corsica
017-019	CYPRIOT
017	CYPRIOT
017	Cyprus
018	GREEK CYPRIOTE
019	TURKISH CYPRIOTE
020	DANISH
020	Denmark
021	DUTCH
021	Holland
021	Netherlands

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
022	ENGLISH
022	Anglican
022	England
022	Mayflower
023	FAEROE ISLANDER
023	Faeroe Islands
024-025	FINNISH
024	FINNISH
024	Finland
025	KARELIAN
026-027	FRENCH
026	FRENCH
026	France
026	Gascon
026	Hugenot
026	Normandy
027	LORRAINE
028	BRETON
028	Breizh
028	Bretagne
028	Brittany
029	FRISIAN
029	Friesian Islands
030-031	FRIULIAN
030	FRIULIAN
030	Friuli
030	Furlan
031	LADIN
032-045	GERMAN
032	GERMAN
032	Germany
033	BAVARIA
034	BERLIN
035	HAMBURG
036	HANNOVER
037	HESSIAN
038	LUBECKER
039	POMERANIAN
040	PRUSSIAN
041	SAXON
042	SUDETENLANDER
043	WESTPHALIAN
044	EAST GERMAN
045	WEST GERMAN
045	Palatinate
045	Rhineland

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
046-048	GREEK
046	GREEK
046	Greece
047	CRETAN
048	CYCLADES
048	Dodecanese Islander
048	Peloponnesian
049	ICELANDER
049	Iceland
050	IRISH
050	Black Irish
050	Clare
050	Cork
050	Donegal
050	Dubliner
050	Eire
050	Galway
050	Ireland
050	Irish Free State
050	Kerry
050	Kildare
050	Kilkenny
050	Laoighis
050	Leitrim
050	Leix
050	Limerick
050	Longford
050	Louth
050	Mayo
050	Meath
050	Monaghan
050	Offaly
050	Roscommon
050	Sligo
050	Tipperary
050	Waterford
050	Westmeath
050	Wexford
050	Wicklow
051-074	ITALIAN
051	ITALIAN
051	Istria
051	Italy
052	TRIESTE
053	ABRUZZI
054	APULIAN
054	Apulia
055	BASILICATA
055	Lucania
056	CALABRIAN
057	AMALFIN
057	Campania

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
058	EMILIA ROMAGNA
059	ROME
059	Lazio
059	Vatican City
060	LIGURIAN
061	LOMBARDIAN
062	MARCHE
063	MOLISE
064	NEAPOLITAN
065	PIEDMONTESE
066	PUGLIA
067	SARDINIAN
068	SICILIAN
068	Sicily
069	TOSCANA
069	Tuscany
070	TRENTINO
071	UMBRIAN
072	VALLE DAOST
073	VENETIAN
073	Venezia Giulia
074	SAN MARINO
075	LAPP
075	Lapland
075	Samelat
076	LIECHTENSTEINER
076	Liechtenstein
077	LUXEMBURGER
078	Gozo
078	Malta
079	MANX
079	Isle of Man
080	MONEGASQUE
080	Monaco
081	NORTH IRISH
081	Antrim
081	Armagh
081	Derry
081	Down
081	Fermanagh
081	Londonderry
081	Northern Ireland
081	Orangeman
081	Tyrone
081	Ulster

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
082	NORWEGIAN
082	Jan Meyen Islander
082	Norway
082	Spitsbergen
082	Svalbard Islander
083	OCCITAN
083	Provence
084-086	PORTUGUESE
084	PORTUGUESE
084	Lusitania
084	Luso
084	Portugal
085	AZORES ISLANDER
086	MADEIRA ISLANDER
087	SCOTCH-IRISH
087	Scot-Irish
088	SCOTTISH
088	Orkney Islander
088	Pict
088	Scot
088	Scotland
088	Shetland Islander
089-090	SWEDISH
089	SWEDISH
089	Sweden
090	ALAND ISLANDER
091	Switzerland
092	SUISSE
093	SWITZER
093-094	Schweiz
095	ROMANSCH
096	Ticino
097	WELSH
097	Wales
098	SCANDINAVIAN
098	Nordic
098	Scandinavia
099	CELTIC
099	Celtic

100-180	EASTERN EUROPE AND SOVIET UNION
100	ALBANIAN
100	Albania
100	Arberesh
100	Gheg
100	Italo Albanian
100	Kossovo
100	Tosc
101	AZERBAIJANI
101	Adjerbaijani
101	Azerbaidzhan
101	Azeri
102	BELORUSSIAN
102	Byelorussian
103	BULGARIAN
103	Bulgaria
103	Bulgaro Macedonian
103	Eastern Rumelian
104-105	CARPATHO RUSYN
104	CARPATHO RUSYN
104	Carpatho Rus
104	Carpatho Russian
104	Carpatho Ruthenian
105	CARPATHIAN
106	RUSYN
106	Rus
106	Rusin
106	Rusnak
107	RUTHENIAN
107	Ruthenia
108	COSSACK
108	Don Cossack
108	Orenburg Cossack
108	Terek Cossack
108	Ural Cossack
109-110	CROATIAN
109	Croatia
109	Dalmatian
109-110	Zadar
111-113	CZECH
111	CZECH
112	BOHEMIAN
113	MORAVIAN
114	CZECHOSLOVAKIAN
114	Czechoslovakia
114	Tczechoslovakia

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
115-116	ESTONIAN
115	ESTONIAN
115	Estonia
116	LIVONIAN
117-119	FINNO UGRIAN
117	FINNO UGRIAN
117	Komi
117	Mari
117	Udmurt
118	MORDOVIAN
119	VOYTAK
120-121	GRUZIIA
120-121	Gruzinets
122-123	GERMAN FROM RUSSIA
122	GERMAN FROM RUSSIA
123	VOLGA
123	Black Sea German
123	Volhynian German
124	ROM
124	Boyash
124	Cali
124	Dom
124	Gitanos
124	Gypsy
124	Kalderash
124	Luri
124	Manouche
124	Nat
124	Romnichal
124	Senti
124	Xoraxaya
125-126	HUNGARIAN
125	HUNGARIAN
125	Hungary
125	Szekler
126	MAGYAR
127	KALMYK
127	Kalmuck
128	LATVIAN
128	Latvia
128	Lettish
129	LITHUANIAN
129	Jmoud
129	Lithuania
130	MACEDONIAN
130	Macedonia

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
130	Slavophone
131	MONTENEGRIN
131	Orna Gora
132-141	NORTH CAUCASIAN
132	NORTH CAUCASIAN
132	Abkhazian
132	Adyge
132	Avar
132	Caucasus Mountains
132	Chechen
132	Daghestan
132	Darghinian
132	Gortsy
132	Ingush
132	Kabardinian
132	Lezghian
132	Tavlintsy
133	NORTH CAUCASIAN TURKIC
133	Adzharian
133	Balkar
133	Cherkess
133	Circassian
133	Karachay
133-139	Kumyk
140-141	OSSETIAN
142-143	POLISH
142	POLISH
142	Gorali
142	Masurian
142	Poland
142	Polonia
142	Polska
143	KASHUBIAN
144-147	ROMANIAN
144	ROMANIAN
144	Romania
144	Transylvania
145	BESSARABIAN
145	Dobruja
146	MOLDAVIAN
147	WALLACHIAN
147	Vlach
148-151	RUSSIAN
148	RUSSIAN
148	Black Russian
148	Great Russian
148	Red Russian
148	Rossiya
148-149	Russia
150-151	MUSCOVITE

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
152	SERBIAN
152	Serb
153	SLOVAK
153	Slovakian
153	Slovjak
154-155	SLOVENE
154	SLOVENE
154	Slovenc
154	Slovenian
154	Slovenski
155	SORBIAN/WEND
155	Lusatian Serb
155	Sorb
155	Wend
155	Wendish
156-163	SOVIET TURKIC
156	SOVIET TURKIC
156	Soviet Turk
157	BASHKIR
158	CHUVASH
159	GAGAUZ
160	MESKNETIAN
161-162	TUVINIAN
163	YAKUT
164	SOVIET UNION
164	Union of Soviet Socialist Republics
165-167	TATAR
165	TATAR
165	Crimean Tatar
165	Kazan Tatar
165	Nogay Tatar
165	Polish Tatar
165-166	Volga Tatar
167	SOVIET CENTRAL ASIA
167	Kurile Islander
167	Sakhalin Islander
167	Siberian
168-170	TURKESTANI
168	TURKESTANI
168	Karakalpak
168	Kazak
168	Kirghiz
168	Tadzhik
168	Turcoman
168	Turkestani
168	Turkmen
168	Turkoman
168	Uiger
169-170	UZBEG

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
171-174	UKRAINIAN
171	UKRANIAN
171	Little Russian
171	Malo Russian
171	Ukraine
172	LEMKO
172	Lemkian
173	BIOKO
174	HUSEL
175	WINDISH
175	Prekmurje
175	Windisch
176-177	YUGOSLAVIAN
176	YUGOSLAVIAN
176	Jugoslavia
177	HERZEGOVINIAN
177	Bosanci
177	Bosnian Muslim
177	Bosnjaci
178-180	SLAVIC
178	SLAVIC
178	Slav
179-180	SLAVONIAN
181-199	**EUROPE, N.E.C.**
181	EUROPE, N.E.C.
181	Central European
181-182	Middle European
183	NORTHERN EUROPEAN
183-184	North Europe
185	SOUTHERN EUROPEAN
185-186	South Europe
187	WESTERN EUROPEAN
187-189	West Europe
190	EASTERN EUROPEAN
190	Byzantine
190	East Europe
191-192	BUKOVINA
193-194	SILESIAN
195	EUROPEAN
196	GALICIAN
196-199	Galicia
200-299	**HISPANIC CATEGORIES (INCLUDING SPAIN)**
200-203	SPANIARD
200	SPANIARD
200	Espanola
200	Iberian
200	Spain

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
201	ANDALUSIAN
202	ASTURIAN
203	CASTILLIAN
204-209	CATALONIAN
204	CATALONIAN
204	Catalonia
205	BALEARIC ISLANDER
205	Mallorca
206	GALLEGO
207	VALENCIAN
208-209	CANARY ISLANDER
210-218	MEXICAN
210	MEXICAN
211	MEXICAN AMERICAN
212	MEXICANO
213	CHICANO
214-217	LA RAZA
218	MEXICAN STATE
218	Aguascalientes
218	Baja California
218	Campeche
218	Chiapas
218	Chihuahua
218	Coahuila
218	Colima
218	Distrito Federal
218	Durango
218	Guanajuato
218	Guerrero
218	Hidalgo
218	Jalisco
218	Mexico
218	Michoacan
218	Morelos
218	Nayarit
218	Nuevo Leon
218	Oaxaca
218	Puebla
218	Queretaro
218	Quintana Roo
218	San Luis Potosi
218	Sinaloa
218	Sonora
218	Tabasco
218	Tamaulipas
218	Tlaxcala
218	Vera Cruz
218	Yucatan
218	Zacatecas
219-221	COSTA RICAN
219	Costa Rica
219-221	Costarricense

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
222	GUATEMALAN
222	Guatemala
223	HONDURAN
223	Honduras
224	NICARAGUAN
224	Nicaragua
225	PANAMANIAN
225	Panama
226	SALVADORAN
226	El Salvador
226	Salvadorian
227-228	CENTRAL AMERICAN
227-228	Central America
229-230	CANAL ZONE
231	ARGENTINEAN
231	Argentine
232	BOLIVIAN
232	Bolivia
233	CHILEAN
233	Chile
234	COLOMBIAN
234	Antiochio
234	Colombia
235	ECUADORIAN
235	Ecuador
235	Galapagos Islander
236	PARAGUAYAN
236	Paraguay
237	PERUVIAN
237	Peru
238	URUGUAYAN
238	Uruguay
239	VENEZUELAN
239	Venezuela
240-248	CRIOLLO
240-248	Criolla
249	SOUTH AMERICAN
249	America Del Sur

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
249	Sudamerica
250-260	LATIN AMERICAN
250	LATIN AMERICAN
250	America Latina
250	Latinoamericana
251	LATIN
252-260	LATINO
261-270	PUERTO RICAN
261	Boricua
261	Borinquena
261	New York Puerto Rican
261	Puerto Rico
261-270	Puertorriqueno
271-274	CUBAN
271	Cuba
271	Cubana
271-274	Guajiro
275	DOMINICAN
275	Dominican Republic
275	Dominicana
275	Santo Domingo
276-290	HISPANIC
276-290	Hispano
291-299	SPANISH
292	CALIFORNIO
293	TEJANO
293	Tejana
294	NUEVO MEXICANO
295-299	SPANISH AMERICAN

300-359	WEST INDIES (EXCEPT HISPANIC)
300	BAHAMIAN
300	Bahamas
301	BARBADIAN
301	Barbados
302	BELIZEAN
302	Belize
302	British Honduran
303	BERMUDAN
303	Bermuda
304-307	CAYMAN ISLANDER
308-309	JAMAICAN
308-309	Jamaica

300-359	**WEST INDIES (EXCEPT HISPANIC)**—Con.
310-313	DUTCH WEST INDIES
310	DUTCH WEST INDIES
310	Black Dutch
310	Netherlands Antilles
311	ARUBA ISLANDER
311	Bonaire Islander
311	Curacao Islander
312-313	ST. MAARTEN ISLANDER
312	Saba Islander
312-313	St. Eustatius Islander
314-316	TRINIDADIAN TOBAGONIAN
314	TRINIDADIAN TOBAGONIAN
315	TRINIDADIAN
316	TOBAGONIAN
317-320	U.S. VIRGIN ISLANDER
317	U.S. VIRGIN ISLANDER
318	ST. CROIX ISLANDER
318	Crucian
318	Santa Cruz
319	ST. JOHN ISLANDER
320	ST. THOMAS ISLANDER
321-331	BRITISH WEST INDIES
321	BRITISH VIRGIN ISLANDER
321	Tortolan
321	Virgin Gorda
321	Anegada
321	Jost Van Dyke
321	Peter and Norman
322	BRITISH WEST INDIAN
322	British West Indies
323	TURKS AND CAICOS ISLANDER
324	ANGUILLA ISLANDER
325	ANTIGUA AND BARBUDA
325	Antigua
325	Barbuda
325	Redonda Islander
326	MONTSERRAT ISLANDER
327	KITTS-NEVIS ISLANDER
327	St. Christopoher Islander
327	Sombrero Islander
327	St. Kitts
327	Nevis
328	DOMINICA ISLANDER
329	GRENADIAN
329	Grenada Islander
330	VINCENT-GRENADINE ISLANDER
330	St. Vincent Island
330	Vincentian
330	Grenadines Islander
331	ST. LUCIA ISLANDER

300-359	**WEST INDIES (EXCEPT HISPANIC)**—Con.
332-334	FRENCH WEST INDIES
332	FRENCH WEST INDIES
332	French West Indian
333	GUADELOUPE ISLANDER
333	Martinicois
333	Martinique Islander
334	CAYENNE
334	French Guiana
334	French Guianese
334	Guyane
335	WEST INDIAN
335	West Indies
335	Arawak
335	Caribs
335	Caribbean
335	Garifuna
336-359	HAITIAN
336-359	Haiti
360-399	**CENTRAL AND SOUTH AMERICA (EXCEPT HISPANIC)**
360-364	BRAZILIAN
360-364	Brazil
365-369	SAN ANDRES
370-374	GUYANESE
370	British Guiana
370-374	Guyana
375-379	PROVIDENCIA
380-399	SURINAM
380	Dutch Guiana
380-399	Netherlands Guiana
400-499	**NORTH AFRICA AND SOUTHWEST ASIA**
400-401	ALGERIAN
400-401	Algeria
402-403	EGYPTIAN
402	Copt
402	Egypt
402-403	Fellahin
404-405	LIBYAN
404-405	Libya
406-407	MOROCCAN
406	MOROCCAN
406	Moor
407	IFNI

400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.
408-410	TUNISIAN
408-410	Tunisia
411	NORTH AFRICAN
412	ALHUCEMAS
412	Ceuta
412	Chafarinas
412	Melilla
413	BERBER
414	RIO DE ORO
414	Saguia El Hamra
415	BAHRAINI
415	Bahrain
416	IRANIAN
416	Iran
416	Parsi
416	Persia
417-418	IRAQI
417-418	Iraq
419-420	ISRAELI
419-420	Israel
421-422	JORDANIAN
421	JORDANIAN
421	Hashemite
421	Jordan
422	TRANSJORDAN
423-424	KUWAITI
423-424	Kuwait
425-426	LEBANESE
425	Lebanon
425-426	Maronite
427-428	SAUDI ARABIAN
427-428	Saudi Arabia
429-430	SYRIAN
429	Djebel Druze
429	Latakia
429-430	Syria
431-433	ARMENIAN
431-433	Armenia
434	TURKISH
434	Turkey

400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.
435	YEMENI
435	Yemen Arab Republic
436-441	OMANI
436	OMANI
437	MUSCAT
438	TRUCIAL STATES
438	Trucial Oman
439-440	QATAR
441	BEDOUIN
442-464	KURDISH
442-443	KURDISH
444-464	KURIA MURIA ISLANDER
465-469	PALESTINIAN
465	PALESTINIAN
466	GAZA STRIP
467-469	WEST BANK
470-479	SOUTH YEMEN
470	SOUTH YEMEN
470	Democratic Republic of Yemen
471-479	ADEN
480-481	UNITED ARAB EMIRATES
480	Abu Dhabi
480	Ajman
480	Dubai
480	Fujairah
480	Ras Al Kaimah
480	Sharjah
480-481	Umm Al Qaiwain
482-489	ASSYRIAN
482	Aramean
482	Assyria
482	Chaldean
482	Chaldo
482	Jacobite
482	Kaldany
482	Kaldu
482	Kasddem
482	Kasdu
482	Nestorian
482-489	Telkeffee
490-494	MIDEAST
490-494	Middle Eastern
495-499	ARAB
495	ARAB
495	Arabia
496-499	ARABIC

500-599	SUBSAHARAN AFRICA
500-501	ANGOLAN
500	Angola
500-501	Cabinda
502-503	BENIN
502	Dahomey
502-503	Fon
504-505	BOTSWANA
504-505	Bechuana
506-507	BURUNDIAN
506-507	Urundi
508-509	CAMEROONIAN
508	Cameroon
508-509	Fako
510-511	CAPE VERDEAN
510	Brava
510-511	Cape Verde Islander
512	CENTRAL AFRICAN REPUBLIC
512	Ubangi Shari
513-514	CHADIAN
513-514	Chad
515-518	CONGOLESE
515	CONGOLESE
516-518	CONGO BRAZZAVILLE
519	DJIBOUTI
519	Afars And Issas
519	Jibuti
520-521	EQUATORIAL GUINEA
520	EQUATORIAL GUINEA
520	Rio Muni
521	CORSICO ISLANDER
521	Annobon Islander
521	Bioko Islander
521	Elobeis Islander
521	Fernando Po Islander
522-524	ETHIOPIAN
522	ETHIOPIAN
522	Abyssinia
522	Ethiopia
523-524	ERITREAN
525-526	GABONESE
525-526	Gabon
527-528	GAMBIAN
527-528	Gambia

500-599	SUBSAHARAN AFRICA—Con.
529	GHANIAN
529	Ashanti
529	Ghana
529	Gold Coast
529	TWI
530	GUINEAN
530	Guinea
531	GUINEA BISSAU
532-533	IVORY COAST
534-537	KENYAN
534-537	Kenya
538-540	LESOTHO
538-540	Basuto
541-542	LIBERIAN
541-542	Liberia
543-544	MADAGASCAN
543-544	Madagascar
545	MALAWIAN
545	Malawi
546	MALIAN
546	Mali
547-548	MAURITANIAN
547-548	Mauritania
549	MOZAMBICAN
549	Mozambique
550	NAMIBIAN
550	Namibia
551-552	NIGER
553-560	NIGERIAN
553	NIGERIAN
553	Nigeria
554	FULAH
554	Fulani
555	HAUSA
556	IBO
557	TIV
558-560	YORUBA
561-563	RWANDAN
561-563	Rwanda

500-599	SUBSAHARAN AFRICA—Con.
564-565	SENEGALESE
564	Dakar
564-565	Senegal
566-567	SIERRA LEONEAN
566-567	Sierra Leone
568	SOMALIAN
568	Somali Republic
568	Somalia
569	SWAZILAND
570-573	SOUTH AFRICAN
570	SOUTH AFRICAN
571	UNION OF SOUTH AFRICA
571	Orange Free State
571	Pretoria
571	Transkei
571	Transvaal
572	AFRIKANER
572	Boer
573	NATALIAN
574-575	ZULU
574-575	Zululand
576-581	SUDANESE
576	SUDANESE
576	Sudan
577	DINKA
578	NUER
579	FUR
579	Darfur
580-581	BAGGARA
582-585	TANZANIAN
582	TANZANIAN
582	Tanzania
583	TANGANYIKAN
584-585	ZANZIBAR ISLANDER
586-587	TOGO
586-587	Togoland
588	UGANDAN
588	Lugbara
588	Uganda
589-590	UPPER VOLTAN
589	UPPER VOLTAN
590	VOLTA
591	ZAIRIAN
591	Belgian Congo
591	Congo Kinshasa

500-599	SUBSAHARAN AFRICA—Con.
591	Zaire
592	ZAMBIAN
592	Zambia
593	ZIMBABWEAN
593	Rhodesia
593	Zimbabwe
594-595	AFRICA ISLANDS (EXCEPT MADAGASCAR)
594	AFRICA ISLANDS
594	Comoros Islander
594	Principe Islander
594	Reunion Islander
594	Sao Tome Islander
594	Seychelles Islander
594	St. Helena Islander
594	St. Pierre Islander
594	Tristan De Cunha Islander
595	MAURITIAN
595	Mauritius Islander
596-599	SUBSAHARAN AFRICAN, N.E.C.
596	CENTRAL AFRICAN
596	Central Africa
596	Middle Congo
597	EAST AFRICAN
597	East Africa
597	Galla
597	Kikuyu
597	Masai
598	WEST AFRICAN
598	West Africa
599	AFRICAN
599	Africa
600-699	**SOUTH ASIA**
600-602	AFGHANISTAN
600	AFGHANISTAN
601	BALUCHISTAN
602	PATHAN
603-606	BANGLADESHI
603	Bangladesh
603-606	East Pakistan
607-608	BHUTANESE
607-608	Bhotan
609-614	NEPALI
609-614	Nepal
615-679	ASIAN INDIAN
615	ASIAN INDIAN
615	Behar

600-699	SOUTH ASIA—Con.
615	Dravidian
615	Hindu
615	Indo Aryan
615	Sikh
616-617	KASHMIR
618-619	BENGALI
620-621	EAST INDIAN
622	ANDAMAN ISLANDER
622-623	Nocobar Islander
624-625	ANDHRA PRADESH
626-627	ASSAMESE
628-629	GOANESE
630-631	GUJARATI
632-633	KARNATAKAN
634-635	KERALAN
636-637	MADHYA PRADESH
638-639	MAHARASHTRAN
640-641	MADRAS
642-643	MYSORE
644-645	NAGALAND
646-647	ORISSA
648-649	PONDICHERRY
650-651	PUNJAB
652-653	RAJASTHAN
654-655	SIKKIM
656-657	TAMIL NADU
658-674	UTTAR PRADESH
675-679	EAST INDIES
680-689	PAKISTANI
680	Jammu
680	Pakistan
680	Sind
680-689	West Pakistan
690-694	SRI LANKAN
690	SRI LANKAN
690	Ceylon
690	Sri Lanka
691	SINGHALESE
692-694	VEDDAH
695-699	MALDIVIAN
695	Kampuchean
695-699	Maldive Islander

700-799	OTHER ASIA
700-702	BURMESE
700	BURMESE
700	Cachin
700	Karen
700	Mon
700-701	Palaung
702	SHAN

700-799	OTHER ASIA—Con.
703-705	CAMBODIAN
703	CAMBODIAN
703	Cambodia
703	Kampuchea
704-705	KHMER
706-711	CHINESE
706	CHINESE
706	China
706	Jehol
706	Sino Chinese
706	Yao
707	CANTONESE
708	MANCHURIA
709-711	MANDARIN
712-713	MONGOLIAN
712	Buriat
712-713	Mongolia
714-715	TIBETAN
714-715	Tibet
716-717	HONG KONG
716	Hong Kong Chinese
716	Eastern Archipelago
716-717	Riau Islander
718-719	MACAO
720-729	FILIPINO
720	Cebuanos
720	Philippines
720-729	Tagalog
730-739	INDONESIAN
730	INDONESIAN
730	Ascension Islander
730	Bangka
730	Billiton
730	Celebes Islander
730	Dutch East Indian
730	Indonesia
730	Molucca Islander
730	Portuguese Timor
730	Spice Islander
730-731	Sulawesi Islander
732-733	BORNEO
734-735	JAVA
736-739	SUMATRA
740-745	JAPANESE
740	JAPANESE
740	Japan
740	Nipponese
741	ISSEI

700-799	OTHER ASIA—Con.
742	NISEI
743	SANSEI
744	YONSEI
745	GONSEI
746-747	RYUKYU ISLANDER
746-747	Northern Ryukyu Islander
748-749	OKINAWAN
748-749	Okinawa
750-764	KOREAN
750	Chosen
750-764	Korea
765-767	LAOTIAN
765	LAOTIAN
765	Lao
765	Laos
766-767	MEO
768-769	HMONG
768	Hmongtana
768	Laohmong
768-769	Mong
770	MALAYSIAN
770	Malaysia
770	Sakai
770	Semang
770	Senoi
771-773	NORTH BORNEO
771	Brunei
771	Sabah
771-773	Sarawak
774-775	SINGAPOREAN
774-775	Singapore
776-781	THAI
776	THAI
776	Siam
776	Thailand
777	BLACK THAI
777	Thai Dam
778-781	WESTERN LAO
782	TAIWANESE
782	Taiwan
783-784	FORMOSAN
783-784	Formosa

700-799	OTHER ASIA—Con.
785-789	VIETNAMESE
785	VIETNAMESE
785	Anam
785	Vietnam
786	KATU
787	MA
788-789	MNONG
790-791	MONTAGNARD
790-791	Cham
792	INDO CHINESE
792	Indochina
793	EURASIAN
793	Indoeuropean
794	AMERASIAN
795-799	ASIAN
795	Asia
795-799	Orient
800-899	**PACIFIC**
800-802	AUSTRALIAN
800	AUSTRALIAN
800	Australia
800	New South Wales
800	Northern Territory
800	Queensland
800	Victoria
801	TASMANIAN
802	AUSTRALIAN ABORIGINE
803-807	NEW ZEALANDER
803-807	New Zealand
808-810	POLYNESIAN
808	POLYNESIAN
808	Norfolk Islander
809	KAPINGAMARANGAN
809	Nukuoroan
810	MAORI
811-813	HAWAIIAN
811	HAWAIIAN
811	Mixed Hawaiian
811-812	Native Hawaiian
813	PART HAWAIIAN
814, 861	SAMOAN
814	SAMOAN
814	Samoa
861	PART-SAMOAN

800-899	PACIFIC—Con.
815	TONGAN
815	Tonga
816	TOKELAUAN
816	Tokelau Islander
817	COOK ISLANDER
818	TAHITIAN
818	French Polynesia
818	Society Islander
819	NIUEAN
820	MICRONESIAN
820	Micronesia Islander
820	U.S. Trust Territory of the Pacific
821-822	GUAMANIAN
821	GUAMANIAN
821	Guam
822	CHAMORRO ISLANDER
823	SAIPANESE
823	Northern Marianas Islander
823	Saipan Islander
824	PALAUAN
825	MARSHALLESE
825	Marshall Islander
826	KOSRAEAN
827	PONAPEAN (POHNPEIAN)
827	Mokilese
827	Ngatikese
827	Pingelapese
828	TRUKESE (CHUUKESE)
828	Hall Islander
828	Mortlockese
828	Namanouito
828	Pulapese
828	Pulasukese
828	Pulawatese
828	Tamatamian
828	Ulul
829	YAPESE
830	CAROLINIAN
830	Eauripikese
830	Faisian
830	Ifalukese
830	Lamotrekese

800-899	PACIFIC—Con.
830	Satawalese
830	Ulithian
830	Wolealan
831	KIRIBATESE
831	Gilbertese
832-833	NAURUAN
832	NAURUAN
833	TARAWA ISLANDER
834-839	TINIAN
840	MELANESIAN
841-842	FIJIAN
841-842	Fiji
843-844	NEW GUINEAN
843	NEW GUINEAN
844	PAPUAN
845	SOLOMON ISLANDER
845	British Solomons
846	NEW CALEDONIAN
847-849	VANUATUAN
847	New Hebrides Islander
847-849	Ni Vanuatu
850-859	PACIFIC ISLANDER
850	Campbell Islander
850	Christmas Islander
850	Kermadec Islander
850	Midway Islander
850	Phoenix Islander
850-859	Wake Islander
860	PACIFIC
860	Oceania
861	See SAMOAN (code 814)
862	CHAMOLINIAN
863-899	RESERVE CODE
864	RESERVE CODE 1
865	RESERVE CODE 2
866	RESERVE CODE 3
867	RESERVE CODE 4
868	RESERVE CODE 5
869	RESERVE CODE 6
870	RESERVE CODE 7
871	RESERVE CODE 8
872	RESERVE CODE 9

800-899	PACIFIC—Con.
873	RESERVE CODE 10
874	RESERVE CODE 11
875	RESERVE CODE 12
876	RESERVE CODE 13
877	RESERVE CODE 14
878	RESERVE CODE 15
879	RESERVE CODE 16
880	RESERVE CODE 17
881	RESERVE CODE 18
882	RESERVE CODE 19
883	RESERVE CODE 20
884	RESERVE CODE 21
885	RESERVE CODE 22
886	RESERVE CODE 23
887	RESERVE CODE 24
888	RESERVE CODE 25
889	RESERVE CODE 26
890	RESERVE CODE 27
891	RESERVE CODE 28
892	RESERVE CODE 29
893	RESERVE CODE 30
894	RESERVE CODE 31
895	RESERVE CODE 32
896	RESERVE CODE 33
897	RESERVE CODE 34
898	RESERVE CODE 35
899	RESERVE CODE 36

900-994	NORTH AMERICA (EXCEPT HISPANIC)
900-912	AFRICAN AMERICAN
900	AFRO AMERICAN
901	AFRO
902	AFRICAN AMERICAN
903	BLACK
904	NEGRO
905	NONWHITE
906	COLORED
906	Bilalian
906	Nigritian
907	CREOLE
908-912	MULATTO
913-923	NATIVE AMERICAN
913	CENTRAL AMERICAN INDIAN
914-918	SOUTH AMERICAN INDIAN
919	CHEROKEE
920	AMERICAN INDIAN
921	ALEUT
922	ESKIMO
923	INUIT
924-928	WHITE
924	WHITE
924	Caucasian

900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.
925	ANGLO
925	Swamp Yankee
925-926	Wasp
927	APPALACHIAN
927	Hillbilly
928	ARYAN
929	PENNSYLVANIA GERMAN
929	Amish
929	Pennsylvania Dutch
929	Mennonite
929	Hutterite
930	GREENLANDER
931-934	CANADIAN
931	CANADIAN
931	Albertan
931	British Columbia
931	Canada
931	Labrador
931	Manitoba
931	New Brunswick
931	Ontario
931	Prince Edward Islander
931	Saskatchewan
931-932	Yukon
933	NEWFOUNDLAND
934	NOVA SCOTIA
935	FRENCH CANADIAN
935	Canadien
935	Franco American
935	Quebec
935	Quebecois
936-938	ACADIAN/CAJUN
936	ACADIAN
936	Acadia
937-938	CAJUN
939	AMERICAN
940-992	UNITED STATES
940	UNITED STATES
941	ALABAMA
942	ALASKA
943	ARIZONA
944	ARKANSAS
945	CALIFORNIA
946	COLORADO
947	CONNECTICUT
948	DISTRICT OF COLUMBIA
949	DELAWARE
950	FLORIDA

900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.
951	IDAHO
952	ILLINOIS
953	INDIANA
954	IOWA
955	KANSAS
956	KENTUCKY
957	LOUISIANA
958	MAINE
959	MARYLAND
960	MASSACHUSETTS
961	MICHIGAN
962	MINNESOTA
963	MISSISSIPPI
964	MISSOURI
965	MONTANA
966	NEBRASKA
967	NEVADA
968	NEW HAMPSHIRE
969	NEW JERSEY
970	NEW MEXICO
971	NEW YORK
972	NORTH CAROLINA
973	NORTH DAKOTA
974-975	OHIO
976	OKLAHOMA
977	OREGON
978	PENNSYLVANIA
979	RHODE ISLAND
980	SOUTH CAROLINA
981	SOUTH DAKOTA
982	TENNESSEE
983	TEXAS
984	UTAH
985	VERMONT
986	VIRGINIA
987	WASHINGTON
988	WEST VIRGINIA
989	WISCONSIN
990	WYOMING
991-992	GEORGIA
993	SOUTHERNER
994	NORTH AMERICAN
994	North America

995-999	RESIDUAL AND NO RESPONSE
995	MIXTURE
996-997	UNCODABLE ENTRIES
998	OTHER RESPONSES
998	Adventist
998	Agnostic
998	Apostolic
998	Ashkenazim Jew
998	Atheist
998	Bahai
998	Baptist
998	Brethren
998	Buddhist
998	Catholic
998	Christian
998	Christian Scientist
998	Congregationalist
998	Episcopal
998	Evangelist
998	Hebrew
998	Holiness
998	Islam
998	Jain
998	Jehovahs Witnesses
998	Jewish
998	Latter Day Saints
998	Lutheran
998	Methodist
998	Mormon
998	Muslim
998	Orthodox
998	Pentecostal
998	Presbyterian
998	Protestant
998	Quaker
998	Roman Catholic
998	Salvation Army
998	Sephardic
998	Seventh Day Adventist
998	Shiite
998	Unitarian
998	Yiddish
998	Zoroastrian
999	NOT REPORTED

GROUP QUARTERS

This section contains the alphabetical code list for group quarters. The group quarters code list was used by special place prelist enumerators to classify each type of group quarters. Each group quarters code is a two-digit number followed by either an "I" (institutional) or "N" (noninstitutional) suffix. The group quarters codes listed in the second column are for staff residing in group quarters.

GQ codes	Staff residents GQ codes	
87-N	--	**A. College Quarters Off Campus** (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		B. Correctional Institutions
22-I	22-N	1. *Federal Detention Centers*: Including Park Police, Bureau of Indian Affairs, Immigration and Naturalization Service (INS) centers, INS detention centers operated within local jails, and State and Federal prisons. INS detention centers also include INS Federal Alien Detention Facilities, INS Service Processing Centers, and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings and aliens who require custodial departures.
21-I	21-N	2. *Federal Prisons*: Including criminally insane wards operated by a Federal prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4. For detention centers within Federal prisons, see B1 above.
23-I	23-N	3. *Halfway Houses*: Operated for correctional purposes, including probation and restitution centers, prerelease centers, and community-residential treatment centers.
27-I	27-N	4. *Local (County/City) Jails and Other Local Confinement Facilities*: Including work farms used to hold persons awaiting trial or serving time on relatively short sentences (usually of a year or less), and jails run by private businesses under contract.
95-I	95-N	5. *Military Stockades, Jails*
28-I	28-N	6. *Police Lockups*: Temporary-holding facilities or other facilities that hold persons only if they have not been formally charged in court (usually detained less than 48 hours).
24-I	24-N	7. *State Prisons*: Prisons run by private businesses (under contract); including criminally insane wards operated by a State prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4.
20-I	20-N	8. *Other Types of Correctional Institutions*: Including private correctional facilities and correctional facilities specifically for alcohol/drug abuse. (Use only as a last resort if no other type code applies.)
91-N	--	**C. Crews of Civilian Vessels**
		D. Dormitories
92-N	--	1. *Agriculture Workers' Dormitories on Farms*: Including migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms including those on "tree farms."
87-N	--	2. *College Student Dormitories, and Fraternity and Sorority Houses (on campus)*: Including residential quarters for those in religious orders.
86-N	--	3. *Dormitories for Nurses and Interns in General and Military Hospitals*
97-N	--	4. *Military Quarters on Base*: Including barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel.
93-N	--	5. *Other Workers' Dormitories*: Including logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclave (Alaska only), Alaskan pipeline camps, nonfarm migratory workers' camps, such as workers who lay oil and gas pipelines.
		6. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.

GQ codes	Staff residents GQ codes	
		E. Elderly: Skilled nursing facilities, intermediate care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, nursing, convalescent, and rest homes including soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care.
		NOTE: Do not include dormitories for nurses' and interns'; see paragraph D3.
		1. *Public Ownership*
62-I	62-N	a. Federal ownership: Including Veterans' Administration, domiciliary homes, and U.S. Naval homes.
63-I	63-N	b. State ownership
64-I	64-N	c. County or city ownership
65-I	65-N	d. Don't know if Federal, State, or county-city ownership (Use only as a last resort if no other type code applies.)
		2. *Private Ownership*
66-I	66-N	a. Private not-for-profit
67-I	67-N	b. Private for profit
60-I	60-N	c. Don't know if for profit or not (Use only as a last resort if no other type code applies.)
61-I	61-N	3. *Don't Know if Federal, State, Local, or Private Ownership* (Use only as a last resort if no other type code applies.)
		F. Emergency Shelter/Street Night Enumeration ("S-NIGHT")
82-N	--	1. *Shelters for the Homeless with Sleeping Facilities*: Including emergency housing, missions and flophouses, Salvation Army shelters, hotels and motels charging $12 or less a night (excluding taxes), hotels and motels used entirely for homeless persons, the group of rooms in hotels and motels used partially for the homeless, and similar places known to have persons with no usual home elsewhere who stay overnight.
83-N	--	2. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles.
		3. *Street Enumeration* Predesignated Sites
84-N	--	a. Nonstructure locations, other than commerce places: Including street corners, parks, bridges, abandoned and boarded-up buildings, noncommercial campsites ("tent cities"), and similar sites.
85-N	--	b. Commerce places: Including railroad stations, airports, bus depots, subway stations, all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, and other similar predesignated sites.
75-N	--	4. *Shelters for Abused Women* (Shelters against domestic violence)
		G. Group Homes: Including those providing community-based care and supportive services such as halfway houses for the groups listed below. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
76-N	--	1. *Drug/Alcohol Abuse*: Including group homes, detoxification centers, quarterway houses such as residential treatment facilities that work closely with an accredited hospital, halfway houses, recovery homes for ambulatory, and mentally competent recovering alcoholics who may be re-entering the work force. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
29-N	--	2. *Maternity* (Homes for unwed mothers) (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)

GQ codes	Staff residents GQ codes	
		G. Group Homes—Con.
		3. *Mentally Ill*
16-N	--	a. Federal
17-N	--	b. State
18-N	--	c. Private
19-N	--	d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		4. *Mentally Retarded*
56-N	--	a. Federal
57-N	--	b. State
58-N	--	c. Private
59-N	--	d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		5. *Physically Handicapped*
72-N	--	a. Public ownership
73-N	--	b. Private ownership
74-N	--	c. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		6. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.
79-N	--	7. *Other Group Homes*: Including communes, foster care homes and job corps centers with 10 or more unrelated children. Do not include emergency housing for persons with no other home. See paragraph F1. (Use only as a last resort if no other type code applies.)
		H. Hospitals/Schools for the Handicapped
86-N	--	1. *Dormitories for Nurses and Interns in General and Military Hospitals*
70-I	70-N	2. *Drug/Alcohol Abuse*: Including hospitals, and hospital wards in psychiatric and general hospitals. These facilities/wards are in a medical setting equipped and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical/nursing care from a formally trained staff. For group homes, see paragraph G.
		3. *Hospitals for Chronically Ill*
54-I	86-N	a. Military hospitals or wards for chronically ill
55-I	86-N	b. Other hospitals or wards for chronically ill: Including tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices; wards for patients with Hansen's Disease (leprosy) and other incurable diseases; and other unspecified wards for the chronically ill. Do not include mental or alcohol/drug abuse hospitals or wards.
		4. *Mentally Ill (Psychiatric)*: Hospitals or wards, including wards for the criminally insane not operated by a prison and psychiatric wards of general hospitals and veterans' hospitals. This is a medical setting designed for the treatment of mental illness. Patients receive supervised and medical/nursing care from a formally trained staff. Code wards for the mentally retarded according to paragraph H5. Do not include hospitals or wards for alcohol/drug abuse; see paragraph H2.
46-I	46-N	a. Federal ownership
47-I	47-N	b. State or local ownership
48-I	48-N	c. Private ownership
45-I	45-N	d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)

GQ codes	Staff residents GQ codes	
		H. Hospitals/Schools for the Handicapped—Con.
		5. *Mentally Retarded*: Schools, hospitals, wards, including wards in hospitals for the mentally ill, and intermediate care facilities for the mentally retarded. This is in a suitably-equipped setting and with supervised and medical/nursing care from a formally trained staff.
41-I	41-N	a. Federal ownership
43-I	43-N	b. State or local ownership
42-I	42-N	c. Private ownership
40-I	40-N	d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)
		6. *Physically Handicapped*: Including schools, hospitals, or wards in a suitably-equipped medical setting and designed primarily for the physically handicapped who receive supervised care and medical/nursing care from a formally trained staff.
		a. Institutions for the deaf
38-I	38-N	(1) Public ownership
39-I	39-N	(2) Private ownership
37-I	37-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		b. Institutions for the blind
35-I	35-N	(1) Public ownership
36-I	36-N	(2) Private ownership
34-I	34-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		c. Orthopedic wards and institutions for physically handicapped: Including accident victims, and persons with polio, cerebral palsy, and muscular dystrophy.
32-I	32-N	(1) Public ownership
33-I	33-N	(2) Private ownership
31-I	31-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
53-I	86-N	7. *Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere*: Including maternity, neonatal, pediatric (including wards for boarder babies), military, surgical wards, and other purpose wards of hospitals and wards for infectious diseases.
		Note: Do not include long-term care rooms for the elderly in wards or buildings on the grounds of hospitals, see paragraph E.
		I. Hotels/Motels: "S-Night" locations, see paragraph F.
		J. Juvenile Institutions: Including homes, schools, and hospitals.
		1. *Long-Term Care* (length of stay usually more than 30 days)
		a. Neglected, abused, and dependent children: Including orphanages, homes, or residential care.
03-I	03-N	(1) Public ownership
04-I	04-N	(2) Private ownership
02-I	02-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
05-I	05-N	b. Emotionally disturbed children: Including residential treatment centers (psychiatric care provided).

GQ codes	Staff residents GQ codes	
		J. Juvenile Institutions: Including homes, schools, and hospitals—Con.
		c. Delinquent children: Placed by court, parents, or social service agency, in residential training school or home, including industrial schools, camps, or farms.
12-I	12-N	(1) Public ownership: Committed by courts.
15-I	15-N	(2) Private ownership: Some are committed by courts, others are referred by parents or social service agencies because of delinquent behavior.
11-I	11-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		2. *Short-term* (length of stay usually 30 days or less)
10-I	10-N	a. Delinquent children: Including those receiving temporary care in detention or diagnostic centers pending court disposition of case.
		b. Runaway, neglected, and homeless children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.
01-I	01-N	3. *Don't Know Type of Juvenile Institution*: Including homes, schools, hospitals, or wards for children. (Use only as a last resort if no other type code applies.)
		K. Military Quarters
		1. *On Base*
97-N	--	a. Barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel
96-N	--	b. Transient quarters (noninstitutional) for temporary residents (military or civilian)
86-N	--	c. Dormitories for nurses and interns in general military hospitals
54-I	86-N	d. Hospitals or wards for chronically ill
95-I	95-N	e. Stockades and jails
98-N	--	2. *Military Ships*
90-N	--	**L. Natural Disaster**: Including those temporarily displaced by a natural disaster, such as "Hurricane Hugo."
89-N	--	**M. Religious Group Quarters**: Including convents, monasteries, and rectories. Members of religious orders who live in a dormitory at a hospital or college were classified according to the type of place where they live, such as 86-N if at a general hospital, or 87-N if at a college. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
80-N	--	**N. Rooming and Boarding Houses** (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		O. Schools for the Handicapped: See paragraphs H5 and H6.
		P. Shelter/Street Night Enumeration ("S-Night"): See paragraph F.
94-N	--	**Q. Other Nonhousehold Living Situations**: Including places not covered by other GQ codes shown herein, such as commercial or public campgrounds, campgrounds at racetracks, fairs, and carnivals, hostels, and similar transient sites. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
		R. Staff of Institutions: Including staff personnel residing in group quarters. Code according to the appropriate type of group quarters shown under the column "Staff residents GQ codes." Staff residents are coded with an "N" suffix.
		Note: Do not assign GQ codes to staff residents in group quarters where a "--" is shown.

HISPANIC ORIGIN

This section contains the code list used to code write-in entries for the Hispanic origin question. A set of three-digit numerical codes was used to identify FOSDIC circles for the Hispanic origin categories listed in the Hispanic origin item on the questionnaire. These codes and their respective Hispanic origin categories are: Not Spanish/Hispanic-001, Mexican-002, Puerto Rican-003, Cuban-004, and Other Spanish/Hispanic-005. For sample (long-form) questionnaires, a separate set of three-digit numerical codes was used to code write-in entries provided by respondents to the "Yes, other Spanish/Hispanic" category of the Hispanic origin item. The list of origins with their associated three-digit codes is shown below. "n.e.c." is the abbreviation for not elsewhere classified.

000-001, 006-199	**NOT SPANISH/HISPANIC**
000-001	Not Spanish/Hispanic (FOSDIC circle)
006-199	Not Spanish/Hispanic
200-209	**SPANIARD**
200	Spaniard
201	Andalusian
202	Asturian
203	Castillian
204	Catalonian
205	Balearic Islander
206	Gallego
207	Valencian
208	Canarian
209	Spanish Basque
002, 210-220	**MEXICAN**
002	Mexican (FOSDIC circle)
210	Mexican
211	Mexican American
212	Mexicano
213	Chicano
214	La Raza
215	Mexican American Indian
216	Reserve Spanish/Hispanic 1
217	Reserve Spanish/Hispanic 2
218	Mexico
219	Reserve Spanish/Hispanic 3
220	Reserve Spanish/Hispanic 4
221-230	**CENTRAL AMERICAN**
221	Costa Rican
222	Guatemalan
223	Honduran
224	Nicaraguan
225	Panamanian
226	Salvadoran
227	Central American
228	Central American Indian
229	Canal Zone
230	Reserve Spanish/Hispanic 5
231-249	**SOUTH AMERICAN**
231	Argentinean
232	Bolivian
233	Chilean
231-249	**SOUTH AMERICAN**—Con.
234	Colombian
235	Ecuadorian
236	Paraguayan
237	Peruvian
238	Uruguayan
239	Venezuelan
240	Reserve Spanish/Hispanic 6
241	Reserve Spanish/Hispanic 7
242	Reserve Spanish/Hispanic 8
243	Reserve Spanish/Hispanic 9
244	Reserve Spanish/Hispanic 10
245	Reserve Spanish/Hispanic 11
246	Reserve Spanish/Hispanic 12
247	South American Indian
248	Criollo
249	South American
250-260	**LATIN AMERICAN**
250	Latin American
251	Latin
252	Latino
253	Reserve Spanish/Hispanic 13
254	Reserve Spanish/Hispanic 14
255	Reserve Spanish/Hispanic 15
256	Reserve Spanish/Hispanic 16
257	Reserve Spanish/Hispanic 17
258	Reserve Spanish/Hispanic 18
259	Reserve Spanish/Hispanic 19
260	Reserve Spanish/Hispanic 20
003, 261-270	**PUERTO RICAN**
003	Puerto Rican (FOSDIC circle)
261	Puerto Rican
262	Reserve Spanish/Hispanic 21
263	Reserve Spanish/Hispanic 22
264	Reserve Spanish/Hispanic 23
265	Reserve Spanish/Hispanic 24
266	Reserve Spanish/Hispanic 25
267	Reserve Spanish/Hispanic 26
268	Reserve Spanish/Hispanic 27
269	Reserve Spanish/Hispanic 28
270	Reserve Spanish/Hispanic 29

004, 271-274	CUBAN
004	Cuban (FOSDIC circle)
271	Cuban
272	Reserve Spanish/Hispanic 30
273	Reserve Spanish/Hispanic 31
274	Reserve Spanish/Hispanic 32

275-289	DOMINICAN
275	Dominican
276	Reserve Spanish/Hispanic 33
277	Reserve Spanish/Hispanic 34
278	Reserve Spanish/Hispanic 35
279	Reserve Spanish/Hispanic 36
280	Reserve Spanish/Hispanic 37
281	Reserve Spanish/Hispanic 38
282	Reserve Spanish/Hispanic 39
283	Reserve Spanish/Hispanic 40
284	Reserve Spanish/Hispanic 41
285	Reserve Spanish/Hispanic 42

275-289	DOMINICAN—Con.
286	Reserve Spanish/Hispanic 43
287	Reserve Spanish/Hispanic 44
288	Reserve Spanish/Hispanic 45
289	Reserve Spanish/Hispanic 46

005, 290-999	OTHER SPANISH/HISPANIC
005	Other Spanish/Hispanic (FOSDIC circle)
290	Hispanic
291	Spanish
292	Californio
293	Tejano
294	Nuevo Mexicano
295	Spanish American
296	Spanish American Indian
297	Meso American Indian
298	Mestizo
299-999	Other Spanish/Hispanic, n.e.c.

INDUSTRY

The list presents the industrial classification developed for the 1990 Census of Population and Housing. There are 235 categories for the employed, with 1 additional category for the experienced unemployed, and 7 additional categories for the Armed Forces. These categories are aggregated into 13 major groups. The classification is developed from the 1987 Standard Industrial Classification. "n.e.c." is the abbreviation for not elsewhere classified.

000-039	**AGRICULTURE, FORESTRY, AND FISHERIES**
000-010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
013-020	Landscape and horticultural services (078)
021-030	Agricultural services, n.e.c. (071, 072, 075, 076)
031	Forestry (08)
032-039	Fishing, hunting, and trapping (09)
040-059	**MINING**
040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
043-059	Nonmetallic mining and quarrying, except fuel (14)
060-099	**CONSTRUCTION (15, 16, 17)**
100-399	**MANUFACTURING**
100-229	Nondurable Goods
100-129	Food and kindred products
100	Meat products (201)
101	Dairy products (202)
102-109	Canned, frozen and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112-119	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207, 209)
122-129	Not specified food industries
130-131	Tobacco manufactures (21)
132-150	Textile mill products
132-139	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)
142-149	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)
151-159	Apparel and other finished textile products
151	Apparel and accessories, except knit (231-238)
152-159	Miscellaneous fabricated textile products (239)
160-170	Paper and allied products
160	Pulp, paper, and paperboard mills (261-263)
161	Miscellaneous paper and pulp products (267)
162-170	Paperboard containers and boxes (265)

100-399	**MANUFACTURING**—Con.
171-179	Printing, publishing, and allied industries
171	Newspaper publishing and printing (271)
172-179	Printing, publishing, and allied industries, except newspapers (272-279)
180-199	Chemicals and allied products
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182-189	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
191	Agricultural chemicals (287)
192-199	Industrial and miscellaneous chemicals (281, 286, 289)
200-209	Petroleum and coal products
200	Petroleum refining (291)
201-209	Miscellaneous petroleum and coal products (295, 299)
210-219	Rubber and miscellaneous plastics products
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212-219	Miscellaneous plastics products (308)
220-229	Leather and leather products
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222-229	Leather products, except footwear (315-317, 319)
230-399	Durable Goods
230-241	Lumber and wood products, except furniture
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232-240	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
242-249	Furniture and fixtures (25)
250-269	Stone, clay, glass, and concrete products
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324, 327)
252-260	Structural clay products (325)
261	Pottery and related products (326)
262-269	Miscellaneous nonmetallic mineral and stone products (328, 329)
270-309	Metal industries
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272-279	Primary aluminum industries (3334, part 334, 3353-3355, 3363, 3365)
280	Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
281	Cutlery, handtools, and general hardware (342)
282-289	Fabricated structural metal products (344)
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292-299	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301-309	Not specified metal industries

100-399	**MANUFACTURING**—Con.
310-339	Machinery and computing equipment
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312-319	Construction and material handling machines (353)
320	Metalworking machinery (354)
321	Office and accounting machines (3578, 3579)
322-330	Computers and related equipment (3571-3577)
331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332-339	Not specified machinery
340-350	Electrical machinery, equipment, and supplies
340	Household appliances (363)
341	Radio, TV, and communication equipment (365, 366)
342-349	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
350	Not specified electrical machinery, equipment, and supplies
351-370	Transportation equipment
351	Motor vehicles and motor vehicle equipment (371)
352-359	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362-369	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
371-389	Professional and photographic equipment, and watches
371	Scientific and controlling instruments (381, 382 except 3827)
372-379	Medical, dental, and optical instruments and supplies (3827, 384, 385)
380	Photographic equipment and supplies (386)
381-389	Watches, clocks, and clockwork operated devices (387)
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 except 394)
392-399	Not specified manufacturing industries
400-499	**TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES**
400-439	Transportation
400	Railroads (40)
401	Bus service and urban transit (41, except 412)
402-409	Taxicab service (412)
410	Trucking service (421, 423)
411	Warehousing and storage (422)
412-419	U.S. Postal Service (43)
420	Water transportation (44)
421	Air transportation (45)
422-431	Pipe lines, except natural gas (46)
432-439	Services incidental to transportation (47)
440-449	Communications
440	Radio and television broadcasting and cable (483, 484)
441	Telephone communications (481)
442-449	Telegraph and miscellaneous communications services (482, 489)
450-499	Utilities and sanitary services
450	Electric light and power (491)

400-499 TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

451	Gas and steam supply systems (492, 496)
452-469	Electric and gas, and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472-499	Not specified utilities

500-579 WHOLESALE TRADE

500-539	Durable Goods
500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502-509	Lumber and construction materials (503)
510	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512-520	Electrical goods (506)
521-529	Hardware, plumbing and heating supplies (507)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532-539	Miscellaneous wholesale, durable goods (509 except 5093)
540-579	Nondurable Goods
540	Paper and paper products (511)
541	Drugs, chemicals and allied products (512, 516)
542-549	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm-product raw materials (515)
552-559	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562-570	Miscellaneous wholesale, nondurable goods (5192-5199)
571-579	Not specified wholesale trade

580-699 RETAIL TRADE

580	Lumber and building material retailing (521, 523)
581	Hardware stores (525)
582-589	Retail nurseries and garden stores (526)
590	Mobile home dealers (527)
591	Department stores (531)
592-599	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602-609	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612-619	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623-629	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633-639	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642-649	Drug stores (591)
650	Liquor stores (592)

580-699	**RETAIL TRADE**—Con.
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652-659	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663-669	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672-680	Fuel dealers (598)
681	Retail florists (5992)
682-690	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691-699	Not specified retail trade
700-720	**FINANCE, INSURANCE, AND REAL ESTATE**
700	Banking (60 except 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702-709	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712-720	Real estate, including real estate-insurance offices (65)
721-760	**BUSINESS AND REPAIR SERVICES**
721	Advertising (731)
722-730	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732-739	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742-749	Automotive rental and leasing, without drivers (751)
750	Automotive parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752-759	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)
761-799	**PERSONAL SERVICES**
761	Private households (88)
762-769	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 except part 7219)
772-779	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782-789	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791-799	Miscellaneous personal services (722, 729)
800-811	**ENTERTAINMENT AND RECREATION SERVICES**
800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802-809	Bowling centers (793)
810-811	Miscellaneous entertainment and recreation services (791, 794, 799)

812-899	**PROFESSIONAL AND RELATED SERVICES**
812-819	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822-829	Offices and clinics of optometrists (8042)
830	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831	Hospitals (806)
832-839	Nursing and personal care facilities (805)
840	Health services, n.e.c. (807, 808, 809)
841	Legal services (81)
842-849	Elementary and secondary schools (821)
850	Colleges and universities (822)
851	Vocational schools (824)
852-859	Libraries (823)
860	Educational services, n.e.c. (829)
861	Job training and vocational rehabilitation services (833)
862	Child day care services (part 835)
863-869	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873-879	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882-889	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893-899	Miscellaneous professional and related services (899)
900-939	**PUBLIC ADMINISTRATION**
900	Executive and legislative offices (911-913)
901-909	General government, n.e.c. (919)
910-920	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922-929	Administration of human resources programs (94)
930	Administration of environmental quality and housing programs (95)
931	Administration of economic programs (96)
932-939	National security and international affairs (97)
940-991	**ACTIVE DUTY MILITARY**
940-959	Armed Forces
940	Army
941	Air Force
942-949	Navy
950	Marines
951	Coast Guard
952-959	Armed Forces, Branch not specified
960-991	Military Reserves or National Guard
992-999	**EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY**
992-999	Unemployed, last worked 1984 or earlier

LANGUAGE

This section contains the code list of languages other than English spoken at home. Each entry was given a three-digit code. If more than one language was reported, only the first language reported was coded. The languages were coded originally into nearly 400 different language categories. The following list contains the principal name for each code. Since many languages and language groups are known by several names, additional illustrative names are shown for some languages. A complete list of all reported language names and categories into which they were coded may be obtained from the Census Bureau at the cost of reproduction.

000-600	NOT IN UNIVERSE
601	JAMAICAN CREOLE
602	KRIO
603	HAWAIIAN PIDGIN
604	PIDGIN
605	GULLAH
606	SARAMACCA
607	GERMAN
607	Austrian
607	Swiss
608	PENNSYLVANIA DUTCH
609	YIDDISH
610	DUTCH
610	Flemish
611	AFRIKAANS
612	FRISIAN
613	LUXEMBOURGIAN
614	SWEDISH
615	DANISH
616	NORWEGIAN
617	ICELANDIC
618	FAROESE
619	ITALIAN
620	FRENCH
620	Walloon
621	PROVENCAL
622	PATOIS
623	FRENCH CREOLE
623	Haitian Creole
624	CAJUN
625	SPANISH
626	CATALONIAN
627	LADINO
628	PACHUCO
629	PORTUGUESE
630	PAPIA MENTAE
631	RUMANIAN
632	RHAETO-ROMANIC
632	Romansch
633	WELSH
634	BRETON
635	IRISH GAELIC
636	SCOTTIC GAELIC
637	GREEK
638	ALBANIAN
639	RUSSIAN
640	BIELORUSSIAN
641	UKRAINIAN
642	CZECH
643	KASHUBIAN
644	LUSATIAN
644	Sorbian
644	Wendish
645	POLISH
646	SLOVAK
647	BULGARIAN
648	MACEDONIAN
649	SERBOCROATIAN
649	Slavic
649	Yugoslav
650	CROATIAN
651	SERBIAN
652	SLOVENE
653	LITHUANIAN
654	LETTISH
655	ARMENIAN
656	PERSIAN
656	Farsi
656	Pushto
657	PASHTO
657	Afghan
658	KURDISH
659	BALOCHI
660	TADZHIK
661	OSSETE
662	SANSKRIT
663	HINDI AND RELATED
663	Hindi
663	India
663	Urdu

664	BENGALI
665	PANJABI
666	MARATHI
667	GUJARATHI
668	BIHARI
669	RAJASTHANI
670	ORIYA
671	BHILI
672	ASSAMESE
673	KASHMIRI
674	NEPALI
675	SINDHI
676	MALDIVIAN
677	SINHALESE
678	ROMANY
679	FINNISH
680	ESTONIAN
681	LAPP
682	HUNGARIAN
683	OTHER URALIC LANGUAGES
683	Cheremis
683	Mordvin
683	Samoyed
683	Ugric
683	Yenisei
684	CHUVASH
685	KARAKALPAK
686	KAZAKH
687	KIRGHIZ
688	KARACHAY
688	Tatar
689	UIGHUR
689	Uzbek
690	AZERBAIJANI
691	TURKISH
692	TURKMEN
693	YAKUT
694	MONGOLIAN
695	TUNGUS
696	CAUCASIAN
696	Avar
696	Georgian
697	BASQUE
698	DRAVIDIAN
699	BRAHUI
700	GONDI
701	TELUGU
702	KANNADA
703	MALAYALAM
704	TAMIL
705	KURUKH
706	MUNDA
707	BURUSHASKI
708	CHINESE
708	Cantonese
708	Yueh
708	Min
709	HAKKA
709	Fukien
709	K'echia
710	KAN
710	Nan Chang
711	HSIANG
711	Hunan
712	MANDARIN
712	Honan
712	Hopei
712	Pei
713	FUCHOW
713	Min Pei
714	FORMOSAN
714	Min Nan
715	WU
716	TIBETAN
717	BURMESE
717	Tonkin
718	KAREN
719	KACHIN
720	THAI
720	Kam
720	Lao
720	Laotian
720	Tung
721	MIAO-YAO
722	MIAO
722	Hmong
723	JAPANESE
724	KOREAN
725	AINU
726	MON-KHMER
726	Cambodian
726	Khmer
726	Mon

727	SIBERIAN LANGUAGES, not elsewhere classified
728	VIETNAMESE
729	MUONG
730	BUGINESE
731	MOLUCCAN
732	INDONESIAN
733	ACHINESE
734	BALINESE
735	CHAM
736	JAVANESE
737	MADURESE
738	MALAGASY
739	MALAY
740	MINANGKABAU
741	SUNDANESE
742	TAGALOG
742	Filipino
743	BISAYAN
743	Ilongo
744	SEBUANO
745	PANGASINAN
746	ILOCANO
746	Igorot
747	BIKOL
748	PAMPANGAN
749	GORONTALO
750	MICRONESIAN
751	CAROLINIAN
752	CHAMORRO
753	GILBERTESE
754	KUSAIEAN
755	MARSHALLESE
756	MOKILESE
757	MORTLOCKESE
758	NAURUAN
759	PALAU
760	PONAPEAN
761	TRUKESE
762	ULITHEAN
763	WOLEAI-ULITHI
763	Eauripik
763	Ifaluk
764	YAPESE
765	INDO-PACIFIC LANGUAGES, not elsewhere classified
765	Melanesian
766	POLYNESIAN
767	SAMOAN
768	TONGAN
769	NIUEAN
770	TOKELAUAN
771	FIJIAN
772	MARQUESAN
773	RAROTONGAN
774	MAORI
775	NUKUORO
776	HAWAIIAN
777	ARABIC
778	HEBREW
779	SYRIAC
779	Aramaic
779	Assyrian
779	Chaldean
780	AMHARIC
780	Tigre
781	BERBER
782	CHADIC
782	Hamitic
782	Hausa
783	CUSHITE
783	Beja
783	Somali
784	SUDANIC
784	Dinka
784	Gambai
784	Sudanese
785	NILOTIC
785	Acholi
785	Luo
785	Nuer
786	NILO-HAMITIC
786	Bari
786	Masai
787	NUBIAN
788	SAHARAN
789	NILO-SAHARAN
789	Fur
789	Songhai
790	KHOISAN
790	Bushman
791	SWAHILI
792	BANTU
792	Bembe

792	Botswana
792	Chaga
792	Fan
792	Kikuyu
792	Kongo
792	Luganda
792	Naebele
792	Xhosa
792	Zulu
793	MANDE
793	Kpelle
793	Mandingo
794	FULANI
795	GUR
795	Dagomba
796	KRU
796	Damomeen
796	Egbo
796	Ibo
796	Nigerian
796	Yoruba
797	EFIK
797	Ibibio
798	MBUM AND RELATED
799	AFRICAN, not further specified
800	ALEUT
801	PACIFIC GULF YUPIK
801	Pacific Eskimo
802	ESKIMO
803	INUPIK
803	Inuit
804	SAINT LAWRENCE ISLAND YUPIK
805	YUPIK
806	ALGONQUIAN
807	ARAPAHO
808	ATSINA
808	Gros Ventre
809	BLACKFOOT
810	CHEYENNE
811	CREE
812	DELAWARE
812	Lenni-Lenape
813	FOX
813	Sac
814	KICKAPOO
815	MENOMINI
816	FRENCH CREE
816	Metis
817	MIAMI
818	MICMAC
819	OJIBWA
819	Chippewa
820	OTTAWA
821	PASSAMAQUODDY
821	Malecite
822	PENOBSCOT
823	ABNAKI
824	POTAWATOMI
825	SHAWNEE
826	WIYOT
827	YUROK
828	KUTENAI
829	MAKAH
830	KWAKIUTL
830	Quileute
831-832	NOOTKA
833	LOWER CHEHALIS
834	UPPER CHEHALIS
834	Chehalis
834	Satsop
835	CLALLAM
836	COEUR D'ALENE
836	Skitsamish
837	COLUMBIA
837	Chelan
837	Wenatchee
838	COWLITZ
839	SALISH
839	Flathead
840	NOOTSACK
841	OKANOGAN
842	PUGET SOUND SALISH
842	Duwamish
842	Nisqualli
842	Puyallup
842	Skagit

842	Snohomish
842	Suquamish
843	QUINAULT
843	Queets
844	TILLAMOOK
845	TWANA
846	HAIDA
847	ATHAPASCAN
848	AHTENA
849	HAN
850	INGALIT
851	KOYUKON
852	KUCHIN
853	UPPER KUSKOKWIM
854	TANAINA
855	TANANA
855	Minto
856	TANACROSS
857	UPPER TANANA
857	Nabesna
857	Tetlin
858	TUTCHONE
859	CHASTA COSTA
859	Chetco
859	Coquille
859	Smith River Athapascan
860	HUPA
861	OTHER ATHAPASCAN-EYAK LANGUAGES
861	Cahto
861	Mattole
861	Wailaki
862	APACHE
863	KIOWA
864	NAVAHO
865	EYAK
866	TLINGIT
866	Chilkat
866	Sitka
866	Tongass
866	Yakutat
867	MOUNTAIN MAIDU
867	Maidu
868	NORTHWEST MAIDU
868	Concow
869	SOUTHERN MAIDU
869	Nisenan
870	COAST MIWOK
870	Bodega
870	Marin
871	PLAINS MIWOK
872	SIERRA MIWOK
872	Miwok
873	NOMLAKI
873	Tehama
874	PATWIN
874	Colouse
874	Suisun
875	WINTUN
876	FOOTHILL NORTH YOKUTS
877	TACHI
878	SANTIAM
878	Calapooya
878	Wapatu
879	SIUSLAW
879	Coos
879	Lower Umpqua
880	KLAMATH
880	Modoc
881	NEZ PERCE
882	SAHAPTIAN
882	Celilo
882	Klikitat
882	Palouse
882	Tenino
882	Umatilla
882	Warm Springs
882	Yakima
883	UPPER CHINOOK
883	Chinook
883	Clackamas
883	Multnomah
883	Wasco
883	Wishram
884	TSIMSHIAN
885	ACHUMAWI
886	ATSUGEWI
887	KAROK
888	POMO
889	SHASTAN

890	WASHO
891	UP RIVER YUMAN
892	COCOMARICOPA
893	MOHAVE
894	YUMA
895	DIEGUENO
896	DELTA RIVER YUMAN
897	UPLAND YUMAN
898	HAVASUPAI
899	WALAPAI
900	YAVAPAI
901	CHUMASH
902	TONKAWA
903	YUCHI
904	CROW
904	Absaroke
905	HIDATSA
906	MANDAN
907	DAKOTA
907	Brule
907	Lakota
907	Oglala
907	Sioux
908	CHIWERE
909	WINNEBAGO
910	KANSA
910	Kaw
911	OMAHA
912	OSAGE
913	PONCA
914	QUAPAW
914	Arkansas
915	ALABAMA
916	CHOCTAW
916	Chickasaw
917	MIKASUKI
918	HICHITA
918	Apalachicola
919	KOASATI
920	MUSKOGEE
920	Creek
920	Seminole
921	CHETEMACHA
922	YUKI
923	WAPPO
924	KERES
925	IROQUOIS
926	MOHAWK
927	ONEIDA
928	ONONDAGA
929	CAYUGA
930	SENECA
931	TUSCARORA
932	WYANDOT
932	Huron
933	CHEROKEE
934	ARIKARA
935	CADDO
936	PAWNEE
937	WICHITA
938	COMANCHE
939	MONO
939	Owens Valley Paiute
940	PAIUTE
941	NORTHERN PAIUTE
941	Bannock
941	Num
941	Snake
942	SOUTHERN PAIUTE
943	CHEMEHUEVI
944	KAWAIISU
945	UTE
946	SHOSHONI
947	PANAMINT
948	HOPI
949	CAHUILLA
950	CUPENO
951	LUISENO
952	SERRANO
953	TUBATULABAL
954	PIMA
954	Papago
955	YAQUI
956	AZTECAN
956	Mexicano
956	Nahua
957-958	SONORAN, not elsewhere classified
957	Cahita
957	Guasave
957	Huichole
957	Nayit
957-958	Tarahumara

959	PICURIS
959	Northern Tiwa
959	Taos
960	TIWA
960	Isleta
960	Ysleta
961	SANDIA
962	TEWA
962	Hano
962	Hopi-Tewa
962	San Ildefonso
962	San Juan
962	Santa Clara
963	TOWA
964	ZUNI
965	CHINOOK JARGON
966	AMERICAN INDIAN
967	MISUMALPAN
967	Matagalpa
967	Miskito
967	Sumu
968	MAYAN LANGUAGES
968	Cakchiquel
968	Chol
968	Guastec
968	Guatemala
968	Ixil
968	Kechi
968	Mam
968	Maya
968	Queche
968	Yucateca
969	TARASCAN
970	MAPUCHE
970	Araucanian
970	Chilote
971	OTO-MANGUEN
971	Ixatec
971	Mixtec
971	Otomi
971	Popoloc
971	Zapoteca
972	QUECHUA
973	AYMARA
974	ARAWAKIAN
974	Araua
974	Carib
974	Guajiro
974	Kitemoca
974	Tatu
975	CHIBCHAN
975	Boruca
975	Cuna
975	Guaymi
975	Ica
976	TUPI-GUARANI
976	Guajibo
976	Guarani
976	Siriono
977	JICARILLA
977	Lipan
978	CHIRICAHUA
978	Mescalero
979	SAN CARLOS
979	Cibecue
979	San Carlos
979	San Carlos Apache
979	White Mountain
980	KIOWA-APACHE
981	KALISPEL
982	SPOKANE
983-998	LANGUAGE SPECIFIED, NOT LISTED
999	NOT REPORTED

OCCUPATION

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 500 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

000-202 MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

000-042 Executive, Administrative, and Managerial Occupations

000-003 Legislators (111)
004 Chief executives and general administrators, public administration (112)
005 Administrators and officials, public administration (1132-1139)
006 Administrators, protective services (1131)
007 Financial managers (122)
008 Personnel and labor relations managers (123)
009-012 Purchasing managers (124)
013 Managers, marketing, advertising, and public relations (125)
014 Administrators, education and related fields (128)
015 Managers, medicine and health (131)
016 Postmasters and mail superintendents (1344)
017 Managers, food serving and lodging establishments (1351)
018 Managers, properties and real estate (1353)
019-020 Funeral directors (part 1359)
021 Managers, service organizations, n.e.c. (127, 1352, 1354, part 1359)
022 Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)

023-042 Management Related Occupations
023 Accountants and auditors (1412)
024 Underwriters (1414)
025 Other financial officers (1415, 1419)
026 Management analysts (142)
027 Personnel, training, and labor relations specialists (143)
028 Purchasing agents and buyers, farm products (1443)
029-032 Buyers, wholesale and retail trade except farm products (1442)
033 Purchasing agents and buyers, n.e.c. (1449)
034 Business and promotion agents (145)
035 Construction inspectors (1472)
036 Inspectors and compliance officers, except construction (1473)
037-042 Management related occupations, n.e.c. (149)

043-202 Professional Specialty Occupations

043-063 Engineers, Architects, and Surveyors
043 Architects (161)
044-062 Engineers
044 Aerospace (1622)
045 Metallurgical and materials (1623)
046 Mining (1624)
047 Petroleum (1625)
048 Chemical (1626)
049-052 Nuclear (1627)
053 Civil (1628)
054 Agricultural (1632)
055 Electrical and electronic (1633, 1636)
056 Industrial (1634)
057 Mechanical (1635)

058 Marine and naval architects (1637)
059-062 Engineers, n.e.c. (1639)
063 Surveyors and mapping scientists (164)

064-068 Mathematical and Computer Scientists
064 Computer systems analysts and scientists (171)
065 Operations and systems researchers and analysts (172)
066 Actuaries (1732)
067 Statisticians (1733)
068 Mathematical scientists, n.e.c. (1739)

069-083 Natural Scientists
069-072 Physicists and astronomers (1842, 1843)
073 Chemists, except biochemists (1845)
074 Atmospheric and space scientists (1846)
075 Geologists and geodesists (1847)
076 Physical scientists, n.e.c. (1849)
077 Agricultural and food scientists (1853)
078 Biological and life scientists (1854)
079-082 Forestry and conservation scientists (1852)
083 Medical scientists (1855)

084-094 Health Diagnosing Occupations
084 Physicians (261)
085 Dentists (262)
086 Veterinarians (27)
087 Optometrists (281)
088 Podiatrists (283)
089-094 Health diagnosing practitioners, n.e.c. (289)

095-112 Health Assessment and Treating Occupations
095 Registered nurses (29)
096 Pharmacists (301)
097 Dietitians (302)
098-105 Therapists
098 Respiratory therapists (3031)
099-102 Occupational therapists (3032)
103 Physical therapists (3033)
104 Speech therapists (3034)
105 Therapists, n.e.c. (3039)
106-112 Physicians' assistants (304)

113-154 Teachers, Postsecondary
113 Earth, environmental, and marine science teachers (2212)
114 Biological science teachers (2213)
115 Chemistry teachers (2214)
116 Physics teachers (2215)
117 Natural science teachers, n.e.c. (2216)
118 Psychology teachers (2217)
119-122 Economics teachers (2218)
123 History teachers (2222)
124 Political science teachers (2223)
125 Sociology teachers (2224)
126 Social science teachers, n.e.c. (2225)
127 Engineering teachers (2226)
128 Mathematical science teachers (2227)

129-132	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139-142	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149-152	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
155-162	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159-162	Teachers, n.e.c. (236, 239)
163	Counselors, Educational and Vocational (24)
164-165	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
166-173	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169-172	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
174-177	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
178-182	Lawyers and Judges
178	Lawyers (211)
179-182	Judges (212)
183-202	Writers, Artists, Entertainers, and Athletes
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189-192	Photographers (326)

193 Dancers (327)
194 Artists, performers, and related workers, n.e.c. (328, 329)
195-196 Editors and reporters (331)
197 Public relations specialists (332)
198 Announcers (333)
199-202 Athletes (34)

203-402 TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

203-242 Technicians and Related Support Occupations

203-212 Health Technologists and Technicians
203 Clinical laboratory technologists and technicians (362)
204 Dental hygienists (363)
205 Health record technologists and technicians (364)
206 Radiologic technicians (365)
207 Licensed practical nurses (366)
208-212 Health technologists and technicians, n.e.c. (369)

213-242 Technologists and Technicians, Except Health
213-222 Engineering and Related Technologists and Technicians
213 Electrical and electronic technicians (3711)
214 Industrial engineering technicians (3712)
215 Mechanical engineering technicians (3713)
216 Engineering technicians, n.e.c. (3719)
217 Drafting occupations (372)
218-222 Surveying and mapping technicians (373)

223-225 Science Technicians
223 Biological technicians (382)
224 Chemical technicians (3831)
225 Science technicians, n.e.c. (3832, 3833, 384, 389)

226-242 Technicians, Except Health, Engineering, and Science
226 Airplane pilots and navigators (825)
227 Air traffic controllers (392)
228 Broadcast equipment operators (393)
229-232 Computer programmers (3971, 3972)
233 Tool programmers, numerical control (3974)
234 Legal assistants (396)
235-242 Technicians, n.e.c. (399)

243-302 Sales Occupations

243-252 Supervisors and Proprietors, Sales Occupations (40)
253-257 Sales Representatives, Finance and Business Services
253 Insurance sales occupations (4122)
254 Real estate sales occupations (4123)
255 Securities and financial services sales occupations (4124)
256 Advertising and related sales occupations (4153)
257 Sales occupations, other business services (4152)

258-262 Sales Representatives, Commodities, Except Retail
258 Sales engineers (421)
259-262 Sales representatives, mining, manufacturing, and wholesale (423, 424)

263-282 Sales Workers, Retail and Personal Services
263 Sales workers, motor vehicles and boats (4342, 4344)
264 Sales workers, apparel (4346)
265 Sales workers, shoes (4351)
266 Sales workers, furniture and home furnishings (4348)
267 Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)
268 Sales workers, hardware and building supplies (4353)
269-273 Sales workers, parts (4367)
274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
275 Sales counter clerks (4363)
276 Cashiers (4364)
277 Street and door-to-door sales workers (4366)
278-282 News vendors (4365)

283-302 Sales Related Occupations
283 Demonstrators, promoters and models, sales (445)
284 Auctioneers (447)
285-302 Sales support occupations, n.e.c. (444, 446, 449)

303-402 Administrative Support Occupations, Including Clerical

303-307 Supervisors, Administrative Support Occupations
303 Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304 Supervisors, computer equipment operators (4512)
305 Supervisors, financial records processing (4521)
306 Chief communications operators (4523)
307 Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)

308-312 Computer Equipment Operators
308 Computer operators (4612)
309-312 Peripheral equipment operators (4613)

313-315 Secretaries, Stenographers, and Typists
313 Secretaries (4622)
314 Stenographers (4623)
315 Typists (4624)

316-324 Information Clerks
316 Interviewers (4642)
317 Hotel clerks (4643)
318 Transportation ticket and reservation agents (4644)
319-322 Receptionists (4645)
323-324 Information clerks, n.e.c. (4649)

325-336 Records Processing Occupations, Except Financial
325 Classified-ad clerks (4662)
326 Correspondence clerks (4663)
327 Order clerks (4664)
328 Personnel clerks, except payroll and timekeeping (4692)
329-334 Library clerks (4694)
335 File clerks (4696)
336 Records clerks (4699)

337-344 Financial Records Processing Occupations
337 Bookkeepers, accounting, and auditing clerks (4712)
338 Payroll and timekeeping clerks (4713)

339-342 Billing clerks (4715)
343 Cost and rate clerks (4716)
344 Billing, posting, and calculating machine operators (4718)

345-347 Duplicating, Mail and Other Office Machine Operators
345 Duplicating machine operators (4722)
346 Mail preparing and paper handling machine operators (4723)
347 Office machine operators, n.e.c. (4729)

348-353 Communications Equipment Operators
348-352 Telephone operators (4732)
353 Communications equipment operators, n.e.c. (4733, 4739)

354-358 Mail and Message Distributing Occupations
354 Postal clerks, except mail carriers (4742)
355 Mail carriers, postal service (4743)
356 Mail clerks, except postal service (4744)
357-358 Messengers (4745)

359-374 Material Recording, Scheduling, and Distributing Clerks
359-362 Dispatchers (4751)
363 Production coordinators (4752)
364 Traffic, shipping, and receiving clerks (4753)
365 Stock and inventory clerks (4754)
366 Meter readers (4755)
368-372 Weighers, measurers, checkers, and samplers (4756, 4757)
373 Expediters (4758)
374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

375-378 Adjusters and Investigators
375 Insurance adjusters, examiners, and investigators (4782)
376 Investigators and adjusters, except insurance (4783)
377 Eligibility clerks, social welfare (4784)
378 Bill and account collectors (4786)

379-402 Miscellaneous Administrative Support Occupations
379-382 General office clerks (463)
383 Bank tellers (4791)
384 Proofreaders (4792)
385 Data-entry keyers (4793)
386 Statistical clerks (4794)
387-388 Teachers' aides (4795)
389-402 Administrative support occupations, n.e.c. (4787, 4799)

403-472 SERVICE OCCUPATIONS

403-412 Private Household Occupations
403 Launderers and ironers (503)
404 Cooks, private household (504)
405 Housekeepers and butlers (505)
406 Child care workers, private household (506)
407-412 Private household cleaners and servants (502, 507, 509)

413-432 Protective Service Occupations
413-415 Supervisors, Protective Service Occupations
413 Supervisors, firefighting and fire prevention occupations (5111)

414 Supervisors, police and detectives (5112)
415 Supervisors, guards (5113)
416-417 Firefighting and Fire Prevention Occupations
416 Fire inspection and fire prevention occupations (5122)
417 Firefighting occupations (5123)
418-424 Police and Detectives
418-422 Police and detectives, public service (5132)
423 Sheriffs, bailiffs, and other law enforcement officers (5134)
424 Correctional institution officers (5133)
425-432 Guards
425 Crossing guards (5142)
426 Guards and police, except public service (5144)
427-432 Protective service occupations, n.e.c. (5149)

433-472 Service Occupations, Except Protective and Household

433-444 Food Preparation and Service Occupations
433 Supervisors, food preparation and service occupations (5211)
434 Bartenders (5212)
435 Waiters and waitresses (5213)
436-437 Cooks (5214, 5215)
438 Food counter, fountain and related occupations (5216)
439-442 Kitchen workers, food preparation (5217)
443 Waiters'/waitresses' assistants (5218)
444 Miscellaneous food preparation occupations (5219)

445-447 Health Service Occupations
445 Dental assistants (5232)
446 Health aides, except nursing (5233)
447 Nursing aides, orderlies, and attendants (5236)

448-455 Cleaning and Building Service Occupations, Except Household
448 Supervisors, cleaning and building service workers (5241)
449-452 Maids and housemen (5242, 5249)
453 Janitors and cleaners (5244)
454 Elevator operators (5245)
455 Pest control occupations (5246)

456-472 Personal Service Occupations
456 Supervisors, personal service occupations (5251)
457 Barbers (5252)
458 Hairdressers and cosmetologists (5253)
459-460 Attendants, amusement and recreation facilities (5254)
461 Guides (5255)
462 Ushers (5256)
463 Public transportation attendants (5257)
464 Baggage porters and bellhops (5262)
465 Welfare service aides (5263)
466 Family child care providers (part 5264)
467 Early childhood teacher's assistants (part 5264)
468 Child care workers, n.e.c. (part 5264)
469-472 Personal service occupations, n.e.c. (5258, 5269)

473-502	**FARMING, FORESTRY, AND FISHING OCCUPATIONS**
473-476	Farm Operators and Managers
473	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)
477-493	Other Agricultural and Related Occupations
477-484	Farm Occupations, Except Managerial
477-478	Supervisors, farm workers (5611)
479-482	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
485-493	Related Agricultural Occupations
485	Supervisors, related agricultural occupations (5621)
486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489-493	Inspectors, agricultural products (5627)
494-496	Forestry and Logging Occupations
494	Supervisors, forestry and logging workers (571)
495	Forestry workers, except logging (572)
496	Timber cutting and logging occupations (573, 579)
497-502	Fishers, Hunters, and Trappers
497	Captains and other officers, fishing vessels (part 8241)
498	Fishers (583)
499-502	Hunters and trappers (584)
503-702	**PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**
503-552	Mechanics and Repairers
503-504	Supervisors, mechanics and repairers (60)
505-552	Mechanics and Repairers, Except Supervisors
505-517	Vehicle and Mobile Equipment Mechanics and Repairers
505-506	Automobile mechanics (part 6111)
506	Automobile mechanic apprentices (part 6111)
507	Bus, truck, and stationary engine mechanics (6112)
508	Aircraft engine mechanics (6113)
509-513	Small engine repairers (6114)
514	Automobile body and related repairers (6115)
515	Aircraft mechanics, except engine (6116)
516	Heavy equipment mechanics (6117)
517	Farm equipment mechanics (6118)
518	Industrial machinery repairers (613)
519-522	Machinery maintenance occupations (614)
523-533	Electrical and Electronic Equipment Repairers
523-524	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525	Data processing equipment repairers (6154)
526	Household appliance and power tool repairers (6156)
527-528	Telephone line installers and repairers (6157)
529-532	Telephone installers and repairers (6158)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)
534	Heating, air conditioning, and refrigeration mechanics (616)

535-552 Miscellaneous Mechanics and Repairers
535 Camera, watch, and musical instrument repairers (6171, 6172)
536-537 Locksmiths and safe repairers (6173)
538 Office machine repairers (6174)
539-542 Mechanical controls and valve repairers (6175)
543 Elevator installers and repairers (6176)
544-546 Millwrights (6178)
547-548 Specified mechanics and repairers, n.e.c. (6177, 6179)
549-552 Not specified mechanics and repairers

553-612 Construction Trades

553-562 Supervisors, Construction Occupations
553 Supervisors, brickmasons, stonemasons, and tile setters (6312)
554 Supervisors, carpenters and related workers (6313)
555 Supervisors, electricians and power transmission installers (6314)
556 Supervisors, painters, paperhangers, and plasterers (6315)
557 Supervisors, plumbers, pipefitters, and steamfitters (6316)
558-562 Supervisors, construction, n.e.c. (6311, 6318)

563-612 Construction Trades, Except Supervisors
563-564 Brickmasons and stonemasons (part 6412, part 6413)
564 Brickmason and stonemason apprentices (part 6412, part 6413)
565 Tile setters, hard and soft (part 6414, part 6462)
566 Carpet installers (part 6462)
567-572 Carpenters (part 6422)
569-572 Carpenter apprentices (part 6422)
573-574 Drywall installers (6424)
575-576 Electricians (part 6432)
576 Electrician apprentices (part 6432)
577-578 Electrical power installers and repairers (6433)
579-582 Painters, construction and maintenance (6442)
583 Paperhangers (6443)
584 Plasterers (6444)
585-587 Plumbers, pipefitters, and steamfitters (part 645)
587 Plumber, pipefitter, and steamfitter apprentices (part 645)
588 Concrete and terrazzo finishers (6463)
589-592 Glaziers (6464)
593 Insulation workers (6465)
594 Paving, surfacing, and tamping equipment operators (6466)
595 Roofers (6468)
596 Sheetmetal duct installers (6472)
597 Structural metal workers (6473)
598 Drillers, earth (6474)
599-612 Construction trades, n.e.c. (6467, 6475, 6476, 6479)

613-627 Extractive Occupations
613 Supervisors, extractive occupations (632)
614 Drillers, oil well (652)
615 Explosives workers (653)
616 Mining machine operators (654)
617-627 Mining occupations, n.e.c. (656)

628-702 Precision Production Occupations
628-633 Supervisors, production occupations (67, 71)
634-655 Precision Metal Working Occupations

503-702 **PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.**

634-635 Tool and die makers (part 6811)
635 Tool and die maker apprentices (part 6811)
636 Precision assemblers, metal (6812)
637-642 Machinists (part 6813)
639-642 Machinist apprentices (part 6813)
643 Boilermakers (6814)
644 Precision grinders, filers, and tool sharpeners (6816)
645 Patternmakers and model makers, metal (6817)
646 Lay-out workers (6821)
647-648 Precious stones and metals workers (Jewelers) (6822, 6866)
649-652 Engravers, metal (6823)
653-654 Sheet metal workers (part 6824)
654 Sheet metal worker apprentices (part 6824)
655 Miscellaneous precision metal workers (6829)
656-665 Precision Woodworking Occupations
656 Patternmakers and model makers, wood (6831)
657 Cabinet makers and bench carpenters (6832)
658 Furniture and wood finishers (6835)
659-665 Miscellaneous precision woodworkers (6839)
666-674 Precision Textile, Apparel, and Furnishings Machine Workers
666 Dressmakers (part 6852, part 7752)
667 Tailors (part 6852)
668 Upholsterers (6853)
669-673 Shoe repairers (6854)
674 Miscellaneous precision apparel and fabric workers (6856, 6859, part 7752)
675-685 Precision Workers, Assorted Materials
675 Hand molders and shapers, except jewelers (6861)
676 Patternmakers, lay-out workers, and cutters (6862)
677 Optical goods workers (6864, part 7477, part 7677)
678 Dental laboratory and medical appliance technicians (6865)
679-682 Bookbinders (6844)
683 Electrical and electronic equipment assemblers (6867)
684-685 Miscellaneous precision workers, n.e.c. (6869)
686-688 Precision Food Production Occupations
686 Butchers and meat cutters (6871)
687 Bakers (6872)
688 Food batchmakers (6873, 6879)
689-693 Precision Inspectors, Testers, and Related Workers
689-692 Inspectors, testers, and graders (6881, 828)
693 Adjusters and calibrators (6882)
694-702 Plant and System Operators
694 Water and sewage treatment plant operators (691)
695 Power plant operators (part 693)
696-698 Stationary engineers (part 693, 7668)
699-702 Miscellaneous plant and system operators (692, 694, 695, 696)

703-902 **OPERATORS, FABRICATORS, AND LABORERS**

703-802 Machine Operators, Assemblers, and Inspectors

703-782 Machine Operators and Tenders, Except Precision

703-716 Metal Working and Plastic Working Machine Operators
703 Lathe and turning machine set-up operators (7312)
704 Lathe and turning machine operators (7512)
705 Milling and planing machine operators (7313, 7513)
706 Punching and stamping press machine operators (7314, 7317, 7514, 7517)

707	Rolling machine operators (7316, 7516)
708	Drilling and boring machine operators (7318, 7518)
709-712	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713	Forging machine operators (7319, 7519)
714	Numerical control machine operators (7326)
715-716	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
717-718	Fabricating machine operators, n.e.c. (7339, 7539)
719-725	Metal and Plastic Processing Machine Operators
719-722	Molding and casting machine operators (7315, 7342, 7515, 7542)
723	Metal plating machine operators (7343, 7543)
724	Heat treating equipment operators (7344, 7544)
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)
726-733	Woodworking Machine Operators
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
727	Sawing machine operators (7433, 7633)
728	Shaping and joining machine operators (7435, 7635)
729-732	Nailing and tacking machine operators (7636)
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
734-737	Printing Machine Operators
734	Printing press operators (7443, 7643)
735	Photoengravers and lithographers (6842, 7444, 7644)
736	Typesetters and compositors (6841, 7642)
737	Miscellaneous printing machine operators (6849, 7449, 7649)
738-752	Textile, Apparel, and Furnishings Machine Operators
738	Winding and twisting machine operators (7451, 7651)
739-742	Knitting, looping, taping, and weaving machine operators (7452, 7652)
743	Textile cutting machine operators (7654)
744	Textile sewing machine operators (7655)
745-746	Shoe machine operators (7656)
747	Pressing machine operators (7657)
748	Laundering and dry cleaning machine operators (6855, 7658)
749-752	Miscellaneous textile machine operators (7459, 7659)
753-782	Machine Operators, Assorted Materials
753	Cementing and gluing machine operators (7661)
754	Packaging and filling machine operators (7462, 7662)
755	Extruding and forming machine operators (7463, 7663)
756	Mixing and blending machine operators (7664)
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
758	Compressing and compacting machine operators (7467, 7667)
759-762	Painting and paint spraying machine operators (7669)
763	Roasting and baking machine operators, food (7472, 7672)
764	Washing, cleaning, and pickling machine operators (7673)
765	Folding machine operators (7474, 7674)
766-767	Furnace, kiln, and oven operators, except food (7675)
768	Crushing and grinding machine operators (part 7477, part 7677)
769-772	Slicing and cutting machine operators (7478, 7678)
773	Motion picture projectionists (part 7479)
774-776	Photographic process machine operators (6863, 6868, 7671)
777-778	Miscellaneous machine operators, n.e.c. (part 7479, 7665, 7679)
779-782	Machine operators, not specified

783-795 Fabricators, Assemblers, and Hand Working Occupations
- 783 Welders and cutters (7332, 7532, 7714)
- 784 Solderers and brazers (7333, 7533, 7717)
- 785 Assemblers (772, 774)
- 786 Hand cutting and trimming occupations (7753)
- 787-788 Hand molding, casting, and forming occupations (7754, 7755)
- 789-792 Hand painting, coating, and decorating occupations (7756)
- 793-794 Hand engraving and printing occupations (7757)
- 795 Miscellaneous hand working occupations (7758, 7759)

796-802 Production Inspectors, Testers, Samplers, and Weighers
- 796 Production inspectors, checkers, and examiners (782, 787)
- 797 Production testers (783)
- 798 Production samplers and weighers (784)
- 799-802 Graders and sorters, except agricultural (785)

803-863 Transportation and Material Moving Occupations

803-822 Motor Vehicle Operators
- 803 Supervisors, motor vehicle operators (8111)
- 804-805 Truck drivers (8212-8214)
- 806-807 Driver-sales workers (8218)
- 808 Bus drivers (8215)
- 809-812 Taxicab drivers and chauffeurs (8216)
- 813 Parking lot attendants (874)
- 814-822 Motor transportation occupations, n.e.c. (8219)

823-842 Transportation Occupations, Except Motor Vehicles
- 823-827 Rail Transportation Occupations
  - 823 Railroad conductors and yardmasters (8113)
  - 824 Locomotive operating occupations (8232)
  - 825 Railroad brake, signal, and switch operators (8233)
  - 826-827 Rail vehicle operators, n.e.c. (8239)
- 828-842 Water Transportation Occupations
  - 828 Ship captains and mates, except fishing boats (part 8241, 8242)
  - 829-832 Sailors and deckhands (8243)
  - 833 Marine engineers (8244)
  - 834-842 Bridge, lock, and lighthouse tenders (8245)

843-863 Material Moving Equipment Operators
- 843 Supervisors, material moving equipment operators (812)
- 844 Operating engineers (8312)
- 845-847 Longshore equipment operators (8313)
- 848 Hoist and winch operators (8314)
- 849-852 Crane and tower operators (8315)
- 853-854 Excavating and loading machine operators (8316)
- 855 Grader, dozer, and scraper operators (8317)
- 856-858 Industrial truck and tractor equipment operators (8318)
- 859-863 Miscellaneous material moving equipment operators (8319)

864-902 Handlers, Equipment Cleaners, Helpers, and Laborers

- 864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
- 865 Helpers, mechanics, and repairers (863)
- 866-868 Helpers, Construction, and Extractive Occupations
  - 866 Helpers, construction trades (8641-8645, 8648)
  - 867 Helpers, surveyor (8646)

703-902	**OPERATORS, FABRICATORS, AND LABORERS**—Con.
868	Helpers, extractive occupations (865)
869-873	Construction laborers (871)
874	Production helpers (861, 862)
875-884	Freight, Stock, and Material Handlers
875	Garbage collectors (8722)
876	Stevedores (8723)
877	Stock handlers and baggers (8724)
878-882	Machine feeders and offbearers (8725)
883-884	Freight, stock, and material handlers, n.e.c. (8726)
885-886	Garage and service station related occupations (873)
887	Vehicle washers and equipment cleaners (875)
888	Hand packers and packagers (8761)
889-902	Laborers, except construction (8769)
903-908	**MILITARY OCCUPATIONS (Includes only uniquely military occupations. Other Armed Forces members are coded to civilian occupations.)**
903	Commissioned officers and warrant officers
904	Non-commissioned officers and other enlisted personnel
905-908	Military occupation, rank not specified
909-999	**EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION**
909-999	Unemployed, last worked 1984 or earlier

PLACE OF BIRTH

This section contains the code list for place of birth. An alphabetical list of U.S. States and territories, foreign countries, and other areas was used to assign a three-digit code to the birthplace reported by each person. The alphabetical list used in coding included abbreviations and alternate names, including some historical names for countries and names of States, provinces, counties, or other subdivisions of countries.

The following list does not include any of these alternate names, but does include continent and area names used as defaults if a specific country was not named but a broader region or area of birth was reported. The names for foreign countries shown on this list and in the publications reflect the most commonly used names in this country, not their official or legal names. Each entry shown on the following list has a unique code.

The U.S. States and territories were assigned their Federal Information Processing Standards (FIPS) code preceded by a zero. For foreign countries, codes were generally assigned by listing the countries or areas in alphabetical order (followed by default codes) within eight broad continent or regional areas: (1) Europe, (2) Asia, (3) North America, (4) Central America, (5) Caribbean, (6) South America, (7) Africa, and (8) Oceania. The entries for the USSR and the Baltic States are listed following the other entries for Europe for convenience in combining with either Europe or Asia. The entries for Germany also do not follow strict alphabetical order; codes 110-114 can be combined to tabulate an overall figure including Germany (not specified), East Germany, West Germany, and Berlin. The entries for the United Kingdom also do not follow strict alphabetical order; codes 138-145 can be combined to tabulate an overall figure including United Kingdom (not specified), England, Scotland, Wales, Northern Ireland, Guernsey, Jersey, and the Isle of Man. The codes for Asia also include a code for Korea (not specified) since it is often reported in that fashion.

001-059	**United States**
001	Alabama
002-003	Alaska
004	Arizona
005	Arkansas
006-007	California
008	Colorado
009	Connecticut
010	Delaware
011	District of Columbia
012	Florida
013-014	Georgia
015	Hawaii
016	Idaho
017	Illinois
018	Indiana
019	Iowa
020	Kansas
021	Kentucky
022	Louisiana
023	Maine
024	Maryland
025	Massachusetts
026	Michigan
027	Minnesota
028	Mississippi
029	Missouri
030	Montana
031	Nebraska
032	Nevada
033	New Hampshire
034	New Jersey
035	New Mexico
036	New York
037	North Carolina
038	North Dakota
039	Ohio
040	Oklahoma

001-059	**United States**—Con.
041	Oregon
042-043	Pennsylvania
044	Rhode Island
045	South Carolina
046	South Dakota
047	Tennessee
048	Texas
049	Utah
050	Vermont
051-052	Virginia
053	Washington
054	West Virginia
055	Wisconsin
056-059	Wyoming

060-099	**U.S. Outlying Areas and Puerto Rico**
060-065	American Samoa
066	Guam
067-068	Johnston Atoll
069-070	Northern Mariana Islands
071	Midway Islands
072-075	Puerto Rico
076-077	Navassa Island
078	U.S. Virgin Islands
079-080	Wake Island
081-083	Baker Island
084-085	Howland Island
086-088	Jarvis Island
089-094	Kingman Reef
095	Palmyra Atoll
096-099	U.S. territory, not specified

100-199	**Europe**
100	Albania
101	Andorra

100-199	Europe—Con.
102	Austria
103	Belgium
104	Bulgaria
105	Czechoslovakia
106	Denmark
107	Faroe Islands
108	Finland
109	France
110	Germany, not specified
111	West Germany
112	West Berlin
113	East Berlin
114	East Germany
115	Gibraltar
116	Greece
117	Hungary
118	Iceland
119	Ireland
120	Italy
121	Jan Mayen
122	Liechtenstein
123	Luxembourg
124	Malta
125	Monaco
126	Netherlands
127	Norway
128	Poland
129	Portugal
130	Azores Islands
131	Madeira Islands
132	Romania
133	San Marino
134	Spain
135	Svalbard
136	Sweden
137	Switzerland
138	United Kingdom, not specified
139	England
140	Scotland
141	Wales
142	Northern Ireland
143	Guernsey
144	Jersey
145	Isle of Man
146	Vatican City
147	Yugoslavia
148	Europe, not specified
149	Central Europe, not specified
150	Eastern Europe, not specified
151	Lapland, not specified
152	Northern Europe, not specified
153	Southern Europe, not specified
154-179	Western Europe, not specified
180	Union of Soviet Socialist Republics (USSR)
181	Baltic States, not specified

100-199	Europe—Con.
182	Estonia
183	Latvia
184-199	Lithuania

200-299	Asia
200	Afghanistan
201	Bahrain
202	Bangladesh
203	Bhutan
204	Brunei
205	Burma
206	Cambodia
207	China
208	Cyprus
209	Hong Kong
210	India
211	Indonesia
212	Iran
213	Iraq
214	Israel
215	Japan
216	Jordan
217	Korea, not specified
218	South Korea
219	North Korea
220	Kuwait
221	Laos
222	Lebanon
223	Macau
224	Malaysia
225	Maldives
226	Mongolia
227	Nepal
228	Oman
229	Pakistan
230	Paracel Islands
231	Philippines
232	Qatar
233	Saudi Arabia
234	Singapore
235	Spratley Islands
236	Sri Lanka
237	Syria
238	Taiwan
239	Thailand
240	Turkey
241	United Arab Emirates
242	Vietnam
243	Yemen, People's Democratic Republic
244	Yemen Arab Republic
245	Asia, not specified
246	Asia Minor, not specified
247	East Asia, not specified
248	Gaza Strip
249	Indochina, not specified

200-299	**Asia**—Con.
250	Iraq-Saudi Arabia Neutral Zone
251	Mesopotamia, not specified
252	Middle East, not specified
253	Palestine, not specified
254	Persian Gulf States, not specified
255	Southeast Asia, not specified
256-299	West Bank
300-399	**America**
300-309	**North America**
300	Bermuda
301	Canada
302	Greenland
303	St. Pierre and Miquelon
304-309	North America, not specified
310-329	**Central America**
310	Belize
311	Costa Rica
312	El Salvador
313	Guatemala
314	Honduras
315	Mexico
316	Nicaragua
317	Panama
318-329	Central America, not specified
330-374	**Caribbean**
330	Anguilla
331	Antigua and Barbuda
332	Aruba
333	Bahamas
334	Barbados
335	British Virgin Islands
336	Cayman Islands
337	Cuba
338	Dominica
339	Dominican Republic
340	Grenada
341	Guadeloupe
342	Haiti
343	Jamaica
344	Martinique
345	Montserrat
346	Netherlands Antilles
347	St. Barthelemy
348	St. Kitts-Nevis
349	St. Lucia
350	St. Vincent and the Grenadines
351	Trinidad and Tobago
352	Turks and Caicos Islands
353	Caribbean, not specified
354	Antilles, not specified
355	British West Indies, not specified

330-374	**Caribbean**—Con.
356	Latin America, not specified
357	Leeward Islands, not specified
358	West Indies, not specified
359-374	Windward Islands, not specified
375-399	**South America**
375	Argentina
376	Bolivia
377	Brazil
378	Chile
379	Colombia
380	Ecuador
381	Falkland Islands
382	French Guiana
383	Guyana
384	Paraguay
385	Peru
386	Suriname
387	Uruguay
388	Venezuela
389-399	South America, not specified
400-499	**Africa**
400	Algeria
401	Angola
402	Bassas da India
403	Benin
404	Botswana
405	British Indian Ocean Territory
406	Burkina Faso
407	Burundi
408	Cameroon
409	Cape Verde
410	Central African Republic
411	Chad
412	Comoros
413	Congo
414	Djibouti
415	Egypt
416	Equatorial Guinea
417	Ethiopia
418	Europa Island
419	Gabon
420	Gambia
421	Ghana
422	Glorioso Islands
423	Guinea
424	Guinea-Bissau
425	Ivory Coast
426	Juan de Nova Island
427	Kenya
428	Lesotho
429	Liberia
430	Libya
431	Madagascar

400-499	Africa—Con.
432	Malawi
433	Mali
434	Mauritania
435	Mayotte
436	Morocco
437	Mozambique
438	Namibia
439	Niger
440	Nigeria
441	Reunion
442	Rwanda
443	Sao Tome and Principe
444	Senegal
445	Mauritius
446	Seychelles
447	Sierra Leone
448	Somalia
449	South Africa
450	St. Helena
451	Sudan
452	Swaziland
453	Tanzania
454	Togo
455	Tromelin Island
456	Tunisia
457	Uganda
458	Western Sahara
459	Zaire
460	Zambia
461	Zimbabwe
462	Africa, not specified
463	Central Africa, not specified
464	Eastern Africa, not specified
465	Equatorial Africa, not specified
466	French Equatorial Africa, not specified
467	French West Africa, not specified
468	North Africa, not specified
469	Western Africa, not specified
470-499	Southern Africa, not specified

500-553	Oceania
500	Ashmore and Cartier Islands
501	Australia
502	Christmas Island, Indian Ocean
503	Clipperton Island
504	Cocos Islands
505	Cook Islands
506	Coral Sea Islands
507	Fiji
508	French Polynesia
509	Kiribati
510	Marshall Islands
511	Micronesia
512	Nauru
513	New Caledonia
514	New Zealand
515	Niue
516	Norfolk Island
517	Palau
518	Papua New Guinea
519	Pitcairn Islands
520	Solomon Islands
521	Tokelau
522	Tonga
523	Tuvalu
524	Vanuatu
525	Wallis and Futuna Islands
526	Western Samoa
527	Oceania, not specified
528	Polynesia, not specified
529-549	Melanesia, not specified
550	Antarctica
551	Bouvet Island
552	French Southern and Antarctic Lands
553	Heard and McDonald Islands

554-999	At Sea/Abroad, Not Specified
554	At sea
555-999	Abroad, not specified

RACE

This section contains the alphabetical code list for race and American Indian tribes. The list of race groups and American Indian tribes with their associated 3-digit numerical code was used to code the Asian or Pacific Islander, American Indian, Eskimo, or Aleut, and the Other race write-in entries. A separate set of 3-digit numerical codes were used to identify FOSDIC circles for the race categories listed in the race item on the questionnaire. These codes and their respective race categories are: White-971, Black or Negro-972, Indian (Amer.)-973, Eskimo-974, Aleut-975, Chinese-976, Filipino-977, Hawaiian-978, Korean-979, Vietnamese-980, Japanese-981, Asian Indian-982, Samoan-983, Guamanian-984, Other Asian or Pacific Islander-985, and Other race-986.

000-599, 973	American Indian
000-001	Ahtna
002	Biorka
003	Reserve American Indian 1
004-005	Bristol Bay
006	Chaneliak
007	Chugach
008	Tanaina
009	Doyon
010	Kodiak
011	Reserve American Indian 2
012	Sealaska
013	Umpqua
014	Alaskan Athabaskan
015	Alaska Native
016	Haida
017	Tlingit
018	Tsimshian
019	Alaska Indian
020	Chehalis
021	Chemakum
022	Klallam
023	Jamestown
024	Lower Elwha
025	Port Gamble Klallam
026	Coquilles
027	Cowlitz
028	Lummi
029	Nooksack
030	Puget Sound Salish
031	Duwamish
032	Kikiallus
033	Lower Skagit
034	Muckleshoot
035	Nisqually
036	Puyallup
037	Samish
038	Sauk-Suiattle
039	Upper Skagit
040	Skykomish
041	Snohomish
042	Snoqualmie
043	Squaxin Island
044	Steilacoom
045	Stillaguamish
046	Suquamish
047	Swinomish
048	Tulalip

000-599, 973	American Indian—Con.
049	Port Madison
050	Quinault
051	Quileute
052	Hoh
053	Makah
054	Talakamish
055	Chinook
056	Clatsop
057	Kathlamet
058	Columbia River Chinook
059	Upper Chinook
060	Wakiakum Chinook
061	Willapa Chinook
062	Alsea
063	Cayuse
064	Celilo
065	Coos
066	Kalapuya
067	Klamath
068	Molala
069	Oregon Athabaskan
070	Siuslaw
071	Takelma
072	Tenino
073	Tillamook
074	Tygh
075	Umatilla
076	Walla-Walla
077	Yahooskin
078	Yakima
079	Skokomish
080	Agua Caliente Cahuilla
081	Augustine
082	Cabazon
083	Cahto
084	Cahuilla
085	Campo
086	Capitan Grande
087	Chemehuevi
088	Chimariko
089	Chumash
090	Costanoan
091	Cupeno
092	Cuyapaipe
093	Diegueno
094	Digger
095	Gabrieleno

096	Hoopa
097	Inaja Cosmit
098	Karok
099	Kawaiisu
100	La Jolla
101	Lassik
102	La Posta
103	Luiseno
104	Maidu
105	Manzanita
106	Mesa Grande
107	Mountain Maidu
108	Nishinam
109	Konkow
110	Mattole
111	Miwok
112	Coast Miwok
113	Modoc
114	Mono
115	Nomalaki
116	Pala
117	Pechanga
118	Pauma
119	Pit River
120	Pomo
121	Dry Creek
122	Northern Pomo
123	Kashaya
124	Central Pomo
125	Stonyford
126	Eastern Pomo
127	Sulphur Bank
128	Salinan
129	San Manual
130	San Pascual
131	Santa Rosa Cahuilla
132	Santa Ynez
133	Santa Ysabel
134	Serrano
135	Shasta
136	Soboba
137	Sycuan
138	Tolowa
139	Torres-Martinez
140	Kern River
141	Tule River
142	Twenty-Nine Palms
143	Wailaki
144	Wappo
145	Whilkut
146	Wintu
147	Wiyot
148	Yana
149	Yokuts
150	Tachi
151	Chukchansi

000-599, 973 American Indian—Con.

152	Yuki
153	Yurok
154	Reserve American Indian 3
155	Columbia
156	Kalispel
157	Salish
158	Coeur D'Alene
159	Colville
160	Spokane
161	Nez Perce
162	Washo
163	Alpine
164	Carson
165	Dresslerville
166	Stewart
167	Wishram
168	Hoopa Extension
169	Trinity
170	Ute
171	Allen Canyon
172	Uintah Ute
173	Ute Mountain Ute
174	Shoshone Paiute
175	Paiute
176	Northern Paiute
177	Cedarville
178	Pyramid Lake
179	Fort Bidwell
180	Las Vegas
181	Lovelock
182	Utu Utu Gwaitu Paiute
183	Fort Independence
184	Bridgeport
185	Burns Paiute
186	Yerington Paiute
187	Walker River
188	Southern Paiute
189	Kaibab
190	Moapa
191	Owens Valley
192	Summit Lake
193	Aroostook
194	Reserve American Indian 5
195	Shoshone
196	Battle Mountain
197	Duck Water
198	Elko
199	Ely
200	Goshute
201	Panamint
202	Ruby Valley
203	South Fork Shoshone
204	Washakie
205	Yomba
206	Te-Moak Western Shoshone
207	Bannock

208	Kootenai
209-210	Havasupai
211	Hualapai
212	Yavapai
213	Maricopa
214	Quechan
215	Cocopah
216	Mohave
217	Pima
218	Tohono O'Odham
219	Gila Bend
220	Ak-Chin
221	San Xavier
222	Sells
223	Yaqui
224	Pascua Yaqui
225	Barrio Libre
226	Mississippi Choctaw
227	Reserve American Indian 6
228	Jena Choctaw
229	Pueblo
230	Tigua
231	Taos
232	Picuris
233	Sandia
234	Isleta
235	Keres
236	Acoma
237	Cochiti
238	Laguna
239	San Felipe
240	Santa Ana
241	Santo Domingo
242	Zia
243	Tewa
244	Nambe
245	Pojoaque
246	San Ildefonso
247	San Juan Pueblo
248	Santa Clara
249	Tesuque
250	Arizona Tewa
251	Jemez
252	Hopi
253	Zuni
254	San Juan de
255	Apache
256	Oklahoma Apache
257	Jicarilla Apache
258	Lipan Apache
259	Mescalero Apache
260	Chiricahua
261	Fort Sill Apache
262	San Carlos Apache
263	Payson Apache
264	White Mountain Apache

000-599, 973 American Indian—Con.

265	Reserve American Indian 7
266	Reserve American Indian 8
267	Reserve American Indian 9
268	Reserve American Indian 10
269	Reserve American Indian 11
270	Reserve American Indian 12
271	Reserve American Indian 13
272	Reserve American Indian 14
273	Reserve American Indian 15
274	Reserve American Indian 16
275	Navajo
276	Kiowa
277	Tonkawa
278	Oklahoma Caddo
279	Arikara
280	Oklahoma Pawnee
281	Wichita
282	Sioux
283	Cheyenne River Sioux
284	Crow Creek Sioux
285	Devils Lake Sioux
286	Flandreau Santee
287	Fort Peck
288	Standing Rock Sioux
289	Lake Traverse Sioux
290	Lower Sioux
291	Pine Ridge Sioux
292	Pipestone Sioux
293	Prairie Island Sioux
294	Prior Lake
295	Rosebud Sioux
296	Upper Sioux
297	Sisseton-Wahpeton Sioux
298	Teton Sioux
299	Brule Sioux
300	Lower Brule Sioux
301	Sans Arc Sioux
302	Two Kettle Sioux
303	Blackfoot Sioux
304	Oglala Sioux
305	Miniconjou
306	Yanktonai Sioux
307	Yankton Sioux
308	Santee Sioux
309	Sisseton Sioux
310	Mdewakanton Sioux
311	Wahpekute Sioux
312	Wahpeton Sioux
313	Assiniboine
314	Iowa
315	Otoe-Missouria
316	Winnebago
317	Kaw
318	Omaha
319	Ponca
320	Osage

321	Quapaw
322	Crow
323	Hidatsa
324	Mandan
325	Comanche
326	Dakota Sioux
327	Wazhaza Sioux
328	Nebraska Winnebago
329	Wisconsin Winnebago
330	Chippewa
331	Bay Mills Chippewa
332	Sault Ste. Marie Chippewa
333	Saginaw Chippewa
334	Keweenaw
335	Lac Vieux Desert Chippewa
336	Ontonagon
337	Leelanau
338	Minnesota Chippewa
339	Boise Forte
340	Grand Portage
341	Fond Du Lac
342	Leech Lake
343	Mille Lac
344	White Earth
345	Red Lake Chippewa
346	Lake Superior
347	Bad River
348	Lac Courte Oreilles
349	Lac Du Flambeau
350	Red Cliff Chippewa
351	St. Croix Chippewa
352	Sokoagon Chippewa
353	Turtle Mountain
354	Rocky Boy's Cree
355	Burt Lake Chippewa
356	Burt Lake Band
357	Reserve American Indian 19
358	Reserve American Indian 20
359	Burt Lake Ottawa
360	Blackfoot
361	Cheyenne
362	Northern Cheyenne
363	Southern Cheyenne
364	Arapaho
365	Atsina
366	Menominee
367	Potawatomie
368	Citizen Band Potawatomi
369	Forest County
370	Hannahville
371	Huron Potawatomi
372	Pogagon Potawatomi
373	Prairie Band
374	Wisconsin Potawatomi
375	Ottawa
376	Miami

000-599, 973 American Indian—Con.

377	Sac and Fox
378	Peoria
379	Sac and Fox-Mesquakie
380	Kickapoo
381	Shawnee
382	Algonquian
383	Micmac
384	Mailseet
385	Passamaquoddy
386	Pleasant Point Passamaquoddy
387	Indian Township
388	Penobscot
389	Abenaki
390	Wampanoag
391	Nipmuc
392	Narragansett
393	Pequot
394	Mohegan
395	Paugussett
396	Schaghticoke
397	Brotherton
398	Shinnecock
399	Stockbridge
400	Munsee
401	Delaware
402	Sand Hill
403	Absentee Shawnee
404	Clifton Choctaw
405	Iroquois
406	Seneca
407	Seneca Nation
408	Tonawanda Seneca
409	Seneca-Cayuga
410	Cayuga
411	Onondaga
412	Oneida
413	Mohawk
414	Tuscarora
415	Wyandotte
416	Cherokee
417	Eastern Cherokee
418	Western Cherokee
419	Etowah Cherokee
420	United Keetoowah Band
421	Tuscola
422	Northern Cherokee
423	Eastern Muskogee
424	Agua Caliente
425	Creek
426	Thlopthlocco
427	Yuchi
428	Hitchiti
429	Eastern Creek
430	Principal Creek Indian Nation
431	Poarch Band
432	Lower Muskogee

433	Alabama Coushatta
434	Choctaw
435	Houma
436	Chickasaw
437	Miccosukee
438	Seminole
439	Oklahoma Seminole
440	Florida Seminole
441	Big Cypress
442	Brighton
443	Hollywood Seminole
444	Natchez
445	Matinecock
446	Montauk
447	Poospatuck
448	Setauket
449	Tuckabachee
450	Nanticoke
451	Piscataway
452	Nansemond
453	Chickahominy
454	Pamunkey
455	Mattaponi
456	Rappahannock
457	Attacapa
458	Biloxi
459	Catawba
460	Chitimacha
461	Coharie
462	Croatan
463	Haliwa
464	Lumbee
465	Moor
466	Powhatan
467	Tunica
468	Wesort
469	Southeastern Indians
470	Cajun
471	Coushatta
472	Reserve American Indian 23
473	Reserve American Indian 24
474	Reserve American Indian 25
475	Reserve American Indian 26
476	Colorado River
477	Duck Valley
478	Fallon
479	Fort Belknap
480	Fort Berthold
481	Fort Hall
482	Fort McDermitt
483	Fort McDowell
484	Cow Creek Umpqua
485	Gila River
486	Grand Ronde
487	Los Coyotes
488	Mission Indians

000-599, 973 American Indian—Con.

489	Morongo
490	Reno-Sparks
491	Round Valley
492	Shoalwater
493	Siletz
494	Skull Valley
495	Susanville
496	Table Bluff
497	Wascopum
498	Wind River
499	Winnemucca
500	Yavapai Apache
501	Reserve American Indian 27
502	Gros Ventres
503	Scott Valley
504	Warm Springs
505	Santa Rosa
506	San Juan
507	Red Wood
508	Salish and Kootenai
509	Georgetown
510	Clear Lake
511	Yakima Cowlitz
512	Scotts Valley
513	Cheyenne-Arapaho
514	Northern Arapaho
515	Southern Arapaho
516	Mashpee Wampanoag
517	Gay Head Wampanoag
518	Timbi-Sha Shoshone
519	Juaneno
520	Oklahoma Choctaw
521	Oklahoma Modoc
522	Oklahoma Kiowa
523	Oklahoma Comanche
524	Oklahoma Iowa
525	Canadian Indian
526	Oklahoma Ponca
527	Oklahoma Ottawa
528	Oklahoma Miami
529	Oklahoma Peoria
530	Oklahoma Sac and Fox
531	Oklahoma Kickapoo
532	Oklahoma Delaware
533	Caddo
534	Pawnee
535	Michigan Ottawa
536	Indiana Miami
537	Missouri Sac and Fox
538	Eastern Shawnee
539	Cherokee Shawnee
540	Kialegee
541	Alabama Quassarte
542	Malheur Paiute
543	Wenatchee
544	Little Shell Chippewa

000-599, 973 American Indian—Con.

545	Illinois
546	Rampough Mountain
547	Lenni-Lenape
548	Amerind White
549	Amerind Black
550	Mexican American Indian
551	Central American Indian
552	South American Indian
553	French American Indian
554	Spanish American Indian
555	Cherokees of Southeast Alabama
556	Cherokees of Northeast Alabama
557	Echota Cherokee
558	MaChis Lower Creek Indian
559	MOWA Band of Choctaw
560	Star Clan of Muskogee Creeks
561	Eastern Delaware
562	Cherokee Alabama
563	Reserve American Indian 36
564	Reserve American Indian 37
565	Mexican Indian Cherokee
566	Eastern Chickahominy
567	Western Chickahominy
568	Waccamaw-Siouan
569	Nausu Waiwash
570	Pocomoke Acohonock
571	Susquehanock
572	Wicomico
573	Piro
574	Illinois Miami
575	Tunica Biloxi
576-597	American Indian
598	Tribal response, not elsewhere classified
599	Reserve American Indian 38
973	American Indian (FOSDIC circle)

600-699, 976-985 Asian or Pacific Islander

600-652, 976, 977, 979-982, 985 Asian

600	Asian Indian
601	Bangladeshi
602	Bhutanese
603	Burmese
604	Cambodian (Kampuchean)
605	Chinese
606	Taiwanese
607	Formosan
608	Filipino
609	Hmong
610	Indonesian
611	Japanese
612	Korean
613	Laotian
614	Malayan
615	Okinawan
616	Pakistani

600-652, 976, 977, 979-982, 985 Asian—Con.

617	Sri Lankan
618	Thai
619	Vietnamese
620	Amerasian
621	Asian
622	Asiatic
623	Eurasian
624	Mongolian
625	Oriental
626	Whello
627	Yellow
628	Borneo
629	Celebesian
630	Ceram
631	Indo-Chinese
632	Iwo Jiman
633	Javanese
634	Maldivian
635	Nepali
636	Sikkim
637	Singaporean
638	Sumatran
639	Madagascar
640	Reserve Asian 2
641	Reserve Asian 3
642	Reserve Asian 4
643	Reserve Asian 5
644	Reserve Asian 6
645	Reserve Asian 7
646	Reserve Asian 8
647	Reserve Asian 9
648	Reserve Asian 10
649	Reserve Asian 11
650	Reserve Asian 12
651	Reserve Asian 13
652	Reserve Asian 14
976	Chinese (FOSDIC circle)
977	Filipino (FOSDIC circle)
979	Korean (FOSDIC circle)
980	Vietnamese (FOSDIC circle)
981	Japanese (FOSDIC circle)
982	Asian Indian (FOSDIC circle)
985	Other Asian or Pacific Islander (FOSDIC circle)

653-699, 978, 983, 984 Pacific Islander

653-659, 978, 983 Polynesian

653	Hawaiian
654	Part Hawaiian
655	Samoan
656	Tahitian
657	Tongan
658	Polynesian
659	Tokelauan
978	Hawaiian (FOSDIC circle)
983	Samoan (FOSDIC circle)

660-675, 984 Micronesian

660	Guamanian
661	Mariana Islander
662	Marshallese
663	Palauan
664	Bikinian
665	Carolinian
666	Eniwetok
667	Kosraean
668	Kwajalein
669	Micronesian
670	Ponapean (Pohnpeian)
671	Saipanese
672	Tarawa Islander
673	Tinian
674	Trukese (Chuukese)
675	Yapese
984	Guamanian (FOSDIC circle)

676-680 Melanesian

676	Fijian
677	Melanesian
678	Papua New Guinean
679	Solomon Islander
680	New Hebrides

681-699 Other Pacific Islander

681	Pacific Islander
682	Reserve Pacific Islander 1
683	Reserve Pacific Islander 2
684	Reserve Pacific Islander 3
685	Reserve Pacific Islander 4
686	Reserve Pacific Islander 5
687	Reserve Pacific Islander 6
688	Reserve Pacific Islander 7
689	Reserve Pacific Islander 8
690	Reserve Pacific Islander 9
691	Reserve Pacific Islander 10
692	Reserve Pacific Islander 11
693	Reserve Pacific Islander 12
694	Reserve Pacific Islander 13
695	Reserve Pacific Islander 14
696	Asian or Pacific Islander
697	Reserve Asian or Pacific Islander 1
698	Reserve Asian or Pacific Islander 2
699	Reserve Asian or Pacific Islander 3

700-799, 986, 987-999 Other Race

700-748 Hispanic Origin

700	Argentinian
701	Bolivian
702	Boricua
703	Californio
704	Central American
705	Chicano
706	Chilean
707	Colombian

700-748 Hispanic Origin—Con.

708	Costa Rican
709	Cuban
710	Dominican
711	Ecuatorian (Ecuadorian)
712	Salvadoran
713-714	Galapagos
715	Guajiro
716	Guatemalan
717	Hispanic
718	Honduran
719	La Raza
720	Latin American
721	Mestizo
722	Mexican
723	Nicaraguan
724	Panamanian
725	Paraguayo
726	Peruvian
727	Puerto Rican
728	Morena
729	South American
730	Spanish
731	Spanish-American
732	Spanish-Mexican
733	Sudamericano
734	Uruguayan
735	Venezuelan
736	Reserve Hispanic 2
737	Reserve Hispanic 3
738	Reserve Hispanic 4
739	Reserve Hispanic 5
740	Reserve Hispanic 6
741	Reserve Hispanic 7
742	Reserve Hispanic 8
743	Reserve Hispanic 9
744	Reserve Hispanic 10
745	Reserve Hispanic 11
746	Reserve Hispanic 12
747	Reserve Hispanic 13
748	Reserve Hispanic 14

749-799, 986, 987-999 Not of Hispanic Origin

749-750	Brava
751	Brazil
752	Brown
753	Bushwacker
754	Cajun
755	Cape Verdean
756	Chocolate
757	Coe Clan
758	Coffee
759	Cosmopolitan
760	Issues
761	Jackson White
762	Lapp
763	Melungeon

749-799, 986, 987-999 Not of Hispanic Origin—Con.

764	Mixed
765	Ramp
766	Tunica
767	Wesort
768	Mulatto
769	Moor
770	Biracial/Interracial
771	Creole
772	Indian
773	Turk
774	Half-Breed
775	Rainbow
776	Octoroon
777	Quadroon
778	Reserve Non-Hispanic 3
779	Reserve Non-Hispanic 4
780	Reserve Non-Hispanic 5
781	Reserve Non-Hispanic 6
782	Reserve Non-Hispanic 7
783	Reserve Non-Hispanic 8
784	Reserve Non-Hispanic 9
785	Reserve Non-Hispanic 10
786	Reserve Non-Hispanic 11
787	Reserve Non-Hispanic 12
788	Reserve Non-Hispanic 13
789	Reserve Non-Hispanic 14
790	Reserve Non-Hispanic 15
791	Reserve Non-Hispanic 16
792	Reserve Non-Hispanic 17
793	Reserve Non-Hispanic 18
794	Reserve Non-Hispanic 19
795	Reserve Non-Hispanic 20
796	Reserve Non-Hispanic 21
797	Reserve Non-Hispanic 22
798	Trinidad
799	Other race, not elsewhere classified
986	Other race (FOSDIC circle)
987-999	Reserve Other race

800-869, 971 White

800	White
801	Arab
802	English
803	French
804	German
805	Irish
806	Italian
807	Near Easterner
808	Polish
809	Scottish
810	White and Black
811	White Amerind
812	White Chinese
813	White Formosan/Taiwanese
814	White Filipino

800-869, 971 White—Con.

815	White Hawaiian
816	White Korean
817	White Vietnamese
818	White Japanese
819	White Asian Indian
820	White Samoan
821	White Guamanian
822	White Bangladeshi
823	White Burmese
824	White Cambodian (Kampuchean)
825	White Hmong
826	White Indonesian
827	White Laotian
828	White Malayan
829	White Okinawan
830	White Pakistani
831	White Sri Lankan
832	White Thai
833	White Fijian
834	White Palauan
835	White Tahitian
836	White Tongan
837	White Other Asian or Pacific Islander
838	White Eskimo
839	White Aleut
840	Reserve White 3
841	Reserve White 4
842	Reserve White 5
843	Reserve White 6
844	Reserve White 7
845	Reserve White 8
846	Reserve White 9
847	Reserve White 10
848	Reserve White 11
849	Reserve White 12
850	Reserve White 13
851	Reserve White 14
852	Reserve White 15
853	Reserve White 16
854	Reserve White 17
855	Reserve White 18
856	Reserve White 19
857	Reserve White 20
858	Reserve White 21
859	Reserve White 22
860	Reserve White 23
861	Reserve White 24
862	Reserve White 25
863	Reserve White 26
864	Reserve White 27
865	Reserve White 28
866	Reserve White 29
867	Reserve White 30
868	Reserve White 31
869	White Cherokee
971	White (FOSDIC circle)

870-934, 972 Black or Negro

870	Black
871	African
872	African American
873	Afro-American
874	Nigritian
875	Black and White
876	Black Amerind
877	Black Chinese
878	Black Formosan/Taiwanese
879	Black Filipino
880	Black Hawaiian
881	Black Korean
882	Black Vietnamese
883	Black Japanese
884	Black Asian Indian
885	Black Samoan
886	Black Guamanian
887	Black Bangladeshi
888	Black Burmese
889	Black Cambodian (Kampuchean)
890	Black Hmong
891	Black Indonesian
892	Black Laotian
893	Black Malayan
894	Black Okinawan
895	Black Pakistani
896	Black Sri Lankan
897	Black Thai
898	Black Fijian
899	Black Palauan
900	Black Tahitian
901	Black Tongan
902	Black Other Asian or Pacific Islander
903	Black Eskimo
904	Black Aleut
905	Reserve Black 3
906	Reserve Black 4
907	Reserve Black 5
908	Reserve Black 6
909	Reserve Black 7
910	Reserve Black 8
911	Reserve Black 9
912	Reserve Black 10
913	Reserve Black 11
914	Reserve Black 12
915	Reserve Black 13
916	Reserve Black 14
917	Reserve Black 15
918	Reserve Black 16
919	Reserve Black 17
920	Reserve Black 18
921	Reserve Black 19
922	Reserve Black 20
923	Reserve Black 21

870-934, 972 Black or Negro—Con.

924	Reserve Black 22
925	Reserve Black 23
926	Reserve Black 24
927	Reserve Black 25
928	Reserve Black 26
929	Reserve Black 27
930	Reserve Black 28
931	Reserve Black 29
932	Reserve Black 30
933	Reserve Black 31
934	Black Cherokee
972	Black or Negro (FOSDIC circle)

935-940, 974 Eskimo

935	Eskimo
936	Reserve Eskimo 1
937	Reserve Eskimo 2
938	Reserve Eskimo 3
939	Reserve Eskimo 4
940	Wales
974	Eskimo (FOSDIC circle)

941-970, 975 Aleut

941	Aleut
942	Reserve Aleut 1
943	Reserve Aleut 2
944	Reserve Aleut 3
945	Reserve Aleut 4
946-970	Reserve Aleut 5
975	Aleut (FOSDIC circle)

971-986 FOSDIC Circle Codes

971	See White
972	See Black or Negro
973	See American Indian
974	See Eskimo
975	See Aleut
976	See Asian
977	See Asian
978	See Pacific Islander
979	See Asian
980	See Asian
981	See Asian
982	See Asian
983	See Pacific Islander
984	See Pacific Islander
985	See Asian
986	See Other race

987-999 Reserve Other Race

APPENDIX I.
CD-ROM Technical Information[1]

CONTENTS

Equipment ---------- I-1
Software ---------- I-1
Converting to ASCII Files ---------- I-2
Directory and Index Information ---------- I-2
Technical Documentation ---------- I-2

EQUIPMENT

The two basic pieces of equipment needed to use CD-ROM's are a microcomputer and a CD-ROM drive. A printer is very useful but not essential. Your microcomputer should be equipped with at least 640K random access memory (RAM). While a hard disk is not required on your microcomputer, it is very useful.

SOFTWARE

Software is needed for accessing the CD-ROM as well as for accessing the data.

MS-DOS 3.3 or higher is needed as your operating system if you have a CD-ROM reader. You will also need DOS file manager software such as Microsoft's CD-ROM Extensions. CD-ROM extensions is a collection of programs that enables the microcomputer to communicate with the attached CD-ROM drives. You must have version 2.0 or higher of the Microsoft Extensions.

If you already have a CD-ROM drive, you may not know whether it is equipped with file manager software like the CD-ROM extensions. To find out, try signing on to your CD-ROM drive just as though it is a magnetic disk drive, and perform simple file management tasks, like listing the directory. (For example, from the DOS prompt, type the command DIR and the letter used to designate the CD-ROM drive followed by a colon [e.g., C>DIR L:] and press enter.) If you get an error message, it may mean that you need to obtain and install CD-ROM extensions.

CD-ROM Extensions

The CD-ROM is in the ISO 9660 format which requires the use of Microsoft CD-ROM Extensions Version 2.0 or higher. Although all versions of CD-ROM extensions work basically the same way, installation procedures may vary slightly from one supplier to another. Many versions contain a program that will automatically install the software for you, after you have answered a few questions about the type of equipment that you plan to use. *Be sure to follow the instructions for installing CD-ROM Extensions that are provided with the software.*

The first step, if you are installing extensions without the aid of an automatic set-up program, is usually installing the device driver program and MSCDEX.EXE on your bootable disk. For computers containing a hard drive, this usually means drive C. The name of the device driver program varies from one version of extensions to another; one common practice of software developers is to name it after the brand of CD-ROM drive that it supports, e.g., HITACHI.SYS. The device driver program and MSCDEX are frequently set up in separate subdirectories; however, this practice is not universal.

The next step is to add a line to the CONFIG.SYS file to identify the device driver program. This line typically looks something like this:

```
DEVICE=\path\driver name/D:\driver alias/N:#
For example:device=\dev\HITACHI.SYS/D:MSCD001/N:1
```

The driver name (e.g., HITACHI.SYS) and the driver alias should be provided by the set-up program or in the instructions that accompany the floppy disk containing the extensions software. The symbol # at the end of the line should be replaced with the number of CD-ROM drives (up to 4) that will be hooked up to the microcomputer.

The third step is to add a line to the AUTOEXEC.BAT file for running MSCDEX.EXE and assigning a letter to your CD-ROM drive. Depending on your system configuration you may opt to set up one or more batch files to accomplish the same purpose. If you add a line to the AUTOEXEC.BAT file, it will probably look something like this:

```
\path\MSCDEX.EXE/D:driver alias/M:8/L:L
For example: \BIN\MSCDEX.EXE/D:MSCD001/M:12/L:L
```

The driver alias, which is really the name that your system will use to identify the device driver, should be the same one that is named in your CONFIG.SYS file.

The number following M: is the number of memory buffers allocated (usually 8, but sometimes more). The last letter, following the L:, designates the letter assigned to the CD-ROM drive.

[1]Portions of this appendix are adapted from **Administrative Notes**, the Newsletter of the Federal Depository Library Program (May 22, 1989).

Though the final step is simple, it's also easy to overlook. You must reboot the system in order to activate the changes that you've made to your CONFIG.SYS and AUTOEXEC.BAT.

Once properly installed, the device behaves much like a read-only floppy diskette drive, and simple MS-DOS commands such as DIR are possible. If the computer reports that the CD-ROM is "not High Sierra," you must first upgrade your Microsoft CD-ROM Extensions software to version 2.0 or later.

Data Retrieval Software[2]

This CD-ROM contains data retrieval software. This software was developed and tested on a COMPAQ Deskpro 286 with 640K RAM operating under MS-DOS 3.31. The software was compiled with Clipper. There are no special display requirements. Please note that the retrieval software will only run on IBM-compatibles operating under MS-DOS.

The Census Bureau CD-ROM's containing 1990 census data (STF's 1 and 3) includes a simple "point and shoot" retrieval software. It has been nicknamed "GO." This menu-driven software is on the disc and requires no installation. The menus and tables are customized for the data on the disc.

The GO software is included on other Census products and is customized according to the data on the disc. The following is a description of the STF 3A GO software.

Using GO, you first select a specific level (e.g., State, county, place, census tract). Available features are displayed on a command bar, and most data can be accessed using the Return, PgUp/PgDn, and Up and Down arrow keys.

Every STF disc also contains a "general profile" feature that gives you the basic population and housing information for the geographic entities shown on the disc. This is helpful when you need just the basics.

Once you've identified the geographic entity you want, select specific data items. They generally are the same as the tables listed in the technical documentation.

Another helpful feature is the "Key-words" option. After choosing a specific geographic entity, you can specify key words (such as race or ancestry groups) by hitting the letter "K" on your computer's keyboard. This option gets you to specific tables more quickly.

GO also contains a "Glossary" option (hit the letter"G" on your keyboard). Note that this feature is available within data tables. Again, features are available when shown on the command bar. In the glossary, you will find definitions for geographic entities and other terms. Refer to appendix A and B (on the CD-ROM in the DOCUMENT directory), or the technical documentation for the complete text of definitions.

[2]Portions of this section are adapted from **Census and You**, November 1992, p.3.

GO's "Print" command allows you to print the tables you need. The "Copy File" command lets you copy files from the CD-ROM onto your computer's hard drive in three formats: ASCII flat/System Data Format (SDF), ASCII comma-delimited, and dBASE. CD-ROM's with issue dates of October 1992 and later have updated software which also provides the option for direct output to files in the WK1 spreadsheet format. This updated software also requires less memory than previous versions.

The data on the CD-ROM are in dBase III+™ format. Data in dBase III+ format are recognized by many software packages including dBase IV™, Foxbase™, Clipper™, Supercalc V™, Quattro Pro™, and VP-Planner™.

Users of other types of systems, such as the Apple Macintosh, have access to the files through support for ISO 9660 CD-ROM's.

CONVERTING TO ASCII FILES

Users without database management software who wish to convert the files to ASCII can follow the code found in the README file on the CD-ROM.

TECHNICAL DOCUMENTATION

The DOCUMENT directory on the CD-ROM contains sections of the Summary Tape File 3 technical documentation in a series of ASCII text files. These are as follows:

ROSTER_P.ASC	Roster Page
ACKNOW.ASC	Acknowledgments
CONTENTS.ASC	Contents
ABST_S3.ASC	Abstract
HOWTOUSE.ASC	How to Use the File
SUM_LEV.ASC	Summary Level Sequence Chart
SUB_LOC.1D	Subject Locator—STF 1D
LIST_TBL.1D	List of Tables—STF 1D
TBL_OUT.1D	Table Outlines—STF 1D
IDEN_FTN.1D	Identification Section of the Data Dictionary—STF 1D
TBL_MTX.1D	Table (Matrix) Section of the Data Dictionary—STF 1D
SUB_LOC.3D	Subject Locator—STF 3D
LIST_TBL.3D	List of Tables—STF 3D
TBL_OUT.3D	Table Outlines—STF 3D
IDEN_FTN.3D	Identification Section of the Data Dictionary—STF 3D
TBL_MTX.3D	Table (Matrix) Section of the Data Dictionary—STF 3D
USERNOTE.ASC	User Notes Explanation and Notes
APPEND_A.ASC	Appendix A —Area Classifications
APPEND_B.ASC	Appendix B— Subject Characteristics
APPEND_C.ASC	Appendix C —Accuracy of the Data
APPEND_D.ASC	Appendix D— Procedures
APPEND_E.ASC	Appendix E —Facsimiles of Instructions
APPEND_F.ASC	Appendix F —Data Products and User Assistance
APPEND_G.ASC	Appendix G —Maps (Text only)
APPEND_H.ASC	Appendix H —Code Lists
APPEND_I.ASC	Appendix I —CD-ROM Technical Information

Figure 6. **Reference Files**–STF 1D

STF1STRU.DBF This file describes the structure of the 67 identification fields in the STF1D0 segment. This is in the format of a dBASE III *extended structure* which has been expanded to include brief field descriptions.

Structure for database: STF1D0.DBF
Number of data records: 67

Field	Field Name	Type	Width	Dec
1	FIELD_NAME	Character	10	
2	FIELD_TYPE	Character	1	
3	FIELD_LEN	Numeric	3	
4	FIELD_DEC	Numeric	3	
5	FIELD_TEXT	Character	60	
** Total **			78	

TABLES.DBF This file describes the numeric data tables.

Structure for database: TABLES.DBF
Number of data records: 1,350

Field	Field Name	Type	Width	Dec
1	TABLE	Character	6	
2	FIELD	Character	10	
3	TEXT	Character	68	
4	SEGMENT	Character	6	
** Total **			91	

\DOCUMENT Directory of technical documentation files in ASCII text format.

Figure 7. **Index Files**–STF 1D

TABLES.NDX This is a dBASE III index file for TABLES.DBF. The key field is TABLE.

The following dBASE index files are for STF1D?.DBF.

STF1DM.NDX The key fields are SUMLEV + STATEFP + SAC7 +CNTY

STF1DL.NDX The key fields are SUMLEV + STATEFP + SAC7 + Left(ANPSADPI,1)

STF1DT.NDX The key fields are SUMLEV + STATEFP + SAC7 + AIANAFP

STF1DP.NDX The key fields are SUMLEV + STATEFP + SAC7 (UNIQUE)

Figure 8. **Reference Files**–STF 3D

STF3STRU.DBF This file describes the structure of the 67 identification fields in the STF3D00 segment. This is in the format of a dBASE III *extended structure* which has been expanded to include brief field descriptions.

Structure for database: STF3D00.DBF
Number of data records: 67

Field	Field Name	Type	Width	Dec
1	FIELD_NAME	Character	10	
2	FIELD_TYPE	Character	1	
3	FIELD_LEN	Numeric	3	
4	FIELD_DEC	Numeric	3	
5	FIELD_TEXT	Character	60	
** Total **			78	

TABLES.DBF This file describes the numeric data tables.

Structure for database: TABLES.DBF
Number of data records: 4,780

Field	Field Name	Type	Width	Dec
1	TABLE	Character	6	
2	FIELD	Character	10	
3	TEXT	Character	68	
4	SEGMENT	Character	6	
** Total **			91	

\DOCUMENT Directory of technical documentation files in ASCII text format.

Figure 9. **Index Files**–STF 3D

TABLES.NDX This is a dBASE III index file for TABLES.DBF. The key field is TABLE.

The following dBASE index files are for STF3D??.DBF.

STF3DM.NDX The key fields are SUMLEV + STATEFP + SAC7 +CNTY

STF3DL.NDX The key fields are SUMLEV + STATEFP + SAC7 + Left(ANPSADPI,1)

STF3DT.NDX The key fields are SUMLEV + STATEFP + SAC7 + AIANAFP

STF3DP.NDX The key fields are SUMLEV + STATEFP + SAC7 (UNIQUE)

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