

**Survey of Income and Program
Participation (SIPP)
1990 Panel
Wave 8 Topical Module Microdata File**

TECHNICAL DOCUMENTATION
SIPP-90-8T

**SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)
1990 PANEL
WAVE 8 TOPICAL MODULE MICRODATA FILE**

Technical Documentation

Washington, D.C.

1993



U.S. DEPARTMENT OF COMMERCE

Ronald H. Brown, Secretary

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**Bureau Of The Census
Harry A. Scarr, Acting Director**



BUREAU OF THE CENSUS

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This technical documentation was prepared within the Data Access and Use Branch, under the direction of Deborah Barrett, Chief, and Patricia Fuellhart, Chief of its Technical Information Section. Genny Burns was coordinator for this file. Clerical support was provided by Virginia Collins and Barbara Shugart. Fuad Foty of the Demographic Surveys Division provided the unformatted data dictionary file.

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UPDATE INFORMATION

Additional information concerning this file may be available at a later date. If you have purchased this technical documentation (with or without tape purchase) from the Census Bureau and wish to receive these User Notes, please complete the coupon below and return it to:

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Microdata File**

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ABSTRACT

Survey of Income and Program Participation (SIPP) 1990 Panel Wave 8 Topical Module Microdata File [machine-readable data file] / conducted by the U.S. Bureau of the Census. Washington: The Bureau [producer and distributor], 1993.

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 annual income and retirement accounts, taxes, and school enrollment and financing.

The sample consists of 4 rotation groups, each interviewed in a different month from June to September 1992. 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 eight 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: 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 and each source of income received during the period.

File Size: 56,423 logical records; 180 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) 1990 Panel, Wave 8 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 1988 Panels as well as Waves 1-3 for the 1989 Panel and Waves 1 through 7 of the 1990 Panel and 1991 Waves 1 through 4 are available from Customer Services, Data User Services Division, Bureau of the Census, Washington, D.C. 20233. An order form is on the following page for your convenience.

File Availability:

Survey of Income and Program (SIPP) 1990 Panel, Wave 8 Topical Module File is available at either 6250 or 1600 bpi; ASCII or EBCDIC, labeled or unlabeled. The file is also available on tape cartridges (IBM 3480 compatible). A machine-readable dictionary is contained at the end of the file. 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.

Sample Unit ID (scrambled)	Race
Household Address ID	Sex
Item36B	MS(5)
Entry Address ID	PNSP(5)
Person Number	PNPT(5)
PP-Intvw	Higrade
Finalwgt(5)	Grd-Cmpl
RRP(5)	Ethnicity
Age(5)	

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

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.

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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 respondents' 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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VARIABLE LISTING TO 1990 WAVE 8 TOPICAL MODULE

<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
ADDID	Address Identification	20
AGE	Age as of Last Birthday - Edited and Imputed	48
ENTRY	Address Identification - Edited Entry	30
ETHNICTY	Ethnic Origin	63
FINALWGT	Weight, Second Stage Factor	35
GRD-CMPL	Grade Attended Was Completed, Highest	62
HIGRADE	Grade or Year of School Attended, Highest	60
ID	Identifier, Sample Unit	6
INTVW	Interview Status, Person's	24
ITEM36B	Interview Status Code	22
MS	Marital Status	53
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<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
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TMTEDFIN	Educational Assistance, Total Amount of.....	176
WAVE	Wave Number Within Panel	65

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 1990 WAVE 8 TOPICAL MODULE DATA DICTIONARY

DATA	SIZE	BEGIN	
D SUSEQNUM	5	1	Sequence number of sample unit Primary sort key
U All persons			
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. Range = (000000000:999999999)
U All persons			
D ROTATION	1	15	Rotation Range = (1:4)
U All persons			
D STATE	2	16	FIPS state code from the MST/GRIN file
U All persons			
	01		.Alabama
	04		.Arizona
	05		.Arkansas
	06		.California
	08		.Colorado
	09		.Connecticut
	10		.Delaware
	11		.District Of Columbia
	12		.Florida
	13		.Georgia
	15		.Hawaii
	17		.Illinois
	18		.Indiana
	20		.Kansas
	21		.Kentucky
	22		.Louisiana
	24		.Maryland
	25		.Massachusetts
	26		.Michigan
	27		.Minnesota
	28		.Mississippi
	29		.Missouri
	31		.Nebraska
	32		.Nevada
	33		.New Hampshire
	34		.New Jersey
	35		.New Mexico
	36		.New York
	37		.North Carolina
	39		.Ohio
	40		.Oklahoma
	41		.Oregon
	42		.Pennsylvania
	44		.Rhode Island
	45		.South Carolina
	47		.Tennessee
	48		.Texas
	49		.Utah
	51		.Virginia
	53		.Washington
	54		.West Virginia
	55		.Wisconsin
	61		.Maine, Vermont
	62		.Iowa, North Dakota, South Dakota
	63		.Alaska, Idaho, Montana, Wyoming

DATA	SIZE	BEGIN	
D PINX	2	18	Person index from core
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 ITEM368	2	22	Control card item 368 - interview status code
U All households			
V	01		.Interviewed
V			.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
V			.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
V			.Type B noninterview (Wave 2+)
V	16		.Entire hh institutionalized .or temporarily ineligible
V			.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
V			.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
V			.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 households 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

SIPP 1990 TOPICAL MODULE WAVE 8

DATA	SIZE	BEGIN
D PP-MIS1	1	25
Monthly person's interview status		
U All persons, including children		
V	1	.Interview
V	2	.Non-interview
D PP-MIS2	1	26
Monthly person's interview status		
U All persons, including children		
V	1	.Interview
V	2	.Non-interview
D PP-MIS3	1	27
Monthly person's interview status		
U All persons, including children		
V	1	.Interview
V	2	.Non-interview
D PP-MIS4	1	28
Monthly person's interview status		
U All persons, including children		
V	1	.Interview
V	2	.Non-interview
D PP-MIS5	1	29
Monthly person's interview status		
U All persons, including children		
V	1	.Interview
V	2	.Non-interview
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 PNLM	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)

DATA	SIZE	BEGIN
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 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		
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 PNWP	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
Prson number of parent		
U Persons 15 years old or older		
V	000	.Not a sample person in this month
V	999	.Not applicable
D MIGRADE	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

DATA SIZE BEGIN
 D ETHNICITY 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
 V (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 number within Panel

D FILLER 3 66
 Zero filler

 * Part C - Education and Training *

D TM9610 1 69
 Was ... enrolled in school anytime during the past year? (include any regular school, such as elementary, high school, or college, or any vocational, technical or business school.)
 U All persons
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - End of interview

D TM9612 2 70
 At what level or grade was... enrolled(if enrolled at more than one level in the past year, check level in which greatest amount of time was spent.)
 U All persons enrolled in school
 V 00 .Not applicable
 V 01 .Elementary grades 1-8
 V 02 .High school grades 9-12
 V 03 .College year 1
 V 04 .College year 2
 V 05 .College year 3
 V 06 .College year 4
 V 07 .College year 5
 V 08 .College year 6+
 V 09 .Vocational school
 V 10 .Technical school
 V 11 .Business school
 V 12 .Other or DK

DATA SIZE BEGIN
 D TM9614 1 72
 Check item T37
 Was...enrolled in elementary school or high school?
 U All persons enrolled in school
 V 0 .Not applicable
 V -1 .Yes
 V 2 .No - skip to TM9618

D TM9616 1 73
 Was...enrolled in a public school?
 U Persons enrolled in elementary or high school
 V 0 .Not applicable
 V 1 .Yes - End of interview
 V 2 .No

D TM9618 5 74
 During the past year what was the total cost of... 's tuition and fees?
 U Persons enrolled in other than public school
 V 1-04000 .Dollars in school costs
 V 04500 .Amount from \$4000 to \$4999
 V 05500 .Amount from \$5000 to \$5999
 V 07000 .Amount from \$6000 or more

D TM9620 4 79
 What was the total cost of... 's books and supplies?
 U Persons enrolled in other than public school
 V 0000 .Not applicable
 V 0001-9999 .Dollars in school costs
 V -001 .Dk
 V -003 .None

D TM9622 1 83
 Did...live away from home while attending school?
 U Persons enrolled in other than public school
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to 9626

D TM9624 5 84
 What was the total cost for room and board while away at school?
 U Persons enrolled in other than public school and living away from home
 V 00000 .Not applicable
 V 1-99999 .Dollars in school costs

 * COMMENT *
 * The next twenty-five fields *
 * (TM9626-TM9674) are possible res- *
 * ponses to the question: *
 * Please look at this card and tell *
 * me if...received any of these types *
 * of educational assistance during the *
 * past year. *
 * and *
 * How much did...receive? *

D TM9626 2 89
 Any type of educational assistance received
 U Persons enrolled in other than public school
 V 00 .Not applicable
 V -3 .None - End of interview

SIPP 1990 TOPICAL MODULE WAVE 8

DATA	SIZE	BEGIN
D TM9628	1	91
The GI bill?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9630	4	92
Percent received from GI bill		
U Persons enrolled in other than public school who received educational assistance from the GI bill		
V 0000-0100 .Percent of total assistance		
D TM9632	1	96
Other veteran's educational assistance programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans assistance.)		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9634	5	97
Percent received from veteran's programs		
U Persons enrolled in other than public school who received educational assistance from veteran's programs		
V 0-00100 .Percent of total assistance		
D TM9636	1	102
College work study program?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9638	4	103
Percent received from college work study program		
U Persons enrolled in other than public school who received educational assistance from college work study program		
V 0000-0100 .Percent of total assistance		
D TM9640	1	107
A Pell grant?		
U Persons enrolled in other than public school and received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9642	4	108
Percent received from Pell grant		
U Persons enrolled in other than public school who received educational assistance from Pell grant		
V 0000-0100 .Percent of total assistance		

DATA	SIZE	BEGIN
D TM9644	1	112
A Supplemental Educational Opportunity Grant(SEOG)		
U Persons enrolled in other than public school and received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9646	4	113
Percent received from SEOG		
U Persons enrolled in other than public school who received educational assistance from SEOG		
V 0000-0100 .Percent of total assistance		
D TM9648	1	117
A national direct student loan?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9650	4	118
Percent received from a national direct student loan		
U Persons enrolled in other than public school who received educational assistance from a national direct student loan		
V 0000-0100 .Percent of total assistance		
D TM9652	1	122
A guaranteed student loan		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9654	5	123
Percent received from a guaranteed student loan		
U Persons enrolled in other than public school who received educational assistance from a guaranteed student loan		
V 0-00100 .Percent of total assistance		
D TM9656	1	128
A JTPA training program		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9658	4	129
Percent received from JTPA		
U Persons enrolled in other than public school who received educational assistance from JTPA		
V 0000-0100 .Percent of total assistance		

DATA	SIZE	BEGIN
D TM9660	1	133
Employer assistance		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9662	5	134
Percent of employer assistance		
U Persons enrolled in other than public school who received educational assistance from employer		
V	0-00100	.Percent of total assistance
D TM9664	1	139
A fellowship or scholarship?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9666	5	140
Percent of fellowship or scholarship		
U Persons enrolled in other than public school who received fellowship or scholarship		
V	0-00100	.Percent of total assistance
D TM9668	1	145
A tuition reduction?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9670	4	146
Percent received from tuition reduction		
U Persons enrolled in other than public school who received tuition reduction		
V	0000-0100	.Percent of total assistance
D TM9672	1	150
Anything else (other than assistance from relatives and friends)?		
U Persons enrolled in other than public school who received educational assistance		
V	0	.Not marked as received
V		.or not applicable
V	1	.Received
D TM9674	5	151
Percent of educational assistance from other sources		
U Persons enrolled in other than public school who received educational assistance from other sources		
V	0000100	.Percent of total assistance
D TMETCNT	2	156
Number of items with data on this record		
V	01-99	.Number of items

DATA	SIZE	BEGIN

* Part C - Imputation flags *		

D TM-IFC1	1	158
Part C imputation flag #01		
Imputation flag for field 'TM9612'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC2	1	159
Part C imputation flag #02		
Imputation flag for field 'TM9616'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC3	1	160
Part C imputation flag #03		
Imputation flag for field 'TM9618'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC4	1	161
Part C imputation flag #04		
Imputation flag for field 'TM9620'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC5	1	162
Part C imputation flag #05		
Imputation flag for field 'TM9622'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC6	1	163
Part C imputation flag #06		
Imputation flag for field 'TM9624'		
V	0	.Not imputed
V	1	.Imputed
D TM-IFC7	1	164
Part C imputation flag #07		
Imputation flag for field 'TM9630'		
V	0	.Not imputed
V	1	.Imputed TM9630
D TM-IFC8	1	165
Part C imputation flag #08		
Imputation flag for field 'TM9634'		
V	0	.Not imputed
V	1	.Imputed TM9634
D TM-IFC9	1	166
Part C imputation flag #09		
Imputation flag for field 'TM9638'		
V	0	.Not imputed
V	1	.Imputed TM9638
D TM-IFC10	1	167
Part C imputation flag #10		
Imputation flag for field 'TM9642'		
V	0	.Not imputed
V	1	.Imputed TM9642
D TM-IFC11	1	168
Part C imputation flag #11		
Imputation flag for field 'TM9646'		
V	0	.Not imputed
V	1	.Imputed TM9646

SIPP 1990 TOPICAL MODULE WAVE 8

DATA	SIZE	BEGIN
D TM-IFC12	1	169
	Part C imputation flag #12	
	Imputation flag for field 'TM9650'	
V	0	.Not imputed
V	1	.Imputed TM9650
D TM-IFC13	1	170
	Part C imputation flag #13	
	Imputation flag for field 'TM9654'	
V	0	.Not imputed
V	1	.Imputed TM9654
D TM-IFC14	1	171
	Part C imputation flag #14	
	Imputation flag for field 'TM9658'	
V	0	.Not imputed
V	1	.Imputed TM9658
D TM-IFC15	1	172
	Part C imputation flag #15	
	Imputation flag for field 'TM9662'	
V	0	.Not imputed
V	1	.Imputed TM9662
D TM-IFC16	1	173
	Part C imputation flag #16	
	Imputation flag for field 'TM9666'	
V	0	.Not imputed
V	1	.Imputed TM9666

DATA	SIZE	BEGIN
D TM-IFC17	1	174
	Part C imputation flag #17	
	Imputation flag for field 'TM9670'	
V	0	.Not imputed
V	1	.Imputed TM9670
D TM-IFC18	1	175
	Part C imputation flag #18	
	Imputation flag for field 'TM9674'	
V	0	.Not imputed
V	1	.Imputed TM9674
D TMTEDFIN	5	176
	Total amount of educational assistance during the past year.	
V	1-04000	.Amount of assistance
V	04500	.Amount from \$4000 - \$4999
V	05500	.Amount from \$5000 - \$5999
V	07000	.Amount \$6000 or more

**SOURCE AND ACCURACY STATEMENT FOR THE 1990
PUBLIC USE FILES FROM THE SURVEY OF
INCOME AND PROGRAM PARTICIPATION**

SOURCE OF DATA

The data were collected in the 1990 panel of the Survey of Income and Program Participation (SIPP). 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. Crew members of merchant vessels, Armed Forces personnel living in military barracks, and institutionalized persons, such as correctional facility inmates and nursing home residents, were not eligible to be in the survey. Also, United States citizens residing abroad were not eligible to be in the survey. Foreign visitors who work or attend school in this country and their families were eligible; all others were not eligible to be in the survey. With the exceptions noted above, persons who were at least 15 years of age at the time of the interview were eligible to be in the survey.

The 1990 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, expected clusters of 2 living quarters (LQs) were systematically selected 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, a sample was drawn of permits issued for construction of residential LQs up until shortly before the beginning of the panel. In jurisdictions that do not issue building permits, small land areas were sampled and the LQs within were listed by field personnel and then clusters of 4 LQs were subsampled. In addition, sample LQs were selected from supplemental frames that included LQs identified as missed in the 1980 Census and persons residing in group quarters at the time of the Census.

The 1990 panel differs from the other panels as a result of oversampling for low income. The oversample was constructed by taking a small subsample from the 1989 panel, and combing it with the 1990 panel. Variables such as race, ethnicity, and sex were used for the oversampling since low income data for 1989 panel households were unavailable. The 1989 panel subsample contains all Black Headed Households, all Hispanic Headed Households, all Households with Heads having no spouse present, living with relatives, and a random sample of all the other Household types. The latter random sample was done in an attempt to avoid bias in the sample.

Approximately 28,300 living quarters were designated for the 1990 panel. For Wave 1 of the 1990 panel, interviews were obtained from the occupants of about 21,900 of the 28,300 designated living quarters. Most of the remaining 6,400 living quarters in

the 1990 panel were found to be vacant, demolished, converted to nonresidential use, or otherwise ineligible for the survey. However, approximately 1,700 of the 6,400 living quarters in the 1990 panel were not interviewed because the occupants refused to be interviewed, could not be found at home, were temporarily absent, or were otherwise unavailable. Thus, occupants of about 93 percent of all eligible living quarters participated in Wave 1 of the Survey for the 1990 panel. Sample loss at Wave 1 of the 1990 Panel was about 7.1% and is expected to increase to roughly 22.0% at the end of Wave 8.

For Waves 2-8, only original sample persons (Those in Wave 1 sample households and interviewed in Wave 1) and persons living with them were eligible to be interviewed. With certain restrictions, original sample persons were to be followed if they moved to a new address. When original sample persons moved without leaving a forwarding address or moved to extremely remote parts of the country and no telephone number was available, additional noninterviews resulted.

Sample households within a given panel are divided into four subsamples of nearly equal size. These subsamples are called rotation groups 1, 2, 3, or 4 and one rotation group is interviewed each month. Each household in the sample was scheduled to be interviewed at 4 month intervals over a period of roughly 2 years beginning in February 1990. The reference period for the questions is the 4-month period preceding the interview month. In general, one cycle of four interviews covering the entire sample, using the same questionnaire, is called a wave.

A unique feature of the SIPP design is overlapping panels. The overlapping design allows panels to be combined and essentially doubles the sample sizes. However, the 1990 panel is designed so that the first three waves do not overlap with other panels. (The 1988 and 1989 panels were prematurely terminated to provide the funding needed to enlarge the 1990 panel and allow oversampling to take place.) After the third wave, the 1990 panel overlaps with the 1991 panel. Selected interviews for the 1990 panel can be combined with interviews from the 1991 panel. Information necessary to do this is included later in this statement.

The public use files include core and supplemental (topical module) data. Core questions are repeated at each interview over the life of the panel. Topical modules include questions which are asked only in certain waves. The 1990 and 1991 panel topical modules are given 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 1990 and 1991 panels respectively. For example, Wave 1 rotation group 2 of the 1990 panel was interviewed in February 1990 and data for

the reference months October 1989 through January 1990 were collected.

Estimation. The estimation procedure used to derive SIPP person weights involved several stages of weight adjustments. Each person received a base weight equal to the inverse of his/her probability of selection. A noninterview adjustment factor was applied to the weight of every occupant of interviewed households to account for households which were eligible for the sample but were not interviewed. (Individual nonresponse within partially interviewed households was treated with imputation. No special adjustment was made for noninterviews in group quarters.) A factor was applied to each interviewed person's weight to account for the SIPP sample areas not having the same population distribution as the strata from which they were selected.

An additional stage of adjustment to persons' weights was performed to reduce the mean square error of the survey estimates by ratio adjusting SIPP sample estimates to monthly Current Population Survey (CPS) estimates¹ of the civilian (and some military) noninstitutional population of the United States by age, race, Spanish origin, sex, type of householder (married, single with relatives, single without relatives), and relationship to householder (spouse or other). The CPS estimates were themselves brought into agreement with estimates from the 1980 decennial census which were adjusted to reflect births, deaths, immigration, emigration, and changes in the Armed Forces since 1980. Also, an adjustment was made so that a husband and wife within the same household were assigned equal weights.

Use of Weights. Users should be forewarned to apply the appropriate weights given on this file before attempting to calculate estimates. The weights vary between units due to the oversampling that took place. If analysis is done for the general population without applying the appropriate weights, the results will be erroneous. 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. Reference month estimates can be averaged 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.

¹ These special CPS estimates are slightly different from the published monthly CPS estimates. The differences arise from forcing counts of husbands to agree with counts of wives.

The remaining weight is interview month specific. This weight can be used 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 1989 data is only available from rotations 2, 3, and 4 for Wave 1 of the 1990 panel (See table 3), so a factor of 4/3 (See Table 7) must be applied. To form an estimate for an interview month, use the procedure discussed above using the interview month weight provided on the file.

When estimates for months without four rotations worth of data are constructed from a wave file, factors greater than 1 must be applied. However, when core data from consecutive waves are used 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 person's 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, metropolitan or non-metropolitan residence is identified (variable H*-METRO). In 34 additional states, where the non-metropolitan population in the sample was small enough to present a disclosure risk, a fraction of the metropolitan sample was recoded 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 5. (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 no metropolitan subsample is identified within two states (Mississippi and West Virginia) and one state-group (North Dakota - South Dakota - Iowa). Thus, factors in the right-hand column of table 5 should be used 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 5 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 estimate for the metropolitan population. The results of these tabulations will be slightly biased.

Combined Panel Estimates. Both the 1990 and 1991 panels provide data for October 1990-August 1992. Thus, estimates for these time periods may be obtained by combining the corresponding panels. However, since the Wave 1 questionnaire differs from the subsequent waves' questionnaire, we recommend that estimates not be obtained by combining Wave 1 data of the 1991 panel (collected February - May of 1991) with data of the 1990 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.

Combined panel estimates may be obtained 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

Corresponding estimates from two consecutive year panels can be combined 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 0.608 unless one of the panels contributes no information to the estimate. In that case, the panel contributing information receives a factor of 1. The other receives 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. Estimates can then be produced 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 of the 1990 panel show that there were 441,000 households with monthly December income above \$6000. Also, suppose SIPP estimates for Wave 2 of the 1991 panel show that there were 435,000 households with monthly December income above \$6000. Using formula (A), the joint level estimate is

$$\begin{aligned} \hat{J} &= (0.608)(441,000) + (0.392)(435,000) \\ &= 438,648 \end{aligned}$$

ACCURACY OF THE ESTIMATES

SIPP estimates obtained from public use files are based on a sample; they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same questionnaire, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey: nonsampling and sampling. The magnitude of SIPP sampling error can be estimated, but this is not true of nonsampling error. Found below are descriptions of sources of SIPP nonsampling error, followed by discussions of sampling error, its estimation, and its use in data analysis. More detailed discussions of the existence and control of nonsampling errors in the SIPP can be found in the Quality Profile for the Survey of Income and Program Participation, May 1990, by Jabine, assisted by King and Petroni.

Nonsampling Variability. Nonsampling errors can be attributed to many sources, e.g., 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 such as in 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 rotation pattern used and failure to represent all units within the universe (undercoverage). Quality control and edit procedures were used to reduce errors made by respondents, coders and interviewers.

Undercoverage in SIPP results 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 to the extent that persons in missed households or missed persons in interviewed households have different characteristics than the interviewed persons in the same age-race-Spanish origin-sex group. Further, the independent population controls used have not be adjusted for undercoverage.

Some respondents do not respond to some of the questions. Therefore, the overall nonresponse rate for some items such as income and other money related items is higher than the nonresponse rates presented on page 2. The Bureau uses complex techniques to adjust the weights for nonresponse, but the success of these techniques in avoiding bias is unknown.

Comparability With Other Statistics. Caution should be exercised when comparing data from these files with data from other SIPP products or with data from other surveys. The comparability problems are caused by sources such as the seasonal patterns for many characteristics, definitional differences, and different nonsampling errors.

Sampling Variability. Standard errors indicate the magnitude of the sampling variability. 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 for the most part measure the variations that occurred by chance because a sample rather than the entire population was surveyed.

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 all possible samples were selected, each of these being surveyed under essentially the same conditions and using the same sample design, and if an estimate and its standard error were calculated 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 average estimate derived from all possible samples is included in the confidence interval.

Hypothesis Testing. Standard errors may also be used for hypothesis testing, a procedure for distinguishing between population parameters using sample estimates. The most common types of hypotheses tested are 1) the population parameters are identical versus 2) they are different. Tests may be performed at various levels of significance, where a level of significance is the probability of concluding that the parameters are different when, in fact, they are identical.

To perform the most common hypothesis test, compute the difference $X_A - X_B$, where X_A and X_B are sample estimates of the parameters 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 parameters 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 parameters are different. Of course, sometimes this conclusion will be wrong. When the parameters are, in fact, the same, there is a 10 percent chance of concluding that they are different.

Note when using small estimates. Because of the large standard errors involved, there is little chance that summary measures would reveal useful information when computed on a smaller base than 200,000. Also, care must be taken in the interpretation of small differences. For instance, in case of a borderline difference, even a small amount of nonsampling error can lead to a wrong decision about the hypotheses, 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 clusters of living quarters are sampled. To derive standard errors that would be applicable to a wide variety of estimates and could be prepared at a moderate cost, a number of approximations were required. Estimates with similar standard error behavior were grouped together and two parameters (denoted "a" and "b") were developed to approximate the standard error behavior of each group of estimates. These "a" and "b" parameters are used in estimating standard errors and vary by type of estimate and by subgroup to which the estimate applies. Table 6 provides base "a" and "b" parameters to be used for estimates obtained from core data and for some estimates from topical module data. These parameters are considered preliminary. Revised parameters are soon to follow.

The factors provided in table 7 when multiplied by the base parameters of table 6 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 -0.0000664 and $6,043$, respectively. For Wave 1 the factor for October 1989 is 4.0000 since only 1 rotation month of data is available. So, the "a" and "b" parameters for total household income in October 1989 based on Wave 1 are -0.0002656 and $24,172$, respectively. Also for Wave 1, the factor for the first quarter of 1990 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 1990 are -0.0000812 and 7,386, respectively for Wave 1.

The "a" and "b" parameters may be used 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. Methods for using these parameters for computation of approximate standard errors are given in the following sections.

For those users who wish further simplification, we have also provided preliminary general standard errors in tables 8 through 11 for making estimates with the use of data from all four rotations. Note that these standard errors must be adjusted by a factor (f) from table 6. 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. Standard errors provided in tables 8 through 11 will change when revised parameters are available.

For the 1990, 1991 combined panel parameters, multiply the parameters in table 6 by the forthcoming appropriate factor from table 15. The factors later provided in table 16 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 6 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.

For calculating 1990 topical module variances, table 12 is designated to later provide base "a" and "b" parameters. Table 13 also in the near future will provide base "a" and "b" parameters for computing the 1990, 1991 combined panel topical module variances. These parameters will also be provided when revised generalized variance parameters are available.

Procedures for calculating standard errors for the types of estimates most commonly used are described below. 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. Stratum codes and half sample codes are included on the tapes to enable the user to compute the 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. The approximate standard error, s_x , of an estimated number of persons, households, families, unrelated individuals and so forth, can be obtained in 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.

It may be obtained by the use of the formula

$$s_x = fs \tag{1}$$

where f is the appropriate "f" factor from table 6, and s is the standard error on the estimate obtained by interpolation from table 8 or 9. Alternatively, s_x may be approximated by the formula

$$s_x = \sqrt{ax^2 + bx} \tag{2}$$

from which the standard errors in tables 8 and 9 were calculated. Here x is the size of the estimate and "a" and "b" are the parameters associated with the particular type of characteristic being estimated. Use of formula 2 will provide more accurate results than the use of formula 1.

Illustration.

Suppose SIPP estimates for Wave 1 of the 1990 panel show that there were 472,000 households with monthly household income above \$6,000. The appropriate parameters and factor from table 6 and the appropriate general standard error from table 8 are

$$a = -0.0000664 \quad b = 6,043 \quad f = 1.00 \quad s = 53,300$$

Using formula 1, the approximate standard error is

$$s_x = 53,300$$

Using formula 2, the approximate standard error is

$$\sqrt{(-0.0000664)(472,000)^2 + (6,043)(472,000)} = 53,300$$

Using the standard error based on formula 2, the approximate 90-percent confidence interval as shown by the data is from 387,000 to 557,000. 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. Will be provided when combining factors are available.

Standard Error of a Mean. A mean is defined here to be 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. The standard error of a mean can be approximated by formula 3 below. 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.

The population variance s^2 may be estimated 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, the range of values for the item is divided into c intervals. The upper and lower boundaries of interval j are Z_{j-1} and Z_j , respectively. Each unit is placed 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 $m_j = (Z_{j-1} + Z_j) / 2$. The most representative value of the item in group j is assumed to be m_j . If group c is open-ended, i.e., no upper interval boundary exists, then an approximate value for m_c is

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

The mean, \bar{x} can be obtained 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 . The mean, \bar{x} , can be obtained from 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), s^2 , given by formula (4), should be calculated by forming a distribution for each panel. The range of values for the item will be divided into intervals. Combined estimates for each interval can be obtained using formula (A). Formula (4) can be applied 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 1988 is given in table 14.

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 6, the estimated standard error of a mean \bar{X} is

$$s_{\bar{X}} = \sqrt{\left(\frac{4,890}{39,851,000}\right) (3,159,887)} = \$20$$

Standard error of an aggregate. An aggregate is defined to be the total quantity of an item summed over all the units in a group. The standard error of an aggregate can be approximated using formula 6.

As with the estimate of the standard error of a mean, the estimate of the standard error of an aggregate 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 upon both the size of the percentage and the size of the total upon which the percentage is based. 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.

There are two types of percentages commonly estimated. 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, the approximate standard error, $s_{(x,p)}$, of the estimated percentage p can be obtained by the formula

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

when data from all four rotations are used to estimate p . In this formula, f is the appropriate "f" factor from table 6 and s is the standard error of the estimate from table 10 or 11.

Alternatively, it may be approximated by the formula

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

from which the standard errors in tables 10 and 11 were calculated. 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. Use of this formula will give more accurate results than use of formula 7 above and should be used when data from less than four rotations are used to estimate p .

Illustration.

Suppose that, in the month of January 1990, 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 4,755 from table 6 and a factor of 1 for the month of January 1990 from table 7, the approximate standard error is

$$\sqrt{\frac{4,755}{(16,812,000)} (6.7) (100-6.7)} = 0.42\text{percent}$$

consequently, the 90 percent confidence interval as shown by these data is from 6.0 to 7.4 percent.

For percentages of money, a more complicated formula is required. A percentage of money will usually be estimated in 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:

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

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

$$s_x = \sqrt{\left(\frac{\hat{\beta}_A \bar{x}_A}{\bar{x}_N}\right)^2 \left[\left(\frac{s_p}{\hat{\beta}_A}\right)^2 + \left(\frac{s_A}{\bar{x}_A}\right)^2 + \left(\frac{s_B}{\bar{x}_N}\right)^2 \right]} . \quad (9)$$

where s_p is the standard error of $\hat{\beta}_A$, 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. The standard errors of \bar{x}_N and \bar{x}_A may be calculated using formula 3.

It should be noted that there is frequently some correlation between $\hat{\beta}_A$, \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 1990, 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 0.25%, \$4678, and \$2287. 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

$$\begin{aligned}
 s_r &= \sqrt{\left(\frac{(0.098)(72121)}{78734}\right)^2 \left[\left(\frac{0.0025}{0.098}\right)^2 + \left(\frac{4678}{72121}\right)^2 + \left(\frac{2287}{78734}\right)^2\right]} \\
 &= 0.007 \\
 &= 0.7\%
 \end{aligned}$$

Standard Error of a Difference. The standard error of a difference between two sample estimates 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 1990 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 6 and formula 2, the standard errors of these numbers are approximately 124,000 and 112,000, respectively. The difference in sample estimates is 567,000 and, using formula 10, the approximate standard error of the difference is

$$\sqrt{(124,000)^2 + (112,000)^2} = 167,000$$

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 $1.6 \times 167,000 = 267,200$. 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. To calculate standard errors on medians, the procedure described below may be used.

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.) The following procedure may be used 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 owning more 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 owning more 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, it will be necessary to interpolate. Different methods of interpolation may be used. 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. Note, however, that Pareto interpolation can never be used if the interval contains zero or negative measures of the item of interest. Interpolation is used as follows. The quantity of the item such that "p" percent own more is

$$X_{PW} = \exp \left[\left(\text{Ln} \left(\frac{PN}{N_1} \right) - \text{Ln} \left(\frac{N_2}{N_1} \right) \right) \text{Ln} \left(\frac{A_2}{A_1} \right) \right] A_1 \quad (11)$$

if Pareto Interpolation is indicated and

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

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 _{pw} 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 14. 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 0.6 percentage points.
2. Following step 2, the two percentages of interest are 49.4 and 50.6.
3. By examining table 14, we see that the percentage 49.4 falls in the income interval from 2000 to 2499. (Since 55.5% receive more than \$2,000 per month, the dollar value corresponding to 49.4 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 bond of a 68% confidence interval for the median is

$$\$2,000 \exp \left[\left(\text{Ln} \left(\frac{(.494)(39,851,000)}{22,106,000} \right) \right) \text{Ln} \left(\frac{16,307,000}{22,106,000} \right) \right] \text{Ln} \left(\frac{2,500}{2,000} \right) = \$2177$$

Also by examining table 14, we see that 50.6 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

$$\$2,000 \exp \left[\left(\text{Ln} \left(\frac{(.506)(39,851,000)}{22,106,000} \right) \right) \text{Ln} \left(\frac{16,307,000}{22,106,000} \right) \right] \text{Ln} \left(\frac{2,500}{2,000} \right) = \$2137$$

Thus, the 68-percent confidence interval on the estimated median is from \$2137 to \$2177. An approximate standard error is

$$\frac{\$2177 - \$2137}{2} = \$20$$

Standard Errors of Ratios of Means and Medians. The standard error for a ratio of means or medians is approximated 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.

SMD:DButler:sc:DBUT133

Table 1. 1990 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 Utilization of Health Care Services Functional Limitations & Disability Work Schedule
4	Assets & Liabilities Retirement Expectations & Pensions Plan Coverage Real Estate, Property, and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Child Support Agreements Support of Non-household Members Utilization of Health Care Services Functional Limitations & Disability Not in Labor Force Spells
7	Selected Financial Assets Medical Expenses & Work Disability Real Estate Shelter Costs Dependent Care Vehicles
8	Annual Income & Retirement Accounts Taxes School Enrollment & Financing

Table 2. 1991 Panel Topical Modules for Waves 1 through 5¹

<u>Wave</u>	<u>Topical Module</u>
1	None
2	Welfare History Reciprocity History Employment History Work Disability History Education and Training History Marital History Migration History Fertility History Household Relationships
3	Work Schedule Child Care Arrangements Child Support Agreements Support for Non-household Members Functional Limitations & Disability Utilization of Health Care Services
4	Selected Financial Assets Medical Expenses & Work Disability Real Estate Shelter Costs Dependent Care Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing

¹ Topical Modules for waves 6 through 8 are not yet available.

Table 4. Reference Months for Each Interview Month - 1991 Panel

Month of Interview	Wave/ Rotation	Reference Period																					
		<u>4th Quarter</u> (1990)			<u>1st Quarter</u> (1991)			<u>2nd Quarter</u> (1991)			<u>3rd Quarter</u> (1991)			...	<u>2nd Quarter</u> (1993)			<u>3rd Quarter</u> (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 5. 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 5 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 6: SIPP Generalized Variance Parameters for 1990 Panel
Public Use File -- Preliminary *

Characteristics	Parameters		
	a	b	f
TOTAL PERSONS			
16+ Program Participation and Benefits, Poverty (3)			
Both Sexes	-0.0000843	14344	0.90
Male	-0.0001772	14344	
Female	-0.0001604	14344	
16+ Income and Labor Force (5)			
Both Sexes	-0.0000287	4890	0.52
Male	-0.0000605	4890	
Female	-0.0000547	4890	
16+ Pension Plan ** (4)			
Both Sexes	-0.0000525	8956	0.71
Male	-0.0001108	8956	
Female	-0.0001001	8956	
All Others *** (6)			
Both Sexes	-0.0000771	17784	1.00
Male	-0.0001595	17784	
Female	-0.0001493	17784	
WHITE PERSONS			
16+ Program Participation and Benefits, Poverty (3)			
Both Sexes	-0.0000934	15898	0.95
Male	-0.0001964	15898	
Female	-0.0001778	15898	
16+ Income and Labor Force (5)			
Both Sexes	-0.0000318	5420	0.55
Male	-0.0000670	5420	
Female	-0.0000606	5420	
16+ Pension Plan ** (4)			
Both Sexes	-0.0000582	9926	0.75
Male	-0.0001228	9926	
Female	-0.0001110	9926	
All Others *** (6)			
Both Sexes	-0.0000855	19710	1.05
Male	-0.0001768	19710	
Female	-0.0001655	19710	

Table 6 cont'd. SIPP Generalized Variance Parameters for 1990
Panel Public Use File -- Preliminary *

Characteristics	Parameters		
	a	b	f
BLACK PERSONS			
Poverty (1)			
Both Sexes	-0.0003182	8843	0.71
Male	-0.0006793	8843	
Female	-0.0005987	8843	
All Others *** (2)			
Both Sexes	-0.0001723	4755	0.52
Male	-0.0003704	4755	
Female	-0.0003223	4755	
HISPANIC PERSONS			
Poverty (1)			
Both Sexes	-0.0000609	10374	0.76
Male	-0.0001282	10374	
Female	-0.0001160	10374	
All Others *** (2)			
Both Sexes	-0.0002294	4755	0.52
Male	-0.0004589	4755	
Female	-0.0006727	4755	
HOUSEHOLDS			
Total	-0.0000641	6043	1.00
White	-0.0000823	6698	1.05
Black	-0.0002888	3018	0.71
Hispanics	-0.0005290	3018	0.71

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

** 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.

*** Use the "All Others" parameter for any type of tabulation not specifically covered by another characteristic in this table.

Table 7. Factors to be Applied to Table 6 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 8. Standard Errors of Estimated Numbers of Households, Families or Unrelated Persons (Numbers in Thousands)

Size of Estimate	Standard Error	Size of Estimate	Standard Error
200	35	15,000	275
300	43	25,000	331
500	55	30,000	349
750	67	40,000	368
1,000	77	50,000	369
2,000	109	60,000	351
3,000	132	70,000	312
5,000	169	80,000	242
7,500	204	90,000	78
10,000	232		

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 9. Standard Errors of Estimated Numbers of Persons (Numbers in Thousands)

Size of Estimate	Standard Error	Size of Estimate	Standard Error
200	60	50,000	835
300	73	80,000	964
600	103	100,000	1005
1,000	133	130,000	1004
2,000	188	135,000	999
5,000	295	150,000	966
8,000	371	160,000	934
11,000	432	180,000	838
13,000	467	200,000	688
15,000	499	210,000	578
17,000	529	220,000	425
22,000	595	230,000	108
26,000	641		
30,000	681		

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 10. Standard Errors of Estimated Percentages of 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	1.73	2.43	3.79	5.20	7.50	8.70
300	1.41	1.99	3.09	4.26	6.20	7.10
500	1.09	1.54	2.40	3.30	4.76	5.50
750	0.89	1.26	1.96	2.69	3.89	4.49
1,000	0.77	1.09	1.69	2.33	3.37	3.89
2,000	0.55	0.77	1.20	1.65	2.38	2.75
3,000	0.45	0.63	0.98	1.35	1.94	2.24
5,000	0.35	0.49	0.76	1.04	1.51	1.74
7,500	0.28	0.40	0.62	0.85	1.23	1.42
10,000	0.24	0.34	0.54	0.74	1.06	1.23
15,000	0.20	0.28	0.44	0.60	0.87	1.00
25,000	0.15	0.22	0.34	0.47	0.67	0.78
30,000	0.14	0.20	0.31	0.43	0.61	0.71
40,000	0.12	0.17	0.27	0.37	0.53	0.61
50,000	0.11	0.15	0.24	0.33	0.48	0.55
60,000	0.10	0.14	0.22	0.30	0.43	0.50
80,000	0.09	0.12	0.19	0.26	0.38	0.43
90,000	0.08	0.11	0.18	0.25	0.35	0.41

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 11. 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	2.97	4.17	6.50	9.00	12.90	14.90
300	2.42	3.41	5.31	7.30	10.50	12.20
600	1.71	2.41	3.75	5.20	7.50	8.60
1,000	1.33	1.87	2.91	4.00	5.80	6.70
2,000	0.94	1.32	2.06	2.83	4.08	4.71
5,000	0.59	0.83	1.30	1.79	2.58	2.98
8,000	0.47	0.66	1.03	1.41	2.04	2.36
11,000	0.40	0.56	0.88	1.21	1.74	2.01
13,000	0.37	0.52	0.81	1.11	1.60	1.85
17,000	0.32	0.45	0.70	0.97	1.40	1.62
22,000	0.28	0.40	0.62	0.85	1.23	1.42
26,000	0.26	0.37	0.57	0.78	1.13	1.31
30,000	0.24	0.34	0.53	0.73	1.05	1.22
50,000	0.19	0.26	0.41	0.57	0.82	0.94
80,000	0.15	0.21	0.32	0.45	0.65	0.75
100,000	0.13	0.19	0.29	0.40	0.58	0.67
130,000	0.12	0.16	0.25	0.35	0.51	0.58
220,000	0.09	0.13	0.20	0.27	0.39	0.45
230,000	0.09	0.12	0.19	0.26	0.38	0.44

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 12. 1990 Topical Module Generalized Variance Parameters

	a	b
Fertility		
# Females (16+)		
Total	-0.0000403	3,982
White	-0.0000526	4,414
Black	-0.0002431	2,878
Hispanic	-0.0006864	4,851
Births (16+ females)		
Total	-0.0000735	7,261
White	-0.0000960	8,048
Black	-0.0004432	5,248
Hispanic	-0.0012518	8,847
 Educational Attainment (16+)		
Wave 2		
Total	-0.0000286	5,424
White	-0.0000372	6,012
Black	-0.0001810	3,921
Hispanic	-0.0002797	3,921
Wave 5		
Total	-0.0000312	5,913
White	-0.0000405	6,553
Black	-0.0001972	4,273
Hispanic	-0.0003048	4,273
 Marital Status and Person's Family Characteristics		
Some HH members (16+)		
Total	-0.0000433	8,209
White	-0.0000563	9,098
Black	-0.0002738	5,933
Hispanic	-0.0004232	5,933
 All HH members (0+)		
Total	-0.0000405	9,975
White	-0.0000534	11,055
Black	-0.0002374	7,209
Hispanic	-0.0003478	7,209

	a	b
Child Support (16+ females)		
Wave 3		
Total	-0.0000612	6,043
White	-0.0000799	6,698
Black	-0.0003698	4,368
Hispanic	-0.0006180	4,368
Wave 6		
Total	-0.0000667	6,587
White	-0.0000871	7,301
Black	-0.0004021	4,761
Hispanic	-0.0006736	4,761
Support for non-household members (16+)		
Wave 3		
Total	-0.0000319	6,043
White	-0.0000414	6,698
Black	-0.0002016	4,368
Hispanic	-0.0003116	4,368
Wave 6		
Total	-0.0000347	6,587
White	-0.0000452	7,301
Black	-0.0002198	4,761
Hispanic	-0.0003396	4,761
Health and Disability (0+)		
Total	-0.0000318	7,818
White	-0.0000419	8,666
Black	-0.0001861	5,651
Hispanic	-0.0002727	5,651
0-15 Child Care		
Wave 3		
Total	-0.0000867	4,890
White	-0.0001195	5,420
Black	-0.0004064	3,535
Hispanic	-0.0008883	5,956
Wave 6		
Total	-0.0000945	5,331
White	-0.0001303	5,908
Black	-0.0004430	3,853
Hispanic	-0.0009682	6,492

	a	b
Welfare History and AFDC		
Both Sexes 18+		
Total	-0.0000783	14,344
White	-0.0001016	15,898
Black	-0.0005025	10,367
Hispanic	-0.0007784	10,367
Males 18+		
Total	-0.0001638	14,344
White	-0.0002112	15,898
Black	-0.0011083	10,367
Hispanic	-0.0015697	10,367
Females 18+		
Total	-0.0001501	14,344
White	-0.0001959	15,898
Black	-0.0009194	10,367
Hispanic	-0.0015441	10,367

Table 13. 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 14. Factors to be Applied to Base Parameters to Obtain Combined Panel Parameters for Estimates 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)

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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)

APPENDIX A-4 - OCCUPATION CLASSIFICATION SYSTEM

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)

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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)

APPENDIX A-4 - OCCUPATION CLASSIFICATION SYSTEM

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)

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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	Weiders 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)

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- 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)

APPENDIX A-5 - INDUSTRY CLASSIFICATION SYSTEM

- 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

1 PG 1		2 CONTROL NUMBER		3 CHECK DIGIT		4 SEGMENT TYPE		5a		6a		6c OFFICE USE ONLY		7 Wave in which Control Card first prepared		8 Form I (PP-10001) 17-75-01		9 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	
A O CODE		PSU Segment		Bag ad. Sample		ADDRESS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60		Publ. Rep. code		EXTRA UNIT Digital unit serial number		OFFICE USE ONLY		Wave in which Control Card first prepared		Form I (PP-10001) 17-75-01		U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	

HOUSEHOLD RECORD (Card of)

17 ENTRY ADDRESS I.O.	18 PERSON NUMBER Assign 101, 102, etc. for wave 1; 201, 202, etc. for wave 2	19a HOUSEHOLD ROSTER FIRST INTERVIEW AT WAVE 1 ADDRESS - What are the names of all persons living or staying here? Start with the name of the person or one of the persons who lives, unless this house. Please include middle and maiden names. Leave one blank space between each part of name. FIRST INTERVIEW AT MOVER'S NEW ADDRESS for mover's new address - Fill items 17-19 before the interview. LAST, First, Middle, Maiden	19b RELATIONSHIP TO REFERENCE PERSON (RP) Ask if not apparent: What is ...'s relationship to blood name of RP? Example: Reference person, wife or husband, son, daughter, son-in-law, sister, foster son, partner, lodger, lodger to wife. See codes on page 4	20 HOUSEHOLD MEMBER Does ... usually live here? 1-Yes 2-No - Probe for LIVE	23 DATE ENTERED OR LEFT Complete if instructed by item 21, enter code and date. See codes on page 4	24 BIRTH DATE/AGE a. What is ...'s date of birth? Example: 01-20-1863 12-01-1924 Verify age using Flashcard G b. ... is now (Read age) years old, is that correct?	25 PERSON NUMBER OF PARENT Refer to 18 and 19b. If none enter "999"	26a ASK IF 18 OR OLDER PERSON MARRIAGE STATUS b. ... was - Married 1-Mar. 2-Div. 3-Widowed 4-Separated 5-Never married? First Update code	26b ASK IF 18 OR OLDER PERSON NUMBER OF SPOUSE Refer to 18 and 19b. If none enter "999"	27 DESIGNATED PARENT OR GUARDIAN Fill for "Never married" persons under 18. If no parent, etc. Who in this household is responsible for ...? Enter person number	28 SEX Ask if not apparent: 1-Male 2-Female	29 RACE SHOW FLASH-CARD H What is the race of each person in this household? See codes on page 4	30 ORIGIN SHOW FLASH-CARD I What is the origin or descent of each person in this household? See codes on page 4
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21 HOUSEHOLD ROSTER COVERAGE	21a WAVE 1 INTERVIEW	21b SUBSEQUENT INTERVIEWS	21c PERSON NUMBER	21d EDUCATION	21e ARMED FORCES	21f SOCIAL SECURITY
21a WAVE 1 INTERVIEW	21a WAVE 1 INTERVIEW	21b SUBSEQUENT INTERVIEWS	21c PERSON NUMBER	21d EDUCATION	21e ARMED FORCES	21f SOCIAL SECURITY
21a WAVE 1 INTERVIEW	21a WAVE 1 INTERVIEW	21b SUBSEQUENT INTERVIEWS	21c PERSON NUMBER	21d EDUCATION	21e ARMED FORCES	21f SOCIAL SECURITY

B-1

8 ADDRESS (Sheet 1 of 2)
8a What is your exact address?
 House number, street, Apt. number, or other identification
 Place County State ZIP code
8b Is this also your mailing address? Yes No - Specify below
 Route number, P.O. Box, or other identification
 Place County State ZIP code

8c Special place name
8d Type post office
8e Service number

9 YEAR BUILT
 Ask first visit
 DO NOT ASK
 When was this structure originally built?
 Before 4-1-60 - Continue interview
 After 4-1-60 - Complete item 10 unless required SUP INTERVIEW

10 COVERAGE QUESTIONS
 Ask those marked
 DO NOT ASK
10a Are there any occupied or vacant living quarters building part one on this building?
 Yes - #/ Table J
 No
10b Are there any occupied or vacant living quarters building part one on this floor?
 Yes - #/ Table J
 No
10c Are there any other buildings on this property for people to live in - either occupied or vacant?
 Yes - #/ Table J
 No

11 GEOGRAPHIC LOCATION - FILL ON MOVER'S NEW CONTROL CARD
11a Is this address within the limits of a city, town, or village?
 Yes - What is the name?
 No - Not within the limits of a city, town, or village
11b Address to: Within a SPP PSU
 0-24
 25-49
 50-74
 75-99
 100+
 Miles from SPP PSU
12 LAND USE
 Follow instructions for box that is marked
 URBAN - SPP or Item 12
 RURAL - Reg. units and SP. PL. units coded 85-99 in 8d - ASK Item 12b
 SP. PL. units not coded 85-99 in 8d - Mark "No" in Item 12b without making, then go to Item 12
 Unclassified - ASK 12b, or mark by observation

12b During the past 12 months did sales of crops, livestock, and other farm products from this place amount to \$1,000 or more?
 Yes
 No

13 CLASSIFICATION OF LIVING QUARTERS - Mark by observation
13a FIELD REPRESENTATIVE CHECK ITEM
 Unit is:
 In a Special Place - Refer to Table A in Part C of manual and mark appropriate box in either 13c or 13d
 HOI in a Special Place
13b ACCESS
 Direct - Go to Item 13c
 Through another unit - Not a separate HU; combine with unit through which access is gained. Apply marked unit procedures if appropriate
13c HOUSING UNIT
 House, apartment, flat
 HU, in rooming hotel, motel, etc.
 HU, permanent in transient hotel, motel, etc.
 HU, in rooming house
 Mobile home or trailer with HO permanent room added
 Mobile home or trailer with one or more permanent rooms added
 HU not specified above - Describe in notes
13d OTHER UNIT
 Quarters not HU in rooming or boarding house
 Unit not permanent in transient hotel, motel, etc.
 Unoccupied site for mobile home, trailer, or tent
 OTHER unit not specified above - Describe in notes
13e UNITS IN STRUCTURE
 ASK IF NOT APPARENT - How many housing units both occupied and vacant, see them in this structure?
 Only OTHER units
 Only detached
 Only attached
 Two
 3-4
 5-9
 10-19
 20-49
 50 or more
13f TENURE
 Are you living quarters -
 Owned or being bought by you or someone in your household?
 Rented for cash?
 Occupied without payment of cash rent?
13g CHARACTERISTICS OF UNIT - UPDATE/VERIFY EACH WAVE
 ASK ONLY IF UNIT IS RENTED (otherwise go to Item 13e on page 2, or 21b if first interview at mover's new address)
 In this building is a public housing project, that is, is it owned by a local housing authority?
 Yes - Go to Item 18a, page 2 OR 21b if first interview at mover's new address
 No
 DK
13h Is the Federal, State or local government paying part of the rent for this residence?
 Yes
 No
 DK

14 HOUSEHOLD FINAL INTERVIEW STATUS - Complete after interview
 Wave Code
 (a) (b)
 If codes 06, 1A, or 22, specify (c)
 1
 2
 3
 4
 5
 6
 7
 8

15 CHARACTERISTICS OF TYPE A OR D HOUSEHOLD
 Verify for each wave assigned.
15a Race of reference person
 Get each from husband.
 1
 2
15b Sex of reference person
 Male
 Female
15c Size of household - Count of children and adults
 1
 2
 3
 4
 5
 6
 7
 8

16 RECORD OF VISITS, CONTROL CARD RESPONDENT PERSON NUMBER AND APPOINTMENTS

Wave	Personal visits			Telephone calls			No respondent person number	O - Chron. R - Surt.	Appointment time and date NA - No appointment	Field Representative name
	Tally (a)	Total (a)	Day (a)	Tally (b)	Total (b)	Day (b)				
1										
2										
3										
4										
5										
6										
7										
8										

17 FUTURE CONTACTS - Read Rostercard 1 and 81 30s - a. Verify and update for waves 2-8. If additional contacts required, use page 6.
17a What is your telephone number? Refused None
17b What is the best time to call or visit?
 P.M.
17c Please give me 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.
 Name Relationship to person no.
 Address (No., St., Apt. No., City, State, ZIP code) Telephone number (include area code)

18 CODES FOR HOUSEHOLD INTERVIEW STATUS
 Wave 1 Interview status
 01 - Interviewed
 Type A - Standard interview
 02 - No one home
 03 - Temporarily absent - Refused
 04 - Unable to locate
 06 - Other - Specify
 Type B - Standard interview
 05 - Vacant
 07 - Occupied by persons with U.S. - U.S. or to be distributed
 08 - Under construction, not ready
 09 - Converted to temporary business or storage
 10 - Unoccupied site for public home, trailer, or tent
 11 - Parochial ground, construction not started
 12 - Other - Specify
 Type C - Standard interview
 13 - Damaged
 14 - House or trailer moved
 15 - Converted to permanent business or storage
 16 - Merged
 17 - Carried over
 18 - Other - Specify
 Wave 2-8 Interview status
 01 - Interviewed
 Type A - Standard interview
 02 - No one home
 03 - Temporarily absent
 04 - Refused
 05 - Unable to locate
 06 - Other - Specify
 Type B - Standard interview
 07 - Evict (H) institutionalized or temporarily displaced
 08 - All sample persons referred on new Control Card (H) - old card enter "18" in Item 3d
 Type C - Standard interview
 09 - Deleted sample adjustment (Surt)
 10 - Family household deceased, moved out of country, or living in armed forces barracks
 Type D - Standard interview
 11 - Moved, address unknown
 12 - Moved within country beyond limit
 20 - All sample persons referred on new Control Card (H) - old card enter "18" in Item 3d

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.	Person number	Name	EMPLOYMENT								C.O.L.	Person number	Name	EMPLOYMENT								C.O.L.	Person number	Name	EMPLOYMENT										
			W1	W2	W3	W4	W5	W6	W7	W8				W1	W2	W3	W4	W5	W6	W7	W8				W1	W2	W3	W4	W5	W6	W7	W8			
Emp. I.D.	42 NAME OF EMPLOYER		W1	W2	W3	W4	W5	W6	W7	W8	Emp. I.D.	42 NAME OF EMPLOYER		W1	W2	W3	W4	W5	W6	W7	W8	Emp. I.D.	42 NAME OF EMPLOYER		W1	W2	W3	W4	W5	W6	W7	W8			
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"/>	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"/>	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"/>			
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"/>	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"/>	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"/>			
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"/>	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"/>	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"/>			
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"/>	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"/>	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"/>			
Bus. I.D.	43 NAME OF BUSINESS/FARM		W1	W2	W3	W4	W5	W6	W7	W8	Bus. I.D.	43 NAME OF BUSINESS/FARM		W1	W2	W3	W4	W5	W6	W7	W8	Bus. I.D.	43 NAME OF BUSINESS/FARM		W1	W2	W3	W4	W5	W6	W7	W8			
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"/>	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"/>	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"/>			
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"/>	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"/>	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"/>			
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"/>	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"/>	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"/>			
Line No.	Code	44 PERSON INTERVIEW STATUS		W1	W2	W3	W4	W5	W6	W7	W8	Line No.	Code	44 PERSON INTERVIEW STATUS		W1	W2	W3	W4	W5	W6	W7	W8	Line No.	Code	44 PERSON INTERVIEW STATUS		W1	W2	W3	W4	W5	W6	W7	W8
0		Ineligible for interview (code 993)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		Ineligible for interview (code 993)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		Ineligible for interview (code 993)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1		Noninterview - No interview obtained (code 991)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		Noninterview - No interview obtained (code 991)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		Noninterview - No interview obtained (code 991)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2		Interview - No ISS codes marked (code 992)		<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		Interview - No ISS codes marked (code 992)		<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		Interview - No ISS codes marked (code 992)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Line No.	Code	45 INCOME SOURCES (1-58)		Mark box only if indicated on ISS								Line No.	Code	45 INCOME SOURCES (1-58)		Mark box only if indicated on ISS								Line No.	Code	45 INCOME SOURCES (1-58)		Mark box only if indicated on ISS							
3				W1	W2	W3	W4	W5	W6	W7	W8	3				W1	W2	W3	W4	W5	W6	W7	W8	3				W1	W2	W3	W4	W5	W6	W7	W8
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"/>	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"/>	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"/>
5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10		46 ASSETS (100-150)		W1	W2	W3	W4	W5	W6	W7	W8	10		46 ASSETS (100-150)		W1	W2	W3	W4	W5	W6	W7	W8	10		46 ASSETS (100-150)		W1	W2	W3	W4	W5	W6	W7	W8
11				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17		47 SPECIAL INDICATORS		W1	W2	W3	W4	W5	W6	W7	W8	17		47 SPECIAL INDICATORS		W1	W2	W3	W4	W5	W6	W7	W8	17		47 SPECIAL INDICATORS		W1	W2	W3	W4	W5	W6	W7	W8
18				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

B1-3

34 MOVERS

Person number(s)	Enter NH moved <input type="checkbox"/> - If box is marked NH 3-4	New telephone number
New address - Number and street		
City	State	ZIP Code
Other identification		Wave move discovered

Person number(s)	New telephone number
New address - Number and street	
City	State
Other identification	
Wave move discovered	

Person number(s)	New telephone number
New address - Number and street	
City	State
Other identification	
Wave move discovered	

Person number(s)	New telephone number
New address - Number and street	
City	State
Other identification	
Wave move discovered	

FORM 4, Cont'd

OFFICE USER ONLY **00E1**

211 If entire household moves, try to determine: is the address within the limits of a city, town, or village?

Yes - What is the name?

No - Not within the limits of a city, town, or village

35 MERGED HOUSEHOLD MATCH TABLE

New person number	PREVIOUS IDENTIFICATION					
	PSU (a)	Segment (b)	Serial (c)	Sample designation (d)	Entry address ID (e)	Person number (f)
0058	0068	0060	0062	0064	0066	0068
0070	0072	0074	0076	0078	0080	0082
0084	0086	0088	0090	0092	0094	0096
0098	0100	0102	0104	0106	0108	0110
0112	0114	0116	0118	0120	0122	0124
0126	0128	0130	0132	0134	0136	0138
0140	0142	0144	0146	0148	0150	0152
0154	0156	0158	0160	0162	0164	0166

<p>CODES FOR 18b</p> <p>01 - Reference Person WITH relatives in household</p> <p>02 - Reference Person with NO relatives in household</p> <p>03 - Husbands/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 OWN relatives in household</p> <p>12 - Partner/roommate</p> <p>13 - Non-relative of Reference Person (either than partner/roommate) with NO OWN relatives in household</p>	<p>ENTERED CODES FOR 23</p> <p>Entered - This Wave</p> <p>01 - Birth</p> <p>02 - Marriage</p> <p>03 - Other</p> <p>04 - (Use only with Item 21d)</p> <p>13 - Re-entered sample after missing one or more waves</p> <p>16 - From institution</p> <p>17 - From Armed Forces barracks</p> <p>18 - From outside the country</p> <p>19 - Due to separation or divorce</p> <p>Entered - Should have been deleted in a previous wave</p> <p>21 - Birth</p> <p>22 - Marriage</p> <p>23 - Other</p> <p>24 - Sample person added during second interview period</p> <p>36 - From institution</p> <p>37 - From Armed Forces barracks</p> <p>38 - From outside the country</p> <p>39 - Due to separation or divorce</p>	<p>LEFT CODES FOR 23</p> <p>Left - This Wave</p> <p>06 - Deceased</p> <p>09 - 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>89 - Listed in error</p> <p>Left - Should have been deleted in a previous wave</p> <p>26 - Deceased</p> <p>29 - 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>CODES FOR 30</p> <p>01 - German</p> <p>02 - English</p> <p>03 - American Indian, Eskimo or Aleut</p> <p>04 - Aalen or Pacific Islander</p> <p>05 - Other - Specify below</p> <p>Person No. Specify race</p> <p>06 - Italian</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 - Afro-Amer. (Black or Negro)</p> <p>20 - Another group not listed</p> <p>22 - Don't know</p>	<p>CODES FOR 28</p> <p>1 - White</p> <p>2 - Black</p> <p>3 - American Indian, Eskimo or Aleut</p> <p>4 - Aalen or Pacific Islander</p> <p>5 - Other - Specify below</p> <p>Person No. Specify race</p> <p>6 - Other</p> <p>7 - Other</p>
--	--	---	--	--

39 FUTURE CONTACTS (Continued) - Read Flashcard T and # 38c. Verify and update for Waves 2-8.

39c Please give me 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.

Name	Relationship to person no. _____
Address (No., St., Apt. No., City, State, ZIP Code)	Telephone number (include area code)

39 FUTURE CONTACTS (Continued) - Read Flashcard T and # 38c. Verify and update for Waves 2-8.

39c Please give me 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.

Name	Relationship to person no. _____
Address (No., St., Apt. No., City, State, ZIP Code)	Telephone number (include area code)

39 FUTURE CONTACTS (Continued) - Read Flashcard T and # 38c. Verify and update for Waves 2-8.

39c Please give me 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.

Name	Relationship to person no. _____
Address (No., St., Apt. No., City, State, ZIP Code)	Telephone number (include area code)

BI-4

Form **SIPP-10800**
(1-4-92)

NOTICE - Your report to the Census Bureau is confidential by law (title 13, U.S. Code). It may be seen only by sworn Census employees and may be used only for statistical purposes.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

**SURVEY OF INCOME
AND PROGRAM
PARTICIPATION
1990 PANEL
WAVE 3 QUESTIONNAIRE**

P G M S	1. Book _____ of _____	2. (cc 1) R.O. code _____	3a. (cc 2) PSU _____ Segment _____ Serial _____ Sample _____	Check digit _____	b. (cc 3) Add. ID _____
	4. (cc 17) a. Entry Add. ID _____				
b. PERSON Number (cc 18) _____			c. Name (cc 19a) First _____ Middle initial _____		
5. PERSON CHARACTERISTICS - Fill a, b, c, and d using the control card					
a. Relationship code (cc 19b) _____		b. Date of birth (cc 24) Month _____ Day _____ Year _____		c. Sex code (cc 28) _____	d. Marital status code (cc 26a) _____
6. Field representative identification					
Code _____ Name _____					

7. PERSON INTERVIEW STATUS

a. Interview
 Self
 Proxy (Enter person number) _____ } **SKIP to 8**

b. Noninterview
 Type Z refusal Type Z other

CHECK ITEM N1 Does ...'s person number begin with an "8"?

0907 Yes
0900 No - SKIP to section 1, item 1, page 2

8. Date of interview for this person
 _____ Month _____ Day } Fill start time in item 9a, then go to Introduction

CHECK ITEM N2 Was ... missed when household members were listed for Wave 1?

0901 Yes - SKIP to section 1, item 1, page 2
 No

9a. Interview time for this person

	Initial visit	Callback visit
Start time →	a.m. _____ p.m. _____	a.m. _____ p.m. _____
Finish time →	a.m. _____ p.m. _____	a.m. _____ p.m. _____

b. Total interview time for this person _____ Minutes

13a. On March 31, 1990, was ... living in an Armed Forces barracks, outside the United States, or in a nonhousehold setting?

0914 Yes x1 DK } SKIP to section 1, item 1, page 2
 No - SKIP to section 1, item 1, page 2 x2 Ref.

10a. Field representative edit time

	Start time →	_____ a.m. _____ p.m.
	Finish time →	_____ a.m. _____ p.m.

b. Total edit time _____ Minutes

ASK OR VERIFY -

0918 **b. Which kind of place?**
 Armed Forces barracks Nonhousehold setting
 Outside the United States

11a. Pre-interview transcription time

	Start time →	_____ a.m. _____ p.m.
	Finish time →	_____ a.m. _____ p.m.

b. Total pre-interview time for transcription _____ Minutes

12. Phone interview Personal interview

NOTES

REMINDER - Fill at the end of interview.

Respondent used flashcards?
 Yes
 No

INTRODUCTION

FIELD REPRESENTATIVE INSTRUCTIONS - Read introduction once to each respondent.

(As I described during my last visit.) This survey is about the economic situation of people living in the United States. Most of the questions will be about ...'s activities during _____, and _____.

Do you have the flashcard pamphlet that we included with the letter? (Allow time for respondent to locate pamphlet.) Please look at Card J. Card J is a calendar that shows the 4 months we will be talking about. This time period is very important, so if you have any questions about what period is being referred to during the interview, please ask me.

We need the most accurate and complete information possible. Please think carefully about each question, search your memory and take your time in answering. For some of the questions it will help to look up the answers by checking whatever records you have available. (GO TO CHECK ITEM N1.)

Section 5 – TOPICAL MODULES

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS

STATEMENT C

The purpose of this part of our interview is to get the most accurate picture possible of the situation of persons and families during calendar year 1991. It would be very helpful to refer to records during this part of the interview.

CHECK ITEM T1	Are the names of any businesses listed for ... on the control card? (cc item 43)	8000	1 <input type="checkbox"/> Yes – SKIP to 1b 2 <input type="checkbox"/> No
CHECK ITEM T2	Was an interview obtained for ... for each of the 4th, 5th, 6th, and 7th waves (cc items 44, 45, 46, and 47)?	8002	1 <input type="checkbox"/> Yes – SKIP to Statement D, page 57 2 <input type="checkbox"/> No
1 a.	Did ... own and operate a business at any time during calendar year 1991? <i>Include farms.</i>	8004	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to Statement D, page 57
	ASK OR VERIFY – b. How many different businesses did ... own and operate during calendar year 1991?	8008	<input type="text"/> Businesses OR x3 <input type="checkbox"/> None – SKIP to Statement D, page 57
	ASK OR VERIFY – c. What were the names of the businesses that ... owned and operated during calendar year 1991? (List up to 2 businesses; list according to net income from business beginning with the business providing the largest net income.)	8010	Business name _____ _____ Business name _____ _____
CHECK ITEM T3	Transcribe ID number for this business from the control card (cc item 43). <i>(Fill items T3–T9 for the first business listed; then fill items T3–T9 if a second business is listed.)</i>	8010	<input type="checkbox"/> Business ID No. OR x3 <input type="checkbox"/> Not listed on control card
CHECK ITEM T4	Has information about this business already been obtained in an interview for another household member?	8012	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 2a
	FIELD REPRESENTATIVE INSTRUCTION: Enter name, person number, and business ID number of the other owner who previously reported the business to indicate the location of the information about this business.	8014	Name _____ Person number <input type="text"/> Business ID number <input type="text"/> OR x3 <input type="checkbox"/> Not listed on control card
		8016	Name _____ Person number <input type="text"/> Business ID number <input type="text"/> OR x3 <input type="checkbox"/> Not listed on control card
		8018	1 <input type="checkbox"/> Sole proprietorship 2 <input type="checkbox"/> Partnership 3 <input type="checkbox"/> Corporation x1 <input type="checkbox"/> DK
		8020	1 <input type="checkbox"/> Own home 2 <input type="checkbox"/> Somewhere else
2 a.	What was the form of this (business/practice) – was it a sole proprietorship, a partnership, or a corporation?	8068	1 <input type="checkbox"/> Sole proprietorship 2 <input type="checkbox"/> Partnership 3 <input type="checkbox"/> Corporation x1 <input type="checkbox"/> DK
	b. Was this business primarily located in ...'s own home or somewhere else?	8070	1 <input type="checkbox"/> Own home 2 <input type="checkbox"/> Somewhere else

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

<p>2k. What was ...'s net income from this (business/practice) in 1991? Please use records if they are available.</p> <p align="center">★</p> <p><i>Obtain estimate, if necessary.</i></p>	<p>8202 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T8</p> <p>x3 <input type="checkbox"/> None x2 <input type="checkbox"/> Ref. x1 <input type="checkbox"/> DK</p> <p>8204 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box – SKIP to Check Item T8</p>	<p>8252 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T8</p> <p>x3 <input type="checkbox"/> None x2 <input type="checkbox"/> Ref. x1 <input type="checkbox"/> DK</p> <p>8254 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box – SKIP to Check Item T8</p>
<p>l. If I were to call back later could you provide me with an estimate? (This information is especially important for the purpose of this survey.)</p>	<p>8206 1 <input type="checkbox"/> Yes – Mark Callback Summary and Reminder Card, Item 12</p> <p>2 <input type="checkbox"/> No</p>	<p>8256 1 <input type="checkbox"/> Yes – Mark Callback Summary and Reminder Card, Item 12</p> <p>2 <input type="checkbox"/> No</p>
<p>CHECK ITEM T8 Refer to item 2d. Were any other household members part owners of this business?</p>	<p>8208 1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No – SKIP to Check Item T9</p>	<p>8258 1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No – SKIP to Check Item T10</p>
<p>2m. Apart from the net income already reported for ..., did (Read names of other household owners) receive any net income in 1991 from this (business/practice)?</p>	<p>8210 1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No } SKIP to Check Item T9</p> <p>x1 <input type="checkbox"/> DK</p>	<p>8260 1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No } SKIP to Check Item T10</p> <p>x1 <input type="checkbox"/> DK</p>
<p>n. What was the amount of net income that was received by (Read names of other household owners)?</p> <p><i>Obtain estimate, if necessary.</i></p>	<p>Person No. 8212 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8214 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T9</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8216 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p> <p>SECOND CO-OWNER Person No. 8218 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8220 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T9</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8222 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p>	<p>Person No. 8262 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8264 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T10</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8266 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p> <p>SECOND CO-OWNER Person No. 8268 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8270 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T10</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8272 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p>
<p>CHECK ITEM T9 Is another business listed in item 1c?</p>	<p>8274 1 <input type="checkbox"/> Yes – Complete Check Item T3 for next business</p> <p>2 <input type="checkbox"/> No – SKIP to Statement D</p>	<p align="center">Go to Check Item T10</p>
<p>CHECK ITEM T10 Is the number of businesses recorded in item 1b three or more?</p>	<p>8276 1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No – SKIP to Statement D</p>	
<p>3. What was ...'s net income from ...'s other businesses in 1991? Please use records if they are available.</p>	<p>8278 \$ <input type="text"/> . <input type="text"/> } SKIP to Check Item T9</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8280 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p>	
<p>NOTES</p>		

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

STATEMENT D

The next few questions are about personal retirement plans.

<p>4B. Does ... have an Individual Retirement Account – an IRA – in ...'s OWN name? If ... is only included in ...'s (husband's/wife's) IRA accounts, mark the "No" box.</p>	<p>9330 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 4h x1 <input type="checkbox"/> DK }</p>
<p>b. Did ... make any tax-deductible contributions to IRA accounts which applied to ...'s 1991 tax return? (Contributions which were deducted from gross income.)</p>	<p>9332 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 4d x1 <input type="checkbox"/> DK }</p>
<p>c. How much were ...'s tax-deductible contributions to IRA accounts which applied to ...'s 1991 tax return? (Form 1040, line 24a) (Form 1040A, line 15e)</p>	<p>9334 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
<p>d. Did ... make any withdrawals from ...'s IRA accounts during 1991? Mark "No" if funds were "rolled over" within 60 days of the withdrawal.</p>	<p>9336 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 4f x1 <input type="checkbox"/> DK }</p>
<p>e. How much did ... withdraw from IRA accounts during 1991?</p>	<p>9338 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
<p>f. Including ALL IRA accounts in ...'s OWN name, how much did ...'s IRA accounts earn during 1991?</p>	<p>9340 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
<p>g. What types of assets did ... have in ...'s IRA accounts during 1991? Mark (X) all that apply. Anything else?</p>	<p>9342 1 <input type="checkbox"/> Certificates of deposit or other savings certificates 9344 2 <input type="checkbox"/> Money Market Funds 9346 3 <input type="checkbox"/> U.S. Government Securities 9348 4 <input type="checkbox"/> Municipal or Corporate Bonds 9350 5 <input type="checkbox"/> U.S. Savings Bonds 9352 6 <input type="checkbox"/> Stocks or Mutual Fund Shares 9354 7 <input type="checkbox"/> Other assets – Specify <input type="text"/> 9356 x1 <input type="checkbox"/> DK</p>
<p>h. Does ... have a Keogh account in ...'s OWN name?</p>	<p>9358 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to Check Item T11 x1 <input type="checkbox"/> DK }</p>
<p>i. Did ... make any tax-deductible contributions to a Keogh account which applied to ...'s 1991 tax return?</p>	<p>9360 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 4k x1 <input type="checkbox"/> DK }</p>
<p>j. How much were ...'s tax-deductible contributions to Keogh accounts which applied to ...'s 1991 tax return? (Form 1040, line 27)</p>	<p>9362 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
<p>k. Did ... make any withdrawals from ...'s Keogh accounts during 1991?</p>	<p>9364 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 4m x1 <input type="checkbox"/> DK }</p>

Section 5 — TOPICAL MODULES (Continued)

Part B — TAXES

CHECK ITEM T12	Has tax information for ... already been obtained in an interview for a spouse with whom ... filed a joint return?	9392 1 <input type="checkbox"/> Yes — SKIP to Check Item T19, page 61 2 <input type="checkbox"/> No																					
1a.	Did ... file a Federal income tax return for 1991? <i>Mark "Yes" if ... filed alone or jointly.</i>	9392 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to Check Item T19, page 61																					
b.	Do you have a copy of the tax form or a worksheet that you could refer to for the next few questions?	9394 1 <input type="checkbox"/> Yes — Allow person time to get form 2 <input type="checkbox"/> No																					
2.	What was ...'s filing status on ...'s 1991 Federal tax return? Did ... file as — <i>Read categories — Mark (X) one.</i>	9398 1 <input type="checkbox"/> A single taxpayer? 2 <input type="checkbox"/> Married, filing a joint return? 3 <input type="checkbox"/> Married, filing separately? 4 <input type="checkbox"/> Unmarried head of household? 5 <input type="checkbox"/> Qualifying widow(er) with dependent child? x1 <input type="checkbox"/> DK																					
3a.	What were the total number of exemptions claimed on ...'s tax return?	9398 <input type="text"/> Exemptions — If "01" SKIP to 4 x1 <input type="checkbox"/> DK																					
CHECK ITEM T13	Refer to cc item 20. Number of current household members.	9409 1 <input type="checkbox"/> One — SKIP to 3c 2 <input type="checkbox"/> Two or more																					
3b.	Besides ... which persons in this household did ... claim as an exemption?	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;"></th> <th style="width:20%;">Person No.</th> <th style="width:70%;">Name</th> </tr> </thead> <tbody> <tr> <td>9402</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9404</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9406</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9408</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9410</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9412</td> <td colspan="2">1 <input type="checkbox"/> None in household</td> </tr> </tbody> </table>		Person No.	Name	9402	<input type="text"/>	<input type="text"/>	9404	<input type="text"/>	<input type="text"/>	9406	<input type="text"/>	<input type="text"/>	9408	<input type="text"/>	<input type="text"/>	9410	<input type="text"/>	<input type="text"/>	9412	1 <input type="checkbox"/> None in household	
	Person No.	Name																					
9402	<input type="text"/>	<input type="text"/>																					
9404	<input type="text"/>	<input type="text"/>																					
9406	<input type="text"/>	<input type="text"/>																					
9408	<input type="text"/>	<input type="text"/>																					
9410	<input type="text"/>	<input type="text"/>																					
9412	1 <input type="checkbox"/> None in household																						
ASK OR VERIFY —																							
C.	Did ... claim exemptions for any persons who lived outside of ...'s home for the entire year?	9414 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 4																					
d.	What was the relationship of this (these) person(s) to ...? <i>Record for two persons only.</i>	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="width:50%;">FIRST DEPENDENT</th> <th style="width:50%;">SECOND DEPENDENT</th> </tr> </thead> <tbody> <tr> <td>9418</td> <td>1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other</td> <td>9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other</td> </tr> </tbody> </table>		FIRST DEPENDENT	SECOND DEPENDENT	9418	1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other	9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other															
	FIRST DEPENDENT	SECOND DEPENDENT																					
9418	1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other	9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other																					
4.	Did ... file form 1040, the long form or did ... file one of the short forms, 1040A or 1040EZ? (Form 1040 is blue) (Form 1040A is pink) (Form 1040EZ is green)	9420 1 <input type="checkbox"/> Form 1040 2 <input type="checkbox"/> Form 1040A 3 <input type="checkbox"/> Form 1040EZ } SKIP to Check Item T14 x1 <input type="checkbox"/> DK																					
5.	I am going to mention two forms that people are sometimes required to attach to their tax return. Please tell me if these were included with ...'s 1991 tax return.																						
	(1) Schedule A, Itemized Deductions	9422 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK																					
	(2) Schedule D, Capital Gains and Losses	9424 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK																					

Section 5 – TOPICAL MODULES (Continued)

Part B – TAXES (Continued)

CHECK ITEM T14	Refer to item 1b. Does the respondent have a copy of ...'s Federal income tax form or a worksheet to refer to?	9438	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 9a
CHECK ITEM T15	Refer to item 4. Is "Form 1040" marked?	9439	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 8a
CHECK ITEM T16	Is "Schedule A, Itemized Deductions" marked "Yes" in item 6(1)?	9432	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 6b
6a. How much were ...'s (and ...'s husband's/wife's) itemized deductions for 1991? <i>(Schedule A, line 28)</i>	9434 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. – SKIP to Check Item T17		
b. On ...'s Form 1040, did ... (and ...'s husband/wife) claim – (1) A child and dependent care expense credit... <i>(Form 1040, line 41)</i> (2) A credit for the elderly or the disabled... <i>(Form 1040, line 42)</i>	9448 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 9450 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	(Ask for each credit claimed.) 6c. What was the amount of the (Read name of credit) claimed? 9448 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. 9452 \$ <input type="text"/> . <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	
CHECK ITEM T17	Refer to item 6(2). Is "Schedule D, Capital Gains and Losses" marked "Yes"?	9458	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 8a
7. How much were ...'s (and ...'s husband's/wife's) capital gains or losses from the sale or exchange of personal assets for 1991? <i>(Form 1040, line 13)</i>	9460 \$ <input type="text"/> . <input type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. 9461 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box		
8a. Adjusted gross income is total income less certain types of adjustments and exclusions. Please look at your tax return or worksheet. What was ...'s (and ...'s husband's/wife's) adjusted gross income in 1991? <i>(Form 1040, line 31)</i> <i>(Form 1040A, line 16)</i> <i>(Form 1040EZ, line 3)</i>	9463 \$ <input type="text"/> . <input type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. 9463 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box	} SKIP to 9a	
b. Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments. What was ...'s (and ...'s husband's/wife's) net tax liability in 1991? <i>(Form 1040, line 53)</i> <i>(Form 1040A, line 27)</i> <i>(Form 1040EZ, line 7)</i>	9464 \$ <input type="text"/> . <input type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.		
CHECK ITEM T18	Refer to item 8a. What is the amount of adjusted gross income reported?	9468	1 <input type="checkbox"/> \$ 21,250 or more – SKIP to Check Item T19 2 <input type="checkbox"/> Less than \$ 21,250

Section 5 – TOPICAL MODULES (Continued)

Part C – SCHOOL ENROLLMENT AND FINANCING

Statement E → The next few questions are about school enrollment and financing.

<p>1. Was ... enrolled in school anytime during the past 12 months? (Include any regular school, such as elementary, high school, or college, or any vocational, technical or business school.)</p>	<p>9610 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to Check Item C1, page 64</p>
<p>2. At what level or grade was ... enrolled? (If enrolled at more than one level in the past 12 months, check level in which the greatest amount of time was spent.)</p>	<p>9612 1 <input type="checkbox"/> Elementary grades 1–8 2 <input type="checkbox"/> High school grades 9–12 3 <input type="checkbox"/> College year 1 4 <input type="checkbox"/> College year 2 5 <input type="checkbox"/> College year 3 6 <input type="checkbox"/> College year 4 7 <input type="checkbox"/> College year 5 8 <input type="checkbox"/> College year 6+ 9 <input type="checkbox"/> Vocational school 10 <input type="checkbox"/> Technical school 11 <input type="checkbox"/> Business school 12 <input type="checkbox"/> Other or DK</p>
<p>CHECK ITEM T21 Was ... enrolled in elementary or high school?</p>	<p>9614 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 4</p>
<p>3. Was ... enrolled in a public school? (Mark "Yes" if the school at which ... spent the greatest amount of time was public.)</p>	<p>9618 1 <input type="checkbox"/> Yes – SKIP to Check Item C1, page 64 2 <input type="checkbox"/> No</p>
<p>4. During the past 12 months –</p> <p>a. What was the total cost of ...'s tuition and fees?</p>	<p>9618 \$ <input style="width: 80px;" type="text"/> . <input style="width: 30px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>
<p>b. What was the total cost of ...'s books and supplies?</p>	<p>9620 \$ <input style="width: 80px;" type="text"/> . <input style="width: 30px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>
<p>c. Did ... live away from home while attending school?</p>	<p>9622 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 5a</p>
<p>d. What was the total cost for room and board while away at school?</p>	<p>9624 \$ <input style="width: 80px;" type="text"/> . <input style="width: 30px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>

NOTES

Section 5 -- TOPICAL MODULES (Continued)

Part C -- SCHOOL ENROLLMENT AND FINANCING (Continued)

5a. Please look at card DD in your pamphlet and tell me if ... received any of these types of educational assistance during the past 12 months?	9628 <input type="checkbox"/> None - SKIP to Check Item C1	5b. How much did ... receive?
Anything else?		
(1) The GI Bill?	9629 <input type="checkbox"/> Received	9630 \$ [] . [] x1 <input type="checkbox"/> DK
(2) Other Veterans' Educational Assistance Programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans' assistance.)	9632 <input type="checkbox"/> Received	9634 \$ [] . [] x1 <input type="checkbox"/> DK
(3) College Work Study Program?	9638 <input type="checkbox"/> Received	9639 \$ [] . [] x1 <input type="checkbox"/> DK
(4) A Pell Grant?	9640 <input type="checkbox"/> Received	9642 \$ [] . [] x1 <input type="checkbox"/> DK
(5) A Supplemental Educational Opportunity Grant (SEOG)?	9644 <input type="checkbox"/> Received	9648 \$ [] . [] x1 <input type="checkbox"/> DK
(6) A National Direct Student Loan (NDSL) (or Perkins Loan)?	9648 <input type="checkbox"/> Received	9650 \$ [] . [] x1 <input type="checkbox"/> DK
(7) A guaranteed student loan, such as a Parent Loan for Undergraduate Students (PLUS), Stafford Loan, or Supplemental Loan for Students (SLS)?	9652 <input type="checkbox"/> Received	9654 \$ [] . [] x1 <input type="checkbox"/> DK
(8) A JTPA Training Program?	9658 <input type="checkbox"/> Received	9658 \$ [] . [] x1 <input type="checkbox"/> DK
(9) Employer assistance	9660 <input type="checkbox"/> Received	9662 \$ [] . [] x1 <input type="checkbox"/> DK
(10) A fellowship or scholarship?	9664 <input type="checkbox"/> Received	9666 \$ [] . [] x1 <input type="checkbox"/> DK
(11) A tuition reduction?	9668 <input type="checkbox"/> Received	9670 \$ [] . [] x1 <input type="checkbox"/> DK
(12) Anything else (other than assistance from relatives and friends)?	9672 <input type="checkbox"/> Received	9674 \$ [] . [] x1 <input type="checkbox"/> DK

NOTES

INCOME SOURCE SUMMARY (ISS)

INSTRUCTION — Column (a) shows the income source code. In column (b), mark (X) for all sources from which income was received during the reference period. In column (c), enter the code to indicate whether the respondent used records to verify or provide amounts. Column (d) shows the type of income source. The Amounts section should be filled starting with the page number shown in column (e) for those income sources which have been marked.

ISS code (a)	Mark (X) (b)	Record use code 1 = Yes 2 = No 3 = Ref. 4 = Sp. Q. (c)	Type of income source and income source code <i>REMINER — After obtaining amounts for each income source, probe to determine whether the respondent was using records to provide amounts.</i> (d)	Amounts section page number (e)	
INCOME CODES 1-7					
1			Social Security	(A) - 24 28 32 36 40 44	
2			U.S. Government Railroad Retirement pay		
3			Federal Supplemental Security Income (SSI)		
5			State Unemployment compensation		
6			Supplemental Unemployment Benefits		
INCOME CODES 8-13					
8			Veterans' compensation or pensions		
INCOME CODES 20-29					
20			Aid to Families with Dependent Children (AFDC, ADC)		
24			Other Welfare — Specify		
26			WIC (Women, Infants, and Children Nutrition Program)		
27			Food Stamps		
28			Child Support payments		
29			Alimony payments		
INCOME CODES 30-38					
30			Pension from company or union		
INCOME CODES 40-41					
40			GI Bill education benefits		
INCOME CODES 50-56					
55			Incidental or casual earnings		
ASSET CODES 100-150					
Interest Earning Assets					
100			Regular/passbook/savings accounts in a bank, savings and loan or credit union	(B) - 48	
101			Money market deposit accounts		
102			Certificates of Deposit or other savings certificates		
103			Interest-earning checking accounts (such as NOW or Super NOW accounts)		
104			Money market funds	(C) - 49	
106			U.S. Government securities		
108			Municipal or corporate bonds		
107			Other interest-earning assets	(D) - 50	
110			Stocks or mutual fund shares		
120			Rental property	(E) - 51	
130			Mortgages	(F) - 52	
140			Royalties		
150			Other financial investments		
SPECIAL INDICATOR CODES 170-183, 200, 201					
170			Worked	Section 2	
171			Disabled	DO NOT FILL	
172			Medicare		
173			Medicaid		
174			U.S. Savings Bonds		
200			VA disability rating of 100%		
201			VA disability rating of less than 100%		

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-9.

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
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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 ave 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.)

APPENDIX E

User Notes

This section is reserved for any information relevant to the SIPP 1990 Panel, Wave 8 Topical Module Microdata File that indicates specific problems with the data, or that becomes available after the file is released. Any such information should be filed behind this page.

User Notes will be sent to all users who (1) purchased their file (or technical documentation) from the Census Bureau and (2) returned the coupon following the title page.