

**Survey of Income and Program
Participation (SIPP)
1991 Panel
Wave 6 Topical Module Microdata File**

TECHNICAL DOCUMENTATION
SIPP-91-6T

SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)

1991 PANEL

WAVE 6 TOPICAL MODULE MICRODATA FILE

Technical Documentation

Washington, D.C.

1994



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ABSTRACT

Survey of Income and Program Participation (SIPP) 1991 Panel, Wave 6 Topical Module Microdata File [machine-readable data file] / conducted by the U.S. Bureau of the Census. -Washington: The Bureau [producer and distributor], 1994.

Type of File:

Microdata; unit of observation is an individual.

Universe Description:

The universe is the resident population of the United States, excluding persons living in institutions and military barracks.

Subject-Matter Description:

The file contains data primarily from the topical module portion of the questionnaire. However, for purposes of matching persons to the core file, which was released separately, the beginning of the file contains identifying information as well as some basic demographic and social characteristics that are also contained in the core file. The identifying information includes sample unit, household address, and entry address identification. Demographic and social characteristics include age, sex, race (White; Black; American Indian, Eskimo, and Aleut; Asian or Pacific Islander; and Other), ethnic origin (23 categories including 7 Spanish origin categories), marital status, and education. Data in this topical module file include consumer durables, living conditions, and basic needs.

The sample consists of 4 rotation groups, each interviewed in a different month from October 1992 to January 1993. For each group the reference period for reporting labor force activity and income is the four calendar months preceding the interview month.

SIPP is a longitudinal survey where each sampled household and each descendent household is reinterviewed at 4-month intervals for 8 interviews or "waves." This file contains the results of the sixth interview. Unique codes are included on each record to allow linking together the same persons from the preceding and subsequent waves.

Geographic Coverage:

United States. Codes are included for 41 individual States and the District of Columbia, **although the sample was not designed to produce State estimates.** Areas in the SIPP sample in nine other States are identified in groups for confidentiality reasons. The file identifies a subsample of metropolitan residents, along with codes for selected metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's).

Technical Description:

File Structure: Rectangular. Each logical record for a sampled person includes information on the household and family of which the person was a part during each month of the reference period, as well as characteristics of the person.

File Size: 37,053 logical records; 248 character logical record length.

File Sort Sequence of Sample Units: Sampling unit identification number by entry address ID and person number within sampling unit.

Reference Materials:

Survey of Income and Program Participation (SIPP) 1991 Panel, Wave 6 Topical Module Microdata File Technical Documentation. The documentation includes this abstract, the data dictionary, an index to the data dictionary, relevant code lists, a questionnaire facsimile, and general information relative to SIPP. One copy of the technical documentation accompanies each file order but also may be purchased separately for \$25 from Data User Services Division, Customer Services, Bureau of the Census, Washington, D.C. 20233.

Interviewers' Manual (1985). Survey of Income and Program Participation. U.S. Department of Commerce, Bureau of the Census. The manual is available for \$10 from Data User Services Division, Customer Services, Bureau of the Census, Washington, D.C. 20233.

Survey of Income and Program Participation Users' Guide. The Users' Guide contains a general overview of the file as well as chapters on survey design and content, structure and use of cross-sectional files, linking waves and reliability of the data. A single copy accompanies each technical documentation or tape order. Additional copies are available for \$15 each from Customer Services, Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

Related Printed Reports:

Related printed reports include working papers, compilations of papers presented at annual meetings of the American Statistical Association, articles appearing in the *Journal of Economic and Social Measurement*, and reports in the P-70 series of the Current Population Reports. See the *Users' Guide* that accompanies the documentation for ordering information.

Related Machine-Readable Data Files:

SIPP files from all Waves of the 1984 through 1991 Panels as well as Waves 1 through 3 of the 1992 Panel are available from Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233. An order form is on the following page for your convenience.

File Availability:

Survey of Income and Program Participation (SIPP) 1991 Panel, Wave 6 Topical Module Microdata File is available at 6250 bpi; ASCII or EBCDIC, labeled or unlabeled. The file is also available on tape cartridges (IBM 3480 compatible) for the same price. A machine-readable dictionary is contained at the end of the file. This dictionary is also available separately on one tape reel. When ordering, please use the order form on the following page.

FILE INFORMATION

Matching Topical Module File with Core File

Since the core and topical module data are released as separate files it may be necessary to match the two files. The two files contain the following information for linking purposes.

Variable	Brief Description
ID	Sample Unit ID (scrambled)
ADDID	Household address ID
ITEM36B	Interview status code
INTVW	Person's interview status
PP-MIS*	Person's monthly interview status
ENTRY	Edited entry address ID
PNUM	Edited person number
FINALWGT	Weighting factor
RRP	Edited relationship to reference person
AGE	Edited and imputed age as of last birthday
SEX	Sex of person
PNSP	Person number of spouse
PNPT	Person number of parent
HIGRADE	Highest grade of year of school attended
GRD-COMPL	Highest grade completed
ETHNICTY	Ethnic origin

In order to confirm that the appropriate number of matches occur when merging data from core and topical module files, fields PP-MIS(1) through PP-MIS(4) for the four reference months and PP-MIS(5) for the interview month have been added. PP-MIS defines the monthly person interview status with 1 signifying an interview and 2 signifying a noninterview. Matching topical module records to month four on the person-month file should result in a match of all topical module records where PP-MIS(4) is equal to one. Although any reference month can be used for matching, month four is used because it is the closest month to the interview month available on the person-month files.

Geographic Coverage

State codes are shown except for nine States which are identified in three groups. A subsample of metropolitan residents is identified along with codes for selected metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's). **The sample was not designed to produce State or MSA/CMSA level estimates.** State codes are primarily useful in relating a respondent's reciprocity of benefits to thresholds which may vary from State to State. MSA/CMSA codes may be used in relating respondent characteristics with contextual variables.

Identification Number System

The SIPP identification scheme is designed to uniquely identify individuals in each wave, provide a means of linking the same individuals over time, and group individuals into households and families over time.

The various components of the identification scheme are listed below:

- Sample Unit Identification Number
- Address ID
- Entry Address ID
- Person Number

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The sample unit identification number was created by scrambling together the PSU, segment, and serial numbers used for Census Bureau administrative purposes. This identifier is constructed the same way on each wave regardless of moves, to enable matching from wave to wave.

The two-digit address ID code identifies each household associated with the same sample unit identification number. The first digit of the address ID code indicates the wave in which that address was first assigned for interview. The second digit sequentially numbers multiple households that have the same serial number. The address ID code is 11 for all sample addresses that are the same as in Wave 1. As SIPP sample persons move to new addresses, new address ID codes are assigned. Any new address to which sample unit members moved during Wave 4 is numbered in the 40's.

The person ID is a five-digit number consisting of the two-digit entry address ID and a three-digit person number. Person numbers 101, 102, etc., are assigned in Wave 1; 201, 202, etc., are assigned to persons added to the roster in Wave 2, and so forth. This five-digit number is not changed or updated, regardless of moves.

The sampling unit serial number and address ID code uniquely identifies each household in any given wave. The sampling unit serial number can link all households in subsequent waves back to the original Wave 1 household.

Topcoding of Income Variables

To protect against the possibility that a user might recognize the identity of a SIPP respondent with very high income, income from every source is "topcoded" so that no individual income amounts above \$100,000 are revealed. While the data dictionary indicates a topcode of \$33,332 for monthly income, this topcode will rarely be used. In most cases the monthly income is shown as an individual dollar amount of \$8,333, with \$8,333 actually representing "\$8,333 or more." (the \$100,000 annual income topcode is \$8,333 multiplied by 12 months). Individual monthly amounts above \$8333 may occasionally be shown if the respondent's income varied considerably from month to month, as long as the average does not exceed \$8,333. For example, if a respondent's income from a single job were concentrated in only one of the four reference months, a figure as high as \$33,332 could be shown. (Income from interest or property have lower topcodes).

Summary income figures on the person, family, and household records are simple sums of the components shown on the file after topcoding, and are not independently topcoded. Thus, a person with high income from several sources (jobs, businesses, property) could have aggregate monthly income well over the topcode for each source. Families and households with a number of high income members could theoretically have aggregate income shown well over \$100,000, though well below the \$1.5 million shown as the highest allowable value in the data dictionary.

The user is cautioned against trying to make much use of the occasional monthly figures above \$8,333, except in calculating aggregates or observing patterns across the 4-month period for a single individual, family, or household. Those units with higher monthly amounts shown are a biased sample of high income units, more likely to include units with income from multiple sources than other units with equally high aggregate income which comes from a single source.

GLOSSARY OF SELECTED TERMS

Absent 1 or more weeks. Absent 1 or more weeks means absent without pay from a job or business. Persons were absent without pay in a month if they were 'with a job' during the entire month, but were not at work at that job during at least 1 full week (Sunday through Saturday) during the month, and did not receive wages or a salary for any time during that week. Reasons for an unpaid absence include vacation, illness, layoff, bad weather, labor disputes, and waiting to start a new job.

Family household. A family household is a household maintained by a family; any unrelated persons (unrelated subfamily members and/or secondary individuals) who may be residing there are included. The number of family households is equal to the number of families. The count of family household members differs from the count of family members, however, in that the family household members include all persons living in the household, whereas family members include only the householder and his/her relatives.

Family. A family is a group of two or more persons (one of whom is the householder) related by birth, marriage, or adoption and residing together; all such persons (including related subfamily members) are considered members of one family.

Farm-nonfarm residence. The farm population refers to rural residents living on farms. Under this definition, a farm is any place in rural territory from which sales of crops, livestock, and other agricultural products amounted to \$1,000 or more during the previous 12-month period.

Full-time and part-time. The data on full- and part-time workers pertain to the number of hours a person usually worked per week during the weeks worked in the 4-month reference period of the survey. If the hours worked per week varied considerably, the respondent was asked to report an approximate average of the actual hours worked each week.

Persons 16 years old and over who reported usually working 35 or more hours each week during the weeks they worked are classified as 'full-time' workers; persons who reported that they usually worked fewer than 35 hours are classified as 'part-time' workers. The same definitions are used in the CPS.

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

A household includes the related family members and all the unrelated persons, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone in a housing unit or a group of unrelated persons sharing a housing unit as partners is also counted as a household. The count of households excludes group quarters. Examples of group quarters include rooming and boarding houses, college dormitories, and convents and monasteries.

Householder. Survey procedures call for listing first the person (or one of the persons) in whose name the home is owned or rented. If the house is owned jointly by a married couple, either the husband or the wife may be listed first, thereby becoming the reference person, or householder, to whom the relationship of the other household members is recorded. One person in each household is designated as the 'householder.' The number of householders, therefore, is equal to the number of households.

Layoff. In general, the word 'layoff' means release from a job because of slack work, material shortages, inventory taking, plant remodeling, installation of machinery, or other similar reasons. For this survey, persons were also on 'layoff' who did not have job but who responded that they has spent at least 1 week on layoff from a job and that they were available to accept a job.

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In addition, persons were on 'layoff' in a given month if they were 16 years old or over and (a) were 'with a job' but 'absent without pay' from that job for at least 1 full week during that month, and (b) they responded that their main reason for being absent from their job or business was 'layoff.' 'On layoff' also includes a small number of persons who responded that they were waiting to report to a new wage and salary job that was to begin within 30 days. In other words, persons waiting to begin a new job are classified together with persons waiting to return to a job from which they have been laid off.

Looking for work. Persons who 'looked for work' in a given month are those who were 16 years old or over and (a) were without a job during at least 1 week during the month, (b) tried to get work or establish a business or profession in that week, and (c) were available to accept a job. Examples of jobseeking activities are (1) registering at a public or private employment office, (2) meeting with prospective employers, (3) investigating possibilities for starting a professional practice or opening a business, (4) placing or answering advertisements, (5) writing letters of application, and (6) being on a professional register.

The CPS uses a similar concept of 'looking for work.' The term 'unemployed' as used in the CPS includes persons who were looking for work in the reference week and those who were 'on layoff' or 'waiting to begin a new job in 30 days.'

Low-Income Home Energy Assistance Program. Benefits from the Federally funded LIHEAP authorized by Title XXVI of the Omnibus Budget Reconciliation Act of 1981, or comparable assistance provided through State funded assistance programs, may be received in the form of direct payment to the household as reimbursement for heating or cooling expenses or paid directly to the fuel dealer or landlord.

Means-tested benefits. The term means-tested benefits refers to programs that require the income or assets (resources) of the individual or family be below specified guidelines in order to qualify for benefits. These programs provide cash and noncash assistance to the low-income population. The major sources of means-tested cash and noncash assistance are shown in Appendix B-2.

Medicaid. This term refers to the Federal-State program of medical assistance for low-income individuals and their families as provided for by Title XIX of the Social Security Act. The phrase 'Medicaid covered' refers to persons enrolled in the Medicaid program, regardless of whether they actually utilized any Medicaid covered health care services during the survey reference period.

Medicare. This term refers to the Federal Health Insurance Program for the Aged and Disabled as provided for by Title XVIII of the Social Security Act. The phrase 'Medicare covered' refers to persons enrolled in the Medicare program, regardless of whether they actually utilized any Medicare covered health care services during the survey reference period.

Monthly income. The monthly income estimates for households are based on the sum of the monthly income received by each household member age 15 years old or over.

Cash income includes all income received from any of the sources listed in Appendix B-1. Rebates, refunds, loans, and capital gain or loss amounts from the sale of assets, and interhousehold transfers of cash such as allowances are not included. Accrued interest on Individual Retirement Accounts, KEOUGH retirement plans, and U.S. Savings bonds are also excluded. This definition differs somewhat from that used in the annual income reports based on the March CPS Income supplement questionnaire. These data, published in the Consumer Income Series, P-60, are based only on income received in a regular or periodic manner and, therefore, exclude lump-sum or one-time payments such as inheritances and insurance settlements. The March CPS income definition, however, does exclude the same income sources excluded by SIPP.

The income amounts represent amounts actually received during the month, before deductions for income and payroll taxes, union dues, Part B Medicare premiums, etc.

The SIPP income definition includes three types of earnings: wages and salary, nonfarm self-employment, and farm self-employment. The definition of nonfarm self-employment and farm self-employment is not based on the net difference between gross receipts or sales and operating expenses, depreciation, etc. The monthly amounts for these income types are based on the salary or other income received from the business by the owner of the business or farm during the 4-month reference period.

The Bureau of Labor Statistics publishes quarterly averages for an earnings concept called 'usual weekly earnings' for employed wage and salary workers. The concept differs from the SIPP earnings concept since it is based on usual, not actual earnings, excludes the self-employed, and excludes earnings from secondary jobs.

While the income amounts from most sources are recorded monthly for the 4-month reference period, property income amounts, interest, dividends, rental income, etc., were recorded as totals for the 4-month period. These totals were distributed equally between months of the reference period for purposes of calculating monthly averages.

Nonfamily household. A nonfamily household is a household maintained by a person living alone or with nonrelatives only.

Persons of Spanish origin. Persons of Spanish origin were determined on the basis of a question that asked for self-identification of the person's origin or descent. Respondents were asked to select their origin (or the origin of some other household member) from a 'flash card' listing ethnic origins. Persons of Spanish origin, in particular, were those who indicated that their origin was Mexican, Puerto Rican, Cuban, Central or South American, or some other Spanish origin. It should be noted that persons of Spanish origin may be of any race.

Population coverage. The estimates are restricted to the civilian noninstitutional population of the 50 States and members of the Armed Forces living off post or with their families on post.

Race. The population is divided into groups on the basis of race: White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; and 'other races.'

Special Supplemental Food Program for women, Infants, and Children (WIC). Benefits are received in the form of vouchers that are redeemed at retail stores for specific supplemental nutritious foods. Eligible low-income recipients are infants and children up to age five and pregnant, postpartum, and breastfeeding women.

Unemployment compensation. This term refers to cash benefits paid to unemployed workers through a State or local unemployment agency. These include all benefits paid under the Federal-State unemployment insurance program as established under the Social Security Act, as well as those benefits paid to State and local government employees, Federal civilian employees, and veterans.

With a Job. Persons are classified 'with a job' in a given month if they were 16 years old or over and, during the month, either (a) worked as paid employees or worked in their own business or profession or on their own farm or worked without pay in a family business or farm or (b) were temporarily absent from work either with or without pay. In general, the word 'job' implies an arrangement for regular work for pay where payment is in cash wages or salaries, at piece rates, in tips, by commission, or in kind (meals, living quarters, supplies received). 'Job' also includes self-employment at a business, professional practice, or farm. A business is defined as an activity which involves the use of machinery or equipment in which money has been invested or an activity requiring an office or 'place of business' or an activity which requires advertising; payment may be in the form of profits or fees.

The Current Population Survey (CPS), the official source of labor force statistics for the Nation, uses the same definition for a job or business. The term 'with a job,' however, should not be confused with the term 'employed' as used in the CPS. 'With a job' includes those who were temporarily absent from a job because of layoff and those waiting to begin a new job in 30 days; in the CPS these persons are not considered 'employed.' See 'Worked each week' below.

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With labor force activity. The term 'with labor force activity' includes all persons with a job (as defined above) and those looking for work or on layoff from a job for at least 1 week during a given month. Conversely, those persons 'with no labor force activity' had no job, were not on layoff from a job and made no effort to find a job during the month.

Work disability. Persons were classified as having a work disability if they were identified by the respondent as having a physical, mental, or other health condition that limits the kind or amount of work they can do.

Worked each week. Persons 'worked each week' in a month if, for the entire month, they were 'with a job' and not 'absent without pay' from the job. In other words, a person worked each week in any month when they were (a) on the job the entire month, or (b) they received wages or a salary for all weeks in the month, whether they were on the job or not. Persons also worked each week if they were self-employed and spent time during each week of the month at or on behalf of the business or farm they owned, as long as they received or expected to receive profit or fees for their work.

In the CPS, the concept at 'work' includes those persons who spent at least 1 hour during the reference week at their job or business. In the CPS, however, 'at work' does not include persons who were temporarily absent from their jobs during the entire reference week on paid vacation, sick leave, etc. In SIPP, 'worked each week' does include persons on paid absences.

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Utilities Turned Off - Help From Person Or Organization	TM8322	202
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ALPHABETICAL VARIABLE LISTING TO 1991 WAVE 6 TOPICAL MODULE

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HOW TO USE THE DATA DICTIONARY

The Data Dictionary describes the contents and record layout of the public-use computer tape file. The first line of each data item description gives the data name, size of the data field, and the begin position of the field.

The next few lines contain descriptive text and any applicable notes. Categorical value codes and labels are given where needed. Comment notes marked by an (*) are provided throughout. Comments should be removed from the machine-readable version of the data dictionary before using it to help access the data file.

Data. Alphabetic, numeric, and the special character (-). No other special characters are used. It may be a mnemonic such as "STATE" or "SE1-OCC", or a sequential identifier such as "SC1176" or "WS-IMP01". Data item names are unique throughout the entire file.

Size. Numeric. The size of a data item is given in characters. Indication of implied decimal places is provided in notes.

Begin. Numeric. Contains the location in the data record of the first character position of the data item field.

The first line of each data item description begins with the character "D" (left-justified, two characters). The "D" flag indicates lines in the data dictionary containing the name, size, relative begin and begin position of each data item. This information (in machine-readable form) can be used to help access the data file. The line beginning with the character "U" describes the universe for that item. Lines containing categorical value codes and labels follow next and begin with the character "V". The special character (.) denotes the start of the value labels. Two examples of data item descriptions follow:

```
D SC1218  1 2805
  What was the main reason ... could
  not take a job during those weeks
U Persons 15 years old or older
V   0 .Not in universe
V   1 .Already had a job
V   2 .Temporary illness
V   3 .School
V   4 .Other

D RR3064  2 3760
  Railroad retirement sends out two types
  of checks; which color check does ...
  receive.
U Persons age 15 years or older receiving
  railroad retirement
V  -1 .DK
V   00 .Not in universe
V   01 .Blue
V   02 .Buff
V   03 .Direct deposit
V   04 .Other
```


SIPP 1991 WAVE 6 TOPICAL MODULE DATA DICTIONARY

DATA SIZE BEGIN

D SUSEQNUM 5 1
Sequence number of sample unit
primary sort key

D ID 9 6
Sample unit identifier
This identifier is created by scrambling
together the psu, segment and serial of
the original sample address. It may be
used in matching sample units from
different waves

D ROTATION 1 15
Rotation

D STATE 2 16
Fips state code from the MST/GRIN file

V 01 .Alabama
V 04 .Arizona
V 05 .Arkansas
V 06 .California
V 08 .Colorado
V 09 .Connecticut
V 10 .Delaware
V 11 .District of Columbia
V 12 .Florida
V 13 .Georgia
V 15 .Hawaii
V 17 .Illinois
V 18 .Indiana
V 20 .Kansas
V 21 .Kentucky
V 22 .Louisiana
V 24 .Maryland
V 25 .Massachusetts
V 26 .Michigan
V 27 .Minnesota
V 28 .Mississippi
V 29 .Missouri
V 31 .Nebraska
V 32 .Nevada
V 33 .New Hampshire
V 34 .New Jersey
V 35 .New Mexico
V 36 .New York
V 37 .North Carolina
V 39 .Ohio
V 40 .Oklahoma
V 41 .Oregon
V 42 .Pennsylvania
V 44 .Rhode Island
V 45 .South Carolina
V 47 .Tennessee
V 48 .Texas
V 49 .Utah
V 51 .Virginia
V 53 .Washington
V 54 .West Virginia
V 55 .Wisconsin
V 61 .Maine,Vermont
V 62 .Iowa,North Dakota,South Dakota
V 63 .Alaska,Idaho,Montana,Wyoming

D PINX 2 18
Person index from core

DATA SIZE BEGIN

D ADDID 2 20
Address ID - This field
differentiates households within
the same psu, segment and serial,
that is, households which originate
out of an original sample household
U All households

D ITEM36B 2 22
Control card item 36B - interview
status code

U All households

V 01 .Interview D
Type A noninterview
V 02 .No one home
V 03 .Temporarily absent
V 04 .Refused
V 05 .Unable to locate
V 06 .Other type A
Type B noninterview (Wave 1)
V 09 .Vacant
V 10 .Occupied by persons with URE
V 11 .Unfit or to be demolished
V 12 .Under construction, not ready
V 13 .Converted to temporary business
 .or storage
V 14 .Unoccupied site for mobile home,
 .trailer, or tent
V 15 .Permit granted, construction not
 .started
V 16 .Other type B
Type B noninterview (wave 2+)
V 16 .Entire HH institutionalized
 .or temporarily ineligible
Type C noninterview (Wave 1)
V 17 .Demolished
V 18 .House or trailer moved
V 19 .Converted to permanent business
 .or storage
V 20 .Merged
V 21 .Condemned
V 22 .Other type C
Type C noninterview (Wave 2+)
V 22 .Deleted (sample adjustment,
 .error)
V 23 .Entire household deceased, moved
 .out of country, or living in
 .Armed Forces barracks
Type D noninterview (Wave 2+)
V 24 .Moved, address unknown
V 25 .Moved within country beyond
 .limit
V 26 .All sample persons relisted on
 .new control card(s)
V 28 .Merged hhlds across panels

D INTW 1 24
Person's interview status
U All persons, including children
V 0 .Not applicable (children
 .under 15)
V 1 .Interview (self)
V 2 .Interview (proxy)
V 3 .Noninterview - type Z refusal
V 4 .Noninterview - type Z other

D PP-MIS 5 25
Monthly person's interview status
U All persons, including children
V 00001 .Interview
V 00002 .Non-interview

SIPP 1991 WAVE 6 TOPICAL MODULE

DATA	SIZE	BEGIN
D ENTRY	2	30
Edited entry address ID		
Address of the household that this person belonged to at the time this person first became part of the sample		
U		All persons, including children
D PNUM	3	32
Edited person number		
U		All persons, including children
D FINALWGT	12	35
'STAGE1WT' * second stage factor		
U		All persons, including children
D RRP	1	47
Edited relationship to reference person		
U		All persons, including children
V	0	.Not a sample person in this .month
V	1	.Household reference person, .living with relatives
V	2	.Household reference person .living alone or with only .non-relatives (primary .individual)
V	3	.Spouse of household reference .person
V	4	.Child of household reference .person
V	5	.Other relative of household .reference person
V	6	.Non-relative of household .reference person but related to .others in the household - member .of an unrelated sub (secondary) .family
V	7	.Non-relative of household .reference person and not related .to anyone else in the household .(secondary individual)
D AGE	3	48
Edited and imputed age as of last birthday.		
U		All persons, including children
V	000	.Less than 1 full year
V	001	.1 year
V		.Etc.
D SEX	1	51
Sex of this person		
Edited and imputed		
U		All persons, including children
V	1	.Male
V	2	.Female
D RACE	1	52
Race of this person		
Edited and imputed		
U		All persons, including children
V	1	.White
V	2	.Black
V	3	.American Indian, Eskimo or Aleut
V	4	.Asian or Pacific Islander
D MS	1	53
Marital status		
If a person's marital status changed during any month, the marital status shown is the status maintained for the greatest part of the month - edited and imputed		
U		Persons 15 years old or older

DATA	SIZE	BEGIN
V	0	.Not a sample person in this .month
V	1	.Married, spouse present
V	2	.Married, spouse absent
V	3	.Widowed
V	4	.Divorced
V	5	.Separated
V	6	.Never married
D PNSP	3	54
Person number of spouse		
U		Persons 15 years old or older
V	000	.Not a sample person in this .month
V	999	.Not applicable
D PNPT	3	57
Person number of parent		
U		Persons 15 years old or older
V	000	.Not a sample person in this .month
V	999	.Not applicable
D HIGRADE	2	60
What is the highest grade or year of regular school this person attended?		
U		Persons 15 years old or older
V	00	.Not applicable if under 15, .did not attend or attended only .kindergarten
V	01-08	.Elementary
V	09-12	.High school
V	21-26	.College
D GRD-CMPL	1	62
Did he/she complete that grade		
U		Persons 15 years old or older
V	0	.Not applicable
V	1	.Yes
V	2	.No
D ETHNICTY	2	63
Ethnic origin		
U		All persons, including children
V	01	.German
V	02	.English
V	03	.Irish
V	04	.French
V	05	.Italian
V	06	.Scottish
V	07	.Polish
V	08	.Dutch
V	09	.Swedish
V	10	.Norwegian
V	11	.Russian
V	12	.Ukrainian
V	13	.Welsh
V	14	.Mexican-American
V	15	.Chicano
V	16	.Mexican
V	17	.Puerto Rican
V	18	.Cuban
V	19	.Central or South American .(Spanish speaking)
V	20	.Other Spanish
V	21	.Afro-American .(Black or Negro)
V	30	.Another group not listed
V	39	.Don't know
D WAVE	1	65
Wave within Panel year		
D TMENTRY	2	66
Respondent's entry address ID		

```

DATA      SIZE  BEGIN
D TMHPNUM 3    68
  Person number

D FILLER  2    71
  Blank or zero filler

*****
* Part A - Consumer Durables *
*****

D TM8000  1    73
  Check item T1
  Is this the reference person's
  questionnaire?
U All persons
V      1 .Yes
V      2 .No

*****
* Which of the following items do you *
* currently have in your home (or building) *
* that are in working condition? *
* Possible responses are : *
* *
* V      -1 .Don't know *
* V      00 .Not applicable *
* V      01 .Yes *
* V      02 .No *
*****

D TM8002  2    74
  Washing machine
U All reference persons

D TM8006  2    76
  Clothes dryer
U All reference persons

D TM8010  2    78
  Dishwasher
U All reference persons

D TM8014  2    80
  Refrigerator
U All reference persons

D TM8018  2    82
  Food freezer (separate from
  refrigerator)
U All reference persons

D TM8022  2    84
  Color television
U All reference persons

D TM8026  2    86
  Gas or electric stove (with or
  without oven)
U All reference persons

D TM8030  2    88
  Microwave oven
U All reference persons

D TM8034  2    90
  Videocassette recorder (VCR)
U All reference persons

D TM8038  2    92
  Air conditioner (central or room)
U All reference persons

```

```

DATA      SIZE  BEGIN
D TM8042  2    94
  Personal computer
U All reference persons

D TM8046  2    96
  Telephone
U All reference persons

*****
* Part B - Living conditions *
*****

*****
* Section A - Housing *
*****

D TM8100  2    98
  How many rooms are there in your home?
  Count the kitchen but do not count the
  bathrooms.
V      00 - 99 .Number of rooms

*****
* Are any of the following conditions *
* present in this home? *
* Possible answers are : *
* *
* V      -1 .Don't know *
* V      00 .Not applicable *
* V      01 .Yes *
* V      02 .No *
*****

D TM8102  2   100
  Leaking roof or ceiling?
U All reference persons

D TM8106  2   102
  A toilet, hot water heater, or other
  plumbing that doesn't work?
U All reference persons

D TM8110  2   104
  Broken windows?
U All reference persons

D TM8114  2   106
  Exposed electrical wires?
U All reference persons

D TM8118  2   108
  Rats, mice, roaches, or other insects?
U All reference persons

D TM8122  2   110
  Holes in the floor (large enough to
  trip in)?
U All reference persons

D TM8126  2   112
  Open cracks or holes in the walls
  or ceiling?
U All reference persons

*****
* On a scale of 1 to 10, where 10 is best *
* and 1 is worst, how would you rate ... *
* Possible answers are : *
* *
* V      -1 .Don't know *
* V      00 .Not applicable *
* V      01 - 10 .Rating *
*****

```


SIPP 1991 WAVE 6 TOPICAL MODULE

DATA	SIZE	BEGIN
D TM8130	2	114
The general state of repair of your home?		
U All reference persons		
D TM8132	2	116
The amount of room or space your home has?		
U All reference persons		
D TM8134	2	118
The furnishings in your home?		
U All reference persons		
D TM8136	2	120
The warmth of your home in winter?		
U All reference persons		
D TM8138	2	122
The coolness of your home in summer?		
U All reference persons		
D TM8140	2	124
The amount of privacy your home offers?		
U All reference persons		
D TM8142	2	126
The security or safety of your home?		
U All reference persons		
D TM8144	2	128
The convenience of your home to stores and shopping?		
U All reference persons		
D TM8146	2	130
Your relationship with neighbors?		
U All reference persons		
D TM8148	2	132
Do you feel that the conditions in this house are undesirable enough that you would like to move?		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Yes
V	02	.No
D TM8150	2	134
On a scale of 1 to 10, how would you rate this (house/apartment) as a place to live?		
10 is best and 1 is worst.		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01 - 10	.Rating
D TM8152	2	136
On a scale of 1 to 10, how would you rate this neighborhood? 10 is best and 1 is worst.		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01 - 10	.Rating

 * Section B - Crime *

DATA	SIZE	BEGIN
D TM8154	2	138
In the past month, have there been any times when you wanted to go somewhere but stayed at home instead because you thought it would be unsafe to leave home?		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Yes
V	02	.No
D TM8156	1	140
When you go out, do you ever carry anything to protect yourself?		
U All reference persons		
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8158	2	141
Do you consider your neighborhood very safe from crime, fairly safe, fairly unsafe, or very unsafe?		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Very safe
V	02	.Fairly safe
V	03	.Fairly unsafe
V	04	.Very unsafe
D TM8160	2	143
How about your home? Do you consider it very safe from crime, fairly safe, fairly unsafe, or very unsafe?		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Very safe
V	02	.Fairly safe
V	03	.Fairly unsafe
V	04	.Very unsafe
D TM8162	2	145
We are interested in finding out if people do anything in particular to keep thieves or intruders out of their homes. Does your household have a dog for the purpose of keeping thieves and intruders out, or any special devices such as electric timers for lights, or an alarm system?		
U All reference persons		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Yes
V	02	.No

* Section C - Neighborhood conditions *		
* Do you think any of the following *		
* conditions are problems in this *		
* neighborhood? *		
* Possible answers are : *		
* *		
V	-1	.Don't know
V	00	.Not applicable
V	01	.Yes
V	02	.No

DATA SIZE BEGIN

D TM8170 2 147
Street noise or heavy street traffic?
U All reference persons

D TM8172 2 149
Streets in need of repair?
U All reference persons

D TM8174 2 151
Crime?
U All reference persons

D TM8176 2 153
Trash, litter, or garbage in the
streets and lots?
U All reference persons

D TM8178 2 155
Rundown or abandoned houses or buildings?
U All reference persons

D TM8180 2 157
Industries, businesses, or other
non-residential activities?
U All reference persons

D TM8182 2 159
Odors, smoke, or gas fumes?
U All reference persons

D TM8184 2 161
Do you feel that neighborhood conditions
are unsatisfactory enough that you would
like to move?
U All reference persons
V -1 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

* Section D - Community services *

* On a scale of 1 to 10, where 10 is best *
* and 1 is worst, how would you rate the *
* following services or conditions in your *
* neighborhood? *
* Possible answers are : *
* *
* V -1 .Don't know *
* V 00 .Not applicable *
* V 01 - 10 .Rating *

D TM8186 2 163
Hospitals, health clinics, and doctors?
U All reference persons

D TM8188 2 165
Parks and recreational facilities?
U All reference persons

D TM8190 2 167
Public transportation?
U All reference persons

D TM8192 2 169
Police services?
U All reference persons

D TM8194 2 171
Fire department services
U All reference persons

DATA SIZE BEGIN

D TM8196 2 173
Neighborhood stores?
U All reference persons

D TM8198 2 175
Quality of education in local
schools?
U All reference persons

D TM8200 2 177
Safety in local schools?
U All reference persons

D TM8202 2 179
Education or training opportunities
in the community?
U All reference persons

D TM8204 2 181
Do you feel that the services in your
area are unsatisfactory enough that
you would like to move?
U All reference persons
V -1 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

* Part C - Basic needs *

* Section A - Ability to meet expenses *

D TM8300 2 183
During the past 12 months, has there been
a time when your household did not meet
its essential expenses? by essential
expenses, I mean things like the mortgage
or rent payment, utility bills, or
important medical care.
U All reference persons
V -1 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

* In the past 12 months has there been a *
* time when your household ... *
* Possible answers are: *
* *
* V -1 .Don't know *
* V 00 .Not applicable *
* V 01 .Yes *
* V 02 .No *

D TM8302 2 185
Did not pay the full amount of the
rent or mortgage?
U All reference persons

D TM8304 1 187
Did any person or organization help?
U All persons who did not pay the full amount
of the rent or mortgage
V 0 .Not applicable
V 1 .Yes
V 2 .No

SIPP 1991 WAVE 6 TOPICAL MODULE

DATA	SIZE	BEGIN
D TM8306	2	188
Who helped?		
U	All persons who received help with rent or mortgage	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH
D TM8308	2	190
Was evicted from your home/apartment for not paying the rent or mortgage?		
U	All reference persons	
D TM8310	1	192
Did any person or organization help?		
U	All persons evicted from your home/apartment for not paying the rent or mortgage	
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8312	2	193
Who helped?		
U	All persons who received help when evicted	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH
D TM8314	2	195
Did not pay the full amount of the gas, oil, or electricity bills?		
U	All reference persons	
D TM8316	1	197
Did any person or organization help?		
U	All reference persons	
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8318	2	198
Who helped?		
U	All reference persons	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard H
D TM8320	2	200
Had service turned off by the gas or electric company, or oil company would not deliver oil?		
U	All reference persons	
D TM8322	1	202
Did any person or organization help?		
U	All reference persons	
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8324	2	203
Who helped?		
U	All reference persons	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH
D TM8326	2	205
Had service disconnected by the telephone company because payments were not made?		
U	All reference persons	

DATA	SIZE	BEGIN
D TM8328	1	207
Did any person or organization help?		
U	All reference persons	
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8330	2	208
Who helped?		
U	All reference persons	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH
D TM8332	2	210
Had someone in your household who needed to see a doctor or go to the hospital but didn't go?		
U	All reference persons	
D TM8334	1	212
Did any person or organization help?		
U	All reference persons	
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8336	2	213
Who helped?		
U	All reference persons	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH
D TM8338	2	215
Had someone who needed to see a dentist but didn't go?		
U	All reference persons	
D TM8340	1	217
Did any person or organization help?		
V	0	.Not applicable
V	1	.Yes
V	2	.No
D TM8342	2	218
Who helped?		
U	All reference persons	
V	-1	.Don't know
V	00	.Not applicable
V	01 - 99	.Code from flashcard HH

* Section B - Help when in need *		

D TM8344	2	220
If your household had a problem with which you needed help (for example, sickness or moving), how much help would you expect to get from family living nearby?		
U	All reference persons	
V	-3	.Not applicable
V	-1	.Don't know
V	00	.Not in sample
V	01	.All of the help I/we need
V	02	.Most of the help I/we need
V	03	.Very little of the help I/we need
V		.need
V	04	.No help

DATA SIZE BEGIN
 D TM8346 2 222
 If your household had a problem with
 which you needed help, how much help
 would you expect to get from friends?
 U All reference persons
 V -3 .Not applicable
 V -1 .Don't know
 V 00 .Not in sample
 V 01 .All of the help I/we need
 V 02 .Most of the help I/we need
 V 03 .Very little of the help I/we
 .need
 V 04 .No help

D TM8348 2 224
 If your household had a problem with
 which you needed help, how much help
 would you expect to get from other
 people in the community besides family
 and friends, such as a social agency or
 a church?
 U All reference persons
 V -3 .Not applicable
 V -1 .Don't know
 V 00 .Not in sample
 V 01 .All of the help I/we need
 V 02 .Most of the help I/we need
 V 03 .Very little of the help I/we
 .need
 V 04 .No help

 * Section C - Food adequacy *

D TM8350 2 226
 Which of these statements best describe
 the food eaten in your household in the
 last four months?
 U All reference persons
 V -1 .Don't know - skip to Check
 .Item C1
 V 00 .Not applicable
 V 01 .Enough of the kinds of food we
 .want - skip to Check Item C1
 V 02 .Enough but not always the kinds
 .we want to eat - skip to Check
 .Item C1
 V 03 .Sometimes not enough to eat
 V 04 .Often not enough to eat

 * In which months did the household not have*
 * enough to eat? *
 * Possible answers are : *
 * *
 * V 0 .Not applicable *
 * V 1 .Did not have enough to eat *

D TM8352 1 228
 Last month
 U All reference persons

DATA SIZE BEGIN
 D TM8354 1 229
 Two months ago
 U All reference persons
 D TM8356 1 230
 Three months ago
 U All reference persons
 D TM8358 1 231
 Four months ago
 U All reference persons

 * Which of the following reasons explain *
 * why your family did not have enough food? *
 * Possible answers are : *
 * *
 * V -1 .Don't know *
 * V 00 .Not applicable *
 * V 01 .Yes *
 * V 02 .No *

D TM8360 2 232
 Did not have enough money, food
 stamps, or WIC vouchers to buy food
 or beverages?
 U All reference persons

D TM8362 2 234
 Did not have working appliances for
 storing or preparing foods (such as a
 stove or refrigerator)?
 U All reference persons

D TM8364 2 236
 Did not have transportation
 (transportation problems)?
 U All reference persons

D TM8366 2 238
 Some other reason
 U All reference persons

D TM8368 2 240
 Thinking about the past month, how many
 days did your household have no food or
 money (or food stamps) to buy food?
 U All reference persons
 V -3 .None - skip to Check Item C1
 V 00-99 .Number of days

D TM8370 6 242
 Short on its food budget last month?
 V -00001 .Don't know
 V 000000 .Not applicable
 V 1 - 999999 .Dollar amount

D FILLER 1 248
 Blank or zero filler

**SOURCE AND ACCURACY STATEMENT
FOR THE 1991 WAVE 6+ PUBLIC USE FILES
FROM THE SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)**

SOURCE OF DATA

The SIPP universe is the noninstitutionalized resident population living in the United States. The population includes persons living in group quarters, such as dormitories, rooming houses, and religious group dwellings. Not eligible to be in the survey are crew members of merchant vessels, Armed Forces personnel living in military barracks, and institutionalized persons, such as correctional facility inmates and nursing home residents. Also, not eligible are United States citizens residing abroad. Foreign visitors who work or attend school in this country and their families are eligible; all others are not eligible. With the exceptions noted above, field representatives interview eligible persons who are at least 15 years of age at the time of the interview.

The 1991 panel of the SIPP sample is located in 230 Primary Sampling Units (PSUs) each consisting of a county or a group of contiguous counties. Within these PSUs, we systematically selected expected clusters of two living quarters (LQs) from lists of addresses prepared for the 1980 decennial census to form the bulk of the sample. To account for LQs built within each of the sample areas after the 1980 census we selected a sample containing clusters of four LQs from permits issued for construction of residential LQs up until shortly before the beginning of the panel.

In jurisdictions that have incomplete addresses or don't issue building permits, we sampled small land areas, listed expected clusters of four LQs, and then subsampled. In addition, we selected a sample of LQs from a supplemental frame that included LQs identified as missed in the 1980 census.

Approximately 19,300 living quarters were originally designated for the 1991 panel. For Wave 1 of the panel, we obtained interviews from occupants of about 14,300 of the 19,300 designated living quarters. We found most of the remaining 5,000 living quarters in the panel to be vacant, demolished, converted to nonresidential use, or otherwise ineligible for the survey. However, we did not interview approximately 1,300 of the 5,000 living quarters in the panel because the occupants refused to be interviewed, could not be found at home, were temporarily absent, or were otherwise unavailable. Thus, occupants of about 92 percent of all eligible living quarters participated in the first interview of the panel.

For subsequent interviews, only original sample persons (those in Wave 1 sample households and interviewed in Wave 1) and persons living with them are eligible to be interviewed. We followed original sample persons if they moved to a new address, unless the new address was more than 100 miles from a SIPP sample area, we attempted telephone interviews. When original sample persons moved to remote parts of the

country and were unreachable by telephone, moved without leaving a forwarding address, or refused the interview, additional noninterviews resulted.

The Bureau divides sample households within a given panel into four subsamples of nearly equal size. We call these subsamples rotation groups 1, 2, 3, or 4 and interview one rotation group each month. Beginning in February 1991, we schedule interviews for each household in the sample at 4 month intervals over a period of roughly 2½ years. The reference period for the questions is the 4-month period preceding the interview month. A wave is one cycle of four interviews covering the entire sample, using the same questionnaire.

A unique feature of the SIPP design is overlapping panels. The overlapping design allows combining of panels and essentially doubles the sample size. It is possible to combine selected interviews for the 1991 panels with interviews from the 1990 panels. We include information necessary to do this later in this statement.

The public use files include core and supplemental (topical module) data. Field representatives repeat core questions at each interview over the life of the panel. Topical modules include questions which are asked only in certain waves. The 1991 and 1990 panel topical modules are shown in tables 1 and 2 respectively.

Tables 3 and 4 indicate the reference months and interview months for the collection of data from each rotation group for the 1991 and 1990 panels respectively. For example, Wave 1 rotation group 2 of the 1991 panel was interviewed in February 1991 and data for the reference months October 1990 through January 1991 were collected.

Estimation. We derived SIPP person weights in each panel from several stages of weight adjustments. In the first wave, we gave each person a base weight equal to the inverse of his/her probability of selection. For each subsequent interview, the Bureau gave each person a base weight that accounted for following movers.

We applied a factor to each interviewed person's weight to account for the SIPP sample areas not having the same population distribution as the strata they are from.

We applied a noninterview adjustment factor to the weight of every occupant of interviewed households to account for persons in noninterviewed occupied households which were eligible for the sample. (The Bureau treated individual nonresponse within partially interviewed households with imputation. We made no special adjustment for noninterviews in group quarters.)

The Bureau used complex techniques to adjust the weights for nonresponse. For a further explanation of the techniques used, see the Nonresponse Adjustment Methods for Demographic Surveys at the U.S. Bureau of the Census, November 1988, Working paper 8823, by R. Singh and R. Petroni. The success of these techniques in avoiding bias is

unknown. An example of successfully avoiding bias can be found in "Current Nonresponse Research for the Survey of Income and Program Participation" (paper by Petroni, presented at the Second International Workshop on Household Survey Nonresponse, October 1991).

We performed an additional stage of adjustment to persons' weights to reduce the mean square errors of the survey estimates. We accomplished this by ratio adjusting the sample estimates to agree with monthly Current Population Survey (CPS) type estimates of the civilian (and some military) noninstitutional population of the United States at the national level by demographic characteristics including age, sex, and race as of the specified date. The Bureau brought CPS estimates by age, sex, and race into agreement with adjusted estimates from the 1990 decennial census. Adjustments to the 1990 decennial census estimates include an adjustment for undercount¹ and also reflect births, deaths, immigration, emigration, and changes in the Armed Forces since 1990. In addition, we controlled SIPP estimates to independent Hispanic controls and made an adjustment to assign equal weights to husbands and wives within the same household. We implemented all of the above adjustments for each reference month and the interview month.

The 1991 panel wave 6 is the first panel and wave to use the 1990 census based controls in the weighting. Weights for earlier waves were based on independent population estimates derived by updating the 1980 decennial census counts.

Tables 5 through 10 show the effect of the new population controls on:

- age,
- sex,
- race,
- Hispanic Origin,
- household type,
- mean monthly income,
- program participation,
- labor force participation, and
- health insurance coverage

by comparing the 1991 panel wave 6 estimates using 1990 census based population controls to estimates using the updated 1980 census based population controls. The 1990 decennial population counts differed somewhat from the independent estimate derived by updating the 1980 counts. The estimates show differences in the absolute numbers

¹ See "The 1990 Post-Enumeration Survey: Operations and Results" by Howard Hogan in the 1993 Proceedings of the Undercount in the 1990 Census Section, American Statistical Association.

such as 247,860,000 total nonfarm population based on the 1980 controls compared to 250,420,000 persons based on 1990 controls.

The use of the new controls may have a significant impact on the absolute numbers. However, this difference has little impact on the weighted survey estimates of summary measures (such as means and medians) and proportional measures (such as percent distributions). The distribution of households by type by race and Hispanic Origin are nearly identical, as are the distributions of persons by age by sex. The 1980 based and 1990 based estimates of mean household income were similar (\$3,526 and \$3,517, respectively). Also, the proportion of persons receiving benefits from means-tested programs (22.9 percent 1980 based compared to 23.3 percent 1990 based), the percent of persons with some labor force activity (66.2 percent 1980 based compared to 66.4 percent 1990 based), and the proportion of persons without any health insurance coverage (13.5 percent 1980 based compared to 13.7 percent 1990 based) did not show substantial differences between estimates based on different population controls.

Use of Weights. Each household and each person within each household on each wave tape has five weights. Four of these weights are reference month specific and therefore can be used only to form reference month estimates. Average reference month estimates to form estimates of monthly averages over some period of time. For example, using the proper weights, one can estimate the monthly average number of households in a specified income range over November and December 1990. To estimate monthly averages of a given measure (e.g., total, mean) over a number of consecutive months, sum the monthly estimates and divide by the number of months.

The remaining weight is interview month specific. Use this weight to form estimates that specifically refer to the interview month (e.g., total persons currently looking for work), as well as estimates referring to the time period including the interview month and all previous months (e.g., total persons who have ever served in the military).

To form an estimate for a particular month, use the reference month weight for the month of interest, summing over all persons or households with the characteristic of interest whose reference period includes the month of interest. Multiply the sum by a factor to account for the number of rotations contributing data for the month. This factor equals four divided by the number of rotations contributing data for the month. For example, December 1991 data is only available from rotations 2, 3, and 4 for Wave 1 of the 1991 panel (see table 3), so apply a factor of 4/3. To form an estimate for an interview month, use the procedure discussed above using the interview month weight provided on the file.

Apply factors greater than 1 when constructing estimates for months with four rotations worth of data from a wave file. However, when using core data from consecutive waves together, data from all four rotations may be available, in which case the factors are equal to 1.

These tapes contain no weight for characteristics that involve a persons' or household's status over two or more months (e.g., number of households with a 50 percent increase in income between November and December 1990).

Producing Estimates for Census Regions and States. The total estimate for a region is the sum of the state estimates in that region. Using this sample, estimates for individual states are subject to very high variance and are not recommended. The state codes on the file are primarily of use for linking respondent characteristics with appropriate contextual variables (e.g., state-specific welfare criteria) and for tabulating data by user-defined groupings of states.

Producing Estimates for the Metropolitan Population. For Washington, DC and 11 states, we identify metropolitan or non-metropolitan residence (variable H*-METRO). In 34 additional states, where the non-metropolitan population in the sample was small enough to present a disclosure risk, we recoded a fraction of the metropolitan sample to be indistinguishable from non-metropolitan cases (H*-METRO=2). In these states, therefore, the cases coded as metropolitan (H*-METRO=1) represent only a subsample of that population.

In producing state estimates for a metropolitan characteristic, multiply the individual, family, or household weights by the metropolitan inflation factor for that state, presented in table 11. (This inflation factor compensates for the subsampling of the metropolitan population and is 1.0 for the states with complete identification of the metropolitan population.)

The same procedure applies when creating estimates for particular identified MSA's or CMSA's--apply the factor appropriate to the state. For multi-state MSA's, use the factor appropriate to each state part. For example, to tabulate data for the Washington, DC-MD-VA MSA, apply the Virginia factor of 1.0521 to weights for residents of the Virginia part of the MSA; Maryland and DC residents require no modification to the weights (i.e., their factors equal 1.0).

In producing regional or national estimates of the metropolitan population, it is also necessary to compensate for the fact that we don't identify a metropolitan subsample within two states (Mississippi and West Virginia) and one state-group (North Dakota - South Dakota - Iowa). Thus, use factors in the right-hand column of table 11 for regional and national estimates. The results of regional and national tabulations of the metropolitan population will be biased slightly. However, less than one-half of one percent of the metropolitan population is not represented.

Producing Estimates for the Non-Metropolitan Population. State, regional, and national estimates of the non-metropolitan population cannot be computed directly, except for Washington, DC and the 11 states where the factor for state tabulations in table 11 is 1.0. In all other states, the cases identified as not in the metropolitan subsample

(METRO=2) are a mixture of non-metropolitan and metropolitan households. Only an indirect method of estimation is available: first compute an estimate for the total population, then subtract the estimates for the metropolitan population. The results of these tabulations will be slightly biased.

Combined Panel Estimates. Both the 1991 and 1990 panels provide data for October 1990-August 1992. Thus, obtain estimates for these time periods by combining the corresponding panels. However, since the Wave 1 questionnaire differs from the subsequent waves' questionnaire and since the procedures changed between the 1990 and 1991 panels, we recommend that estimates not be obtained by combining Wave 1 data of the 1991 panel with data from another panel. In this case, use the estimate obtained from either panel. Additionally, even for other waves, care should be taken when combining data from two panels since questionnaires for the two panels differ somewhat and since the length of time in sample for interviews from the two panels differ.

Obtain combined panel estimates either (1) by combining estimates derived separately for the two panels or (2) by first combining data from the two files and then producing an estimate.

1. Combining Separate Estimates

Combine corresponding estimates from two consecutive year panels to create joint estimates by using the formula

$$\hat{J} = w\hat{J}_1 + (1-w)\hat{J}_2 \quad (A)$$

\hat{J} = joint estimate (total, mean, proportion, etc);

\hat{J}_1 = estimate from the earlier panel;

\hat{J}_2 = estimate from the later panel;

w = weighting factor of the earlier panel.

To combine the 1990 and 1991 panels use a W value of 0.613 unless one of the panels contributes no information to the estimate. In that case, assign the panel contributing information a factor of 1. Assign the other a factor of zero.

2. Combining Data from Separate Files

Start by first creating a file containing the data from the two panel files. Apply the weighting factor, W, to the weight of each person from the earlier panel and apply (1-W) to the weight of each person from the later panel. Then produce estimates using the same methodology as used to obtain estimates from a single panel.

Illustration for computing combined panel estimate.

Suppose SIPP estimates for Wave 5, 1990 panel show there were 441,000 households with monthly December income above \$6,000. Also, suppose SIPP estimates for Wave 2, 1991 panel show there were 435,000 households with monthly December income above \$6,000. Using formula (A), the joint level estimate is

$$\hat{J} = (0.613)(441,000) + (0.387)(435,000) = 439,000$$

ACCURACY OF ESTIMATES

We base SIPP estimates on a sample. The sample estimates may differ somewhat from the values obtained from administering a complete census using the same questionnaire, instructions, and enumerators. The difference occurs because with an estimate based on a sample survey two types of errors are possible: nonsampling and sampling. We can provide estimates of the magnitude of the SIPP sampling error, but this is not true of nonsampling error. The next few sections describe SIPP nonsampling error sources, followed by a discussion of sampling error, its estimation, and its use in data analysis.

Nonsampling Variability. We attribute nonsampling errors to many sources, they include:

- inability to obtain information about all cases in the sample,
- definitional difficulties,
- differences in the interpretation of questions,
- inability or unwillingness on the part of the respondents to provide correct information,
- inability to recall information,
- errors made in collection (e.g. recording or coding the data),
- errors made in processing the data,

- errors made in estimating values for missing data,
- biases resulting from the differing recall periods caused by the interviewing pattern used,
- undercoverage.

We used quality control and edit procedures to reduce errors made by respondents, coders and interviewers. More detailed discussions of the existence and control of nonsampling errors in the SIPP are in the SIPP Quality Profile.

Undercoverage in SIPP resulted from missed living quarters and missed persons within sample households. It is known that undercoverage varies with age, race, and sex. Generally, undercoverage is larger for males than for females and larger for Blacks than for Nonblacks. Ratio estimation to independent age-race-sex population controls partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates when persons in missed households or missed persons in interviewed households have characteristics different from those of interviewed persons in the same age-race-sex group. Further, we didn't adjust the independent population controls for undercoverage in the Census.

A common measure of survey coverage is the coverage ratio, the estimated population before ratio adjustment divided by the independent population control. Table 12 shows CPS coverage ratios for age-sex-race groups for 1992. The CPS coverage ratios can exhibit some variability from month to month, but these are a typical set of coverage ratios. Other Census Bureau household surveys like the SIPP experience similar coverage.

Comparability with Other Estimates. Exercise caution when comparing data from this report with data from other SIPP publications or with data from other surveys. Comparability problems are from varying seasonal patterns for many characteristics, different nonsampling errors, and different concepts and procedures. Refer to the SIPP Quality Profile for known differences with data from other sources and further discussion.

Sampling Variability. Standard errors indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration, but do not measure any systematic biases in the data. The standard errors mostly measure the variations that occurred by chance because we surveyed a sample rather than the entire population.

USES AND COMPUTATION OF STANDARD ERRORS

Confidence Intervals. The sample estimate and its standard error enable one to construct confidence intervals, ranges that would include the average result of all possible samples with a known probability. For example, if we selected all possible

samples and surveyed each of these under essentially the same conditions and with the same sample design, and if we calculated an estimate and its standard error from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples.
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average result of all possible samples.

The average estimate derived from all possible samples is or is not contained in any particular computed interval. However, for a particular sample, one can say with a specified confidence that the confidence interval includes the average estimate derived from all possible samples.

Hypothesis Testing. One may also use standard errors for hypothesis testing. Hypothesis testing is a procedure for distinguishing between population characteristics using sample estimates. The most common type of hypothesis tested is 1) the population characteristics are identical versus 2) they are different. One can perform tests at various levels of significance, where a level of significance is the probability of concluding that the characteristics are different when, in fact, they are identical.

Unless noted otherwise, all statements of comparison in the report passed a hypothesis test at the 0.10 level of significance or better. This means that, for differences cited in the report, the estimated absolute difference between parameters is greater than 1.6 times the standard error of the difference.

To perform the most common test, compute the difference $X_A - X_B$, where X_A and X_B are sample estimates of the characteristics of interest. A later section explains how to derive an estimate of the standard error of the difference $X_A - X_B$. Let that standard error be s_{DIFF} . If $X_A - X_B$ is between -1.6 times s_{DIFF} and $+1.6$ times s_{DIFF} , no conclusion about the characteristics is justified at the 10 percent significance level. If, on the other hand, $X_A - X_B$ is smaller than -1.6 times s_{DIFF} or larger than $+1.6$ times s_{DIFF} , the observed difference is significant at the 10 percent level. In this event, it is commonly accepted practice to say that the characteristics are different. Of course, sometimes this conclusion will be wrong. When the characteristics are, in fact, the same, there is a 10 percent chance of concluding that they are different.

Note that as we perform more tests, more erroneous significant differences will occur. For example, at the 10 percent significance level, if we perform 100 independent hypothesis tests in which there are no real differences, it is likely that about 10 erroneous differences will occur. Therefore, interpret the significance of any single test cautiously.

Note Concerning Small Estimates and Small Differences. We show summary measures in the report only when the base is 200,000 or greater. Because of the large standard errors involved, there is little chance that estimates will reveal useful information when computed on a base smaller than 200,000. Also, nonsampling error in one or more of the small number of cases providing the estimate can cause large relative error in that particular estimate. We show estimated numbers, however, even though the relative standard errors of these numbers are larger than those for the corresponding percentages. We provide smaller estimates primarily to permit such combinations of the categories as serve each user's needs. Therefore, be careful in the interpretation of small differences since even a small amount of nonsampling error can cause a borderline difference to appear significant or not, thus distorting a seemingly valid hypothesis test.

Standard Error Parameters and Tables and Their Use. Most SIPP estimates have greater standard errors than those obtained through a simple random sample because we sampled clusters of living quarters for the SIPP. To derive standard errors at a moderate cost and applicable to a wide variety of estimates, we made a number of approximations. We grouped estimates with similar standard error behavior and developed two parameters (denoted "a" and "b") to approximate the standard error behavior of each group of estimates. Because the actual standard error behavior was not identical for all estimates within a group, the standard errors we computed from these parameters provide an indication of the order of magnitude of the standard error for any specific estimate. These "a" and "b" parameters vary by characteristic and by demographic subgroup to which the estimate applies. Use base "a" and "b" parameters found in table 13 for 1991 panel estimates. Note that for estimates which include data for wave 5 and beyond multiply the "a" and "b" parameters by 1.09 to account for sample attrition.

The factors provided in table 14 when multiplied by the base parameters of table 13 for a given subgroup and type of estimate give the "a" and "b" parameters for that subgroup and estimate type for the specified reference period. For example, the base "a" and "b" parameters for total number of households are -0.0001005 and 9,286, respectively. For Wave 1 the factor for October 1990 is 4 since only 1 rotation month of data is available. So, the "a" and "b" parameters for total household income in October 1990 based on Wave 1 are -0.0004020 and 37,144, respectively. Also for Wave 1, the factor for the first quarter of 1991 is 1.2222 since 9 rotation months of data are available (rotations 1 and 4 provide 3 rotations months each, while rotations 2 and 3 provide 1 and 2 rotation months, respectively). So the "a" and "b" parameters for total number of households in the first quarter of 1991 are -0.00001228 and 11,349, respectively for Wave 1.

Use the "a" and "b" parameters to calculate the standard error for estimated numbers and percentages. Because the actual standard error behavior was not identical for all estimates within a group, the standard errors computed from these parameters provide an indication of the order of magnitude of the standard error for any specific estimate. The following sections give methods for using these parameter for computation of approximate standard errors.

For users who wish further simplification, we also provide general standard errors in tables 15 and 18. Note that you need to adjust these standard errors by a factor from table 13. The standard errors resulting from this simplified approach are less accurate. Methods for using these parameters and tables for computation of standard errors are given in the following sections.

For the 1990, 1991 combined panel parameters, multiply the parameters in table 13 by the appropriate factor from table 22. The factors provided in table 23 adjust parameters for the number of rotation months available for a given estimate. These factors, when multiplied by the combined panel parameters derived from table 13 for a given subgroup and type of estimate, give the "a" and "b" parameters for that subgroup and estimate type for the specified combined reference period.

Table 19 provides base "a" and "b" parameters for calculating 1991 topical module variances. Table 20 provides base "a" and "b" parameters for computing the 1990, 1991 combined panel topical module variances.

Described below are procedures for calculating standard errors for the types of estimates most commonly used. Note specifically that these procedures apply only to reference month estimates or averages of reference month estimates. Refer to the section "Use of Weights" for a more detailed discussion of the construction of estimates. We included stratum codes and half sample codes on the tapes so users can compute variances directly by methods such as balanced repeated replications (BRR). William G. Cochran provides a list of references discussing the application of this technique. (See Sampling Techniques, 3rd Ed., New York: John Wiley and Sons, 1977, p. 321.)

Standard errors of estimated numbers. Obtain the approximate standard error, s_e , of an estimated number of persons, households, families, unrelated individuals and so forth, in one of two ways. Both apply when data from all four rotations are used to make the estimate. However, only the second method should be used when less than four rotations of data are available for the estimate. Note that neither method should be applied to dollar values.

The standard error may be obtained by the use of the formula

$$s_x = fs \quad (1)$$

where f is the appropriate "f" factor from table 13, and s is the standard error on the estimate obtained by interpolation from table 15 or 16. Alternatively, approximate s_x using the formula,

$$s_x = \sqrt{ax^2 + bx} \quad (2)$$

from which we calculated the standard errors in tables 15 and 16. Here x is the size of the estimate and "a" and "b" are the parameters associated with the particular type of characteristic. Use of formula 2 will provide more accurate results than the use of formula 1.

Illustration.

Suppose SIPP estimates for Wave 1 of the 1991 panel show that there were 472,000 households with monthly household income above \$6,000. The appropriate parameters and factor from table 13 and the appropriate general standard error from table 15 are

$$a = -0.0001005 \quad b = 9,286 \quad f = 1.00 \quad s = 66,000$$

Using formula 1, the approximate standard error is

$$s_x = 66,000$$

Using formula 2, the approximate standard error is

$$\sqrt{(-0.0001005)(472,000)^2 + (9,286)(472,000)} = 66,000$$

Using the standard error based on formula 2, the approximate 90-percent confidence interval as shown by the data is from 366,000 to 578,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 90% of all samples.

Illustration for computing standard errors for combined panel estimates.

Suppose the combined SIPP estimate for total number of males in the 16+ Income and Labor Force for Wave 5, 1990 panel and Wave 2, 1991 panel was 92,398,000. The combined panel parameters for total males are obtained by multiplying the appropriate "a" and "b" values from table 13 by the appropriate factors from tables 22 and 23. The 1991 parameters and factors are $a = -0.0001005$, $b = 9,286$, $g = 0.4163$ and factor =

1.0000, respectively. Thus, the combined panel parameters are $a = -0.0000418$ and $b = 3,866$. Using formula 2, the approximate standard error is

$$S = \sqrt{(-0.0000418)(92,398,000)^2 + (3866)(92,398,000)} = 19,000$$

Standard Error of a Mean. Define a mean as the average quantity of some item (other than persons, families, or households) per person, family or household. For example, it could be the average monthly household income of females age 25 to 34. Use formulas below to approximate the standard error of a mean. Because of the approximations used in developing formula 3, an estimate of the standard error of the mean obtained from this formula will generally underestimate the true standard error. The formula used to estimate the standard error of a mean \bar{x} is

$$s_{\bar{x}} = \sqrt{\left(\frac{b}{y}\right)s^2} \quad (3)$$

where y is the size of the base, s^2 is the estimated population variance of the item and b is the parameter associated with the particular type of item.

Estimate the population variance s^2 by one of two methods. In both methods we assume x_i is the value of the item for unit i . (Unit may be person, family, or household). To use the first method, divide the range of values for the item into c intervals. The upper and lower boundaries of interval j are Z_{j-1} and Z_j , respectively. Place each unit into one of c groups such that $Z_{j-1} < x_i \leq Z_j$.

The estimated population variance, s^2 , is given by the formula:

$$s^2 = \sum_{j=1}^c p_j m_j^2 - \bar{x}^2, \quad (4)$$

where p_j is the estimated proportion of units in group j , and $m_j = (Z_{j-1} + Z_j) / 2$. We assume the most representative value of the item in group j is m_j . If group c is open-ended, i.e., no upper interval boundary exists, then an approximate value for m_c is

$$m_c = \frac{3}{2} Z_{c-1}.$$

Compute the mean, \bar{x} , using the following formula:

$$\bar{x} = \sum_{j=1}^c p_j m_j.$$

In the second method, the estimated population variance is given by

$$s^2 = \frac{\sum_{i=1}^n w_i x_i^2}{\sum_{i=1}^n w_i} - \bar{x}^2, \quad (5)$$

where there are n units with the item of interest and w_i is the final weight for unit i .

Compute the mean, \bar{x} , using the formula

$$\bar{x} = \frac{\sum_{i=1}^n w_i x_i}{\sum_{i=1}^n w_i}.$$

When forming combined estimates using formula (A) from the section on combined panel estimates, calculate s^2 , given by formula (4), by forming a distribution for each panel. Divide the range of values for the item into intervals. Obtain combined estimates for each interval using formula (A). Apply formula (4) to the combined distribution. To calculate \bar{x} and s^2 given by formula (5), replace x_i by Wx_i for x_i from the earlier panel and $(1-W)x_i$ for x_i from the later panel.

Illustration.

Suppose that based on Wave 1 data, the distribution of monthly cash income for persons age 25 to 34 during the month of January 1991 is given in table 21.

Using formula 4 and the mean monthly cash income of \$2,530 the approximate population variance, s^2 , is

$$s^2 = \left(\frac{1,371}{39,851} \right) (150)^2 + \left(\frac{1,651}{39,851} \right) (450)^2 + \dots + \left(\frac{1,493}{39,851} \right) (9,000)^2 - (2,530)^2 = 3,159,887.$$

Using formula 3, the appropriate base "b" parameter and factor from table 13, the estimated standard error of a mean \bar{x} is

$$s_{\bar{x}} = \sqrt{\left(\frac{7,514}{39,851,000} \right) (3,159,887)} = \$24$$

Standard error of an aggregate. We define an aggregate as the total quantity of an item summed over all the units in a group. Approximate the standard error of an aggregate using formula 6.

Because of the approximations used in developing formula (6), it will generally underestimate the true standard error. Let y be the size of the base, s^2 be the estimated population variance of the item obtained using formula (4) or (5) and b be the parameter associated with the particular type of item. The standard error of an aggregate is:

$$s_x = \sqrt{(b) (y) s^2} \quad (6)$$

Standard Errors of Estimated Percentages. The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends on the size of the percentage and its base. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more, e.g., the percent of people employed is more reliable than the estimated number of people employed. When the numerator and denominator of the percentage have different parameters, use the parameter (and appropriate factor) of the numerator. If proportions are presented instead of percentages, note that the standard error of a proportion is equal to the standard error of the corresponding percentage divided by 100.

We commonly estimate two types of percentages. The first is the percentage of persons, families or households sharing a particular characteristic such as the percent of persons

owning their own home. The second type is the percentage of money or some similar concept held by a particular group of persons or held in a particular form. Examples are the percent of total wealth held by persons with high income and the percent of total income received by persons on welfare.

For the percentage of persons, families, or households, calculate the approximate standard error, $s_{(x,p)}$, of an estimated percentage p using the formula

$$s_{(x,p)} = fS \quad (7)$$

when estimating p using data from all four rotations.

In this formula, f is the appropriate "f" factor from table 13 and s is the standard error of the estimate from table 17 or 18.

Alternatively, approximate it by the formula:

$$s_{(x,p)} = \sqrt{\frac{b}{x} (p) (100-p)} \quad (8)$$

from which we calculated the standard errors in tables 17 and 18. Here x is the size of the subclass of social units which is the base of the percentage, p is the percentage ($0 < p < 100$), and b is the parameter associated with the characteristic in the numerator. Using this formula gives more accurate results than using formula 7 above. Use this formula to estimate p for data with less than four rotations.

Illustration.

Suppose that, in the month of January 1991, 6.7 percent of the 16,812,000 persons in nonfarm households with a mean monthly household cash income of \$4,000 to \$4,999, were black. Using formula 8 and the "b" parameter of 10,110 from table 13 and a factor of 1 for the month of January 1991 from table 14, the approximate standard error is

$$\sqrt{\frac{10,110}{(16,812,000)} (6.7) (100-6.7)} = 0.61 \text{ percent}$$

Consequently, the 90 percent confidence interval as shown by these data is from 5.7 to 7.7 percent.

Percentages of money require a more complicated formula. Estimate a percentage of money one of two ways. It may be the ratio of two aggregates:

$$P_I = 100 (X_A / X_N)$$

or it may be the ratio of two means with an adjustment for different bases:

$$P_I = 100 (\hat{P}_A \bar{X}_A / \bar{X}_N)$$

where x_A and x_N are aggregate money figures, \bar{x}_A and \bar{x}_N are mean money figures, and \hat{p}_A is the estimated number in group A divided by the estimated number in group N. In either case, we estimate the standard error as

$$s_I = \sqrt{\left(\frac{\hat{P}_A \bar{X}_A}{X_N}\right)^2 \left[\left(\frac{s_P}{\hat{P}_A}\right)^2 + \left(\frac{s_A}{\bar{X}_A}\right)^2 + \left(\frac{s_B}{\bar{X}_N}\right)^2 \right]}, \quad (9)$$

where s_p is the standard error of \hat{p}_A , s_A is the standard error of \bar{x}_A and s_B is the standard error of \bar{x}_N . To calculate s_p , use formula 8. Calculate the standard errors of \bar{x}_N and \bar{x}_A using formula 3.

Note that there is frequently some correlation between \hat{p}_A , \bar{x}_N , and \bar{x}_A .

Depending on the magnitude and sign of the correlations, the standard error will be over or underestimated.

Illustration.

Suppose that in January 1991, 9.8% of the households own rental property, the mean value of rental property is \$72,121, the mean value of assets is \$78,734, and the corresponding standard errors are 0.31%, \$5799, and \$2867. In total there are 86,790,000 households. Then, the percent of all household assets held in rental property is

$$= 100 \left((0.098) \frac{72121}{78734} \right) = 9.0\%$$

Using formula (9), the appropriate standard error is

$$\begin{aligned}
 s_r &= \sqrt{\left(\frac{(0.098)(72121)}{78734}\right)^2 \left[\left(\frac{0.0031}{0.098}\right)^2 + \left(\frac{5799}{72121}\right)^2 + \left(\frac{2867}{78734}\right)^2\right]} \\
 &= 0.008 \\
 &= 0.8\%
 \end{aligned}$$

Standard Error of a Difference. The standard error of a difference between two sample estimates, x and y , is approximately equal to

$$s_{(x-y)} = \sqrt{s_x^2 + s_y^2} \quad (10)$$

where s_x and s_y are the standard errors of the estimates x and y .

The estimates can be numbers, percents, ratios, etc. The above formula assumes that the correlation coefficient between the characteristics estimated by x and y is zero. If the correlation is really positive (negative), then this assumption will tend to cause overestimates (underestimates) of the true standard error.

Illustration.

Suppose that SIPP estimates show the number of persons age 35-44 years with monthly cash income of \$4,000 to \$4,999 was 3,186,000 in the month of January 1991 and the number of persons age 25-34 years with monthly cash income of \$4,000 to \$4,999 in the same time period was 2,619,000. Then, using parameters from table 13 and formula 2, the standard errors of these numbers are approximately 153,000 and 139,000, respectively. The difference in sample estimates is 567,000 and, using formula 10, the approximate standard error of the difference is

$$\sqrt{(153,000)^2 + (139,000)^2} = 207,000$$

Suppose that it is desired to test at the 10 percent significance level whether the number of persons with monthly cash income of \$4,000 to \$4,999 was different for persons age 35-44 years than for persons age 25-34 years. To perform the test, compare the difference of 567,000 to the product $1.6 \times 207,000 = 331,200$. Since the difference is greater than 1.6 times the standard error of the difference, the data show that the two age groups are significantly different at the 10 percent significance level.

Standard Error of a Median. The median quantity of some item such as income for a given group of persons, families, or households is that quantity such that at least half the

group have as much or more and at least half the group have as much or less. The sampling variability of an estimated median depends upon the form of the distribution of the item as well as the size of the group. Use the procedure described below to calculate standard errors on medians.

An approximate method for measuring the reliability of an estimated median is to determine a confidence interval about it. (See the section on sampling variability for a general discussion of confidence intervals.) Use the following procedure to estimate the 68-percent confidence limits and hence the standard error of a median based on sample data.

1. Determine, using either formula 7 or formula 8, the standard error of an estimate of 50 percent of the group;
2. Add to and subtract from 50 percent the standard error determined in step 1;
3. Using the distribution of the item within the group, calculate the quantity of the item such that the percent of the group with more of the item is equal to the smaller percentage found in step 2. This quantity will be the upper limit for the 68-percent confidence interval. In a similar fashion, calculate the quantity of the item such that the percent of the group with more of the item is equal to the larger percentage found in step 2. This quantity will be the lower limit for the 68-percent confidence interval;
4. Divide the difference between the two quantities determined in step 3 by two to obtain the standard error of the median.

To perform step 3, you must interpolate. You may use different methods of interpolation. The most common are simple linear interpolation and Pareto interpolation. The appropriateness of the method depends on the form of the distribution around the median. If density is declining in the area, then we recommend Pareto interpolation. If density is fairly constant in the area, then we recommend linear interpolation. Never use Pareto interpolation if the interval contains zero or negative measures of the item of interest. Use interpolation as follows. The quantity of the item such that "p" percent have more of the item is

$$X_{pN} = \exp \left[\left(\frac{\ln \left(\frac{pN}{N_1} \right)}{\ln \left(\frac{N_2}{N_1} \right)} \right) \ln \left(\frac{A_2}{A_1} \right) \right] A_1 \quad (11)$$

if Pareto Interpolation is indicated and

$$X_{pN} = \left[\frac{PN - N_1}{N_2 - N_1} (A_2 - A_1) + A_1 \right] \quad (12)$$

if linear interpolation is indicated, where

- | | |
|-----------------------------------|--|
| N | is the size of the group, |
| A ₁ and A ₂ | are the lower and upper bounds, respectively, of the interval in which X _{pN} falls, |
| N ₁ and N ₂ | are the estimated number of group members owning more than A ₁ and A ₂ , respectively, |
| exp | refers to the exponential function and |
| Ln | refers to the natural logarithm function. |

Illustration.

To illustrate the calculations for the sampling error on a median, we return to table 21. The median monthly income for this group is \$2,158. The size of the group is 39,851,000.

1. Using formula 8, the standard error of 50 percent on a base of 39,851,000 is about 0.7 percentage points.
2. Following step 2, the two percentages of interest are 49.3 and 50.7.
3. By examining table 21, we see that the percentage 49.3 falls in the income interval from 2000 to 2499. (Since 55.5% receive more than \$2,000 per month, the dollar value corresponding to 49.3 must be between \$2,000 and \$2,500). Thus, A₁ = \$2,000, A₂ = \$2,500, N₁ = 22,106,000, and N₂ = 16,307,000.

In this case, we decided to use Pareto interpolation. Therefore, the upper bound of a 68% confidence interval for the median is

$$\$2,000 \exp \left[\left(\text{Lr} \left(\frac{(.493)(39,851,000)}{22,106,000} \right) / \text{Lr} \left(\frac{16,307,000}{22,106,000} \right) \right) \text{Lr} \left(\frac{2,500}{2,000} \right) \right] = \$2181$$

Also by examining table 21, we see that 50.7 falls in the same income interval. Thus, A_1 , A_2 , N_1 and N_2 are the same. We also use Pareto interpolation for this case. So the lower bound of a 68% confidence interval for the median is

$$\$2,000 \exp \left[\left(\text{Ln} \left(\frac{(.507)(39,851,000)}{22,106,000} \right) / \text{Ln} \left(\frac{16,307,000}{22,106,000} \right) \right) \text{Ln} \left(\frac{2,500}{2,000} \right) \right] = \$2136$$

Thus, the 68-percent confidence interval on the estimated median is from \$2136 to \$2181. An approximate standard error is

$$\frac{\$2181 - \$2136}{2} = \$23$$

Standard Errors of Ratios of Means and Medians. Approximate the standard error for a ratio of means or medians by:

$$s_{\frac{x}{y}} = \sqrt{\left(\frac{x}{y}\right)^2 \left[\left(\frac{s_y}{y}\right)^2 + \left(\frac{s_x}{x}\right)^2 \right]} \quad (13)$$

where x and y are the means or medians, and s_x and s_y are their associated standard errors. Formula 13 assumes that the means are not correlated. If the correlation between the population means estimated by x and y are actually positive (negative), then this procedure will tend to produce overestimates (underestimates) of the true standard error for the ratio of means.

Table 1. 1991 Panel Topical Modules

<u>Wave</u>	<u>Topical Module</u>
1	None
2	Reciprocity History Employment History Work Disability History Education and Training History Marital History Migration History Fertility History Household Relationships
3	Child Care Arrangements Child Support Agreements Support of Non-household Members Functional Limitations and Disability Utilization of Health Care Services Work Schedule
4	Selected Financial Assets Medical Expenses and Work Disability Real Estate, Shelter Costs, Dependent Care, and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Extended Measures of Wellbeing (Consumer Durables, Living Conditions, Basic Needs, Expenditures, Minimum Income)
7	Assets and Liabilities Retirement Expectations and Pension Plan Coverage Real Estate Property and Vehicles
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing

Table 2. 1990 Panel Topical Modules

<u>Wave</u>	<u>Topical Module</u>
1	None
2	Reciency History Employment History Work Disability History Education and Training History Marital History Migration History Fertility History Household Relationships
3	Work Schedule Child Care Child Support Agreements Support of Non-household Members Functional Limitations and Disability Utilization of Health Care Services
4	Assets and Liabilities Retirement Expectations and Pension Plan Coverage Real Estate Property and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Child Support Agreements Support for Non-household Members Functional Limitations and Disability Utilization of Health Care Services Not in Labor Force Spells
7	Selected Financial Assets Medical Expenses and Work Disability Real Estate, Shelter Costs, Dependent Care and Vehicles
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing

Table 3. Reference Months for Each Interview Month - 1991 Panel

Month of Interview	Wave/Rotation	Reference Period																											
		4th Quarter (1990)			1st Quarter (1991)			2nd Quarter (1991)			3rd Quarter (1991)			4th Quarter (1991)			...	2nd Quarter (1993)			3rd Quarter (1993)								
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Apr	May	Jun	Jul	Aug	Sep						
Feb 91	1/2	X	X	X	X																								
Mar	1/3		X	X	X	X																							
Apr	1/4			X	X	X	X																						
May	1/1				X	X	X	X																					
Jun	2/2					X	X	X	X																				
Jul	2/3						X	X	X	X																			
Aug	2/4							X	X	X	X																		
Sept	2/1								X	X	X	X																	
Oct	3/2									X	X	X	X																
Nov	3/3										X	X	X	X															
Dec	3/4											X	X	X	X														
.																													
.																													
Sept 93	8/1																									X	X	X	X

Table 4. Reference Months for Each Interview Month - 1990 Panel

Month of Interview	Wave/Rotation	Reference Period																							
		4th Quarter (1989)			1st Quarter (1990)			2nd Quarter (1990)			3rd Quarter (1990)			4th Quarter (1990)			...	2nd Quarter (1992)			3rd Quarter (1992)				
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Apr	May	Jun	Jul	Aug	Sep		
Feb 90	1/2	X	X	X	X																				
Mar	1/3		X	X	X	X																			
Apr	1/4			X	X	X	X																		
May	1/1				X	X	X	X																	
Jun	2/2					X	X	X	X																
Jul	2/3						X	X	X	X															
Aug	2/4							X	X	X	X														
Sept	2/1								X	X	X	X													
Oct	3/2									X	X	X	X												
Nov	3/3										X	X	X	X											
Dec	3/4											X	X	X	X										
.																									
.																									
.																									
Sept 92	8/1																			X	X	X	X		

Table 5. Non-Farm Population by Age and Sex: 1991 Panel Wave 6

AGES	Based on 1980 census population controls						Based on 1990 census population controls					
	Total		Males		Females		Total		Males		Females	
	Number (thous.)	Distribution	Number (thous.)	Distribution	Number (thous.)	Distribution	Number (thous.)	Distribution	Number (thous.)	Distribution	Number (thous.)	Distribution
All Ages	247864	100	120730	100	127134	100	250419	100	122128	100	128292	100
Under 4 years old	19270	7.8	9813	8.1	9457	7.4	19749	7.9	10054	8.2	9695	7.6
5 to 9 years old	18568	7.5	9585	7.9	8983	7.1	18898	7.5	9757	8.0	9142	7.1
10 to 15 years old	21207	8.6	10763	8.9	10444	8.2	21720	8.7	11014	9.0	10706	8.3
16 to 24 years old	30450	12.3	15231	12.6	15219	12.0	32156	12.8	16201	13.3	15954	12.4
25 to 34 years old	41571	16.8	20619	17.1	20952	16.5	42013	16.8	20818	17.0	21195	16.5
35 to 44 years old	39163	15.8	19331	16.0	19832	15.6	39536	15.8	19540	16.0	19996	15.6
45 to 54 years old	27075	10.9	13146	10.9	13929	11.0	26763	10.7	13073	10.7	13690	10.7
55 to 64 years old	20128	8.1	9518	7.9	10610	8.3	19708	7.9	9334	7.6	10374	8.1
65 to 69 years old	9972	4.0	4564	3.8	5408	4.3	9673	3.9	4371	3.6	5302	4.1
70 to 74 years old	8013	3.2	3454	2.9	4559	3.6	7878	3.1	3347	2.7	4532	3.5
75 years old and over	12446	5.0	4706	3.9	7740	6.1	12325	4.9	4619	3.8	7706	6.0

Table 6. Household Composition by Race and Hispanic Origin: 1991 Panel Wave 6

CHARACTERISTICS	Based on 1980 census population controls						Based on 1990 census population controls									
	All Races		White		Black		Hispanic Origin		All Races		White		Black		Hispanic Origin	
	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.	Number (tens of thous.)	Dist.
All households	9610	100	8206	100	1099	100	677	100	9601	100	8190	100	1106	100	730	100
Family households	6758	70.3	5759	70.2	759	69.1	531	78.4	6760	70.4	5753	70.2	768	69.4	570	78.1
With own children under 18	3284	34.2	2711	33	429	39	335	49.5	3320	34.6	2731	33.3	443	40.1	363	49.7
Married-couple family	5280	55	4736	57.7	368	33.5	360	53.2	5280	55	4724	57.7	371	33.5	384	52.6
With own children under 18	2459	25.6	2159	26.3	187	17	232	34.3	2480	25.8	2173	26.5	193	17.5	249	34.1
Female householder	1175	12.2	779	9.5	357	32.5	137	20.2	1185	12.3	783	9.6	362	32.7	149	20.4
With own children under 18	711	7.4	454	5.5	231	21	90	13.3	723	7.5	460	5.6	238	21.5	98	13.4
Male householder	293	3	244	3	34	3.1	34	5	295	3.1	246	3	35	3.2	37	5.1
With own children under 18	114	1.2	98	1.2	11	1	13	1.9	117	1.2	98	1.2	12	1.1	16	2.2
Non family households	2851	29.7	2447	29.8	340	30.9	146	21.6	2841	29.6	2438	29.8	338	30.6	160	21.9
Living alone	2473	25.7	2119	25.8	302	27.5	121	17.9	2456	25.6	2106	25.7	299	27	132	18.1
Male householder	1252	13	1062	12.9	156	14.2	73	10.8	1250	13	1060	12.9	157	14.2	82	11.2
Living alone	1019	10.6	864	10.5	128	11.6	55	8.1	1013	10.6	859	10.5	127	11.5	62	8.5
Female householder	1600	16.6	1385	16.9	184	16.7	73	10.8	1590	16.6	1378	16.8	181	16.4	78	10.7
Living alone	1454	15.1	1255	15.3	174	15.8	66	9.7	1443	15	1247	15.2	172	15.6	70	9.6

Table 7. Selected Characteristics of Persons, by Mean Monthly Household Cash Income: Monthly Average for 1991 Panel Wave 6.

CHARACTERISTICS	Based on 1980 census population controls			Based on 1990 census population controls		
	Total (thous.)	Mean monthly cash income (dols.)		Total (thous.)	Mean monthly cash income (dols.)	
		Value	Standard error		Value	Standard error
Total	247,860	3,526	116	250,420	3,517	115
RACE AND HISPANIC ORIGIN						
White	205,980	3,670	130	207,960	3,659	129
Black	31,710	2,361	124	32,210	2,366	124
Hispanic origin	22,180	2,573	130	25,000	2,568	122
AGE						
Under 16 years old	59,050	3,332	221	60,370	3,308	218
16 to 24 years old	30,450	3,772	365	32,160	3,757	353
25 to 34 years old	41,570	3,441	230	42,010	3,432	228
35 to 44 years old	39,160	3,998	297	39,540	3,987	296
45 to 54 years old	27,060	4,443	420	26,760	4,438	422
55 to 64 years old	20,130	3,609	506	19,710	3,612	512
65 years old and over	30,430	2,293	221	29,880	2,291	223
EDUCATION						
25 years and over	158,370	3,551	145	157,900	3,548	145
Elem.: Less than 8 years	9,740	2,204	521	9,750	2,203	518
8 years	6,280	1,923	379	6,240	1,924	381
High School: 1 to 3 years	18,390	2,257	294	18,310	2,256	295
4 years	58,630	3,163	182	58,400	3,161	182
College 1 to 3 years	30,550	3,732	310	30,550	3,729	310
4 years	18,980	5,081	535	18,930	5,075	535
5 years or more	15,790	5,788	641	15,700	5,783	642
REGION						
Northeast	51,660	3,842	283	52,030	3,836	282
Midwest	62,650	3,547	222	62,790	3,547	222
South	80,100	3,106	181	81,050	3,098	179
West	53,460	3,825	264	54,560	3,801	260

Table 8. Selected Characteristics of Persons, By Program Participation Status: Monthly Average for 1991 Panel Wave 6.

CHARACTERISTICS	Based on 1980 census population controls						Based on 1990 census population controls					
	Residing in household receiving one or more means-tested program			Residing in a household receiving one or more means-tested program			Total (thous.)			Residing in a household receiving one or more means-tested program		
	Total		Percent of total	Cash benefit		Percent of total	Total		Percent of total	Cash benefit		Percent of total
	Number	Number		Number	Number		Number	Number				
Total	247,860	22.9	25,610	10.3	5,602	22.6	250,420	23.3	26,220	10.5	57,550	23.0
RACE AND HISPANIC ORIGIN												
White	205,980	18.3	14,300	6.9	37,230	18.1	207,960	18.7	14,720	7.1	38,400	18.5
Black	31,710	50.0	9,630	30.4	15,600	49.2	32,210	50.2	9,810	30.5	15,930	49.5
Hispanic origin	22,180	47.3	4,460	20.1	10,430	47.0	25,000	47.6	5,050	20.2	11,840	47.4
AGE												
Under 16 years old	59,050	36.5	9,140	15.5	21,490	36.4	60,370	37.1	9,500	15.7	22,310	37.0
16 to 24 years old	30,450	25.2	3,540	11.6	7,610	25.0	32,160	25.5	3,780	11.8	8,140	25.3
25 to 34 years old	41,570	22.5	3,570	8.6	9,280	22.3	42,010	22.7	3,620	8.6	9,460	22.5
35 to 44 years old	39,160	17.6	2,810	7.2	6,800	17.4	39,540	17.8	2,870	7.3	6,950	17.6
45 to 54 years old	27,080	12.3	1,920	7.1	3,250	12.0	26,760	12.4	1,900	7.1	3,240	12.1
55 to 64 years old	20,130	13.2	1,580	7.9	2,530	12.6	19,710	13.3	1,550	7.9	2,480	12.6
65 years old and over	30,430	17.6	3,050	10.0	5,060	16.6	29,880	17.7	2,990	10.0	4,980	16.7
EDUCATION												
25 years and over	158,370	17.4	12,920	8.2	26,920	17.0	157,900	17.6	12,940	8.2	27,100	17.2
Elem.: Less than 8 years	9,740	42.8	2,450	25.2	4,060	41.7	9,750	43.1	2,450	25.1	4,100	42.1
8 years	6,280	30.0	1,020	16.3	1,800	28.6	6,240	30.3	1,020	16.3	1,800	28.9
High School: 1 to 3 years	18,390	30.4	3,030	16.5	5,450	29.6	18,310	30.7	3,040	16.6	5,480	29.9
4 years	58,630	17.3	4,200	7.2	9,920	16.9	58,400	17.5	4,200	7.2	9,980	17.1
College 1 to 3 years	30,550	12.3	1,490	4.9	3,690	12.1	30,550	12.4	1,500	4.9	3,730	12.2
4 years	18,980	6.5	490	2.6	1,200	6.3	18,930	6.6	490	2.6	1,210	6.4
5 years or more	15,790	5.2	240	1.5	800	5.1	15,700	5.3	240	1.5	810	5.1
REGION												
Northeast	51,660	21.2	5,340	10.3	10,840	21.0	52,030	21.5	5,510	10.6	11,080	21.3
North Central	62,650	18.2	5,140	8.2	11,100	17.7	62,790	18.3	5,210	8.3	11,220	17.9
South	80,100	26.9	9,200	11.5	21,200	26.5	81,050	27.3	9,400	11.6	21,810	26.9
West	53,460	24.2	5,930	11.1	12,890	24.1	54,560	24.8	6,110	11.2	13,450	24.7

Table 9. Selected Characteristics of Persons, by Labor Force Status: Monthly Average for 1991 Panel Wave 6

LABOR FORCE ACTIVITY, AGE, AND SEX	Based on 1980 census population controls		Based on 1990 census population controls	
	Number (thous.)	Distribution	Number (thous.)	Distribution
BOTH SEXES				
Total, 16 years and over	188,819	100.0	190,053	100.0
With some labor force activity	124,945	66.2	126,127	66.4
With job entire month	114,431	60.6	115,349	60.7
Worked each week	111,399	59.0	112,298	59.1
Full-time worker	90,796	48.1	91,449	48.1
Part-time worker	20,603	10.9	20,850	11.0
Absent one or more weeks	3,032	1.6	3,051	1.6
With job part of month	2,717	1.4	2,783	1.5
Spent time looking or on layoff	1,364	0.7	1,399	0.7
No job during month	7,797	4.1	7,994	4.2
Looking for work or on layoff entire month	7,142	3.8	7,320	3.9
Looking for work or on layoff part of month	655	0.3	674	0.4
With no labor force activity	63,874	33.8	63,926	33.6
MALE				
Total, 16 years and over	90,569	100.0	91,304	100.0
With some labor force activity	67,716	74.8	68,516	75.0
With job entire month	61,818	68.3	62,456	68.4
Worked each week	60,535	66.8	61,158	67.0
Full-time worker	53,714	59.3	54,195	59.4
Part-time worker	6,821	7.5	6,962	7.6
Absent one or more weeks	1,284	1.4	1,298	1.4
With job part of month	1,373	1.5	1,415	1.5
Spent time looking or on layoff	788	0.9	811	0.9
No job during month	4,524	5.0	4,645	5.1

Table 9. cont'd Selected Characteristics of Persons, by Labor Force Status: Monthly Average for 1991 Panel Wave 6

LABOR FORCE ACTIVITY, AGE, AND SEX	Based on 1980 census population controls		Based on 1990 census population controls	
	Number (thous.)	Distribution	Number (thous.)	Distribution
Looking for work or on layoff entire month	4,286	4.7	4,399	4.8
Looking for work or on layoff part of month	238	0.3	246	0.3
With no labor force activity	22,853	25.2	22,788	25.0
FEMALE				
Total, 16 years and over	98,250	100.0	98,749	100.0
With some labor force activity	57,229	58.2	57,611	58.3
With job entire month	52,613	53.6	52,894	53.6
Worked each week	50,865	51.8	51,141	51.8
Full-time worker	37,082	37.7	37,253	37.7
Part-time worker	13,782	14.0	13,887	14.1
Absent one or more weeks	1,748	1.8	1,753	1.8
With job part of month	1,343	1.4	1,368	1.4
Spent time looking or on layoff	576	0.6	588	0.6
No job during month	3,273	3.3	3,349	3.4
Looking for work or on layoff entire month	2,856	2.9	2,920	3.0
Looking for work or on layoff part of month	416	0.4	429	0.4
With no labor force activity	41,021	41.8	41,138	41.7

Table 10. Selected Characteristics of Persons, by Health Insurance Coverage: Monthly Average for 1991 Panel Wave 6.

CHARACTERISTICS	Based on 1980 census population control					Based on 1990 census population control								
	Total (thous.)	Covered by private or government health insurance		Not covered by private or government health insurance		Total (thous.)	Covered by private or government health insurance		Not covered by private or government health insurance					
		Number	Percent of total	Number	Percent of total		Number	Percent of total	Number	Percent of total				
Total	253,050	218,940	86.5	188,780	74.6	34,110	13.5	255,610	220,500	86.3	189,830	74.3	35,110	13.7
RACE AND HISPANIC ORIGIN														
White	210,980	184,610	87.5	164,730	78.1	26,370	12.5	212,960	185,740	87.2	165,440	77.7	27,220	12.8
Black	31,800	25,880	81.4	17,090	53.7	5,920	18.6	32,300	26,260	81.3	17,390	53.8	6,040	18.7
Hispanic origin	22,380	16,100	71.9	11,470	51.3	6,280	28.1	25,220	18,070	71.6	12,850	51.0	7,150	28.4
AGE														
Under 16 years old	60,170	52,250	86.8	41,390	68.8	7,920	13.2	61,490	53,240	86.6	41,970	68.3	8,250	13.4
16 to 24 years old	31,120	24,540	78.9	21,660	69.6	6,580	21.1	32,860	25,800	78.5	22,720	69.1	7,060	21.5
25 to 34 years old	42,160	34,060	80.8	30,510	72.4	8,100	19.2	42,600	34,370	80.7	30,770	72.2	8,230	19.3
35 to 44 years old	39,950	34,260	85.8	31,770	79.5	5,690	14.2	40,320	34,530	85.6	31,990	79.3	5,790	14.4
45 to 54 years old	27,770	24,360	87.7	22,660	81.6	3,420	12.3	27,450	24,050	87.6	22,370	81.5	3,400	12.4
55 to 64 years old	20,820	18,610	89.4	16,840	80.9	2,210	10.6	20,390	18,220	89.4	16,470	80.8	2,180	10.7
65 years old and over	31,060	30,860	99.4	23,940	77.1	200	0.6	30,490	30,300	99.4	23,530	77.2	200	0.7
REGION														
Northeast	52,080	46,700	89.7	40,310	77.4	5,380	10.3	52,440	46,940	89.5	40,440	77.1	5,500	10.5
North Central	65,570	59,080	90.1	53,530	81.6	6,480	9.9	65,700	59,140	90.0	53,540	81.5	6,560	10.0
South	81,460	67,600	83.0	56,370	69.2	13,850	17.0	82,410	68,160	82.7	56,780	68.9	14,250	17.3
West	53,950	45,550	84.4	38,560	71.5	8,400	15.6	55,060	46,270	84.0	39,070	71.0	8,790	16.0

Table 11. Metropolitan Subsample Factors to be Applied to Compute National and Subnational Estimates

		Factors for use in State or CMSA (MSA) Tabulations	Factors for use in Regional or National Tabulations
Northeast:	Connecticut	1.0387	1.0387
	Maine	1.2219	1.2219
	Massachusetts	1.0000	1.0000
	New Hampshire	1.2234	1.2234
	New Jersey	1.0000	1.0000
	New York	1.0000	1.0000
	Pennsylvania	1.0096	1.0096
	Rhode Island	1.2506	1.2506
	Vermont	1.2219	1.2219
Midwest:	Illinois	1.0000	1.0110
	Indiana	1.0336	1.0450
	Iowa	---	---
	Kansas	1.2912	1.3055
	Michigan	1.0328	1.0442
	Minnesota	1.0366	1.0480
	Missouri	1.0756	1.0874
	Nebraska	1.6289	1.6468
	North Dakota	---	---
	Ohio	1.0233	1.0346
	South Dakota	---	---
Wisconsin	1.0188	1.0300	
South:	Alabama	1.1574	1.1595
	Arkansas	1.6150	1.6179
	Delaware	1.5593	1.5621
	D.C.	1.0000	1.0018
	Florida	1.0140	1.0158
	Georgia	1.0142	1.0160
	Kentucky	1.2120	1.2142
	Louisiana	1.0734	1.0753
	Maryland	1.0000	1.0018
	Mississippi	---	---
	North Carolina	1.0000	1.0018
	Oklahoma	1.0793	1.0812
	South Carolina	1.0185	1.0203
	Tennessee	1.0517	1.0536
	Texas	1.0113	1.0131
Virginia	1.0521	1.0540	
West Virginia	---	---	

- indicates no metropolitan subsample is identified for the state

Table 11 cont'd. Metropolitan Subsample Factors to be Applied to
 Compute National and Subnational Estimates

		Factors for use in State or CMSA (MSA) Tabulations	Factors for use in Regional or National Tabulations
West:	Alaska	1.4339	1.4339
	Arizona	1.0117	1.0117
	California	1.0000	1.0000
	Colorado	1.1306	1.1306
	Hawaii	1.0000	1.0000
	Idaho	1.4339	1.4339
	Montana	1.4339	1.4339
	Nevada	1.0000	1.0000
	New Mexico	1.0000	1.0000
	Oregon	1.1317	1.1317
	Utah	1.0000	1.0000
	Washington	1.0456	1.0456
	Wyoming	1.4339	1.4339

- indicates no metropolitan subsample is identified for the state

Table 12. 1991 CPS Coverage Ratios

Age	non-Black		Black		All Persons		
	Male	Female	Male	Female	Male	Female	Total
0-14	0.963	0.965	0.927	0.926	0.957	0.959	0.958
15	0.962	0.949	0.899	0.919	0.952	0.944	0.948
16	0.969	0.936	0.923	0.907	0.962	0.932	0.947
17	0.981	0.975	0.945	0.862	0.975	0.957	0.966
18	0.939	0.926	0.883	0.846	0.930	0.913	0.922
19	0.860	0.872	0.754	0.801	0.844	0.861	0.853
20-24	0.913	0.927	0.734	0.832	0.889	0.913	0.901
25-26	0.927	0.940	0.688	0.877	0.897	0.931	0.914
27-29	0.910	0.954	0.707	0.864	0.885	0.941	0.914
30-34	0.893	0.948	0.691	0.883	0.870	0.939	0.905
35-39	0.910	0.949	0.763	0.899	0.895	0.942	0.919
40-44	0.929	0.951	0.824	0.906	0.919	0.946	0.933
45-49	0.956	0.966	0.903	0.956	0.951	0.965	0.958
50-54	0.940	0.961	0.807	0.877	0.927	0.951	0.940
55-59	0.944	0.941	0.826	0.825	0.932	0.928	0.930
60-62	0.965	0.956	0.792	0.850	0.948	0.944	0.946
63-64	0.905	0.907	0.669	0.872	0.884	0.903	0.894
65-67	0.935	0.979	0.783	0.875	0.921	0.969	0.947
68-69	0.925	0.942	0.789	0.831	0.913	0.931	0.923
70-74	0.926	0.993	0.856	1.014	0.920	0.995	0.962
75-99	0.977	0.989	0.764	0.912	0.961	0.983	0.975
15+	0.928	0.953	0.782	0.883	0.912	0.944	0.929
0+	0.936	0.955	0.827	0.895	0.923	0.947	0.935

Table 13: SIPP Indirect Generalized Variance Parameters for the 1991 Panel

Characteristics ¹	Parameters		
	<u>a</u>	<u>b</u>	<u>f</u>
PERSONS			
Total or White			
16+ Program Participation and Benefits, Poverty (3)			
Both Sexes	-0.0001342	22,040	0.90
Male	-0.0002789	22,040	
Female	-0.0002587	22,040	
16+ Income and Labor Force (5)			
Both Sexes	-0.0000407	7,514	0.52
Male	-0.0000850	7,514	
Female	-0.0000778	7,514	
16+ Pension Plan ² (4)			
Both Sexes	-0.0000744	13,761	0.71
Male	-0.0001556	13,761	
Female	-0.0001425	13,761	
All Others ² (6)			
Both Sexes	-0.0001134	27,327	1.00
Male	-0.0002334	27,327	
Female	-0.0002203	27,327	
Black			
Poverty (1)			
Both Sexes	-0.0006397	18,800	0.83
Male	-0.0013668	18,800	
Female	-0.0012028	18,800	
All Others (2)			
Both Sexes	-0.0003441	10,110	0.61
Male	-0.0007350	10,110	
Female	-0.0006468	10,110	
HOUSEHOLDS			
Total or White	-0.0001005	9,286	1.00
Black	-0.0006115	6,416	0.83

¹ To account for sample attrition, multiply the a and b parameters by 1.09 for estimates which include data from Wave 5 and beyond.

For cross-tabulations, use the parameters of the characteristic with the smaller number within the parentheses.

² Use the "16+ Pension Plan" parameters for pension plan tabulations of persons 16+ in the labor force. Use the "All Others" parameters for retirement tabulations, 0+ program participation, 0+ benefits, 0+ income, and 0+ labor force tabulations, in addition to any other types of tabulations not specifically covered by another characteristic in this table.

Table 14. Factors to be Applied to Table 13 Base Parameters to Obtain Parameters for Various Reference Periods

<u># of available rotation months¹</u>	<u>factor</u>
Monthly estimate	
1	4.0000
2	2.0000
3	1.3333
4	1.0000
Quarterly estimate	
6	1.8519
8	1.4074
9	1.2222
10	1.0494
11	1.0370
12	1.0000

¹ The number of available rotation months for a given estimate is the sum of the number of rotations available for each month of the estimate.

Table 15. Standard Errors of Estimated Numbers of Households, Families or Unrelated Persons (Numbers in Thousands)

Size of Estimate	Standard Error ¹	Size of Estimate	Standard Error ¹
200	43	15,000	342
300	53	25,000	412
500	68	30,000	434
750	83	40,000	459
1,000	96	50,000	462
2,000	135	60,000	442
3,000	164	70,000	397
5,000	210	80,000	316
7,500	253	90,000	147
10,000	288	92,000	61

¹ To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 16. Standard Errors of Estimated Numbers of Persons (Numbers in Thousands)

Size of Estimate	Standard Error	Size of Estimate	Standard Error
200	74	50,000	1041
300	90	80,000	1208
600	128	100,000	1264
1,000	165	130,000	1279
2,000	233	135,000	1274
5,000	366	150,000	1244
8,000	460	160,000	1212
11,000	536	180,000	1116
13,000	580	200,000	964
15,000	620	210,000	859
17,000	657	220,000	723
22,000	739	230,000	535
26,000	796	240,000	163
30,000	847		

¹ To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 17. Standard Errors of Estimated Percentages of Households Families or Unrelated Persons

Base of Estimated Percentage (Thousands)	Estimated Percentages ¹					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	2.1	3.0	4.7	6.5	9.3	10.8
300	1.8	2.5	3.8	5.3	7.6	8.8
500	1.4	1.9	3.0	4.1	5.9	6.8
750	1.1	1.6	2.4	3.3	4.8	5.6
1,000	1.0	1.3	2.1	2.9	4.2	4.8
2,000	0.68	1.0	1.5	2.0	3.0	3.4
3,000	0.55	0.78	1.2	1.7	2.4	2.8
5,000	0.43	0.60	0.9	1.3	1.9	2.2
7,500	0.35	0.49	0.8	1.1	1.5	1.8
10,000	0.30	0.43	0.66	0.9	1.3	1.5
15,000	0.25	0.35	0.54	0.75	1.1	1.2
25,000	0.19	0.27	0.42	0.58	0.8	1.0
30,000	0.18	0.25	0.38	0.53	0.76	0.9
40,000	0.15	0.21	0.33	0.46	0.66	0.76
50,000	0.14	0.19	0.30	0.41	0.59	0.68
60,000	0.12	0.17	0.27	0.37	0.54	0.62
70,000	0.11	0.16	0.25	0.35	0.50	0.58
80,000	0.11	0.15	0.23	0.32	0.47	0.54
90,000	0.10	0.14	0.22	0.30	0.44	0.51
92,000	0.10	0.14	0.22	0.30	0.44	0.50

¹ To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 18. Standard Errors of Estimated Percentages of Persons

Base of Estimated Percentage (Thousands)	Estimated Percentages					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	3.7	5.2	8.1	11.1	16.0	18.5
300	3.0	4.2	6.6	9.1	13.1	15.1
600	2.1	3.0	4.7	6.4	9.2	10.7
1,000	1.6	2.3	3.6	5.0	7.2	8.3
2,000	1.2	1.6	2.5	3.5	5.1	5.8
5,000	0.74	1.0	1.6	2.2	3.2	3.7
8,000	0.58	0.8	1.3	1.8	2.5	2.9
11,000	0.50	0.70	1.1	1.5	2.2	2.5
13,000	0.46	0.64	1.0	1.4	2.0	2.3
17,000	0.40	0.56	0.9	1.2	1.7	2.0
22,000	0.35	0.49	0.8	1.1	1.5	1.8
26,000	0.32	0.45	0.71	1.0	1.4	1.6
30,000	0.30	0.42	0.66	0.9	1.3	1.5
50,000	0.23	0.33	0.51	0.70	1.0	1.2
80,000	0.18	0.26	0.40	0.55	0.8	0.9
100,000	0.16	0.23	0.36	0.50	0.72	0.8
130,000	0.14	0.20	0.32	0.43	0.63	0.72
200,000	0.12	0.16	0.25	0.35	0.51	0.58
220,000	0.11	0.16	0.24	0.33	0.48	0.56
230,000	0.11	0.15	0.24	0.33	0.47	0.55
240,000	0.11	0.15	0.23	0.32	0.46	0.53

¹ To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 19. 1991 Topical Module Generalized Variance Parameters¹

	<u>a</u>	<u>b</u>
Fertility		
# Women	-0.0000748	6,119
Births	-0.0000670	11,158
Educational Attainment ²		
Wave 2	-0.0000457	8,335
Wave 5	-0.0000511	9,085
Wave 8	-0.0000511	9,085
Marital Status and Person's Family Characteristics		
Some HH members	-0.0000644	12,613
All HH members	-0.0000804	15,326
Child Support		
Wave 3	-0.0000883	9,286
Support for non-household members		
Wave 3	-0.0000961	9,286
Health and Disability	-0.0000499	12,014
0-15 Child Care		
Wave 3	-0.0001340	7,514
Welfare History and AFDC		
Both sexes 18+	-0.0001241	22,040
Males 18+	-0.0002604	22,040
Females 18+	-0.0002372	22,040

¹ Use the "16+ Income and Labor Force" core parameter for tabulations of reasons for not working/reservation wage and work related income.

² The parameter also applies to the School Enrollment and Finance Topical Module Subject.

**Table 20. SIPP 1990, 1991 Combined Panel Topical Module
Generalized Variance Parameters**

	<u>a</u>	<u>b</u>
Educational Attainment		
1990 Wave 5/1991 Wave 2	-0.0000190	3,470
1990 Wave 8/1991 Wave 5	-0.0000201	3,582
Support for non-household members		
1990 Wave 6/1991 Wave 3	-0.0000400	3,866
Health and Disability		
1990 Wave 6/1991 Wave 3	-0.0000208	5,001
0-15 Child Care		
1990 Wave 6/1991 Wave 3	-0.0000558	3,128
Child Support		
1990 Wave 6/1991 Wave 3	-0.0000368	3,866

Table 21. Distribution of Monthly Cash Income Among Persons 25 to 34 Years Old

	Total	under \$300	\$300 to \$599	\$600 to \$899	\$900 to \$1,199	\$1,200 to \$1,499	\$1,500 to \$1,999	\$2,000 to \$2,499	\$2,500 to \$2,999	\$3,000 to \$3,499	\$3,500 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 and over
Thousands in interval	39,851	1371	1651	2259	2734	3452	6278	5799	4730	3723	2519	2619	1223	1493
Percent with at least as much as lower bound of interval	--	100.0	96.6	92.4	86.7	79.9	71.2	55.5	40.9	29.1	19.7	13.4	6.8	3.7

Table 22. SIPP Factors to be Applied to the 1991 Base Parameters to Obtain the 1990, 1991 Combined Panel Parameters¹

Waves to be Combined

<u>1990 panel</u>	<u>1991 panel</u>	<u>g factor²</u>
5	2	0.4163
6	3	0.4163
7	4	0.4163
8	5	0.3943

¹

When deriving estimates based on two or more waves of data from the same panel, choose the corresponding g-factor with the greatest value. Apply only this factor to the base parameter.

Table 23. Factors to be Applied to Base Parameters to Obtain Combined Panel Parameters for Estimates¹ from Various Reference Periods.

<u># of available rotation months for 2 panels combined²</u>	<u>factor</u>
Monthly Estimate	
2	4.0000
3	3.0000
4	2.0000
5	1.6667
6	1.3333
7	1.1667
8	1.0000
Quarterly Estimates	
	1.8519
12	1.5631
15	1.2222
18	1.1470
19	1.0000
24	
Annual Estimates	
	1.0000
96	

¹ Estimates are based on monthly averages.

² The number of available rotation months for a given estimate is the sum of the number of rotations available for each month of the estimate for the two panels. There must be at least one rotation month available for each month from each panel for monthly and quarterly estimates.

APPENDIX A-1

Income Source Code List

Code Income Sources

- 1 - Social Security
- 2 - U.S. Government Railroad Retirement pay
- 3 - Federal Supplemental Security Income (SSI)
- 5 - State unemployment compensation
- 6 - Supplemental Unemployment Benefits
- 7 - Other unemployment compensation (Trade Adjustment Act benefits, strike pay, other)
- 8 - Veterans compensation or pensions
- 10 - Worker's compensation
- 12 - Employer or union temporary sickness policy
- 13 - Payments from a sickness, accident or disability insurance policy purchased on your own
- 20 - Aid to Families with Dependent Children (AFDC, ADC)
- 21 - General assistance or General relief
- 23 - Foster child care payments
- 24 - Other welfare
- 25 - WIC (Women, Infants and Children) Nutrition Program
- 27 - Food stamps
- 28 - Child support payments
- 29 - Alimony payments
- 30 - Pension from company or union
- 31 - Federal Civil Service or other Federal civilian employee pensions
- 32 - U.S. Military retirement pay
- 34 - State government pensions
- 35 - Local government pensions
- 36 - Income from paid-up life insurance policies or annuities
- 37 - Estates and trusts
- 38 - Other payments for retirement, disability or survivor
- 40 - G.I. Bill/VEAP education benefits
- 41 - Other VA educational assistance
- 50 - Income assistance from a charitable group
- 51 - Money from relatives or friends
- 52 - Lump sum payments
- 53 - Income from roomers or boarders
- 54 - National Guard or Reserve pay
- 55 - Incidental or casual earnings
- 56 - Other cash income not included elsewhere
- 75 - Categories combined and recoded for confidentiality reasons
 - State Administered Supplemental Security Income (old code 4)
 - Black lung payments (old code 9)
 - State temporary sickness or disability benefits (old code 11)
 - Indian, Cuban, or Refugee Assistance (old code 22)
 - National Guard or Reserve Force retirement (old code 33)

SIPP FILES

Code Asset List

- 100 - Regular/passbook savings accounts in a bank, savings and loan or credit union
- 101 - Money market deposit accounts
- 102 - Certificates of Deposit or other savings certificates
- 103 - NOW, Super NOW or other interest earning checking accounts
- 104 - Money market funds
- 105 - U.S. Government securities
- 106 - Municipal or corporate bonds
- 107 - Other interest-earning assets
- 110 - Stocks or mutual fund shares
- 120 - Rental property
- 130 - Mortgages
- 140 - Royalties
- 150 - Other financial investments

Code Special Indicators

- 170 - Worked
- 171 - Disabled
- 172 - Medicare
- 173 - Medicaid
- 174 - U.S. Saving Bonds (E, EE)
- 175 - College Work Study
- 176 - PELL Grant
- 177 - Supplemental Educational Opportunity Grant (SEOG)
- 178 - National Direct Student Loan (NSL)
- 179 - Guaranteed Student Loan
- 180 - JTPA Training
- 181 - Employer assistance
- 182 - Fellowship/Scholarship
- 183 - Other financial aid
- 200 - VA disability rating of 100%
- 201 - VA disability of less than 100%

APPENDIX A-2

Income Sources Included in Monthly Cash Income

Earnings from Employment

Wages and salaries
Nonfarm self-employment income
Farm self-employment income

Income from Assets (Property Income)

Regular/passbook savings accounts in a bank, savings and loan or credit union
Money market deposit accounts
Certificates of Deposit or other savings certificates
NOW, Super NOW or other interest-earning checking accounts
Money market funds
U.S. Government securities
Municipal or corporate bonds
Other interest-earning assets
Stocks or mutual fund shares
Rental property
Mortgages
Royalties
Other financial investments

Other Income Sources

Social Security
U.S. Government Railroad Retirement pay
Federal Supplemental Security Income (SSI)
State Administered Supplemental Security Income
State unemployment compensation
Supplemental Unemployment Benefits
Other unemployment compensation (Trade Adjustment Act benefits, strike pay, other)
Veterans compensation or pensions
Black lung payments
Worker's compensation
State temporary sickness or disability benefits
Payments from a sickness, accident or disability insurance policy purchased on your own
Aid to Families with Dependent Children (AFDC, ADC)
General Assistance or General Relief
Indian, Cuban, or Refugee Assistance
Foster child care payments
Other welfare
Child support payments
Alimony payments
Pension from company or union
Federal Civil Service or other Federal civilian employee pensions
U.S. Military retirement pay
National Guard or Reserve Forces retirement
State government pensions
Local government pensions
Income from paid-up life insurance policies or annuities
Estates and trusts

SIPP FILES

Other payments for retirement, disability or survivor benefits
G.I. Bill/VEAP education benefits
Income assistance from a charitable group
Money from relatives or friends
Lump sum payments
Income from roomers or boarders
National Guard or Reserve pay
Incidental or casual earnings
Other cash income not included elsewhere

APPENDIX A-3

Sources of Means-Tested Benefits Covered in SIPP

Cash Benefits

Federal Supplemental Security Income (SSI)
State Administered Supplemental Security Income
Veterans' pensions
Aid to Families with Dependent Children (AFDC, ADC)
General Assistance or General Relief
Indian, Cuban, or Refugee Assistance
Other welfare
Foster child care payments

Noncash Benefits

Food Stamps
Special Supplemental Food Program for Women, Infants, and Children (WIC)
Low-Income Home Energy Assistance
Medicaid
Free or reduced price school lunches
Free or reduced price school breakfasts
Public or subsidized rental housing

APPENDIX A-4

1980 Census of Population Occupation Classification System

(The numbers in parentheses refer to the 1980 Standard Occupational Classification code equivalents. Pt means part. N.e.c. means not elsewhere classified.)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

1980
Code

Executive, Administrative, and Managerial Occupations

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	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	Managers, properties and real estate (1353)
017	Postmasters and mail superintendents (1344)
018	Funeral directors (pt 1359)
019	Managers and administrators, n.e.c. (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
	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	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, exc. construction (1473)
037	Management related occupations, n.e.c. (149)

Professional Specialty Occupations

Engineers, Architects, and Surveyors

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

SIPP FILES

058	Marine and naval architects (1637)
059	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
	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)
	Natural Scientists
069	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	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
	Health Diagnosing Occupations
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (283)
089	Health diagnosing practitioners, n.e.c. (289)
	Health Assessment and Treating Occupations
095	Registered nurses (29)
096	Pharmacists (301)
097	Dietitians (302)
	Therapists
098	Inhalation therapists (3031)
099	Occupational therapists (3032)
103	Physical therapists (3033)
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106	Physicians' assistants (304)
	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	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	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	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	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
N(156)	Teachers, elementary school (232)
P(157)	Teachers, secondary school (233)
158	Teachers, special education (235)
159	Teachers, n.e.c. (236, 239)
163	Counselors, educational and vocational (24)
	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
	Lawyers and Judges
178	Lawyers (211)
179	Judges (212)
	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	Photographers (326)
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199	Athletes (34)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS**Technicians and Related Support Occupations****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 Health technologists and technicians, n.e.c. (369)

Technologists and Technicians, Except Health**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 Surveying and mapping technicians (373)

Science Technicians

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

Technicians; Except Health, Engineering, and Science

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

Sales Occupations

- 243 Supervisors and proprietors, sales occupations (40)
- 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)
- Sales Representatives, Commodities Except Retail
 - 258 Sales engineers (421)
 - 259 Sales representatives, mining, manufacturing, and wholesale (423, 424)
- 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 Sales workers, parts (4367)
 - 274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
 - 275 Sales counter clerks (4363)
 - Q(276) Cashiers (4364)
 - 277 Street and door-to-door sales workers (4366)

- 278 News vendors (4365)
 Sales Related Occupations
 283 Demonstrators, promoters and models, sales (445)
 284 Auctioneers (447)
 285 Sales support occupations, n.e.c. (444, 446, 449)

Administrative Support Occupations, Including Clerical

- 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)
 Computer Equipment Operators
 308 Computer operators (4612)
 309 Peripheral equipment operators (4613)
 Secretaries, Stenographers, and Typists
 R(313) Secretaries (4622)
 314 Stenographers (4623)
 315 Typists (4624)
 Information Clerks
 316 Interviewers (4642)
 317 Hotel clerks (4643)
 318 Transportation ticket and reservation agents (4644)
 319 Receptionists (4645)
 323 Information clerks, n.e.c. (4649)
-
- 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 Library clerks (4694)
 335 File clerks (4696)
 336 Records clerks (4699)
 Financial Records Processing Occupations
 S(337) Bookkeepers, accounting, and auditing clerks (4712)
 338 Payroll and timekeeping clerks (4713)
 339 Billing clerks (4715)
 343 Cost and rate clerks (4716)
 344 Billing, posting, and calculating machine operators (4718)
 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)
 Communications Equipment Operators
 348 Telephone operators (4732)
 349 Telegraphers (4733)
 353 Communications equipment operators, n.e.c. (4739)
 Mail and Message Distributing Occupations
 354 Postal clerks, exc. mail carriers (4742)
 355 Mail carriers, postal service (4743)
 356 Mail clerks, exc. postal service (4744)
 357 Messengers (4745)
 Material Recording, Scheduling, and Distributing Clerks
 359 Dispatchers (4751)

SIPP FILES

- 363 Production coordinators (4752)
- 364 Traffic, shipping, and receiving clerks (4753)
- 365 Stock and inventory clerks (4754)
- 366 Meter readers (4755)
- 368 Weighers, measurers, and checkers (4756)
- 369 Samplers (4757)
- 373 Expeditors (4758)
- 374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)
- 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)
- Miscellaneous Administrative Support Occupations
- 379 General office clerks (463)
- 383 Bank tellers (4791)
- 384 Proofreaders (4792)
- 385 Data-entry keyers (4793)
- 386 Statistical clerks (4794)
- 387 Teachers' aides (4795)
- 389 Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

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)
- T(407) Private household cleaners and servants (502, 507, 509)

Protective Service Occupations

- Supervisors, Protective Service Occupations
- 413 Supervisors, firefighting and fire prevention occupations (5111)
- 414 Supervisors, police and detectives (5112)
- 415 Supervisors, guards (5113)
- Firefighting and Fire Prevention Occupations
- 416 Fire inspection and fire prevention occupations (5122)
- 417 Firefighting occupations (5123)
- Police and Detectives
- 418 Police and detectives, public service (5132)
- 423 Sheriffs bailiffs, and other law enforcement officers (5134)
- 424 Correctional institution officers (5133)
- Guards
- 425 Crossing guards (5142)
- 426 Guards and police, exc. public service (5144)
- 427 Protective service occupations, n.e.c. (5149)

Service Occupations, Except Protective and Household

- Food Preparation and Service Occupations
- 433 Supervisors, food preparation and service occupations (5211)
- 434 Bartenders (5212)
- U(435) Waiters and waitresses (5213)

436	Cooks, except short order (5214)
437	Short-order cooks (5215)
438	Food counter, fountain and related occupations (5216)
439	Kitchen workers, food preparation (5217)
443	Waiters' /waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
	Health Service Occupations
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
	Cleaning and Building Service Occupations, except Household
448	Supervisors, cleaning and building service workers (5241)
449	Maids and housemen (5242, 5249)
V(453)	Janitors and cleaners (5244)
454	Elevator operators (5245)
455	Pest control occupations (5246)
	Personal Service Occupations
456	Supervisors, personal service occupations (5251)
457	Barbers (5252)
458	Hairdressers and cosmetologists (5253)
459	Attendants, amusement and recreation facilities (5254)
463	Guides (5255)
464	Ushers (5256)
465	Public transportation attendants (5257)
466	Baggage porters and bellhops (5262)
467	Welfare service aides (5263)
468	Child care workers, except private household (5264)
469	Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm Operators and Managers

W(473)	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)

Other Agricultural and Related Occupations

	Farm Occupations, Except Managerial
477	Supervisors, farm workers (5611)
479	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
	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	Inspectors, agricultural products (5627)

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)

Fishers, Hunters, and Trappers

- 497 Captains and other officers, fishing vessels (pt 8241)
- 498 Fishers (583)
- 499 Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**Mechanics and Repairers**

- 503 Supervisors, mechanics and repairers (60)
- Mechanics and Repairers, Except Supervisors
 - Vehicle and Mobile Equipment Mechanics and Repairers
 - X(505) Automobile mechanics (pt 6111)
 - 506 Automobile mechanic apprentices (pt 6111)
 - 507 Bus, truck, and stationary engine mechanics (6112)
 - 508 Aircraft engine mechanics (6113)
 - 509 Small engine repairers (6114)
 - 514 Automobile body and related repairers (6115)
 - 515 Aircraft mechanics, exc. engine (6116)
 - 516 Heavy equipment mechanics (6117)
 - 517 Farm equipment mechanics (6118)
 - 518 Industrial machinery repairers (613)
 - 519 Machinery maintenance occupations (614)
 - Electrical and Electronic Equipment Repairers
 - 523 Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
 - 525 Data processing equipment repairers (6154)
 - 526 Household appliance and power tool repairers (6156)
 - 527 Telephone line installers and repairers (6157)
 - 529 Telephone installers and repairers (6158)
 - 533 Miscellaneous electrical and electronic equipment repairers (6152, 6159)
 - 534 Heating, air conditioning, and refrigeration mechanics (6161)
 - Miscellaneous Mechanics and Repairers
 - 535 Camera, watch, and musical instrument repairers (6171, 6172)
 - 536 Locksmiths and safe repairers (6173)
 - 538 Office machine repairers (6174)
 - 539 Mechanical controls and valve repairers (6175)
 - 543 Elevator installers and repairers (6176)
 - 544 Millwrights (6178)
 - 547 Specified mechanics and repairers, n.e.c. (6177, 6179)
 - 549 Not specified mechanics and repairers

Construction Trades**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	Supervisors, n.e.c. (6311, 6318)
	Construction Trades, Except Supervisors
563	Brickmasons and stonemasons (pt 6412, pt 6413)
564	Brickmason and stonemason apprentices (pt 6412, pt 6413)
565	Tile setters, hard and soft (6414, pt 6462)
566	Carpet installers (pt 6462)
Y(567)	Carpenters (pt 6422)
569	Carpenter apprentices (pt 6422)
573	Drywall installers (6424)
575	Electricians (pt 6432)
576	Electrician apprentices (pt 6432)
577	Electrical power installers and repairers (6433)
579	Painters, construction and maintenance (6442)
583	Paperhangers (6443)
584	Plasterers (6444)
585	Plumbers, pipefitters, and steamfitters (pt 645)
587	Plumber, pipefitter, and steamfitter apprentices (pt 645)
588	Concrete and terrazzo finishers (6463)
589	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	Construction trades, n.e.c. (6467, 6475, 6476, 6479)
	Extractive Occupations
613	Supervisors, extractive occupations (632)
614	Drillers, oil well (652)
615	Explosives workers (653)
616	Mining machine operators (654)
617	Mining occupations, n.e.c. (656)
	Precision Production Occupations
633	Supervisors, production occupations (67, 71)
	Precision Metal Working Occupations
634	Tool and die makers (pt 6811)
635	Tool and die maker apprentices (pt 6811)
636	Precision assemblers, metal (6812)
637	Machinists (pt 6813)
639	Machinist apprentices (pt 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	Precious stones and metals workers (Jewelers) (6822, 6866)
649	Engravers, metal (6823)
653	Sheet metal workers (pt 6824)
654	Sheet metal worker apprentices (pt 6824)
655	Miscellaneous precision metal workers (6829)
	Precision Woodworking Occupations
656	Patternmakers and model makers, wood (6831)
657	Cabinet makers and bench carpenters (6832)
658	Furniture and wood finishers (6835)
659	Miscellaneous precision woodworkers (6839)
	Precision Textile, Apparel, and Furnishings Machine Workers
666	Dressmakers (pt 6852, pt 7752)

SIPP FILES

- 667 Tailors (pt 6852)
- 668 Upholsterers (6853)
- 669 Shoe repairers (6854)
- 673 Apparel and fabric patternmakers (6856)
- 674 Miscellaneous precision apparel and fabric workers (6859, pt 7752)
- 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, pt 7477, pt 7677)
- 678 Dental laboratory and medical appliance technicians (6865)
- 679 Bookbinders (6844)
- 683 Electrical and electronic equipment assemblers (6867)
- 684 Miscellaneous precision workers, n.e.c. (6869)
- Precision Food Production Occupations
- 686 Butchers and meat cutters (6871)
- 687 Bakers (6872)
- 688 Food batchmakers (6873, 6879)
- Precision Inspectors, Testers, and Related Workers
- 689 Inspectors, testers, and graders (6881, 828)
- 693 Adjusters and calibrators (6882)
- Plant and System Operators
- 694 Water and sewage treatment plant operators (691)
- 695 Power plant operators (pt 693)
- 696 Stationary engineers (pt 693, 7668)
- 699 Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors

- Machine Operators and Tenders, except Precision
- 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 Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
- 713 Forging machine operators (7319, 7519)
- 714 Numerical control machine operators (7326)
- 715 Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
- 717 Fabricating machine operators, n.e.c. (7339, 7539)
- Metal and Plastic Processing Machine Operators
- 719 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)
- 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 Nailing and tacking machine operators (7636)
- 733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)

Printing Machine Operators

- 734 Printing machine operators (7443, 7643)
- 735 Photoengravers and lithographers (6842, 7444, 7644)
- 736 Typesetters and compositors (6841, 7642)
- 737 Miscellaneous printing machine operators (6849, 7449, 7649)

Textile, Apparel, and Furnishings Machine Operators

- 738 Winding and twisting machine operators (7451, 7651)
- 739 Knitting, looping, taping, and weaving machine operators (7452, 7652)
- 743 Textile cutting machine operators (7654)
- 744 Textile sewing machine operators (7655)
- 745 Shoe machine operators (7656)
- 747 Pressing machine operators (7657)
- 748 Laundering and dry cleaning machine operators (6855, 7658)
- 749 Miscellaneous textile machine operators (7459, 7659)

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 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 Furnace, kiln, and oven operators, exc. food (7675)
- 768 Crushing and grinding machine operators (pt 7477, pt 7677)
- 769 Slicing and cutting machine operators (7478, 7678)
- 773 Motion picture projectionists (pt 7479)
- 774 Photographic process machine operators (6863, 6868, 7671)
- 777 Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
- 779 Machine operators, not specified

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 Hand molding, casting, and forming occupations (7754, 7755)
- 789 Hand painting, coating, and decorating occupations (7756)
- 793 Hand engraving and printing occupations (7757)
- 794 Hand grinding and polishing occupations (7758)
- 795 Miscellaneous hand working occupations (7759)

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 Graders and sorters, exc. agricultural (785)

Transportation and Material Moving Occupations**Motor Vehicle Operators**

- 803 Supervisors, motor vehicle operators (8111)
- 804 Truck drivers, heavy (8212, 8213)
- 805 Truck drivers, light (8214)
- 806 Driver-sales workers (8218)
- 808 Bus drivers (8215)

SIPP FILES

- 809 Taxicab drivers and chauffeurs (8216)
- 813 Parking lot attendants (874)
- 814 Motor transportation occupations, n.e.c. (8219)
- Transportation Occupations, Except Motor Vehicles
- Rail Transportation Occupations
- 823 Railroad conductors and yardmasters (8113)
- 824 Locomotive operating occupations (8232)
- 825 Railroad brake, signal, and switch operators (8233)
- 826 Rail vehicle operators, n.e.c. (8239)
- Water Transportation Occupations
- 828 Ship captains and mates, except fishing boats (pt 8241, 8242)
- 829 Sailors and deckhands (8243)
- 833 Marine engineers (8244)
- 834 Bridge, lock, and lighthouse tenders (8245)
- Material Moving Equipment Operators
- 843 Supervisors, material moving equipment operators (812)
- 844 Operating engineers (8312)
- 845 Longshore equipment operators (8313)
- 848 Hoist and winch operators (8314)
- 849 Crane and tower operators (8315)
- 853 Excavating and loading machine operators (8316)
- 855 Grader, dozer, and scraper operators (8317)
- 856 Industrial truck and tractor equipment operators (8318)
- 859 Miscellaneous material moving equipment operators (8319)

Handlers, Equipment Cleaners, Helpers, and Laborers

- 863 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
- 864 Helpers, mechanics and repairers (863)
- Helpers, Construction and Extractive Occupations
- 865 Helpers, construction trades (8641-8645, 8648)
- 866 Helpers, surveyor (8646)
- 867 Helpers, extractive occupations (865)
- 869 Construction laborers (871)
- 873 Production helpers (861, 862)
- Freight, Stock, and Material Handlers
- 875 Garbage collectors (8722)
- 876 Stevedores (8723)
- 877 Stock handlers and baggers (8724)
- 878 Machine feeders and offbearers (8725)
- 883 Freight, stock, and material handlers, n.e.c. (8726)
- 885 Garage and service station related occupations (873)
- 887 Vehicle washers and equipment cleaners (875)
- 888 Hand packers and packagers (8761)
- 889 Laborers, except construction (8769)
- 905 Member of the Armed Forces

APPENDIX A-5

1980 Census of Population Industry Classification System

(Alphabets parentheses are the 1972 SIC code equivalents 1)

Census
Code

AGRICULTURE, FORESTRY, AND FISHERIES

- 010 (A) Agricultural production, crops (01)
- 011 Agricultural production, livestock (02)
- 020 Agricultural services, except horticultural (07, except 078)
- 021 Horticultural services (078)
- 030 Forestry (08)
- 031 Fishing, hunting, and trapping (09)

MINING

- 040 Metal mining (10)
- 041 Coal mining (11, 12)
- 042 Crude petroleum and natural gas extraction (13)
- 050 Nonmetallic mining and quarrying, except fuel (14)

- 060 (B) CONSTRUCTION (15, 16, 17)

MANUFACTURING

Nondurable Goods

Food and kindred products

- 100 Meat products (201)
- 101 Dairy products (202)
- 102 Canned and preserved fruits and vegetables (203)
- 110 Grain mill products (204)
- 111 Bakery products (205)
- 112 Sugar and confectionery products (206)
- 120 Beverage industries (208)
- 121 Miscellaneous food preparations and kindred products (207, 209)
- 122 Not specified food industries
- 130 Tobacco manufactures (21)

Textile mill products

- 132 Knitting mills (225)
- 140 Dyeing and finishing textiles, except wool and knit goods (226)
- 141 Floor coverings, except hard surface (227)
- 142 Yarn, thread, and fabric mills (221-224, 228)
- 150 Miscellaneous textile mill products (229)

1 See Executive Office of the President, Office of Management and Budget, Standard Industrial Classification Manual, 1972 and the 1977 Supplement.

SIPP FILES

- Apparel and other finished textile products
- 151 Apparel and accessories, except knit (231-238)
- 152 Miscellaneous fabricated textile products (239)
- Paper and allied products
- 160 Pulp, paper, and paperboard mills (261-263, 266)
- 161 Miscellaneous paper and pulp products (264)
- 162 Paperboard containers and boxes (265)
- Printing, publishing, and allied industries
- 171 (C) Newspaper publishing and printing (271)
- 172 Printing, publishing, and allied industries, except newspapers (272-279)
- Chemicals and allied products
- 180 Plastics, synthetics, and resins (282)
- 181 Drugs (283)
- 182 Soaps and cosmetics (284)
- 190 Paints, varnishes, and related products (287)
- 191 Agricultural chemicals (287)
- 192 Industrial and miscellaneous chemicals (281, 286, 289)
- Petroleum and coal products
- 200 Petroleum refining (291)
- 201 Miscellaneous petroleum and coal products (295, 299)
- Rubber and miscellaneous plastics products
- 210 Tires and inner tubes (301)
- 211 Other rubber products, and plastics footwear and belting (302-304, 306)
- 212 Miscellaneous plastics products (307)
- Leather and leather products
- 220 Leather tanning and finishing (311)
- 221 Footwear, except rubber and plastic (313, 314)
- 222 Leather products, except footwear (315-317, 319)

Durable Goods

- Lumber and wood products, except furniture
- 230 Logging (241)
- 231 Sawmills, planing mills, and millwork (242, 243)
- 232 Wood buildings and mobile homes (245)
- 241 Miscellaneous wood products (244, 249)
- 242 Furniture and fixtures (25)
- Stone, clay, glass, and concrete products
- 250 Glass and glass products (321-323)
- 251 Cement, concrete, gypsum, and plaster products (324, 327)
- 252 Structural clay products (325)
- 261 Pottery and related products (326)
- 262 Miscellaneous nonmetallic mineral and stone products (328, 329).
- Metal industries
- 270 Blast furnaces, steelworks, rolling and finishing mills (331)
- 271 Iron and steel foundries (332)
- 272 Primary aluminum industries (3334, part 334, 3353-3355, 3361)
- 280 Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 339)
- 281 Cutlery, handtools, and other hardware (342)
- 282 Fabricated structural metal products (344)
- 290 Screw machine products (345)
- 291 Metal forgings and stampings (346)
- 292 Ordnance (348)

- 300 Miscellaneous fabricated metal products (341, 343, 347, 349)
- 301 Not specified metal industries
- Machinery, except electrical
- 310 Engines and turbines (351)
- 311 Farm machinery and equipment (352)
- 312 Construction and material handling machines (353)
- 320 Metalworking machinery (354)
- 321 Office and accounting machines (357, except 3573)
- 322 Electronic computing equipment (3573)
- 331 Machinery, except electrical, n.e.c. (355, 356, 358, 359)
- 332 Not specified machinery
- Electrical machinery, equipment, and supplies
- 340 Household appliances (363)
- 341 Radio, T.V., and communication equipment (365, 366)
- 342 Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
- 350 Not specified electrical machinery, equipment, and supplies
- Transportation equipment
- 351 Motor vehicles and motor vehicle equipment (371)
- 352 Aircraft and parts (372)
- 360 Ship and boat building and repairing (373)
- 361 Railroad locomotives and equipment (374)
- 362 Guided missiles, space vehicles, and parts (376)
- 370 Cycles and miscellaneous transportation equipment (375, 379)
- Professional and photographic equipment, and watches
- 371 Scientific and controlling instruments (381, 382)
- 372 Optical and health services supplies (383, 384, 385)
- 380 Photographic equipment and supplies (386)
- 381 Watches, clocks, and clockwork operated devices (387)
- 382 Not specified professional equipment
- 390 Toys, amusement, and sporting goods (394)
- 391 Miscellaneous manufacturing industries (39 exc. 394)
- 392 Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

Transportation

- 400 Railroads (40)
- 401 Bus service and urban transit (41, except 412)
- 402 Taxicab service (412)
- 410 Trucking service (421, 423)
- 411 Warehousing and storage (422)
- 412 U.S. Postal Service (43)
- 420 Water transportation (44)
- 421 Air transportation (45)
- 422 Pipe lines, except natural gas (46)
- 432 Services incidental to transportation (47)
- Communications
- 440 Radio and television broadcasting (483)
- 441 Telephone (wire and radio) (481)
- 442 Telegraph and miscellaneous communication services (482, 489)
- Utilities and sanitary services
- 460 Electric light and power (491)

SIPP FILES

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

WHOLESALE TRADE

Durable Goods

- 500 Motor vehicles and equipment (501)
- 501 Furniture and home furnishings (502)
- 502 Lumber and construction materials (503)
- 510 Sporting goods, toys, and hobby goods (504)
- 511 Metals and minerals, except petroleum (505)
- 512 Electrical goods (506)
- 521 Hardware, plumbing and heating supplies (507)
- 522 Not specified electrical and hardware products
- 530 Machinery, equipment, and supplies (508)
- 531 Scrap and waste materials (5093)
- 532 Miscellaneous wholesale, durable goods (5094, 5099)

Nondurable Goods

- 540 Paper and paper products (511)
- 541 Drugs, chemicals and allied products (512, 516)
- 542 Apparel, fabrics, and notions (513)
- 550 Groceries and related products (514)
- 551 Farm products - raw materials (515)
- 552 Petroleum products (517)
- 560 Alcoholic beverages (518)
- 561 Farm supplies (5191)
- 562 Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)
- 571 Not specified wholesale trade

RETAIL TRADE

- 580 Lumber and building material retailing (521, 523)
- 581 Hardware stores (525)
- 582 Retail nurseries and garden stores (526)
- 590 Mobile home dealers (527)
- 591 (D) Department stores (531)
- 592 Variety stores (533)
- 600 Miscellaneous general merchandise stores (539)
- 601 (E) Grocery stores (541)
- 602 Dairy products stores (545)
- 610 Retail bakeries (546)
- 611 Food stores, n.e.c. (542, 543, 544, 549)
- 612 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)
- 630 Apparel and accessory stores, except shoe (56, except 566)
- 631 Shoe stores (566)

- 632 Furniture and home furnishings stores (571)
- 640 Household appliances, TV, and radio stores (572, 573)
- 641 (F) Eating and drinking places (58)
- 642 Drug stores (591)
- 650 Liquor stores (592)
- 651 Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
- 652 Book and stationery stores (5942, 5943)
- 660 Jewelry stores (5944)
- 661 Sewing, needlework and piece goods stores (5949)
- 662 Mail order houses (5961)
- 670 Vending machine operators (5962)
- 671 Direct selling establishments¹ establishments (5963)
- 672 Fuel and ice dealers (598)
- 681 Retail florists (5992)
- 682 Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)
- 691 Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

- 700 (G) Banking (60)
- 701 Savings and loan associations (612)
- 702 Credit agencies, n.e.c. (61, except 612)
- 710 Security, commodity brokerage, and investment companies (62, 67)
- 711 (H) Insurance (63, 64)
- 712 Real estate, including real estate-insurance-law offices (65, 66)

BUSINESS AND REPAIR SERVICES

- 721 Advertising (731)
- 722 Services to dwellings and other buildings (734)
- 730 Commercial research, development, and testing labs (7391, 7397)
- 731 Personnel supply services (736)
- 732 Business management and consulting services (7392)

- 740 Computer and data processing services (737)
- 741 Detective and protective services (7393)
- 742 Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399)
- 750 Automotive services, except repair (751, 752, 754)
- 751 Automotive repair shops (753)
- 752 Electrical repair shops (762, 7694)
- 760 Miscellaneous repair services (763, 764, 7692, 7699)

PERSONAL SERVICES

- 761 (J) Private households (88)
- 762 Hotels and motels (701)
- 770 Lodging places, except hotels and motels (702, 703, 704)
- 771 Laundry, cleaning, and garment services (721)
- 772 Beauty shops (723)
- 780 Barber shops (724)
- 781 Funeral service and crematories (726)
- 782 Shoe repair shops (725)
- 790 Dressmaking shops (part 729)

SIPP FILES

791 Miscellaneous personal services (722, part 729)

ENTERTAINMENT AND RECREATION SERVICES

800 Theaters and motion pictures (78, 792)

801 Bowling alleys, billiard and pool parlors (793)

802 Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

812 Offices of physicians (801, 803)

820 Offices of dentists (802)

821 Offices of chiropractors (8041)

822 Offices of optometrists (8042)

830 Offices of health practitioners, n.e.c. (8049)

831 (K) Hospitals (806)

832 Nursing and personal care facilities (805)

840 Health services, n.e.c. (807, 808, 809)

841 Legal services (81)

842 (L) Elementary and secondary schools (821)

850 (M) Colleges and universities (822)

851 Business, trade, and vocational schools (824)

852 Libraries (823)

860 Educational services, n.e.c. (829)

861 Job training and vocational rehabilitation services (833)

862 Child day care services (835)

870 Residential care facilities, without nursing (836)

871 Social services, n.e.c. (832, 839)

872 Museums, art galleries, and zoos (84)

880 Religious organizations (866)

881 Membership organizations (861-865, 869)

882 Engineering, architectural, and surveying services (891)

890 Accounting, auditing, and bookkeeping services (893)

891 Noncommercial educational and scientific research (892)

892 Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

900 Executive and legislative offices (911-913)

901 General government, n.e.c. (919)

910 Justice, public order, and safety (92)

921 Public finance, taxation, and monetary policy (93)

922 Administration of human resources programs (94)

930 Administration of environmental quality and housing programs (95)

931 Administration of economic programs (96)

932 National security and international affairs (97)

991 Member of the Armed Forces

INTRODUCTION

INITIAL VISIT - Hello, I am (Field Representative's name) from the United States Bureau of the Census. Here is my identification card. We are conducting a survey on the economic situation of people who live in the United States. I have some questions to ask you. Did you receive our letter?

RETURN VISIT - Hello, I am (Field Representative's name) from the United States Bureau of the Census. Here is my identification card. Several months ago this household was contacted concerning a survey on the economic situation of people who live in the United States. I have some further questions to ask on this subject. Did you receive our letter? Update items 16a and 16b if appropriate. Item GO TOTITEM 21 on page 2.

During the past 12 months the dollar sales of from this place amount to \$1,000 or more? 1 Yes 2 No

12 LAND USE 12a Follow instructions for box that is marked 1 URBAN - SKIP to item 13 2 RURAL - ASK item 12b

16 CHARACTERISTICS OF UNIT - UPDATE/VERIFY EACH WAVE 16a Is the Federal, State or local government paying part of the rent for this residence? 1 Yes 2 No

15 TENURE 15a Are your living quarters - 1 Owned or being bought by you or someone in your household? 2 Rented for cash? 3 Occupied without payment of cash rent?

14 UNITS IN STRUCTURE 14a How many housing units both occupied and vacant, are there in this structure? 1 Only OTHER units 2 Mobile home or trailer 3 One, detached 4 One, attached 5 Two 6 Three 7 Four 8 Five 9 Six 10 Seven 11 Eight or more

13d OTHER unit 8 Quarters not HU 9 Unit not permanent in transient hotel, motel, etc. 10 Unoccupied site for mobile home, trailer, or tent 11 OTHER unit not specified above

13c HOUSING unit 1 House, apartment, flat 2 HU, in nontransient hotel, motel, etc. 3 HU, permanent in transient hotel, motel, etc. 4 HU, in rooming house 5 Mobile home or trailer with NO permanent room added 6 Mobile home or trailer with one or more permanent rooms added 7 HU not specified above

13a CLASSIFICATION OF LIVING QUARTERS - Mark by observation 13b FIELD REPRESENTATIVE CHECK ITEM 1 In a Special Place - Refer to Table A in Part C of manual and mark appropriate box in either 13c or 13d 2 NOT in a Special Place

13b ACCESS 1 Direct - Go to item 13c 2 Through another unit - Not a separate HU; combine with unit through which access is gained. Apply merged unit procedures, if appropriate.

36 HOUSEHOLD FINAL INTERVIEW STATUS - Complete after interview 37 CHARACTERISTICS OF TYPE A OR D HOUSEHOLD 37a Race of reference person 37b Sex of reference person 37c Size of household - Count all children and adults

38 RECORD OF VISITS, CONTROL CARD RESPONDENT PERSON NUMBER AND APPOINTMENTS 39 FUTURE CONTACTS - Read flashback T and RI 39a - c. Verify and update for waves 2 - 8. 39b What is your telephone number? 39c What is the best time to call or visit? 39d What is the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

11 GEOGRAPHIC LOCATION - FILL ON MOVER'S NEW CONTROL CARD 11a Is this address within the limits of a city, town, or village? 1 Yes 2 No

11b Address as follows: 1 Within a SIPP PSU 2 30-74 3 75-49 4 50-74 5 75-100 6 100+

11c Is this residence in a public housing project, that is, is it owned by a local housing authority? 1 Yes 2 No

16b Is the Federal, State or local government paying part of the rent for this residence? 1 Yes 2 No

NOTES

CODES FOR HOUSEHOLD INTERVIEW STATUS

Wave 1 interview status

Wave 2-8 interview status

Control Card

TRANSCRIPTION ITEMS (Card _____ of _____)

FIELD REPRESENTATIVE INSTRUCTIONS These columns are to be filled after the interview. Fill a column for each household member listed in Household Roster who is age 15 or older.

C O L	40 Person number	41 Name	W1	W2	W3	W4	W5	W6	W7	W8	40 Person number	41 Name	W1	W2	W3	W4	W5	W6	W7	W8	
																					42 Name of Employer
EMPLOYMENT																					
1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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34B MOVERS **PGM 4, Cont'd** **35 MERGED HOUSEHOLD MATCH TABLE**

Person number(s)	Entire HH moved <input type="checkbox"/> - If box is marked fill 34b	New telephone number
New address - Number and street	State	ZIP Code
City	State	ZIP Code
Other identification	Wave move discovered	
Person number(s)	New telephone number	
New address - Number and street	State	ZIP Code
City	State	ZIP Code
Other identification	Wave move discovered	
Person number(s)	New telephone number	
New address - Number and street	State	ZIP Code
City	State	ZIP Code
Other identification	Wave move discovered	
Person number(s)	New telephone number	
New address - Number and street	State	ZIP Code
City	State	ZIP Code
Other identification	Wave move discovered	

<p>34C If entire household moves, try to determine: Is the address within the limits of a city, town, or village? 1 <input type="checkbox"/> Yes - What is the name? 2 <input type="checkbox"/> No - Not within the limits of a city, town, or village</p>	<p>NEW PERSON NUMBER</p> <table border="1"> <tr><td>(a)</td><td>0056</td><td>0058</td><td>0060</td><td>0062</td><td>0064</td><td>0066</td><td>0068</td></tr> <tr><td>(b)</td><td>0070</td><td>0072</td><td>0074</td><td>0076</td><td>0078</td><td>0080</td><td>0082</td></tr> <tr><td>(c)</td><td>0084</td><td>0086</td><td>0088</td><td>0090</td><td>0092</td><td>0094</td><td>0096</td></tr> <tr><td>(d)</td><td>0098</td><td>0100</td><td>0102</td><td>0104</td><td>0106</td><td>0108</td><td>0110</td></tr> <tr><td>(e)</td><td>0112</td><td>0114</td><td>0116</td><td>0118</td><td>0120</td><td>0122</td><td>0124</td></tr> <tr><td>(f)</td><td>0126</td><td>0128</td><td>0130</td><td>0132</td><td>0134</td><td>0136</td><td>0138</td></tr> <tr><td>(g)</td><td>0140</td><td>0142</td><td>0144</td><td>0146</td><td>0148</td><td>0150</td><td>0152</td></tr> <tr><td>(h)</td><td>0154</td><td>0156</td><td>0158</td><td>0160</td><td>0162</td><td>0164</td><td>0166</td></tr> </table>	(a)	0056	0058	0060	0062	0064	0066	0068	(b)	0070	0072	0074	0076	0078	0080	0082	(c)	0084	0086	0088	0090	0092	0094	0096	(d)	0098	0100	0102	0104	0106	0108	0110	(e)	0112	0114	0116	0118	0120	0122	0124	(f)	0126	0128	0130	0132	0134	0136	0138	(g)	0140	0142	0144	0146	0148	0150	0152	(h)	0154	0156	0158	0160	0162	0164	0166
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(h)	0154	0156	0158	0160	0162	0164	0166																																																										

<p>COES FOR 19b</p> <p>ENTERED - This Wave</p> <p>01 - Reference Person WITH relatives in household</p> <p>02 - Reference Person with NO relatives in household</p> <p>03 - Husband/Wife</p> <p>04 - Natural/Adopted child</p> <p>05 - Stepchild</p> <p>06 - Foster child</p> <p>07 - Grandchild</p> <p>08 - Parent</p> <p>09 - Brother/Sister</p> <p>10 - Other relative of Reference Person</p> <p>11 - Non-relative of Reference Person WITH household</p> <p>12 - Partner/Roommate</p> <p>13 - Non-relative of Reference Person (other than partner/roommate) with NO DWN relatives in household</p>	<p>ENTERED CODES FOR 23</p> <p>Left - This Wave</p> <p>05 - Deceased</p> <p>06 - Institutionalized</p> <p>07 - Living in Armed Forces barracks</p> <p>08 - Moved outside of country</p> <p>09 - Separation or divorce</p> <p>10 - Person number 201 + no longer living with sample person</p> <p>11 - Other</p> <p>12 - Use this code if instructed by your office</p> <p>99 - Listed in error</p> <p>Left - Should have been deleted in a previous wave</p> <p>25 - Deceased</p> <p>26 - Institutionalized</p> <p>27 - Living in Armed Forces barracks</p> <p>28 - Moved outside of country</p> <p>29 - Separation or divorce</p> <p>30 - 201 + person no longer living with sample person</p> <p>31 - Other</p>	<p>COES FOR 29</p> <p>1 - White</p> <p>2 - Black</p> <p>3 - American Indian, Eskimo or Aleut</p> <p>4 - Asian or Pacific Islander</p> <p>5 - Other - Specify below -</p> <p>Person No. Specify race</p>
<p>COES FOR 30</p> <p>01 - German</p> <p>02 - English</p> <p>03 - Irish</p> <p>04 - French</p> <p>05 - Italian</p> <p>06 - Scottish</p> <p>07 - Polish</p> <p>08 - Dutch</p> <p>09 - Swedish</p> <p>10 - Norwegian</p> <p>11 - Russian</p> <p>12 - Ukrainian</p> <p>13 - Welsh</p> <p>14 - Mexican-American</p> <p>15 - Chicano</p> <p>16 - Mexican</p> <p>17 - Puerto Rican</p> <p>18 - Cuban</p> <p>19 - Central or South American (Spanish speaking)</p> <p>20 - Other Spanish</p> <p>21 - American (Black or Negro) group not listed</p> <p>30 - Another group</p> <p>39 - Don't know</p>	<p>LEFT CODES FOR 23</p> <p>Left - This Wave</p> <p>05 - Deceased</p> <p>06 - Institutionalized</p> <p>07 - Living in Armed Forces barracks</p> <p>08 - Moved outside of country</p> <p>09 - Separation or divorce</p> <p>10 - Person number 201 + no longer living with sample person</p> <p>11 - Other</p> <p>12 - Use this code if instructed by your office</p> <p>99 - Listed in error</p> <p>Left - Should have been deleted in a previous wave</p> <p>25 - Deceased</p> <p>26 - Institutionalized</p> <p>27 - Living in Armed Forces barracks</p> <p>28 - Moved outside of country</p> <p>29 - Separation or divorce</p> <p>30 - 201 + person no longer living with sample person</p> <p>31 - Other</p>	<p>COES FOR 32b</p> <p>If more than one code applies, start with lowest number and enter codes in ascending order. Thus, if person served in Vietnam and in Korea enter "1", "5" and then "2".</p> <p>1 - Vietnam Era (Aug. '64 - April '75)</p> <p>2 - Korean Conflict (June '50 - Jan. '55)</p> <p>3 - World War I (Sep. '17 - Nov. '18)</p> <p>4 - World War II (Dec. '41 - Aug. '45)</p> <p>5 - May 1975 to August 1980</p> <p>6 - September 1980 or later</p> <p>7 - Other Service (All other periods)</p>

Section 5 - TOPICAL MODULES

Part A - CONSUMER DURABLES

**CHECK
ITEM T1**

Is this the Reference Person's
questionnaire?

8000

- 1 Yes
2 No - *SKIP to Check Item C1, page 63*

IF PERSONAL VISIT, SHOW FLASHCARD AA

1. Which of the following items do you currently have in your home (OR building) that are in working condition?

a. Washing machine

8002

- 1 Yes
2 No
x1 DK

b. Clothes dryer

8006

- 1 Yes
2 No
x1 DK

c. Dish washer

8010

- 1 Yes
2 No
x1 DK

d. Refrigerator

8014

- 1 Yes
2 No
x1 DK

e. Food freezer (separate from refrigerator)

8018

- 1 Yes
2 No
x1 DK

f. Color television

8022

- 1 Yes
2 No
x1 DK

g. Gas or electric stove (with or without oven)

8026

- 1 Yes
2 No
x1 DK

h. Microwave oven

8030

- 1 Yes
2 No
x1 DK

i. Videocassette recorder (VCR)

8034

- 1 Yes
2 No
x1 DK

j. Air conditioner (central or room)

8038

- 1 Yes
2 No
x1 DK

k. Personal computer

8042

- 1 Yes
2 No
x1 DK

l. Telephone

8046

- 1 Yes
2 No
x1 DK

NOTES

TOPICAL MODULES

Section 5 - TOPICAL MODULES (Continued)

Part B - LIVING CONDITIONS

A. HOUSING

1. The next few questions are about your home. How many rooms are there in your home? Count the kitchen but do not count the bathrooms.

8100

--	--

Number of rooms

IF PERSONAL VISIT, SHOW FLASHCARD BB

2. Are any of the following conditions present in this home?

a. A leaking roof or ceiling

8102

- 1 Yes
2 No
x1 DK

b. A toilet, hot water heater, or other plumbing that doesn't work

8106

- 1 Yes
2 No
x1 DK

c. Broken windows

8110

- 1 Yes
2 No
x1 DK

d. Exposed electrical wires

8114

- 1 Yes
2 No
x1 DK

e. Rats, mice, roaches, or other insects

8118

- 1 Yes
2 No
x1 DK

f. Holes in the floor (large enough to trip in)

8122

- 1 Yes
2 No
x1 DK

g. Open cracks or holes in the walls or ceiling

8126

- 1 Yes
2 No
x1 DK

NOTES

Section 5 - TOPICAL MODULES (Continued)

Part B - LIVING CONDITIONS (Continued)

A. HOUSING (Continued)

IF PERSONAL VISIT, SHOW FLASHCARD CC

3. On a scale of 1 to 10, where 10 is best and 1 is worst, how would you rate -

a. The general state of repair of your home

8130
x1 DK

b. The amount of room or space your home has

8132
x1 DK

c. The furnishings in your home

8134
x1 DK

d. The warmth of your home in winter

8136
x1 DK

e. The coolness of your home in summer

8138
x1 DK

f. The amount of privacy your home offers

8140
x1 DK

g. The security or safety of your home

8142
x1 DK

h. The convenience of your home to stores and shopping

8144
x1 DK

i. Your relationship with neighbors

8146
x1 DK

4. Do you feel that the conditions in this house are undesirable enough that you would like to move?

8148 1 Yes
2 No
x1 DK

5. On a scale of 1 to 10, how would you rate this (house/apartment) as a place to live? 10 is best and 1 is worst.

8150 Rating
x1 DK

6. On a scale of 1 to 10, how would you rate this neighborhood? 10 is best and 1 is worst.

8152 Rating
x1 DK

NOTES

Section 5 - TOPICAL MODULES (Continued)

Part B - LIVING CONDITIONS (Continued)

B. CRIME

<p>7a. In the past month, have there been any times when you wanted to go somewhere but stayed at home instead because you thought it would be unsafe to leave home?</p>	<p align="center">8154</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>b. When you go out, do you ever carry anything to protect yourself?</p>	<p align="center">8155</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>
<p align="center"><i>IF PERSONAL VISIT, SHOW FLASHCARD DD FOR QUESTIONS 8 AND 9</i></p>	
<p>8. Do you consider your neighborhood very safe from crime, fairly safe, fairly unsafe, or very unsafe?</p>	<p align="center">8158</p> <p>1 <input type="checkbox"/> Very safe 2 <input type="checkbox"/> Fairly safe 3 <input type="checkbox"/> Fairly unsafe 4 <input type="checkbox"/> Very unsafe x1 <input type="checkbox"/> DK</p>
<p>9. How about your home? Do you consider it very safe from crime, fairly safe, fairly unsafe, or very unsafe?</p>	<p align="center">8160</p> <p>1 <input type="checkbox"/> Very safe 2 <input type="checkbox"/> Fairly safe 3 <input type="checkbox"/> Fairly unsafe 4 <input type="checkbox"/> Very unsafe x1 <input type="checkbox"/> DK</p>
<p>10. We are interested in finding out if people do anything in particular to keep thieves or intruders out of their homes. Does your household have a dog for the purpose of keeping thieves and intruders out, or any special DEVICES such as electric timers for lights, or an alarm system?</p>	<p align="center">8162</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>

C. NEIGHBORHOOD CONDITIONS

<p align="center"><i>IF PERSONAL VISIT, SHOW FLASHCARD EE</i></p>	
<p>11. Do you think any of the following conditions are problems in this neighborhood?</p> <p>a. Street noise or heavy street traffic</p>	<p align="center">8170</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>b. Streets in need of repair</p>	<p align="center">8172</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>c. Crime</p>	<p align="center">8174</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>d. Trash, litter, or garbage in the streets and lots</p>	<p align="center">8176</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>e. Rundown or abandoned houses or buildings</p>	<p align="center">8178</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>f. Industries, businesses, or other non-residential activities</p>	<p align="center">8180</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>g. Odors, smoke, or gas fumes</p>	<p align="center">8182</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>
<p>12. Do you feel that neighborhood conditions are unsatisfactory enough that you would like to move?</p>	<p align="center">8184</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK</p>

Section 5 - TOPICAL MODULES (Continued)

Part B - LIVING CONDITIONS (Continued)

D. COMMUNITY SERVICES

IF PERSONAL VISIT, SHOW FLASHCARD FF

13. On a scale of 1 to 10, where 10 is best and 1 is worst, how would you rate the following services or conditions in your neighborhood?

a. Hospitals, health clinics, and doctors

8186
x1 DK

b. Parks and recreational facilities

8188
x1 DK

c. Public transportation

8190
x1 DK

d. Police services

8192
x1 DK

e. Fire department services

8194
x1 DK

f. Neighborhood stores

8196
x1 DK

g. Quality of education in local schools

8198
x1 DK

h. Safety in local schools

8200
x1 DK

i. Education or training opportunities in the community

8202
x1 DK

14. Do you feel that the services in your area are unsatisfactory enough that you would like to move?

8204 1 Yes
2 No
x1 DK

NOTES

Section 5 - TOPICAL MODULES (Continued)

Part C - BASIC NEEDS

A. ABILITY TO MEET EXPENSES

1. During the past 12 months, has there been a time when your household did not meet its essential expenses? By essential expenses, I mean things like the mortgage or rent payment, utility bills, or important medical care.

8300 1 Yes
2 No
x1 DK

FIELD REPRESENTATIVE INSTRUCTION ▶

When asking items 2a through 2g, if respondent answers "Yes," then ask questions 3 and 4 (if applicable) before moving to the next condition.

IF PERSONAL VISIT, SHOW FLASHCARD GG

2. In the past 12 months, has there been a time when your household -

Mark (X) all that apply.

a. did not pay the full amount of the rent or mortgage?

8302 1 Yes
2 No
x1 DK

3. Did any person or organization help?

8304 1 Yes
2 No

4. (Please look at Flashcard HH.) Who helped?

8306
x1 DK

b. was evicted from your home/apartment for not paying the rent or mortgage?

8308 1 Yes
2 No
x1 DK

8310 1 Yes
2 No

8312
x1 DK

c. did not pay the full amount of the gas, oil, or electricity bills?

8314 1 Yes
2 No
x1 DK

8316 1 Yes
2 No

8318
x1 DK

d. had service turned off by the gas or electric company, or oil company would not deliver oil?

8320 1 Yes
2 No
x1 DK

8322 1 Yes
2 No

8324
x1 DK

e. had service disconnected by the telephone company because payments were not made?

8326 1 Yes
2 No
x1 DK

8328 1 Yes
2 No

8330
x1 DK

f. had someone in your household who needed to see a doctor or go to the hospital but didn't go?

8332 1 Yes
2 No
x1 DK

8334 1 Yes
2 No

8336
x1 DK

g. had someone who needed to see a dentist but didn't go?

8338 1 Yes
2 No
x1 DK

8340 1 Yes
2 No

8342
x1 DK

B. HELP WHEN IN NEED

5. Please look at Flashcard II for these next three questions. If your household had a problem with which you needed help (for example, sickness or moving), how much help would you expect to get from family living nearby?

8344 1 All of the help I/we need
2 Most of the help I/we need
3 Very little of the help I/we need
4 No help
x1 DK
x3 NA

6. If your household had a problem with which you needed help, how much help would you expect to get from friends?

8346 1 All of the help I/we need
2 Most of the help I/we need
3 Very little of the help I/we need
4 No help
x1 DK
x3 NA

7. If your household had a problem with which you needed help, how much help would you expect to get from other people in the community besides family and friends, such as a social agency or a church?

8348 1 All of the help I/we need
2 Most of the help I/we need
3 Very little of the help I/we need
4 No help
x1 DK
x3 NA

Section 5 - TOPICAL MODULES (Continued)

Part C - BASIC NEEDS (Continued)

C. FOOD ADEQUACY

<p>8. Which of these statements best describes the food eaten in your household in the last four months (Read responses)?</p>	<p>8350</p>	<p>1 <input type="checkbox"/> Enough of the kinds of food we want - SKIP to Check Item C1, page 63</p> <p>2 <input type="checkbox"/> Enough but not always the kinds of food we want to eat - SKIP to Check Item C1, page 63</p> <p>3 <input type="checkbox"/> Sometimes not enough to eat</p> <p>4 <input type="checkbox"/> Often not enough to eat</p> <p>x1 <input type="checkbox"/> DK - SKIP to Check Item C1, page 63</p>
<p>9. In which months did the household not have enough to eat? Mark (X) all that apply.</p>	<p>8352 8354 8356 8358</p>	<p>1 <input type="checkbox"/> Last month</p> <p>2 <input type="checkbox"/> Two months ago</p> <p>3 <input type="checkbox"/> Three months ago</p> <p>4 <input type="checkbox"/> Four months ago</p>
<p><i>IF PERSONAL VISIT, SHOW FLASHCARD JJ</i></p>		
<p>10. Which of the following reasons explain why your family did not have enough food?</p>		
<p>a. Did not have enough money, food stamps, or WIC vouchers to buy food or beverages</p>	<p>8360</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>x1 <input type="checkbox"/> DK</p>
<p>b. Did not have working appliances for storing or preparing foods (such as a stove or refrigerator)</p>	<p>8362</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>x1 <input type="checkbox"/> DK</p>
<p>c. Did not have transportation (transportation problems)</p>	<p>8364</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>x1 <input type="checkbox"/> DK</p>
<p>d. Some other reason</p>	<p>8366</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>x1 <input type="checkbox"/> DK</p>
<p>11. Thinking about the past month, how many days did your household have no food or money (or food stamps) to buy food?</p>	<p>8368</p>	<p><input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/> Number of days</p> <p>x3 <input type="checkbox"/> None - SKIP to Check Item C1, page 63</p>
<p>12. About how much did your household fall short on its food budget last month?</p>	<p>8370</p>	<p>\$ <input style="width: 100px; height: 20px;" type="text"/> . <input style="width: 20px; height: 20px; text-align: center;" type="text"/> 00</p> <p>x1 <input type="checkbox"/> DK</p>

NOTES

APPENDIX C

Working Papers

This appendix provides a list of a SIPP Working Papers. Any of these papers are free of charge. See the order form on page C-7.

1990

- 9001 - "Recent Developments in the Survey of Income and Program Participation", Census Bureau
- 9002 - "An Analysis of Leaving Home Using Data From the 1984 Panel of the SIPP", by Alden Speare, Roger Avery, Frances Goldscheider, Brown University
- 9003 - "The Effect of the Marriage Market on First Marriages: Evidence From SIPP", John Fitzgerald, Bowdoin College
- 9004 - "Counting Spells of Unemployment", Paul Ryscavage and Kathleen Short, Census Bureau
- 9005 - "The Elderly and Their Sources of Income: Implications for Rural Development", Robert Hoppe, Economic Research Service, U.S. Department of Agriculture
- 9006 - "Alternative Estimates of Economic Well-Being by Age Using Data on Wealth and Income, Daniel Radner, Social Security Administration
- 9007 - "Longitudinal Analysis of Federal Survey Data", Patricia Ruggles, Joint Economic Committee
- 9008 - "Measurement Errors in SIPP Program Reports", Kent H. Marquis and Jeffrey C. Moore, Census Bureau
- 9009 - "Handling Single Wave Nonresponse in Panel Survey," R. Singh, V. Huggins, and D. Kasprzyk, Census Bureau
- 9010 - "Nonresponse Research for SIPP," R. Petroni, Census Bureau
- 9011 - "The Seam Effect in Panel Surveys," G. Kalton, D. Hill, and M. Miller, University of Michigan
- 9012 - "The Effects of Being Uninsured on Health Care Service Use: Estimates from the SIPP," S. Long and J. Rodgers, Congressional Budget Office
- 9013 - "Wage Differential and Job Changes," S. Seninger and D. Greenberg, University of Maryland
- 9014 - "Wages and Employment Among the Working Poor: New Evidence From SIPP," S. Long and A. Martini, The Urban Institute and Mathematica Policy Research
- 9015 - "Pension Portability & Labor Mobility: Evidence from SIPP," A. Gustman and T. Steinmeier, Dartmouth College and Texas Tech University
- 9016 - "Response & Procedural Error Variance in Surveys: An Application of Poisson and Newman Type A Regression," D. Hill, University of Toledo
- 9017 - "Aging and the Income Value of Housing Wealth," S.F. Venti and D.A. Wise, Dartmouth College and Harvard University
- 9018 - "Welfare Participation and Welfare Recidivism: The Role of Family Events," S.K. Long, The Urban Institute

SIPP FILES

- 9019 - "Racial Differences in Health and Health Care Service Utilization: The Effect of Socioeconomic Status," J.E. Mutchler and J.A. Burr, State University of New York at Buffalo
- 9020 - "Living Benefits: Closing the Gap for LTC Financing," D.G. Shea, Pennsylvania State University
- 9021 - "SIPP Record Check Results: Implications for Measurement Principles and Practice," K.H. Marquis and J.C. Moore, Census Bureau
- 9022 - "Workers with Disabilities in Large and Small Firms: Profiles from the SIPP," D. Drury, Berkeley Planning Associates
- 9023 - "Entry into Marriage and the Transition to Adulthood Among Recent Firth Cohorts of Young Adults in the United States and the Federal Republic of Germany," J. Witte, Harvard University
- 9024 - "The Saving Effect of Tax-Deferred Retirement Accounts: Evidence from the SIPP," S. Venti and D.A. Wise, Dartmouth College and Harvard University
- 9025 - "Children and Welfare: Patterns of Multiple Program Participations," S.K. Long, The Urban Institute
- 9026 - "Household and Nonhousehold Living Arrangements in Later Life: A Longitudinal Analysis of A Social Process," J.E. Mutchler and J.A. Burr, University of Buffalo
- 9027 - "The SIPP Event History Calendar: Aiding Respondents in the Dating of Longitudinal Process," R. Kominski, Census Bureau
- 9028 - "Estimates of Employer Contributions for Health Insurance by Worker Characteristics," S. Haber, George Washington University
- 9029 - "Two Notes on Relating the Risk of Disclosure for Microdata and Geographic Area Size," B. Greenberg and L. Voshell, Census Bureau
- 9030 - "Childcare Effects on Social Security Benefits (91 ARC)," H.M. Iams, Social Security Administration
- 9031 - "The Effect of the Medicaid Program on Welfare Participation & Labor Supply," R. Moffit and B. Wolfe, Brown University and University of Wisconsin
- 9032 - "Proxy Reports: Results from a Record Check Study," J.C. Moore, Census Bureau
- 9033 - "Spells Without Health Insurance: What Affects Spell Durations and Who are the Chronically Uninsured?," T. McBride and K. Swartz, The Urban Institute
- 9034 - "Spells Without Health Insurance: Distributions of Durations and their Link to Point-in-Time Estimates of the Uninsured," K. Swartz and T. McBride, The Urban Institute
- 9035 - "Discrete Time Models of Entry into Marriage Based on Retrospective Marital Histories of Young Adults in the U.S. and the Federal Republic of Germany," J. Witte, Harvard University

1989

- 8901 - "Quality of SIPP Estimates," R. P. Singh, L. Weidman, and G. Shapiro, Census Bureau
- 8902 - "Two Notes on Sampling Variance Estimates from the 1984 SIPP Public-Use Files," by B. Bye and S. J. Gallicchio, Social Security Administration
- 8903 - "Longitudinal vs. Retrospective Measures of Work Experience," P. Ryscavage and J. Coder, Census Bureau

- 8904 - "Analyzing the Characteristics of Blacks: A Comparison of Data from SIPP and CPS," R. Farley and L. J. Neidert, University of Michigan
- 8905 - "Enhanced Demographic-Economic Data Sets," R. Herriot, C. Bowie, D. Kasprzyk, and S. Haber, Census Bureau
- 8906 - "Reflections on the Income Estimates from the Initial Panel of The Survey of Income and Program Participation (SIPP)," D. Vaughan, Social Security Administration
- 8907 - "Measuring Spells of Unemployment and Their Outcomes," P. Ryscavage, Census Bureau
- 8908 - "Welfare Dependency and its Causes: Determinants of the Duration of Welfare Spells," P. Ruggles, The Urban Institute
- 8909 - "Measuring the Duration of Poverty Spells," P. Ruggles, The Urban Institute and R. Williams, Congressional Budget Office
- 8910 - "Methods of Processing Unit Data Longitudinally on the SIPP," K. Smith, Congressional Budget Office
- 8911 - "Composite Estimation for SIPP Annual Estimates," R. P. Chakrabarty, Census Bureau
- 8912 - "Research and Evaluation Conducted on the Survey of Income and Program Participation," R. Petroni, T. Carmody, and V. Huggins, Census Bureau
- 8913 - "A Poisson Model of Response and Procedural Error Analysis of SIPP Reinterview Data," D. Hill, University of Michigan
- 8914 - "The Economic Resources of the Edlerly," S. Crystal and D. Shea, Rutgers University
- 8915 - "Multivariate Analysis by Users of SIPP Micro-Data Files," R. P. Chakrabarty, Census Bureau
- 8916 - "A Resource-Based Model of Living Arrangements Among the Unmarried Elderly," J. E. Mutchler and J. A. Burr, University of Buffalo
- 8917 - "Measuring Household Change at The individual Level Using Data From SIPP," A. Speare, Jr. and R. Avery, Brown University
- 8918 - "The Effect of Child Care Costs on Married Women's Labor Force participation," R. Connelly, Bowdoin College
- 8919 - "Income and Assets of Social Security Beneficiaries by Type of Benefit," S. Grad, Social Security Administration
- 8920 - "Development and Evaluation of a Survey-Based Type of Benefit Classification for the Social Security Program," D. Vaughan, Social Security Administration
- 8921 - "Wave Seam Effects in the SIPP," N. Young, The Urban Institute
- 8922 - "Components of Longitudinal Household Change for 1984-1985: An Evaluation of National Estimates from the SIPP," by Donald J. Hernandez, Bureau of the Census
- 8923 - "Database Design for Large-Scale Complex Data," by Martin H. David and Alice Robbin, University of Wisconsin-Madison

SIPP FILES

- 8924 - "Measuring the Frequency and Consequences of Job Separations: Data from the Survey of Income and Program Participation," by John M. McNeil and Enrique J. Lamas, Bureau of the Census
- 8925 - "The Regular Receipt of Child Support: A Multi-step Process," by James L. Peterson and Christine Winqvist Nord, Child Trends, Inc.

1988

- 8801 - "The Impact of the Unit of Analysis on Measures of Serial Multiple Program Participation," by P. Doyle and S. E. Long, Mathematica Policy Research, Inc.
- 8802 - "Short-Term Fluctuations in Income and Their Impacts on the Characteristics of the Low-Income Population: New Data From the Survey of Income and Program Participation," by P. Ruggles, Urban Institute
- 8803 - "Residential Mobility of One-Person Households," by J. Witte and H. Lahmann, German Institute for Economic Research
- 8804 - "Year-Apart Estimates of Household Net Worth From the Survey of Income and Program Participation," by John M. McNeil and Enrique J. Lamas, Bureau of the Census
- 8805 - "Measuring Poverty and Crises: A Comparison of Annual and Subannual Accounting Program Participation," by Martin David and John Fitzgerald, Institute for Research on Poverty
- 8806 - "Using Administrative Record Data to Evaluate the Quality of Survey Estimates," by Jeffrey C. Moore and Kent H. Marquis, Bureau of the Census
- 8807 - "The Wealth of the Aged and Nonaged, 1984," by Daniel B. Radner, HHS
- 8808 - "Examining the Dynamics of Health Insurance Loss: A Tale of Two Cohorts," by Alan C. Monheit and Claudia L. Schur, NCHSR
- 8809 - "The Dynamics of Medicaid Enrollment," by Pam Farley Short, Joel C. Cantor, and Alan C. Monheit, NCHSR
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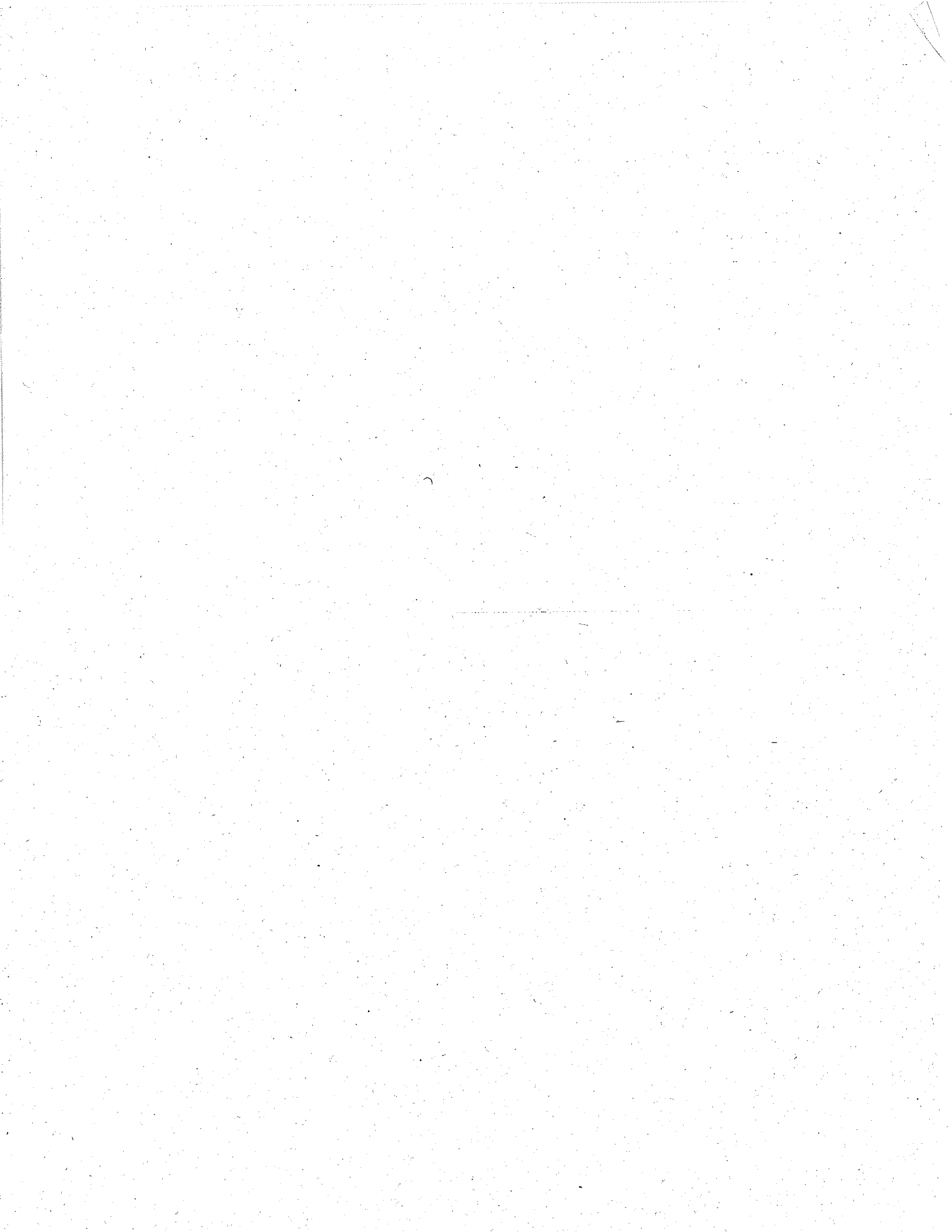
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APPENDIX D

Machine-Readable Data Dictionary Layout

Data dictionary lines are 46 characters. The character on the first position determines the type of lines. Each variable may have the following lines:

1. COMMENTS (" * ") lines
2. DATA DICTIONARY (" D ") ; line and DATA DESCRIPTION
3. UNIVERSE (" U ") lines
4. VALUE DESCRIPTION lines
5. One blank line at the end

FORMAT

"*" LINE COMMENTS

- a. " * " in the first position indicates that this is a comment line. This line can appear any place in the dictionary. It will be used for short comments or to nullify any value codes.
- b. " ** " in the first two positions is also comments but it has additional meaning. It indicates this is a block of comments which will be applied to several variables. The first line of this block will have the COMMENT NO. so that subsequent variable can refer back to this comment block.

"D" LINE DATA DICTIONARY

This line contains the following information:

ID	"D"	COL.	1-1
NAME	Variable name	COL.	3-10
SIZE	Size of data field	COL.	14-15
BEGIN	Begin position of data field	COL.	19-22
TYPE	Character variable indicator "CHAR" or blanks if numeric variable	COL.	26-29
DEC	Implied decimal places	COL.	33-34
IND	TABLE variable indicator "TABLE" with "(aa)" for its dimension; otherwise blanks	COL.	38-46

Text describing the variable will follow this "D" line. Use COL. 6-46 and repeat as many lines as necessary.

"U" LINE UNIVERSE DEFINITION

This line contains the universe definition. Use COL. 3-46 and repeat as many lines as necessary.

ID	"U"	COL.	1-1
DESCRIPTION	Universe description	COL.	3-46

(For continuation use COL. 3-46 and repeat as many lines as necessary.)

"V" LINE VALUE DEFINITION

ID	"V"	COL.	1-1
VALUE	Value code-right justified	COL.	3-12
	" "	COL.	14
DESCRIPTION	Value description	COL.	15-46

(Repeat COL. 14-46 format for continued value description.)

