

SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)
1990 PANEL
WAVE 7 TOPICAL MODULE MICRODATA FILE

Technical Documentation

Washington, D.C.

1993



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ABSTRACT

Survey of Income and Program Participation (SIPP) 1990 Panel, Wave 7 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 selected financial assets, medical expenses and work disability, and real estate, shelter costs, dependent care, and vehicles.

The sample consists of 4 rotation groups, each interviewed in a different month from February 1992 to May 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 7 interviews or "waves." This file contains the results of the seventh interview. Unique codes are included on each record to allow linking together the same persons from the preceding and subsequent waves.

Geographic Coverage:

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

Technical Description:

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

File Size: 57,054 logical records; 592 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 7 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 and 2 of the 1989 Panel, all waves of the 1990 Panel, and 1991 Waves 1 through 4.

File Availability:

The price of this file is \$175, at 6250 bpi; ASCII or EBCDIC, labeled or unlabeled. The files are also available on tape cartridges (IBM 3480 compatible) for the same price. A machine-readable dictionary is contained at the end of the file. This dictionary is also available separately on one tape reel for \$175. When ordering, please use the order form on the following page.

FILE INFORMATION

Matching Topical Module File with Core File

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

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

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

Geographic Coverage

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

Identification Number System

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

The various components of the identification scheme are listed below:

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

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

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

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

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

Topcoding of Income Variables

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

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

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

GLOSSARY OF SELECTED TERMS

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

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

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

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

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

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

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

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

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

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

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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Motor Vehicle, Amount of Debt on First.....	TM8796	492
Motor Vehicle, Amount of Debt on Second.....	TM8761	442
Motor Vehicle, Amount of Debt on Third.....	TM8762	466
Motor Vehicle, Amount Owed on Second.....	TM8798	513
Motor Vehicle, Existence of Debt on.....	TM8754	416
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<u>Item</u>	<u>Mnemonic</u>	<u>Position</u>
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Motor Vehicle, Existence of Third.....	TM8768	449
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Motor Vehicle, Ownership of Other	TM8776	476
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Person No. of Second Vehicle Owner, Second	TM8726	429
Person Number of First Other Vehicle Owner, First	TM8780	478
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Person Number of First Vehicle Owner, First.....	TM8718	402
Person Number of First Vehicle Owner, Second	TM8724	405
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SIPP 1990 WAVE 7 TOPICAL MODULE

<u>Item</u>	<u>Mnemonic</u>	<u>Position</u>
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Utilities Paid Last Month - Amount Paid by Third Payer.....	TM8558.....	370
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Utilities Paid Last Month - Person Number of Single Payer.....	TM8546.....	346
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ALPHABETICAL VARIABLE LISTING TO 1990 WAVE 7 TOPICAL MODULE

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CALCAR1	Car Value - Calculated for Vehicle 1	583
CALCAR2	Car Value - Calculated for Vehicle 2	584
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FINALWGT	Weight, Second Stage Factor	35
GRD-CMPL	Grade Attended Was Completed, Highest	62
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IMP8204:8312	Selected Financial Assets Imputation Flags	270
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IMP8538:8798	Real Estate, Shelter Costs, Dependent Care, and Vehicles Imputation Flags	537
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PNSP	Person Number Of Spouse	54
PNUM	Person Number, Edited	32
PP-MIS1:5	Persons's Monthly Interview Status	25
RACE	Race - Edited And Imputed	52
ROTATION	Rotation Group	15
RRP	Relationship To Reference Person, Edited	47
SC4314	Assets, Best Estimate of Joint	69
SC4322	Assets, Best Estimate of Individual	77
SC4414	Assets, Best Estimate of Other Joint	85
SC4422	Assets, Best Estimate of Other Individual	93
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TM8032	Check Item A15 - Interview Status Of Spouse	101
TM8034	Market Value of Joint Stocks	102
TM8036	Stocks or Mutual Fund Shares, Callback to Obtain Amount of Joint	108
TM8042	Stocks or Mutual Fund Shares, Other	109
TM8044	Market Value of Stocks in Own Name	110
TM8046	Stocks or Mutual Fund Shares, Callback to Obtain Amount of Individual	116
TM8052	Rental Property Owned Jointly With Spouse	117
TM8054	Properties Owned Jointly With Spouse, Number of	119
TM8056	Properties Attached to or Located on Same Land as Residence, Joint	121
TM8068	Market Value Total of All Joint Properties	122
TM8070	Market Value Total of All Joint Properties - Callback	128
TM8072	Mortgage or Other Debt on Joint Properties	129
TM8074	Principal Owed on Joint Properties	131
TM8076	Rental Property in Own Name	137
TM8078	Properties in Own Name, Number of	139
TM8080	Properties Attached to or Located on Same Land as Residence, Own Name	141
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TM8094	Market Value Total of All Properties in Own Name - Callback	148
TM8096	Mortgage, Deed of Trust, or Other Debt on Property in Own Name	149

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<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
TM8098	Principal Owed on Property in Own Name	151
TM8100	Rental Property Owned Jointly With Other Than Spouse	157
TM8102	Properties Owned With Other Than Spouse, Number of	159
TM8116	Market Value Total of Property Owned With Others	161
TM8118	Mortgage, Deed of Trust, or Other Debt on Property Owned With Others	167
TM8120	Principal Owed on Property Owned With Others	169
TM8122	Equity in Property Owned With Others	175
TM8124	Equity in Property Owned With Other- Callback	181
TM8130	Check Item A21 - ISS Code 150	182
TM8132	Equity in Other Financial Investments	183
TM8204	Savings Bonds, Ownership of	213
TM8206	Savings Bonds, Face Value of	214
TM8208	Check Item T1 - Interview Status Of Spouse	220
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TM8210	Checking Accounts, Estimate of Amount in Joint	223
TM8232	Checking Accounts, Own Non-Interest	229
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TM8258	Age of Respondent	237
TM8260	IRA Account in Own Name	238
TM8262	IRA, Number of Years Contributed to	240
TM8264	IRA, Market Value of	242
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TM8406	Medical Expenses Paid - Prescription Medicine	291
TM8408	Medical Expenses Paid - Type of	293
TM8410	Medical Expenses Total Paid in Last Month	294
TM8412	Age of Respondent	300
TM8414	Retirement Plan, Percent Paid to Second Job	301
TM8416	Disabled Marked on Control Card	302
TM8418	Health Condition Limits Kind or Amount of Work	303
TM8420	Health Condition Limits Kind or Amount of Work, Existence of	304
TM8422	Check Item T7 - Worked Marked on ISS	305
TM8424	Health or Condition Prevents From Working at a Job or Business	306
TM8426	Health or Condition Prevented Working Past 12 Months or Longer	307
TM8428	Health or Condition Allows Work at Some Time in Next 12 Months	308
TM8526	Reference Person's Questionnaire	321
TM8530	Check Item T9 - Tenure	322
TM8532	Person Number of Household Owner Number 1	323
TM8534	Person Number of Household Owner Number 2	326
TM8536	Person Number of Household Owner Number 3	329
TM8538	Rent/Mortgage Payment Last Month, Amount of Household's	332
TM8540	Utilities Paid Last Month, Amount of	338
TM8542	Check Item T10 - Composition of Household	344
TM8544	Utilities Paid Last Month - More Than One Person Paid	345
TM8546	Utilities Paid Last Month - Person Number of Single Payer	346
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VARIABLE LISTING

<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
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TM8552	Utilities Paid Last Month - Person Number of Third Payer	367
TM8554	Utilities Paid Last Month - Amount Paid by First Payer	352
TM8556	Utilities Paid Last Month - Amount Paid by Second Payer	361
TM8558	Utilities Paid Last Month - Amount Paid by Third Payer	370
TM8560	Check Item T11 - Number of Persons in Household	376
TM8562	Child or Disabled Person Care Paid Last Month	377
TM8564	Child or Disabled Person Care - Amount Paid Last Month	378
TM8658	Check Item T12 - Public or Subsidized Residence	384
TM8660	Real Estate, Other	385
TM8662	Owner of Property, First	387
TM8664	Owner of Property, Second	390
TM8666	Value of Equity in Property, Total	393
TM8714	Motor Vehicle, Ownership of	399
TM8716	Motor Vehicles, Number of	400
TM8718	Person Number of First Vehicle Owner, First	402
TM8720	Person No. of Second Vehicle Owner, First	426
TM8722	Person Number of Third Vehicle Owner, First	450
TM8724	Person Number of First Vehicle Owner, Second	405
TM8726	Person No. of Second Vehicle Owner, Second	429
TM8728	Person Number of Third Vehicle Owner, Second	453
TM8730	Year of First Vehicle	408
TM8732	Year of Second Vehicle	432
TM8734	Year of Third Vehicle	456
TM8754	Motor Vehicle, Existence of Debt on	416
TM8756	Motor Vehicle, Existence of Debt on Second	440
TM8758	Motor Vehicle, Existence of Debt on Third	464
TM8760	Motor Vehicle, Amount of Debt on First	418
TM8761	Motor Vehicle, Amount of Debt on Second	442
TM8762	Motor Vehicle, Amount of Debt on Third	466
TM8763	Motor Vehicle Primary Use - First	424
TM8764	Motor Vehicle Primary Use - Second	448
TM8765	Motor Vehicle Primary Use - Third	472
TM8766	Check Item T13 - Motor Vehicle, Existence of Second	425
TM8768	Motor Vehicle, Existence of Third	449
TM8770	Motorcycle, Ownership of	473
TM8772	Boat, Ownership of	474
TM8774	Recreational Vehicle, Ownership of	475
TM8776	Motor Vehicle, Ownership of Other	476
TM8778	Motor Vehicle, Ownership of No Other	477
TM8780	Person Number of First Other Vehicle Owner, First	478
TM8782	Person Number Second Other Vehicle Owner, First	499
TM8784	Person Number of First Other Vehicle Owner, Second	481
TM8786	Person Number Second Other Vehicle Owner, Second	502
TM8788	Value of First Vehicle	484
TM8790	Value of Second Vehicle	505
TM8792	Motor Vehicle, Existence of Debt on First	490
TM8794	Motor Vehicle, Existence of Debt on Second	511
TM8796	Motor Vehicle, Amount of Debt on First	492
TM8798	Motor Vehicle, Amount Owed on Second	513
TM8800	Check Item T18 - Motor Vehicles, Existence of Other	498
TMCARVA1	Car Value - Vehicle 1	519
TMCARVA2	Car Value - Vehicle 2	525
TMCARVA3	Car Value - Vehicle 3	531
WAVE	Wave Number Associated With Interview Status - Control Card Item 36A	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 7 TOPICAL MODULE DATA DICTIONARY

DATA	SIZE	BEGIN	DATA	SIZE	BEGIN
D SUSEQNUM	5	1	D ADDID	2	20
	Sequence number of sample unit Primary sort key			Address ID. - This field differentiates households within the same PSU, segment and serial, that is, households which originate out of an original sample household	
D ID	9	6	U All households		
	Sample unit identifier This identifier is created by scrambling together the PSU, segment and serial of the original sample address. It may be used in matching sample units from different waves		D ITEM36B	2	22
D ROTATION	1	15		Control card item 36B - Interview status code	
	Rotation		U All households		
D STATE	2	16	V	01	.Interviewed
	FIPS state code from the MST/GRIN File		V	Type A Noninterview	
V	01	.Alabama	V	02	.No one home
V	04	.Arizona	V	03	.Temporarily absent
V	05	.Arkansas	V	04	.Refused
V	06	.California	V	05	.Unable to locate
V	08	.Colorado	V	06	.Other type A
V	09	.Connecticut	V	Type B Noninterview (Wave 1)	
V	10	.Delaware	V	09	.Vacant
V	11	.District Of Columbia	V	10	.Occupied by persons with URE
V	12	.Florida	V	11	.Unfit or to be demolished
V	13	.Georgia	V	12	.Under construction, not ready
V	15	.Hawaii	V	13	.Converted to temporary business .or storage
V	17	.Illinois	V	14	.Unoccupied site for mobile .home, trailer, or tent
V	18	.Indiana	V	15	.Permit granted, construction .not started
V	20	.Kansas	V	.16 Other Type B	
V	21	.Kentucky	V	Type B Noninterview (Wave 2+)	
V	22	.Louisiana	V	16	.Entire HH institutionalized .or temporarily ineligible
V	24	.Maryland	V	Type C Noninterview (Wave 1)	
V	25	.Massachusetts	V	17	.Demolished
V	26	.Michigan	V	18	.House or trailer moved
V	27	.Minnesota	V	19	.Converted to permanent .business or storage
V	28	.Mississippi	V	20	.Merged
V	29	.Missouri	V	21	.Condemned
V	31	.Nebraska	V	Type C Noninterview (Wave 2+)	
V	32	.Nevada	V	22	.Deleted (sample adjustment, .error)
V	33	.New Hampshire	V	23	.Entire household deceased, .moved out of country, or living .in Armed Forces barracks
V	34	.New Jersey	V	Type D Noninterview (Wave 2+)	
V	35	.New Mexico	V	24	.Moved, address unknown
V	36	.New York	V	25	.Moved within country beyond .limit
V	37	.North Carolina	V	26	.All sample persons relisted on .new control card(s)
V	39	.Ohio			
V	40	.Oklahoma	D INTW	1	24
V	41	.Oregon		Person's interview status	
V	42	.Pennsylvania	U All persons, including children		
V	44	.Rhode Island	V	0	.Not applicable (children .under 15)
V	45	.South Carolina	V	1	.Interview (self)
V	47	.Tennessee	V	2	.Interview (proxy)
V	48	.Texas	V	3	.Noninterview - type 2 refusal
V	49	.Utah	V	4	.Noninterview - type 2 other
V	51	.Virginia			
V	53	.Washington			
V	54	.West Virginia			
V	55	.Wisconsin			
V	61	.Maine, Vermont			
V	62	.Iowa, North Dakota, South Dakota			
V	63	.Alaska, Idaho, Montana, Wyoming			
D PINX	2	18			
	Person index from core				

SIPP 1990 WAVE 7 TOPICAL MODULE

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 PNUM	3	32
	Edited person number	
U	All persons, including children	
D FINALWGT	12	35
	'STAGE1WT' * second stage factor	
U	All persons, including children	
D RRP	1	47
	Edited relationship to reference person	
U	All persons, including children	
V	0	.Not a sample person in this .month
V	1	.Household reference person, .living with relatives
V	2	.Household reference person .living alone or with only .non-relatives (primary .individual)
V	3	.Spouse of household reference .person
V	4	.Child of household reference .person
V	5	.Other relative of household .reference person
V	6	.Non-relative of household .reference person but related to .others in the household-member .of an unrelated sub (secondary) .family
V	7	.Non-relative of household .reference person and not .related to anyone else in the .household (secondary individual)

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 a person's marital status changed during any month, the marital status shown is the status maintained for the greatest part of the month - edited and imputed	
U	Persons 15 years old or older	
V	0	.Not a sample person in this .month
V	1	.Married, spouse present
V	2	.Married, spouse absent
V	3	.Widowed
V	4	.Divorced
V	5	.Separated
V	6	.Never married
D PNSP	3	54
	Person number of spouse	
U	Persons 15 years old or older	
V	000	.Not a sample person in this .month
V	999	.Not applicable
D PNPT	3	57
	Person number of parent	
U	Persons 15 years old or older	
V	000	.Not a sample person in this .month
V	999	.Not applicable
D HIGRADE	2	60
	What is the highest grade or year of regular school this person attended?	
U	Persons 15 years old or older	
V	00	.Not applicable if under 15, .did not attend or attended .only kindergarten
V	01-08	.Elementary
V	09-12	.High school
V	21-26	.College
D GRD-CMPL	1	62
	Did he/she complete that grade	
U	Persons 15 years old or older	
V	0	.Not applicable
V	1	.Yes
V	2	.No

DATA DICTIONARY

DATA SIZE BEGIN

D TM8092 6 142
 (Excluding properties attached to or located on ...'s own residence), as of(last day of reference period) what was the total market value of the property(ies)

U Persons who own rental property in own name on last day of reference period

V 000000 .Not applicable
 V 3-380000 .Total amount - skip to
 V .TM8096

D TM8094 1 148
 If I were to call back later would you be able to provide me with an estimate of the amount

U Persons who own rental property in own name on last day of reference period but don't know value

V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM8096 2 149
 Was there a mortgage, deed of trust, or other debt on the property(ies)

U Persons who own rental property in own name on last day of reference period

V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to SC4618

D TM8098 6 151
 As of(last day of reference period) how much principal was owed on the property(ies)

U Persons who own rental property in own name that has mortgage, deed of trust, or other debt on property

V 000000 .Not applicable
 V 3-200000 .Total amount
 V -00003 .None

D TM8100 2 157
 Did ... own any rental property jointly with others (as of last day of reference period) not including property owned entirely by ... and ...'s spouse

U Persons who own rental property

V 00 .Not applicable
 V 01 .Yes
 V 02 .No -skip to next ISS code or
 V .TM8200

D TM8102 2 159
 How many properties did ... own jointly with others (as of last day of reference period)

U Persons who own rental property jointly with someone other than spouse on last day of reference period

V 00 .Not applicable
 V 01 - 99 .Number of properties
 V -3 .None - skip to next ISS
 V .code or TM8200

D TM8116 6 161
 As of(last day of reference period) what was the total market value of the property(ies)

DATA SIZE BEGIN

U Persons who own rental property jointly with someone other than spouse on last day of reference period

V 000000 .Not applicable
 V 3-900000 .Total amount

D TM8118 2 167
 Was there a mortgage, deed of trust, or other debt on the property(ies)

U Persons who own rental property jointly with someone other than spouse on last day of reference period

V 00 .Not applicable
 V 01 .Yes
 V 02 .No

D TM8120 6 169
 As of (last day of reference period) how much principal was owed on the property(ies)

U Persons who own rental property jointly with someone other than spouse on last day of reference period that has mortgage, deed of trust, or other debt

V 000000 .Not applicable
 V 3-300000 .Total amount
 V -00003 .None

D TM8122 6 175
 As of (last day of reference period) what was the total value of... 's share of equity in the property(ies) (by equity we mean the total market value less any debts held against it.)

U Persons who own rental property jointly with someone other than spouse on last day of reference period

V 000000 .Not applicable
 V 3-200000 .Total amount - skip to
 V .next ISS code or TM8200
 V -00003 .None

D TM8124 1 181
 If I were to call back later would you be able to provide me with an estimate of the amount

U Persons who own rental property jointly with someone other than spouse on last day of reference period who don't know value of equity in properties

V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM8130 1 182
 Check item A21
 Is ISS code 150 marked in Check Item A17

U Persons with other financial investments

V 0 .Not applicable
 V 1 .Yes
 V 2 .No

SIPP 1990 WAVE 7 TOPICAL MODULE

DATA	SIZE	BEGIN	DATA	SIZE	BEGIN
D TM8132	6	183	D IMP8092	1	201
As of (last day of reference period)			Topical modules imputation flag		
what was...s equity in other			Imputation of 'TM8092'		
financial investments (by equity			D IMP8096	1	202
we mean the total market value less			Topical modules imputation flag		
any debts held against it.)			Imputation of 'TM8096'		
U Persons with other financial investments			D IMP8098	1	203
V 000000 .Not applicable			Topical modules imputation flag		
V 4-999999 .Total amount -skip to TM8200			Imputation of 'TM8098'		
V -00003 .None - skip to TM8200			D IMP8100	1	204
*****			Topical modules imputation flag		
* COMMENT			Imputation of 'TM8100'		
* Imputation flags for G2-type record			D IMP8102	1	205
* *			Topical modules imputation flag		
* The possible answers are:			Imputation of 'TM8102'		
* *			D IMP8116	1	206
* V 0 .Not imputed			Topical modules imputation flag		
* V 1 .Imputed			Imputation of 'TM8116'		
*****			D IMP8118	1	207
D IMP8034	1	189	Topical modules imputation flag		
Topical modules imputation flag			Imputation of 'TM8118'		
Imputation of 'TM8034'			D IMP8120	1	208
D IMP8042	1	190	Topical modules imputation flag		
Topical modules imputation flag			Imputation of 'TM8120'		
Imputation of 'TM8042'			D IMP8122	1	209
D IMP8044	1	191	Topical modules imputation flag		
Topical modules imputation flag			Imputation of 'TM8122'		
Imputation of 'TM8044'			D IMP8132	1	210
D IMP8052	1	192	Topical modules imputation flag		
Topical modules imputation flag			Imputation of 'TM8132'		
Imputation of 'TM8052'			assets and liabilities		
D IMP8054	1	193	D FILLER	2	211
Topical modules imputation flag			Blank filler		
Imputation of 'TM8054'			*****		
D IMP8056	1	194	* Part A - Selected Financial Assets and *		
Topical modules imputation flag			* Liabilities *		
Imputation of 'TM8056'			*****		
D IMP8068	1	195	D TM8204	1	213
Topical modules imputation flag			Did ... own any U.S. savings bonds		
Imputation of 'TM8068'			as of (last day of reference period)		
D IMP8072	1	196	U Persons 15 years and older		
Topical modules imputation flag			V 0 .Not applicable		
Imputation of 'TM8072'			V 1 .Yes		
D IMP8074	1	197	V 2 .No - skip to TM8208		
Topical modules imputation flag			D TM8206	6	214
Imputation of 'TM8074'			What was the face value of the U.S.		
D IMP8076	1	198	savings bonds that...owned		
Topical modules imputation flag			(if ownership was shared, count		
Imputation of 'TM8076'			only ...s share)		
D IMP8078	1	199	U Persons 15 years and older		
Topical modules imputation flag			who own savings bonds on last		
Imputation of 'TM8078'			day of reference period		
D IMP8080	1	200	V 000000 .Not applicable		
Topical modules imputation flag			V 25-012500 .Total amount		
Imputation of 'TM8080'					

DATA DICTIONARY

DATA SIZE BEGIN

D TM8208 1 220
 Check item T1
 Interview status of... 's spouse
 U Persons 15 years and older
 V 0 .Not applicable
 V 1 .No spouse in household -
 .skip to TM8232
 V 2 .Interview for spouse not yet
 .conducted
 V 3 .Interview for spouse already
 .conducted - skip to TM8232

D TM8209 2 221
 As of (last day of reference period)
 did ... own jointly with ... 's
 (husband/wife) any checking accounts
 which do not earn interest
 U Persons 15 years and older, with spouse
 interview not yet conducted
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8212

D TM8210 6 223
 What is your best estimate of the amount
 of money ... and ... 's (husband/wife) had
 in those checking accounts as of (last
 day of reference period)
 U Persons 15 years and older, with spouse,
 who have checking accounts on last day of
 reference period which do not earn interest
 V 000000 .Not applicable
 V 4-005000 .Total amount
 V -00003 .None

D TM8232 2 229
 Besides any checking accounts
 owned jointly with ... 's
 spouse as of (last day of reference
 period) did ... own any (other) checking
 accounts which do not earn interest
 U Persons 15 years and older
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8234

D TM8233 6 231
 What is your best estimate of the amount
 of money ... had in those checking
 accounts as of (last day of reference
 period) (if account was shared, count
 only ... 's share)
 U Persons 15 years and older with individual
 checking accounts on last day of reference
 period that did not earn interest
 V 000000 .Not applicable
 V 1-003500 .Total amount
 V -00003 .None

D TM8258 1 237
 Check item T2
 Is ... 21 years of age or older
 U Persons 15 years and older
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8526

D TM8260 2 238
 Does ... have an individual retirement
 account - an IRA - in ... 's own name
 U Persons 21 years and older
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8284

DATA SIZE BEGIN

D TM8262 2 240
 For how many years has ... contributed
 to ... 's IRA accounts
 U Persons 21 years and older who have
 IRA in own name
 V 00 .Not applicable
 V 01 - 99 .Number of years

D TM8264 6 242
 As of (last day of reference period),
 what is the total balance or market
 value (including interest earned)
 of ... 's IRA accounts
 U Persons 21 years and older who
 have IRA in own name
 V 000000 .Not applicable
 V 3 -051000 .Total amount - skip to
 .TM8268

D TM8266 1 248
 If I were to call back later would you be
 able to provide me with an estimate of
 the amount
 U Persons 21 years and older who
 have IRA in own name but don't know value
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM8284 2 249
 Does ... have a KEOGH account in ... 's
 own name
 U Persons 21 years and older
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8308

D TM8286 2 251
 For how many years has ... contributed
 to ... 's KEOGH account
 U Persons 21 years and older
 with KEOGH account
 V 00 .Not applicable
 V 01 - 99 .Number of years

D TM8288 6 253
 As of (last day of reference period)
 what was the total balance or market
 value of assets in ... 's KEOGH account(s)
 U Persons 21 years and older
 with KEOGH account
 V 000000 .Not applicable
 V 3-200000 .Total amount - skip to
 .TM8292

D TM8290 1 259
 If I were to call back later would you be
 able to provide me with an estimate of
 the amount
 U Persons 21 years and older with KEOGH
 account who don't know value
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM8308 2 260
 Does ... have any life insurance
 (include group policies provided
 by employers)
 U Persons 21 years and older
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8324

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DATA      SIZE  BEGIN
D TM8310   6    262
    What is the current face value of all
    life insurance policies that ... has
U Persons 21 years and older
    with life insurance
V      000000 .Not applicable
V      01-999999 .Total amount
D TM8312   2    268
    What type of life insurance does ... have
    -- is it "term insurance", "whole life",
    or does ... have both of these types
U Persons 21 years and older with
    life insurance
V      00 .Not applicable
V      01 .Term only
V      02 .Whole life only
V      03 .Both types
*****
* COMMENT
* Imputation flag for topical modules
* assets & liabilities record
*
* The possible answers are:
* V      0 .Not imputed
* V      1 .imputed
*****
D IMP8204  1    270
    Topical modules imputation flag
    Imputation of 'TM8204'
D IMP8206  1    271
    Topical modules imputation flag
    Imputation of 'TM8206'
D IMP8209  1    272
    Topical modules imputation flag
    Imputation of 'TM8209'
D IMP8210  1    273
    Topical modules imputation flag
    Imputation of 'TM8210'
D IMP8232  1    274
    Topical modules imputation flag
    Imputation of 'TM8232'
D IMP8233  1    275
    Topical modules imputation flag
    Imputation of 'TM8233'
D IMP8260  1    276
    Topical modules imputation flag
    Imputation of 'TM8260'
D IMP8262  1    277
    Topical modules imputation flag
    Imputation of 'TM8262'
D IMP8264  1    278
    Topical modules imputation flag
    Imputation of 'TM8264'
D IMP8284  1    279
    Topical modules imputation flag
    Imputation of 'TM8284'
D IMP8286  1    280
    Topical modules imputation flag
    Imputation of 'TM8286'

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DATA      SIZE  BEGIN
D IMP8288  1    281
    Topical modules imputation flag
    Imputation of 'TM8288'
D IMP8308  1    282
    Topical modules imputation flag
    Imputation of 'TM8308'
D IMP8310  1    283
    Topical modules imputation flag
    Imputation of 'TM8310'
D IMP8312  1    284
    Topical modules imputation flag
    Imputation of 'TM8312'
*****
* Part B - Medical Expenses and Work
* Disability
*****
*****
* Item 1. During (read last month) did ...
* pay any of the following:
*****
D TM8400   2    285
    Doctor bills
U Persons 15 years old or older
V      00 .Not applicable
V      01 .Yes
V      02 .No
D TM8402   2    287
    Dental bills?
U Persons 15 years old or older
V      00 .Not applicable
V      01 .Yes
V      02 .No
D TM8404   2    289
    Hospital bills?
U Persons 15 years old or older
V      00 .Not applicable
V      01 .Yes
V      02 .No
D TM8406   2    291
    Expenses for prescription medicine?
U Persons 15 years old or older
V      00 .Not applicable
V      01 .Yes
V      02 .No
D TM8408   1    293
    Is one or more "yes" boxes marked in
    item 1?
U Persons 15 years old or older
V      0 .Not applicable
V      1 .Yes
V      2 .No
D TM8410   6    294
    Not counting amounts already reported
    by another family member or amounts
    that will be reimbursed by insurance,
    how much did...pay for medical expenses
    in the month of(read last month)?
U All persons who paid for medical expenses
    last month
V      000000 .Not applicable
V      1-000700 .Dollar amount

```

DATA DICTIONARY

DATA SIZE BEGIN

D TM8412 1 300
 What is ...'s age

U All persons who paid for medical expenses
 last month

V 0 .Not applicable
 V 1 .15 years old - skip to TM8526
 V 2 .16-67 years old
 V 3 .68 years old or older -
 V .skip to TM8526

D TM8414 1 301
 Is "disabled" (code 171) marked on the
 ISS for ...?

U All persons, 16 to 67 years old

V 0 .Not applicable
 V 1 .Yes - skip to TM8418
 V 2 .No

D TM8416 1 302
 Is "disabled" (code 171) marked on
 the control card for ...?

U All persons, 16 to 67 years old with
 disabled not marked on the ISS

V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8420

D TM8418 1 303
 We have recorded that ...'s health
 condition limits the kind or amount
 of work ... can do. Is that correct?

U All persons, 16 to 67 years old with
 disabled marked on the control card

V 0 .Not applicable
 V 1 .Yes - skip to TM8422
 V 2 .No - skip to TM8526

D TM8420 1 304
 Does...have a physical,mental,or other
 health condition which limits the kind
 or amount of work ... can do?

U All persons, 16 to 67 years

V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8526

D TM8422 1 305
 Check Item T7
 Is "worked" (code 170) marked on
 the ISS?

U All persons; 16 to 67 years old with
 physical, mental, or other health condition
 which limits the kind or amount of work

V 0 .Not applicable
 V 1 .Yes - skip to TM8526
 V 2 .No

D TM8424 1 306
 Does...'s health or condition prevent
 ...from working at a job or business

U All persons, 16 to 67 years old with
 physical, mental, or other health condition
 which limits the kind or amount of work
 and with "Worked" marked on the ISS

V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8526

DATA SIZE BEGIN

D TM8426 1 307
 Was...been prevented from working
 for the past 12 months or longer?

U All persons, 16 to 67 years old with
 health or condition that prevents working
 at a job or business

V 0 .Not applicable
 V 1 .Yes - skip to TM8526
 V 2 .No

D TM8428 2 308
 Is it likely that ... will be able to
 work at some time in the next 12
 months?

U All persons, 16 to 67 years old with health
 or condition that has not prevented working
 for the past 12 months or longer

V 00 .Not applicable
 V 01 .Yes
 V 02 .No

 *Imputation flags for medical expenses and *
 *work disability *

D IMP8400 1 310
 Topical modules imputation flag
 Imputation of 'TM8400'

V 0 .Not imputed
 V 1 .Imputed

D IMP8402 1 311
 Topical modules imputation flag
 Imputation of 'TM8402'

V 0 .Not imputed
 V 1 .Imputed

D IMP8404 1 312
 Topical modules imputation flag
 Imputation of 'TM8404'

V 0 .Not imputed
 V 1 .Imputed

D IMP8406 1 313
 Topical modules imputation flag
 Imputation of 'TM8406'

V 0 .Not imputed
 V 1 .Imputed

D IMP8410 1 314
 Topical modules imputation flag
 Imputation of 'TM8410'

V 0 .Not imputed
 V 1 .Imputed

D IMP8418 1 315
 Topical modules imputation flag
 Imputation of 'TM8418'

V 0 .Not imputed
 V 1 .Imputed

D IMP8420 1 316
 Topical modules imputation flag
 imputation of 'TM8420'

V 0 .Not imputed
 V 1 .Imputed

D IMP8424 1 317
 Topical modules imputation flag
 Imputation of 'TM8424'

V 0 .Not imputed
 V 1 .Imputed

DATA SIZE BEGIN

 * The next two questions refer to person 1 *

D TM8548 3 349
 Person number
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash

D TM8554 6 352
 How much did this person pay
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash
 V 000000 .Not applicable
 V 1 - 000700 .Amount paid

 * The next two questions refer to person 2 *

D TM8550 3 358
 Person number
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash

D TM8556 6 361
 How much did this person pay
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash
 V 000000 .Not applicable
 V 1-000700 .Amount paid

 * The next two questions refer to person 3 *

D TM8552 3 367
 Person number
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash

D TM8558 6 370
 How much did this person pay
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash
 V 000000 .Not applicable
 V 1-000700 .Amount paid

D TM8560 1 376
 Check Item T11
 Number of persons in household
 U Reference persons living in housing
 unit that is owned or being bought or rented
 for cash
 V 0 .Not applicable
 1 .One - skip to TM8658
 V 2 .Two or more

D TM8562 1 377
 Last month, did anyone here pay for the
 care of a child or a disabled person so
 that a household member could work,
 attend training, or look for a job?

DATA SIZE BEGIN

U Reference persons living in housing
 unit with two or more persons that is owned
 or being bought or rented for cash
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8658

D TM8564 6 378
 What was the total cost of these care
 arrangements for the month of (last
 month)?
 U Persons in households that paid for care of
 child or disabled person last month so
 household member could work, attend train-
 ing, or look for a job
 V 000000 .Not applicable
 V 1-000700 .Total cost of care

D TM8658 1 384
 Check item T12
 Is this residence in a public
 housing project, is it subsidized,
 or is it neither public nor subsidized
 U Persons in households that paid for care of
 child or disabled person last month so
 household member could work, attend train-
 ing, or look for a job
 V 0 .Not applicable
 V 1 .In a public housing project
 - skip to TM8714
 V 2 .Subsidized - skip to TM8714
 V 3 .Neither public nor subsidized

D TM8660 2 385
 Do you or anyone in this household
 own any (other) real estate, such
 as a vacation home or undeveloped
 lot
 U Reference persons with residence that is
 neither public nor subsidized
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8714

D TM8662 3 387
 Which person in this household is
 the first owner of this
 (these)property(ies)
 U Reference persons with residence that is
 neither public nor subsidized who own other
 real estate
 V 000 .Not applicable
 V 101 - 124 .Person number
 V 180 - 199 .Person number
 V 201 - 224 .Person number
 V 280 - 299 .Person number
 V 301 - 324 .Person number
 V 380 - 399 .Person number
 V 401 - 424 .Person number
 V 480 - 499 .Person number
 V 501 - 524 .Person number
 V 580 - 599 .Person number
 V 601 - 624 .Person number
 V 680 - 699 .Person number
 V 701 - 724 .Person number
 V 780 - 799 .Person number

DATA SIZE BEGIN
 D TM8766 1 425
 Check item T18
 Is there another vehicle which
 has not been asked about
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 1)
 V 0 .Not applicable
 V 1 .Yes - skip to TM8720 for
 V .vehicle 2
 V 2 .No - skip to TM8770

 * COMMENT *
 * The next 7 fields (TM8720 through *
 * TM8768) are related to motor vehicle *
 * two. *
 * *
 * The next 2 fields are person number(s) *
 * of owner(s) of the next newest motor *
 * vehicle *
 * V 000 .Not a legal person number*
 * .or not applicable based *
 * .on response to TM8716 *
 * V 101 - 124 .Person number *
 * V 180 - 199 .Person number *
 * V 201 - 224 .Person number *
 * V 280 - 299 .Person number *
 * V 301 - 324 .Person number *
 * V 380 - 399 .Person number *
 * V 401 - 424 .Person number *
 * V 480 - 499 .Person number *
 * V 501 - 524 .Person number *
 * V 580 - 599 .Person number *
 * V 601 - 624 .Person number *
 * V 680 - 699 .Person number *
 * V 701 - 724 .Person number *
 * V 780 - 799 .Person number *

D TM8720 3 426
 ,First person number
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)

D TM8726 3 429
 Second person number
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)

D TM8732 4 432
 What is the year of this vehicle
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)
 V 0000 .Not applicable
 V 1979-1992 .Year

D FILLER 4 436
 Blank filler

D TM8756 2 440
 Is this vehicle owned free and clear,
 or is there still money owed on it
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)
 V 00 .Not applicable

DATA SIZE BEGIN
 V 01 .Money owed
 V 02 .Free and clear - skip to TM8768
 D TM8761 6 442
 How much is currently owed for
 this vehicle
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)
 V 000000 .Not applicable
 V 1-025000 .Total amount

D TM8764 1 448
 Is this vehicle used primarily for either
 business purposes or for the transporta-
 tion of a disabled person
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM8768 1 449
 Is there another vehicle which has
 not been asked about
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 2)
 V 0 .Not applicable
 V 1 .Yes - skip to TM8722 for
 V .vehicle 3
 V 2 .No - skip to TM8770

 * COMMENT *
 * THE next 6 fields (TM8722 through *
 * TM8764) are related to motor *
 * vehicle three *
 * *
 * The next 2 fields are person number(s) *
 * of the owner(s) of the third newest *
 * motor vehicle *
 * *
 * V 000 .Not a legal person number *
 * .or not applicable based *
 * .on response to TM8716 *
 * V 101 - 124 .Person number *
 * V 180 - 199 .Person number *
 * V 201 - 224 .Person number *
 * V 280 - 299 .Person number *
 * V 301 - 324 .Person number *
 * V 380 - 399 .Person number *
 * V 401 - 424 .Person number *
 * V 480 - 499 .Person number *
 * V 501 - 524 .Person number *
 * V 580 - 599 .Person number *
 * V 601 - 624 .Person number *
 * V 680 - 699 .Person number *
 * V 701 - 724 .Person number *
 * V 780 - 799 .Person number *

D TM8722 3 450
 First person number
 U Reference persons living in residence that
 is neither public nor subsidized who own a
 car, van, or truck, excluding recreational
 vehicles and motorcycles (Vehicle 3)

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DATA      SIZE  BEGIN
D TM8728   3    453
    Second person number
U Reference persons living in residence that
  is neither public nor subsidized who own a
  car, van, or truck, excluding recreational
  vehicles and motorcycles (Vehicle 3)

D TM8734   4    456
    What is the year of this vehicle
U Reference persons living in residence that
  is neither public nor subsidized who own a
  car, van, or truck, excluding recreational
  vehicles and motorcycles (Vehicle 3)
V      0000 .Not applicable
V 1979-1992 .Year

D FILLER   4    460
    Office use only

D TM8758   2    464
    Is this vehicle owned free and clear
    or is there still money owed on it
U Reference persons living in residence that
  is neither public nor subsidized who own a
  car, van, or truck, excluding recreational
  vehicles and motorcycles (Vehicle 3)
V      00 .Not applicable
V      01 .Money owed
V      02 .Free and clear - skip to TM8770

D TM8762   6    466
    How much is currently owed for this
    vehicle
U Reference persons living in residence that
  is neither public nor subsidized who own a
  car, van, or truck, excluding recreational
  vehicles and motorcycles (Vehicle 3)
V      000000 .Not applicable
V 1-025000 .Total amount

D TM8765   1    472
    Is this vehicle used primarily for either
    business purposes or for the transporta-
    tion of a disabled person
U Reference persons living in residence that
  is neither public nor subsidized who own a
  car, van, or truck, excluding recreational
  vehicles and motorcycles (Vehicle 3)
V      0 .Not applicable
V      1 .Yes
V      2 .No

*****
* COMMENT *
* The next 5 fields (TM8770 through *
* TM8778) are possible answers to the *
* question: *
* *
* Does anyone in this household own *
* another kind of vehicle, not used for *
* any business, such as a boat, motorcycle*
* or recreational vehicle *
* *
* In each case the range of answers is: *
* *
* V      0 .Not marked as a kind of *
* .vehicle or not applicable *
* V      1 .Marked as a kind of *
* .vehicle *
*****

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```

DATA      SIZE  BEGIN
D TM8770   1    473
    Motorcycle
U Reference persons living in residence that
  is neither public nor subsidized who own
  another kind of vehicle not used for any
  business

D TM8772   1    474
    Boat
U Reference persons living in residence that
  is neither public nor subsidized who own
  another kind of vehicle not used for any
  business

D TM8774   1    475
    Recreational vehicle (RV)
U Reference persons living in residence that
  is neither public nor subsidized who own
  another kind of vehicle not used for any
  business

D TM8776   1    476
    Other
U Reference persons living in residence that
  is neither public nor subsidized who own
  another kind of vehicle not used for any
  business

D TM8778   1    477
    No other vehicle owned - skip to SC4800
U Reference persons living in residence that
  is neither public nor subsidized who own
  another kind of vehicle not used for any
  business

*****
* COMMENT *
* The next 5 fields (TM8780 through *
* TM8800) are related to motor vehicle *
* one *
*****

*****
* COMMENT *
* The next 2 fields are person number(s) *
* for motor vehicle owner(s) *
*****

D TM8780   3    478
    First person number
U Reference persons living in housing unit
  or mobile home who own another kind of
  vehicle, not used for any business, such
  as a motorcycle, boat or RV (Vehicle 1)
V      000 .Not a legal person number or
  .not applicable based on
  .response to TM8770 through
  .TM8778
V 101 - 124 .Person number
V 180 - 199 .Person number
V 201 - 224 .Person number
V 280 - 299 .Person number
V 301 - 324 .Person number
V 380 - 399 .Person number
V 401 - 424 .Person number
V 480 - 499 .Person number
V 501 - 524 .Person number
V 580 - 599 .Person number
V 601 - 624 .Person number
V 680 - 699 .Person number
V 701 - 724 .Person number
V 780 - 799 .Person number

```

DATA DICTIONARY

DATA SIZE BEGIN

D TM8784 3 481
 Second person number

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 1)

V 000 .Not a legal person number or
 V .not applicable based on response
 V .to TM8770 through TM8778

V 101 - 124 .Person number
 V 180 - 199 .Person number
 V 201 - 224 .Person number
 V 280 - 299 .Person number
 V 301 - 324 .Person number
 V 380 - 399 .Person number
 V 401 - 424 .Person number
 V 480 - 499 .Person number
 V 501 - 524 .Person number
 V 580 - 599 .Person number
 V 601 - 624 .Person number
 V 680 - 699 .Person number
 V 701 - 724 .Person number
 V 780 - 799 .Person number

D TM8788 6 484
 If this vehicle were sold, what would
 it sell for in its present condition

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 1)

V 000000 .Not applicable
 V 3-024000 .Total amount

D TM8792 2 490
 Is this vehicle owned free and clear
 or is there still money owed on it

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 1)

V 00 .Not applicable
 V 01 .Money owed
 V 02 .Free and clear - skip to TM8800

D TM8796 6 492
 How much is currently owed for
 this vehicle

U Reference persons living in housing unit
 or mobile home who owe money on another
 kind of vehicle, not used for any
 business, such as a motorcycle, boat or
 RV (Vehicle 1)

V 000000 .Not applicable
 V 3-020000 .Total amount

D TM8800 1 498
 Check item T18
 Are there any other vehicles which
 have not been asked about

U Reference persons living in housing unit
 or mobile home who owe money on another
 kind of vehicle, not used for any
 business, such as a motorcycle, boat or
 RV

V 0 .Not applicable
 V 1 .Yes - skip to TM8782
 V 2 .No - skip to SC4800

DATA SIZE BEGIN

 * COMMENT
 * The next 5 fields (TM8782 through
 * TM8798) are related to motor vehicle
 * two

 * COMMENT
 * The next 2 fields are person number(s)
 * for motor vehicle owner(s)

D TM8782 3 499
 First person number

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 2)

V 000 .Not a legal person number or
 V .not applicable based on response
 V .to TM8770 through TM8778

V 101 - 124 .Person number
 V 180 - 199 .Person number
 V 201 - 224 .Person number
 V 280 - 299 .Person number
 V 301 - 324 .Person number
 V 380 - 399 .Person number
 V 401 - 424 .Person number
 V 480 - 499 .Person number
 V 501 - 524 .Person number
 V 580 - 599 .Person number
 V 601 - 624 .Person number
 V 680 - 699 .Person number
 V 701 - 724 .Person number
 V 780 - 799 .Person number

D TM8786 3 502
 Second person number

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 2)

V 000 .Not a legal person number or
 V .not applicable based on response
 V .to TM8770 through TM8778

V 101 - 124 .Person number
 V 180 - 199 .Person number
 V 201 - 224 .Person number
 V 280 - 299 .Person number
 V 301 - 324 .Person number
 V 380 - 399 .Person number
 V 401 - 424 .Person number
 V 480 - 499 .Person number
 V 501 - 524 .Person number
 V 580 - 599 .Person number
 V 601 - 624 .Person number
 V 680 - 699 .Person number
 V 701 - 724 .Person number
 V 780 - 799 .Person number

D TM8790 6 505
 If this vehicle were sold, what would
 it sell for in its present condition

U Reference persons living in housing unit
 or mobile home who own another kind of
 vehicle, not used for any business, such
 as a motorcycle, boat or RV (Vehicle 2)

V 000000 .Not applicable
 V 3-020000 .Total amount

SIPP 1990 WAVE 7 TOPICAL MODULE

```

DATA      SIZE  BEGIN
D TM8794   2    511
  Is this vehicle owned free and clear
  or is there still money owed on it
U Reference persons living in housing unit
  or mobile home who own another kind of
  vehicle, not used for any business, such
  as a motorcycle, boat or RV (Vehicle 2)
V          00 .Not applicable
V          01 .Money owed
V          02 .Free and clear - skip to SC4800

D TM8798   6    513
  How much is currently owed for
  this vehicle
U Reference persons living in housing unit
  or mobile home who own another kind of
  vehicle, not used for any business, such
  as a motorcycle, boat or RV (Vehicle 2)
V          000000 .Not applicable - skip to SC4800
V          3-011000 .Total amount - skip to SC4800

D TMCARVA1 6    519
  Present car value(s)
  Range = (000001-028000)

D TMCARVA2 6    525
  Present car value(s)
  Range = (000001-028000)

D TMCARVA3 6    531
  Present car value(s)
  Range = (000001-028000)

*****
* COMMENT                                *
* Imputation flags for household.        *
* The possible answers are:              *
* V          0 .Not imputed                *
* V          1 .Imputed                    *
*****

D IMP8538   1    537
  Topical modules imputation flag
  Imputation of 'TM8538'

D IMP8540   1    538
  Topical modules imputation flag
  Imputation of 'TM8540'

D IMP8544   1    539
  Topical modules imputation flag
  Imputation of 'TM8544'

D IMP8554   1    540
  Topical modules imputation flag
  Imputation of 'TM8554'

D IMP8556   1    541
  Topical modules imputation flag
  Imputation of 'TM8556'

D IMP8558   1    542
  Topical modules imputation flag
  Imputation of 'TM8558'

D IMP8562   1    543
  Topical modules imputation flag
  Imputation of 'TM8562'

D IMP8564   1    544
  Topical modules imputation flag
  Imputation of 'TM8564'

```

```

DATA      SIZE  BEGIN
D IMP8660   1    545
  Topical modules imputation flag
  Imputation of 'TM8660'

D IMP8666   1    546
  Topical modules imputation flag
  Imputation of 'TM8666'

D IMP8714   1    547
  Topical modules imputation flag
  Imputation of 'TM8714'

D IMP8716   1    548
  Topical modules imputation flag
  Imputation of 'TM8716'

D IMP8730   1    549
  Topical modules imputation flag
  Imputation of 'TM8730'

D IMP8732   1    550
  Topical modules imputation flag
  Imputation of 'TM8732'

D IMP8734   1    551
  Topical modules imputation flag
  Imputation of 'TM8734'

D IMP8754   1    552
  Topical modules imputation flag
  Imputation of 'TM8754'

D IMP8756   1    553
  Topical modules imputation flag
  Imputation of 'TM8756'

D IMP8758   1    554
  Topical modules imputation flag
  Imputation of 'TM8758'

D IMP8760   1    555
  Topical modules imputation flag
  Imputation of 'TM8760'

D IMP8761   1    556
  Topical modules imputation flag
  Imputation of 'TM8761'

D IMP8762   1    557
  Topical modules imputation flag
  Imputation of 'TM8762'

D IMP8763   1    558
  Topical modules imputation flag
  Imputation of 'TM8763'

D IMP8764   1    559
  Topical modules imputation flag
  Imputation of 'TM8764'

D IMP8765   1    560
  Topical modules imputation flag
  Imputation of 'TM8765'

D IMP8770   1    561
  Topical modules imputation flag
  Imputation of 'TM8770'

D IMP8788   1    562
  Topical modules imputation flag
  Imputation of 'TM8788'

```

DATA DICTIONARY

DATA	SIZE	BEGIN
D IMP8790	1	563
Topical modules imputation flag Imputation of 'TM8790'		
D IMP8792	1	564
Topical modules imputation flag Imputation of 'TM8792'		
D IMP8794	1	565
Topical modules imputation flag Imputation of 'TM8794'		
D IMP8796	1	566
Topical modules imputation flag Imputation of 'TM8796'		
D IMP8798	1	567
Topical modules imputation flag Imputation of 'TM8798'		

* COMMENT		*
* Calculation flag for topical modules		*
* household record		*
* The possible answers are :		*
* 0 .Not calculated		*
* 1 .Calculated		*

D CAL8532	1	568
Topical modules calculation flag Calculation of 'TM8532'		
D CAL8534	1	569
Topical modules calculation flag Calculation of 'TM8534'		
D CAL8536	1	570
Topical modules calculation flag Calculation of 'TM8536'		
D CAL8662	1	571
Topical modules calculation flag Calculation of 'TM8662'		
D CAL8664	1	572
Topical modules calculation flag Calculation of 'TM8664'		
D CAL8716	1	573
Topical modules calculation flag Calculation of 'TM8716'		
D CAL8718	1	574
Topical modules calculation flag Calculation of 'TM8718'		
D CAL8720	1	575
Topical modules calculation flag Calculation of 'TM8720'		

DATA	SIZE	BEGIN
D CAL8722	1	576
Topical modules calculation flag Calculation of 'TM8722'		
D CAL8724	1	577
Topical modules calculation flag Calculation of 'TM8724'		
D CAL8726	1	578
Topical modules calculation flag Calculation of 'TM8726'		
D CAL8728	1	579
Topical modules calculation flag Calculation of 'TM8728'		
D CAL8748	1	580
Topical modules calculation flag Calculation of 'TM8748'		
D CAL8750	1	581
Topical modules calculation flag Calculation of 'TM8750'		
D CAL8752	1	582
Topical modules calculation flag Calculation of 'TM8752'		
D CALCAR1	1	583
Topical modules calculation flag Calculation of 'TMCARVA1'		
D CALCAR2	1	584
Topical modules calculation flag Calculation of 'TMCARVA2'		
D CALCAR3	1	585
Topical modules calculation flag Calculation of 'TMCARVA3'		
D CAL8780	1	586
Topical modules calculation flag Calculation of 'TM8780'		
D CAL8782	1	587
Topical modules calculation flag Calculation of 'TM8782'		
D CAL8784	1	588
Topical modules calculation flag Calculation of 'TM8784'		
D CAL8786	1	589
Topical modules calculation flag Calculation of 'TM8786'		
D FILLER	3	590
Blank fields		

**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 $\hat{\rho}_A$ is the estimated number in group A divided by the estimated number in group N. In either case, we estimate the standard error as

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

where s_p is the standard error of $\hat{\rho}_A$, 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 $\hat{\rho}_A$, \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

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

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

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

if Pareto Interpolation is indicated and

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

if linear interpolation is indicated, where N is the size of the group,

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

Illustration.

To illustrate the calculations for the sampling error on a median, we return to table 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.

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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 (1990)</u>			<u>1st Quarter (1991)</u>			<u>2nd Quarter (1991)</u>			<u>3rd Quarter (1991)</u>			<u>4th Quarter (1991)</u>			...	<u>2nd Quarter (1993)</u>			<u>3rd Quarter (1993)</u>		
		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 months</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 Estimates¹ from Various Reference Periods.

# of available rotation months for 2 panels combined ²	factor
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	
12	1.8519
15	1.5631
18	1.2222
19	1.1470
24	1.0000
Annual Estimates	
96	1.0000

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

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

APPENDIX A-3

Sources of Means-Tested Benefits Covered in SIPP

Cash Benefits

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

Noncash Benefits

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

APPENDIX A-4

1980 Census of Population Occupation Classification System

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

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

1980
Code

Executive, Administrative, and Managerial Occupations

003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Managers, properties and real estate (1353)
017	Postmasters and mail superintendents (1344)
018	Funeral directors (pt 1359)
019	Managers and administrators, n.e.c. (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
	Management related occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, exc. construction (1473)
037	Management related occupations, n.e.c. (149)

Professional Specialty Occupations

Engineers, Architects, and Surveyors

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

SIPP FILES

058 Marine and naval architects (1637)
059 Engineers, n.e.c. (1639)
063 Surveyors and mapping scientists (164)
Mathematical and Computer Scientists
064 Computer systems analysts and scientists (171)
065 Operations and systems researchers and analysts (172)
066 Actuaries (1732)
067 Statisticians (1733)
068 Mathematical scientists, n.e.c. (1739)
Natural Scientists
069 Physicists and astronomers (1842, 1843)
073 Chemists, except biochemists (1845)
074 Atmospheric and space scientists (1846)
075 Geologists and geodesists (1847)
076 Physical scientists, n.e.c. (1849)
077 Agricultural and food scientists (1853)
078 Biological and life scientists (1854)
079 Forestry and conservation scientists (1852)
083 Medical scientists (1855)
Health Diagnosing Occupations
084 Physicians (261)
085 Dentists (262)
086 Veterinarians (27)
087 Optometrists (281)
088 Podiatrists (283)
089 Health diagnosing practitioners, n.e.c. (289)
Health Assessment and Treating Occupations
095 Registered nurses (29)
096 Pharmacists (301)
097 Dietitians (302)
Therapists
098 Inhalation therapists (3031)
099 Occupational therapists (3032)
103 Physical therapists (3033)
104 Speech therapists (3034)
105 Therapists, n.e.c. (3039)
106 Physicians' assistants (304)
Teachers, Postsecondary
113 Earth, environmental, and marine science teachers (2212)
114 Biological science teachers (2213)
115 Chemistry teachers (2214)
116 Physics teachers (2215)
117 Natural science teachers, n.e.c. (2216)
118 Psychology teachers (2217)
119 Economics teachers (2218)
123 History teachers (2222)
124 Political science teachers (2223)
125 Sociology teachers (2224)
126 Social science teachers, n.e.c. (2225)
127 Engineering teachers (2226)
128 Mathematical science teachers (2227)
129 Computer science teachers (2228)
133 Medical science teachers (2231)
134 Health specialties teachers (2232)
135 Business, commerce, and marketing teachers (2233)
136 Agriculture and forestry teachers (2234)

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)

SIPP FILES

363	Production coordinators (4752)
364	Traffic, shipping, and receiving clerks (4753)
365	Stock and inventory clerks (4754)
366	Meter readers (4755)
368	Weighers, measurers, and checkers (4756)
369	Samplers (4757)
373	Expeditors (4758)
374	Material recording, scheduling, and distributing clerks, n.e.c. (4759)
	Adjusters and Investigators
375	Insurance adjusters, examiners, and investigators (4782)
376	Investigators and adjusters, except insurance (4783)
377	Eligibility clerks, social welfare (4784)
378	Bill and account collectors (4786)
	Miscellaneous Administrative Support Occupations
379	General office clerks (463)
383	Bank tellers (4791)
384	Proofreaders (4792)
385	Data-entry keyers (4793)
386	Statistical clerks (4794)
387	Teachers' aides (4795)
389	Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

Private Household Occupations

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

Protective Service Occupations

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

Service Occupations, Except Protective and Household

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

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

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm Operators and Managers

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

Other Agricultural and Related Occupations

	Farm Occupations, Except Managerial
477	Supervisors, farm workers (5611)
479	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
	Related Agricultural Occupations
485	Supervisors, related agricultural occupations (5621)
486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489	Inspectors, agricultural products (5627)

Forestry and Logging Occupations

- 494 Supervisors, forestry, and logging workers (571)
- 495 Forestry workers, except logging (572)
- 496 Timber cutting and logging occupations (573, 579)

Fishers, Hunters, and Trappers

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

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

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

Construction Trades**Supervisors, construction occupations**

- 553 Supervisors; brickmasons, stonemasons, and tile setters (6312)
- 554 Supervisors, carpenters and related workers (6313)
- 555 Supervisors, electricians and power transmission installers (6314)
- 556 Supervisors; painters, paperhangers, and plasterers (6315)
- 557 Supervisors; plumbers, pipefitters, and steamfitters (6316)

- 558 Supervisors, n.e.c. (6311, 6318)
- Construction Trades, Except Supervisors
- 563 Brickmasons and stonemasons (pt 6412, pt 6413)
- 564 Brickmason and stonemason apprentices (pt 6412, pt 6413)
- 565 Tile setters, hard and soft (6414, pt 6462)
- 566 Carpet installers (pt 6462)
- Y(567) Carpenters (pt 6422)
- 569 Carpenter apprentices (pt 6422)
- 573 Drywall installers (6424)
- 575 Electricians (pt 6432)
- 576 Electrician apprentices (pt 6432)
- 577 Electrical power installers and repairers (6433)
- 579 Painters, construction and maintenance (6442)
- 583 Paperhangers (6443)
- 584 Plasterers (6444)
- 585 Plumbers, pipefitters, and steamfitters (pt 645)
- 587 Plumber, pipefitter, and steamfitter apprentices (pt 645)
- 588 Concrete and terrazzo finishers (6463)
- 589 Glaziers (6464)
- 593 Insulation workers (6465)
- 594 Paving, surfacing, and tamping equipment operators (6466)
- 595 Roofers (6468)
- 596 Sheetmetal duct installers (6472)
- 597 Structural metal workers (6473)
- 598 Drillers, earth (6474)
- 599 Construction trades, n.e.c. (6467, 6475, 6476, 6479)
- Extractive Occupations
- 613 Supervisors, extractive occupations (632)
- 614 Drillers, oil well (652)
- 615 Explosives workers (653)
- 616 Mining machine operators (654)
- 617 Mining occupations, n.e.c. (656)
- Precision Production Occupations
- 633 Supervisors, production occupations (67, 71)
- Precision Metal Working Occupations
- 634 Tool and die makers (pt 6811)
- 635 Tool and die maker apprentices (pt 6811)
- 636 Precision assemblers, metal (6812)
- 637 Machinists (pt 6813)
- 639 Machinist apprentices (pt 6813)
- 643 Boilermakers (6814)
- 644 Precision grinders, filers, and tool sharpeners (6816)
- 645 Patternmakers and model makers, metal (6817)
- 646 Lay-out workers (6821)
- 647 Precious stones and metals workers (Jewelers) (6822, 6866)
- 649 Engravers, metal (6823)
- 653 Sheet metal workers (pt 6824)
- 654 Sheet metal worker apprentices (pt 6824)
- 655 Miscellaneous precision metal workers (6829)
- Precision Woodworking Occupations
- 656 Patternmakers and model makers, wood (6831)
- 657 Cabinet makers and bench carpenters (6832)
- 658 Furniture and wood finishers (6835)
- 659 Miscellaneous precision woodworkers (6839)
- Precision Textile, Apparel, and Furnishings Machine Workers
- 666 Dressmakers (pt 6852, pt 7752)

SIPP FILES

- 667 Tailors (pt 6852)
- 668 Upholsterers (6853)
- 669 Shoe repairers (6854)
- 673 Apparel and fabric patternmakers (6856)
- 674 Miscellaneous precision apparel and fabric workers (6859, pt 7752)
- Precision Workers, Assorted Materials
- 675 Hand molders and shapers, except jewelers (6861)
- 676 Patternmakers, lay-out workers, and cutters (6862)
- 677 Optical goods workers (6864, pt 7477, pt 7677)
- 678 Dental laboratory and medical appliance technicians (6865)
- 679 Bookbinders (6844)
- 683 Electrical and electronic equipment assemblers (6867)
- 684 Miscellaneous precision workers, n.e.c. (6869)
- Precision Food Production Occupations
- 686 Butchers and meat cutters (6871)
- 687 Bakers (6872)
- 688 Food batchmakers (6873, 6879)
- Precision Inspectors, Testers, and Related Workers
- 689 Inspectors, testers, and graders (6881, 828)
- 693 Adjusters and calibrators (6882)
- Plant and System Operators
- 694 Water and sewage treatment plant operators (691)
- 695 Power plant operators (pt 693)
- 696 Stationary engineers (pt 693, 7668)
- 699 Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors

- Machine Operators and Tenders, except Precision
- Metal working and Plastic Working Machine Operators
- 703 Lathe and turning machine set-up operators (7312)
- 704 Lathe and turning machine operators (7512)
- 705 Milling and planing machine operators (7313, 7513)
- 706 Punching and stamping press machine operators (7314, 7317, 7514, 7517)
- 707 Rolling machine operators (7316, 7516)
- 708 Drilling and boring machine operators (7318, 7518)
- 709 Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
- 713 Forging machine operators (7319, 7519)
- 714 Numerical control machine operators (7326)
- 715 Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
- 717 Fabricating machine operators, n.e.c. (7339, 7539)
- Metal and Plastic Processing Machine Operators
- 719 Molding and casting machine operators (7315, 7342, 7515, 7542)
- 723 Metal plating machine operators (7343, 7543)
- 724 Heat treating equipment operators (7344, 7544)
- 725 Miscellaneous metal and plastic processing machine operators (7349, 7549)
- Woodworking Machine Operators
- 726 Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
- 727 Sawing machine operators (7433, 7633)
- 728 Shaping and joining machine operators (7435, 7635)
- 729 Nailing and tacking machine operators (7636)
- 733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)

- Printing Machine Operators**
- 734 Printing machine operators (7443, 7643)
 - 735 Photoengravers and lithographers (6842, 7444, 7644)
 - 736 Typesetters and compositors (6841, 7642)
 - 737 Miscellaneous printing machine operators (6849, 7449, 7649)
- Textile, Apparel, and Furnishings Machine Operators**
- 738 Winding and twisting machine operators (7451, 7651)
 - 739 Knitting, looping, taping, and weaving machine operators (7452, 7652)
 - 743 Textile cutting machine operators (7654)
 - 744 Textile sewing machine operators (7655)
 - 745 Shoe machine operators (7656)
 - 747 Pressing machine operators (7657)
 - 748 Laundering and dry cleaning machine operators (6855, 7658)
 - 749 Miscellaneous textile machine operators (7459, 7659)
- Machine Operators, Assorted Materials**
- 753 Cementing and gluing machine operators (7661)
 - 754 Packaging and filling machine operators (7462, 7662)
 - 755 Extruding and forming machine operators (7463, 7663)
 - 756 Mixing and blending machine operators (7664)
 - 757 Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
 - 758 Compressing and compacting machine operators (7467, 7667)
 - 759 Painting and paint spraying machine operators (7669)
 - 763 Roasting and baking machine operators, food (7472, 7672)
 - 764 Washing, cleaning, and pickling machine operators (7673)
 - 765 Folding machine operators (7474, 7674)
 - 766 Furnace, kiln, and oven operators, exc. food (7675)
 - 768 Crushing and grinding machine operators (pt 7477, pt 7677)
 - 769 Slicing and cutting machine operators (7478, 7678)
 - 773 Motion picture projectionists (pt 7479)
 - 774 Photographic process machine operators (6863, 6868, 7671)
 - 777 Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
 - 779 Machine operators, not specified
- Fabricators, Assemblers, and Hand Working Occupations**
- 783 Welders and cutters (7332, 7532, 7714)
 - 784 Solderers and brazers (7333, 7533, 7717)
 - 785 Assemblers (772, 774)
 - 786 Hand cutting and trimming occupations (7753)
 - 787 Hand molding, casting, and forming occupations (7754, 7755)
 - 789 Hand painting, coating, and decorating occupations (7756)
 - 793 Hand engraving and printing occupations (7757)
 - 794 Hand grinding and polishing occupations (7758)
 - 795 Miscellaneous hand working occupations (7759)
- Production Inspectors, Testers, Samplers, and Weighers**
- 796 Production inspectors, checkers, and examiners (782, 787)
 - 797 Production testers (783)
 - 798 Production samplers and weighers (784)
 - 799 Graders and sorters, exc. agricultural (785)

Transportation and Material Moving Occupations

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

SIPP FILES

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

Handlers, Equipment Cleaners, Helpers, and Laborers

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

APPENDIX A-5

1980 Census of Population Industry Classification System

(Alphabets parentheses are the 1972 SIC code equivalents ¹)

Census
Code

AGRICULTURE, FORESTRY, AND FISHERIES

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

MINING

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

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

MANUFACTURING

Nondurable Goods

Food and kindred products

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

Textile mill products

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

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

SIPP FILES

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

- Durable Goods**

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

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

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

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

SIPP FILES

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

WHOLESALE TRADE

Durable Goods

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

Nondurable Goods

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

RETAIL TRADE

- 580 Lumber and building material retailing (521, 523)
- 581 Hardware stores (525)
- 582 Retail nurseries and garden stores (526)
- 590 Mobile home dealers (527)
- 591 (D) Department stores (531)
- 592 Variety stores (533)
- 600 Miscellaneous general merchandise stores (539)
- 601 (E) Grocery stores (541)
- 602 Dairy products stores (545)
- 610 Retail bakeries (546)
- 611 Food stores, n.e.c. (542, 543, 544, 549)
- 612 Motor vehicle dealers (551, 552)
- 620 Auto and home supply stores (553)
- 621 Gasoline service stations (554)
- 622 Miscellaneous vehicle dealers (555, 556, 557, 559)
- 630 Apparel and accessory stores, except shoe (56, except 566)
- 631 Shoe stores (566)

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

FINANCE, INSURANCE, AND REAL ESTATE

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

BUSINESS AND REPAIR SERVICES

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

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

PERSONAL SERVICES

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

SIPP FILES

791 Miscellaneous personal services (722, part 729)

ENTERTAINMENT AND RECREATION SERVICES

800 Theaters and motion pictures (78, 792)

801 Bowling alleys, billiard and pool parlors (793)

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

PROFESSIONAL AND RELATED SERVICES

812 Offices of physicians (801, 803)

820 Offices of dentists (802)

821 Offices of chiropractors (8041)

822 Offices of optometrists (8042)

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

831 (K) Hospitals (806)

832 Nursing and personal care facilities (805)

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

841 Legal services (81)

842 (L) Elementary and secondary schools (821)

850 (M) Colleges and universities (822)

851 Business, trade, and vocational schools (824)

852 Libraries (823)

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

861 Job training and vocational rehabilitation services (833)

862 Child day care services (835)

870 Residential care facilities, without nursing (836)

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

872 Museums, art galleries, and zoos (84)

880 Religious organizations (866)

881 Membership organizations (861-865, 869)

882 Engineering, architectural, and surveying services (891)

890 Accounting, auditing, and bookkeeping services (893)

891 Noncommercial educational and scientific research (892)

892 Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

900 Executive and legislative offices (911-913)

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

910 Justice, public order, and safety (92)

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

922 Administration of human resources programs (94)

930 Administration of environmental quality and housing programs (95)

931 Administration of economic programs (96)

932 National security and international affairs (97)

991 Member of the Armed Forces

1 NO CODE	2 CONTROL NUMBER	3 SEGMENT	4 SEGMENT TYPE	5A FIELD REP CODE	5B LETTER CODE	6 W1	6 W2	6 W3	6 W4	6 W5	6 W6	6 W7	6 W8	6 W9	6 W10	6 W11	6 W12	6 W13	6 W14	6 W15	6 W16	6 W17	6 W18	6 W19	6 W20	6 W21	6 W22	6 W23	6 W24	6 W25	6 W26	6 W27	6 W28	6 W29	6 W30	6 W31	6 W32	6 W33	6 W34	6 W35	6 W36	6 W37	6 W38	6 W39	6 W40	6 W41	6 W42	6 W43	6 W44	6 W45	6 W46	6 W47	6 W48	6 W49	6 W50	6 W51	6 W52	6 W53	6 W54	6 W55	6 W56	6 W57	6 W58	6 W59	6 W60	6 W61	6 W62	6 W63	6 W64	6 W65	6 W66	6 W67	6 W68	6 W69	6 W70	6 W71	6 W72	6 W73	6 W74	6 W75	6 W76	6 W77	6 W78	6 W79	6 W80	6 W81	6 W82	6 W83	6 W84	6 W85	6 W86	6 W87	6 W88	6 W89	6 W90	6 W91	6 W92	6 W93	6 W94	6 W95	6 W96	6 W97	6 W98	6 W99	6 W100	6 W101	6 W102	6 W103	6 W104	6 W105	6 W106	6 W107	6 W108	6 W109	6 W110	6 W111	6 W112	6 W113	6 W114	6 W115	6 W116	6 W117	6 W118	6 W119	6 W120	6 W121	6 W122	6 W123	6 W124	6 W125	6 W126	6 W127	6 W128	6 W129	6 W130	6 W131	6 W132	6 W133	6 W134	6 W135	6 W136	6 W137	6 W138	6 W139	6 W140	6 W141	6 W142	6 W143	6 W144	6 W145	6 W146	6 W147	6 W148	6 W149	6 W150	6 W151	6 W152	6 W153	6 W154	6 W155	6 W156	6 W157	6 W158	6 W159	6 W160	6 W161	6 W162	6 W163	6 W164	6 W165	6 W166	6 W167	6 W168	6 W169	6 W170	6 W171	6 W172	6 W173	6 W174	6 W175	6 W176	6 W177	6 W178	6 W179	6 W180	6 W181	6 W182	6 W183	6 W184	6 W185	6 W186	6 W187	6 W188	6 W189	6 W190	6 W191	6 W192	6 W193	6 W194	6 W195	6 W196	6 W197	6 W198	6 W199	6 W200	6 W201	6 W202	6 W203	6 W204	6 W205	6 W206	6 W207	6 W208	6 W209	6 W210	6 W211	6 W212	6 W213	6 W214	6 W215	6 W216	6 W217	6 W218	6 W219	6 W220	6 W221	6 W222	6 W223	6 W224	6 W225	6 W226	6 W227	6 W228	6 W229	6 W230	6 W231	6 W232	6 W233	6 W234	6 W235	6 W236	6 W237	6 W238	6 W239	6 W240	6 W241	6 W242	6 W243	6 W244	6 W245	6 W246	6 W247	6 W248	6 W249	6 W250	6 W251	6 W252	6 W253	6 W254	6 W255	6 W256	6 W257	6 W258	6 W259	6 W260	6 W261	6 W262	6 W263	6 W264	6 W265	6 W266	6 W267	6 W268	6 W269	6 W270	6 W271	6 W272	6 W273	6 W274	6 W275	6 W276	6 W277	6 W278	6 W279	6 W280	6 W281	6 W282	6 W283	6 W284	6 W285	6 W286	6 W287	6 W288	6 W289	6 W290	6 W291	6 W292	6 W293	6 W294	6 W295	6 W296	6 W297	6 W298	6 W299	6 W300	6 W301	6 W302	6 W303	6 W304	6 W305	6 W306	6 W307	6 W308	6 W309	6 W310	6 W311	6 W312	6 W313	6 W314	6 W315	6 W316	6 W317	6 W318	6 W319	6 W320	6 W321	6 W322	6 W323	6 W324	6 W325	6 W326	6 W327	6 W328	6 W329	6 W330	6 W331	6 W332	6 W333	6 W334	6 W335	6 W336	6 W337	6 W338	6 W339	6 W340	6 W341	6 W342	6 W343	6 W344	6 W345	6 W346	6 W347	6 W348	6 W349	6 W350	6 W351	6 W352	6 W353	6 W354	6 W355	6 W356	6 W357	6 W358	6 W359	6 W360	6 W361	6 W362	6 W363	6 W364	6 W365	6 W366	6 W367	6 W368	6 W369	6 W370	6 W371	6 W372	6 W373	6 W374	6 W375	6 W376	6 W377	6 W378	6 W379	6 W380	6 W381	6 W382	6 W383	6 W384	6 W385	6 W386	6 W387	6 W388	6 W389	6 W390	6 W391	6 W392	6 W393	6 W394	6 W395	6 W396	6 W397	6 W398	6 W399	6 W400	6 W401	6 W402	6 W403	6 W404	6 W405	6 W406	6 W407	6 W408	6 W409	6 W410	6 W411	6 W412	6 W413	6 W414	6 W415	6 W416	6 W417	6 W418	6 W419	6 W420	6 W421	6 W422	6 W423	6 W424	6 W425	6 W426	6 W427	6 W428	6 W429	6 W430	6 W431	6 W432	6 W433	6 W434	6 W435	6 W436	6 W437	6 W438	6 W439	6 W440	6 W441	6 W442	6 W443	6 W444	6 W445	6 W446	6 W447	6 W448	6 W449	6 W450	6 W451	6 W452	6 W453	6 W454	6 W455	6 W456	6 W457	6 W458	6 W459	6 W460	6 W461	6 W462	6 W463	6 W464	6 W465	6 W466	6 W467	6 W468	6 W469	6 W470	6 W471	6 W472	6 W473	6 W474	6 W475	6 W476	6 W477	6 W478	6 W479	6 W480	6 W481	6 W482	6 W483	6 W484	6 W485	6 W486	6 W487	6 W488	6 W489	6 W490	6 W491	6 W492	6 W493	6 W494	6 W495	6 W496	6 W497	6 W498	6 W499	6 W500	6 W501	6 W502	6 W503	6 W504	6 W505	6 W506	6 W507	6 W508	6 W509	6 W510	6 W511	6 W512	6 W513	6 W514	6 W515	6 W516	6 W517	6 W518	6 W519	6 W520	6 W521	6 W522	6 W523	6 W524	6 W525	6 W526	6 W527	6 W528	6 W529	6 W530	6 W531	6 W532	6 W533	6 W534	6 W535	6 W536	6 W537	6 W538	6 W539	6 W540	6 W541	6 W542	6 W543	6 W544	6 W545	6 W546	6 W547	6 W548	6 W549	6 W550	6 W551	6 W552	6 W553	6 W554	6 W555	6 W556	6 W557	6 W558	6 W559	6 W560	6 W561	6 W562	6 W563	6 W564	6 W565	6 W566	6 W567	6 W568	6 W569	6 W570	6 W571	6 W572	6 W573	6 W574	6 W575	6 W576	6 W577	6 W578	6 W579	6 W580	6 W581	6 W582	6 W583	6 W584	6 W585	6 W586	6 W587	6 W588	6 W589	6 W590	6 W591	6 W592	6 W593	6 W594	6 W595	6 W596	6 W597	6 W598	6 W599	6 W600	6 W601	6 W602	6 W603	6 W604	6 W605	6 W606	6 W607	6 W608	6 W609	6 W610	6 W611	6 W612	6 W613	6 W614	6 W615	6 W616	6 W617	6 W618	6 W619	6 W620	6 W621	6 W622	6 W623	6 W624	6 W625	6 W626	6 W627	6 W628	6 W629	6 W630	6 W631	6 W632	6 W633	6 W634	6 W635	6 W636	6 W637	6 W638	6 W639	6 W640	6 W641	6 W642	6 W643	6 W644	6 W645	6 W646	6 W647	6 W648	6 W649	6 W650	6 W651	6 W652	6 W653	6 W654	6 W655	6 W656	6 W657	6 W658	6 W659	6 W660	6 W661	6 W662	6 W663	6 W664	6 W665	6 W666	6 W667	6 W668	6 W669	6 W670	6 W671	6 W672	6 W673	6 W674	6 W675	6 W676	6 W677	6 W678	6 W679	6 W680	6 W681	6 W682	6 W683	6 W684	6 W685	6 W686	6 W687	6 W688	6 W689	6 W690	6 W691	6 W692	6 W693	6 W694	6 W695	6 W696	6 W697	6 W698	6 W699	6 W700	6 W701	6 W702	6 W703	6 W704	6 W705	6 W706	6 W707	6 W708	6 W709	6 W710	6 W711	6 W712	6 W713	6 W714	6 W715	6 W716	6 W717	6 W718	6 W719	6 W720	6 W721	6 W722	6 W723	6 W724	6 W725	6 W726	6 W727	6 W728	6 W729	6 W730	6 W731	6 W732	6 W733	6 W734	6 W735	6 W736	6 W737	6 W738	6 W739	6 W740	6 W741	6 W742	6 W743	6 W744	6 W745	6 W746	6 W747	6 W748	6 W749	6 W750	6 W751	6 W752	6 W753	6 W754	6 W755	6 W756	6 W757	6 W758	6 W759	6 W760	6 W761	6 W762	6 W763	6 W764	6 W765	6 W766	6 W767	6 W768	6 W769	6 W770	6 W771	6 W772	6 W773	6 W774	6 W775	6 W776	6 W777	6 W778	6 W779	6 W780	6 W781	6 W782	6 W783	6 W784	6 W785	6 W786	6 W787	6 W788	6 W789	6 W790	6 W791	6 W792	6 W793	6 W794	6 W795	6 W796	6 W797	6 W798	6 W799	6 W800	6 W801	6 W802	6 W803	6 W804	6 W805	6 W806	6 W807	6 W808	6 W809	6 W810	6 W811	6 W812	6 W813	6 W814	6 W815	6 W816	6 W817	6 W818	6 W819	6 W820	6 W821	6 W822	6 W823	6 W824	6 W825	6 W826	6 W827	6 W828	6 W829	6 W830	6 W831	6 W832	6 W833	6 W834	6 W835	6 W836	6 W837	6 W838	6 W839	6 W840	6 W841	6 W842	6 W843	6 W844	6 W845	6 W846	6 W847	6 W848	6 W849	6 W850	6 W851	6 W852	6 W853	6 W854	6 W855	6 W856	6 W857	6 W858	6 W859	6 W860	6 W861	6 W862	6 W863	6 W864	6 W865	6 W866	6 W867	6 W868	6 W869	6 W870	6 W871	6 W872	6 W873	6 W874	6 W875	6 W876	6 W877	6 W878	6 W879	6 W880	6 W881	6 W882	6 W883	6 W884	6 W885	6 W886	6 W887	6 W888	6 W889	6 W890	6 W891	6 W892	6 W893	6 W894	6 W895	6 W896	6 W897	6 W898	6 W899	6 W900	6 W901	6 W902	6 W903	6 W904	6 W905	6 W906	6 W907	6 W908	6 W909	6 W910	6 W911	6 W912	6 W913	6 W914	6 W915	6 W916	6 W917	6 W918	6 W919	6 W920	6 W921	6 W922	6 W923	6 W924	6 W925	6 W926	6 W927	6 W928	6 W929	6 W930	6 W931	6 W932	6 W933	6 W934	6 W935	6 W936	6 W937	6 W938	6 W939	6 W940	6 W941	6 W942	6 W943	6 W944	6 W945	6 W946	6 W947	6 W948	6 W949	6 W950	6 W951	6 W952	6 W
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ADDRESS (Street Line)
 What is your street address?
 House number, street, Apt. number, or other identification

Place _____ **County** _____ **State** _____ **ZIP code** _____

Special place name
81 Type code _____ **82** Sample number _____

9 YEAR BUILT
 Ask first visit
 DO NOT ASK

10 AREA REAGENTS ONLY
10A COVENANT QUESTIONS
 Ask home market
 DO NOT ASK
 See these only completed or cannot being entered within your area in this building?
 Yes - *See Table 2*
 No

10B Are there any completed or uncompleted building permits for your area on this floor?
 Yes - *See Table 2*
 No

10C Is there any other building on this property for people to live in - other completed or uncompleted?
 Yes - *See Table 2*
 No

11 GEOGRAPHIC LOCATION - FILL ON GOVERNOR'S NEW CONTROL CARD
11A Is listed 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 is:
 Within a SPP PSU
 70-79
 80-89
 90-99
 100-109
 110-119
 120-129
 130-139
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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 18 or older.

Person Number		Name		EMPLOYMENT								Person Number		Name		EMPLOYMENT								Person Number		Name		EMPLOYMENT							
Line No.	Code	W1	W2	W3	W4	W5	W6	W7	W8	Line No.	Code	W1	W2	W3	W4	W5	W6	W7	W8	Line No.	Code	W1	W2	W3	W4	W5	W6	W7	W8						
1	40									1	40										1	40													
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B-1-4

Section 4 – TOPICAL MODULES

Part A – SELECTED FINANCIAL ASSETS

Statement A

Read to respondent: **These next questions concern various assets.**

ASK OR VERIFY –

1a. Did ... own any U.S. Savings Bonds as of (Read last day of reference period) (Type E or EE bonds only.)

- 8204** 1 Yes
2 No – SKIP to Check Item T1

b. What was the FACE VALUE of the U.S. Savings Bonds that ... owned?

(If ownership was shared, count only ...'s share.)

- 8206** \$. 00
x1 DK
x2 Ref.

CHECK ITEM T1

Interview status of ...'s spouse

- 8208** 1 No spouse in household – SKIP to 2c
2 Interview for spouse not yet conducted
3 Interview for spouse already conducted – SKIP to 2c

2a. As of (Read last day of reference period), did ... own jointly with ...'s (husband/wife) any checking accounts which did NOT earn interest?

- 8209** 1 Yes
2 No
x1 DK } SKIP to 2c
x2 Ref.

b. What is your best estimate of the amount of money ... and ...'s (husband/wife) had in those checking accounts as of (Read last day of reference period)?

- 8210** \$. 00
x3 None
x1 DK
x2 Ref.

c. (Besides any checking accounts owned jointly with ...'s spouse,) as of (Read last day of reference period), did ... own any (other) checking accounts which did NOT earn interest?

- 8232** 1 Yes
2 No
x1 DK } SKIP to Check Item T2
x2 Ref.

d. What is your best estimate of the amount of money ... had in those checking accounts as of (Read last day of reference period)?

(If account was shared, count only ...'s share.)

- 8233** \$. 00
x3 None
x1 DK
x2 Ref.

CHECK ITEM T2

Refer to cc item 24.
Is ... 21 years of age or older?

- 8258** 1 Yes
2 No – SKIP to Statement B, page 58

3a. Does ... have any Individual Retirement Accounts – any IRAs – in ...'s OWN name? (If ... is only included in spouse's IRA account, mark the "No" box.)

- 8260** 1 Yes
2 No
x1 DK } SKIP to 4a
x2 Ref.

b. For how many years has ... contributed to ...'s IRA accounts?

- 8262** Years
x1 DK
x2 Ref. – SKIP to 4a

c. As of (Read last day of reference period), what is the total balance (including interest earned) of ...'s IRA accounts?

- 8264** \$. 00 – SKIP to 4a
x1 DK
x2 Ref. – SKIP to 4a



d. If I were to call back later would you be able to provide me with an estimate of the amount? (This information is especially important for the purposes of this survey.)

- 8266** 1 Yes – Mark Callback Summary and Reminder Card, Item 16
2 No

Section 4 — TOPICAL MODULES (Continued)

Part A — SELECTED FINANCIAL ASSETS (Continued)

4a. Does ... have a KEOGH account in ...'s OWN name?

8284 Yes
 No
 x1 DK
 x2 Ref. } *SKIP to 5a*

b. For how many years has ... contributed to ...'s KEOGH account?

8286 Years
 x1 DK
 x2 Ref. — *SKIP to 5a*

c. As of (Read last day of reference period), what was the total balance or market value of assets in ...'s KEOGH account(s)?

8288 \$. 00 — *SKIP to 5a*
 x1 DK
 x2 Ref. — *SKIP to 5a*



d. If I were to call back later would you be able to provide me with an estimate of the amount? (This information is especially important for the purposes of this survey.)

8290 Yes — *Mark Callback Summary and Reminder Card, Item 17*
 No

5a. Does ... have any life insurance? (Include group policies provided by employers.)

8308 Yes
 No
 x1 DK
 x2 Ref. } *SKIP to Statement B, page 58*

b. What is the current FACE VALUE of ALL life insurance policies that ... has?

8310 \$. 00
 x1 DK
 x2 Ref.

c. What type of life insurance does ... have — is it "term insurance", "whole life", or does ... have both of these types?

8312 Term only
 Whole life only
 Both types
 x1 DK

NOTES

Section 4 – TOPICAL MODULES (Continued)

Part B – MEDICAL EXPENSES AND WORK DISABILITY

Statement B → Read to respondent: **These next questions concern payments that . . . may have made last month for medical bills for himself/herself or his/her family.**

- 1. During (Read last month) did . . . pay any of the following:**
- a. Doctor bills?** **8400** 1 Yes 2 No x1 DK
 - b. Dentist bills?** **8402** 1 Yes 2 No x1 DK
 - c. Hospital bills?** **8404** 1 Yes 2 No x1 DK
 - d. Expenses for prescription medicine?** **8406** 1 Yes 2 No x1 DK

CHECK ITEM T3 Is one or more "Yes" box marked in item 1? **8408** 1 Yes
2 No – SKIP to Check Item T4

2. Not counting amounts already reported by another family member or amounts that will be reimbursed by insurance, how much did . . . pay for medical expenses in the month of (Read last month)?

8410 \$ 00
x1 DK
x2 Ref.

CHECK ITEM T4 Refer to cc item 24. What is . . . 's age? **8412** 1 15 years old – SKIP to Check Item T8
2 16 to 67 years old
3 68 years old or older – SKIP to Check Item T8

Statement C → **Now I want to ask about any health or physical condition . . . may have that affected . . . 's ability to work.**

CHECK ITEM T5 Is "Disabled" (code 171) marked on the ISS for . . . ? **8414** 1 Yes – SKIP to 3a
2 No

CHECK ITEM T6 Refer to cc item 47. Is "Disabled" (code 171) marked on the control card for . . . ? **8416** 1 Yes
2 No – SKIP to 3b

3a. We have recorded that . . . 's health or condition limits the kind or amount of work . . . can do. Is that correct? **8418** 1 Yes – SKIP to Check Item T7
2 No – SKIP to Check Item T8

b. Does . . . have a physical, mental, or other health condition which limits the kind or amount of work . . . can do? **8420** 1 Yes – Mark "171" on ISS
2 No – SKIP to Check Item T8

CHECK ITEM T7 Is "Worked" (code 170) marked on the ISS? **8422** 1 Yes – SKIP to Check Item T8
2 No

4a. Does . . . 's health or condition prevent . . . from working at a job or business? **8424** 1 Yes
2 No – SKIP to Check Item T8

b. Has . . . been prevented from working for the past 12 months or longer? **8426** 1 Yes – SKIP to Check Item T8
2 No

c. Is it likely that . . . will be able to work at some time in the next 12 months? **8428** 1 Yes
2 No
x1 DK

Go to Check Item T8

NOTES

Section 4 — TOPICAL MODULES (Continued)

Part C — REAL ESTATE, SHELTER COSTS, DEPENDENT CARE, AND VEHICLES

CHECK ITEM T8 Is this the reference person's questionnaire? **8526** 1 Yes
2 No — SKIP to Check Item P1, page 62

Statement D → Read to respondent: **These next questions concern housing costs and automobile ownership.**

CHECK ITEM T9 Refer to cc item 15. Tenure **8530** 1 Owned or being bought
2 Rented for cash — SKIP to 2
3 Occupied without cash payment — SKIP to 3

ASK OR VERIFY —

1. Which persons in this household are the owners of this home?

Person No.	Name
8532 [][][]	_____
8534 [][][]	_____
8536 [][][]	_____

2. How much was this household's (rent/mortgage payment) last month? **8538** \$ [] [] [] . 00

(Include any condominium or association fees.)

x3 None
x1 DK } SKIP to Check Item T11
x2 Ref.

3. How much did this household pay for electricity, gas, and other utilities last month? **8540** \$ [] [] [] . 00

(Other utilities include other fuels, water, and basic telephone service. Include only payments made in addition to those reported in item 2.)

x3 Nothing or included in rent
x1 DK } SKIP to Check Item T11
x2 Ref.

CHECK ITEM T10 Refer to cc items 19b, 23, and 24. Composition of household **8542**

1 One person household
2 Married-couple household, no other person 18 or older
3 Single parent household, no other person 18 or older
4 Other composition

} SKIP to Check Item T11

4. Did more than one of the persons living here pay for the (rent/mortgage payment) and utilities last month? **8544** 1 Yes — SKIP to 6
2 No

5. Which person paid?

Person No.	Name
8546 [][][]	_____

} SKIP to Check Item T11

6. Which persons paid and how much did each pay?

Person 1	Person 2	Person 3
Person No. 8548 [][][]	Person No. 8550 [][][]	Person No. 8552 [][][]
Name _____	Name _____	Name _____
8554 \$ [] [] [] . 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	8556 \$ [] [] [] . 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	8558 \$ [] [] [] . 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.

CHECK ITEM T11 Refer to cc items 18 and 23. Number of persons in household **8560** 1 One — SKIP to Check Item T12
2 Two or more

Section 4 – TOPICAL MODULES (Continued)

Part C – REAL ESTATE, SHELTER COSTS, DEPENDENT CARE, AND VEHICLES (Continued)

7a. Last month, did anyone here pay for the care of a child or a disabled person so that a household member could work, attend training, or look for a job? 8562 Yes No — SKIP to Check item 810

b. What was the total cost of these care arrangements for the month of (Read last month)? 8564 \$ _____ 00
 x1 DK
 x2 Ref.

CHECK ITEM T12 Refer to cc items 16a and 16b. 8658 In a public housing project } SKIP to 9a
 Is this residence in a public housing project, is it subsidized, or is it neither public nor subsidized? 2 Subsidized
 3 Neither public nor subsidized

8a. Does ... or anyone else in this household own any (other) real estate such as a vacation home or undeveloped lot? Exclude rental property previously reported or rental property attached to or located on the same land as ...'s own residence. 8660 Yes No } SKIP to 9a
 x1 DK

b. Which persons in this household are the owners of this (these) property(ies)?

Person No.	Name
<input type="checkbox"/> 8662	_____
<input type="checkbox"/> 8664	_____

c. What is the total value of (Read persons' names) equity in this (these) property(ies)? (By equity we mean the amount that could be obtained by selling the property and paying off any debts.) 8666 \$ _____ 00
 Count only share owned by household members.
 x1 DK
 x2 Ref.

9a. Does anyone in this household own a car, van, or truck, excluding recreational vehicles (RV's) and motorcycles? 8714 Yes No — SKIP to 10a

b. How many cars, trucks, or vans are owned by members of this household? 8716 _____ Number of motor vehicles

(Ask items 9c – 9g for vehicle 1 and then return to 9c for additional vehicles.)

	Vehicle 1	Vehicle 2	Vehicle 3
c. Who is (are) the owner(s) of the (newest, next newest) motor vehicle?	Person No. <input type="checkbox"/> 8718 _____	Person No. <input type="checkbox"/> 8720 _____	Person No. <input type="checkbox"/> 8722 _____
	Name _____	Name _____	Name _____
	Person No. <input type="checkbox"/> 8724 _____	Person No. <input type="checkbox"/> 8726 _____	Person No. <input type="checkbox"/> 8728 _____
	Name _____	Name _____	Name _____

d. What is the year, make, and model of this vehicle?

	Vehicle 1	Vehicle 2	Vehicle 3
Year	<input type="checkbox"/> 8730 1 9	<input type="checkbox"/> 8732 1 9	<input type="checkbox"/> 8734 1 9
	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK
Make	<input type="checkbox"/> 8736 _____	<input type="checkbox"/> 8738 _____	<input type="checkbox"/> 8740 _____
	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK
Model	<input type="checkbox"/> 8742 _____	<input type="checkbox"/> 8744 _____	<input type="checkbox"/> 8746 _____
	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK	x1 <input type="checkbox"/> DK

OFFICE USE ONLY

<input type="checkbox"/> 8748 _____	<input type="checkbox"/> 8750 _____	<input type="checkbox"/> 8752 _____
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Section 4 – TOPICAL MODULES (Continued)

Part C – REAL ESTATE, SHELTER COSTS, DEPENDENT CARE, AND VEHICLES (Continued)

	Vehicle 1	Vehicle 2	Vehicle 3
9e. Is this vehicle owned free and clear, or is there still money owed on it?	8754 <input type="checkbox"/> Money owed <input type="checkbox"/> Free and clear x1 <input type="checkbox"/> DK	8756 <input type="checkbox"/> Money owed <input type="checkbox"/> Free and clear x1 <input type="checkbox"/> DK	8758 <input type="checkbox"/> Money owed <input type="checkbox"/> Free and clear x1 <input type="checkbox"/> DK
	} SKIP to 9g		

f. How much is currently owed for this vehicle?	8760 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref.	8761 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref.	8762 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref.
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g. Is this vehicle used primarily for either business purposes or for the transportation of a disabled person?	8763 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	8764 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	8765 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
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CHECK ITEM T13

Is there another vehicle which has not been asked about?	8766 1 <input type="checkbox"/> Yes – Ask 9c for next vehicle 2 <input type="checkbox"/> No – Go to 10a	8768 1 <input type="checkbox"/> Yes – Ask 9c for next vehicle 2 <input type="checkbox"/> No – Go to 10a	Go to 10a
---	--	--	-----------

10a. Does anyone in this household own another kind of vehicle, not used for any business, such as a motorcycle, boat, or recreational vehicle?	8770 1 <input type="checkbox"/> Motorcycle 8772 2 <input type="checkbox"/> Boat 8774 3 <input type="checkbox"/> Recreational vehicle (RV) 8776 4 <input type="checkbox"/> Other – Specify _____	8778 5 <input type="checkbox"/> No – SKIP to Check Item P1, page 62
<i>Mark (X) all that apply.</i>		

	Category 1	Category 2
b. Who is (are) the owner(s) of the (Read first/second category marked in 10a)?	Person No. Name 8780 <input type="text"/> <input type="text"/> <input type="text"/> _____ 8784 <input type="text"/> <input type="text"/> <input type="text"/> _____	Person No. Name 8782 <input type="text"/> <input type="text"/> <input type="text"/> _____ 8786 <input type="text"/> <input type="text"/> <input type="text"/> _____

c. If this vehicle were sold, what would it sell for in its present condition?	8788 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref. – SKIP to Check Item T14	8790 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref. – SKIP to Check Item P1, page 62
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d. Is (are) this (these) vehicle(s) owned free and clear, or is there still money owed on it (them)?	8792 1 <input type="checkbox"/> Money owed <input type="checkbox"/> Free and clear x1 <input type="checkbox"/> DK	8794 1 <input type="checkbox"/> Money owed <input type="checkbox"/> Free and clear x1 <input type="checkbox"/> DK
	} SKIP to Check Item T14	

e. How much is currently owed for this (these) vehicle(s)?	8798 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref.	8796 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK – Probe x2 <input type="checkbox"/> Ref.
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CHECK ITEM T14

Is there another vehicle which has not been asked about?	8800 1 <input type="checkbox"/> Yes – Ask 10b for next vehicle 2 <input type="checkbox"/> No – Go to Check Item P1, page 62	Go to Check Item P1, page 62
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Section 5 – PROGRAM QUESTIONS

CHECK ITEM P1	Refer to cc item 19b. Is this the reference person's questionnaire?	4800	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to Check Item C1, page 64
CHECK ITEM P2	Refer to cc items 16a and 16b. Is this residence owned by the local housing authority OR does the government pay part of the rent? ("Yes" marked in cc item 16a or 16b)	4802	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to 2a
1 a. What is your monthly rent?		4804	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">\$</div> <div style="border: 1px solid black; width: 80px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">.00</div> </div> <div style="margin-top: 5px;"> <input type="checkbox"/> None <input type="checkbox"/> DK <input type="checkbox"/> Ref. } SKIP to 2a </div>
b. (In addition to rent,) do you pay for any utilities such as water, electricity, gas, or oil? Exclude telephone.		4806	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK
2 a. The government has an energy assistance program which helps pay heating and cooling costs. This assistance can be received directly by the household or it can be paid directly to the electric or gas company, fuel dealer, or landlord. Has this household received assistance of this type during the past 4 months?		4816	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK } SKIP to Check Item P3
b. Was this assistance received in the form of checks, coupons or vouchers sent to this household, or were the payments sent directly to a utility company, fuel dealer, or landlord? Mark (X) all that apply.		4818 4820 4822	<input type="checkbox"/> Checks sent to household <input type="checkbox"/> Coupons or vouchers sent to household <input type="checkbox"/> Payments sent directly to utility company, fuel dealer, or landlord
c. What was the total amount of the energy assistance received by this household during the past 4 months?		4824	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">\$</div> <div style="border: 1px solid black; width: 80px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">.00</div> </div> <input type="checkbox"/> DK
CHECK ITEM P3	Are there any children 5 to 18 years old who live in this household?	4826	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to Check Item C1, page 64
3 a. Do any of the children in this household usually eat a complete hot lunch offered at school?		4828	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to Check Item C1, page 64
b. How many children?		4830	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">Children</div> </div>
c. How many complete school lunches do all of the children eat per week?		4832	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">Number of lunches</div> </div> <input type="checkbox"/> DK
d. Did you (or another person) apply for the children to receive free or reduced-price lunches under the Federal School Lunch Program during this school year?		4834	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to 3f
e. In the past 4 months, were the lunches free, reduced-price, or were they full-price? Mark (X) all that apply.		4836	<input type="checkbox"/> Free lunch – SKIP to 3g <input type="checkbox"/> Reduced-price lunch <input type="checkbox"/> Full-price lunch
f. What was the average price paid by all of the children for a complete school lunch?		4838	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">\$</div> <div style="border: 1px solid black; width: 80px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">.00</div> </div> <input type="checkbox"/> DK
g. Do any of the children usually eat breakfast at school under the Federal School Breakfast Program?		4840	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to Check Item C1, page 64
h. How many children?		4842	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">Children</div> </div>
i. How many complete school breakfasts do all of the children eat per week?		4844	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="margin-left: 5px;">Number of breakfasts</div> </div> <input type="checkbox"/> DK
j. In the past 4 months, were the breakfasts free, reduced-price, or were they full-price? Mark (X) all that apply.		4846	<input type="checkbox"/> Free breakfast <input type="checkbox"/> Reduced-price breakfast <input type="checkbox"/> Full-price breakfast

CALLBACK SUMMARY

CHECK ITEM C1

Are any items marked on Reminder Card for ...?

5000

Yes — Mark appropriate item(s) below, then SKIP to Check Item C2
 No — SKIP to Check Item C2

<input type="checkbox"/>	1. Social Security Number <i>(Enter in cc item 33a)</i>				<input type="checkbox"/> DK <input type="checkbox"/> None <input type="checkbox"/> Ref.
<input type="checkbox"/>	2. Medicare claim number <i>(Item 23b, page 8)</i>	5002		5004	5005
3. EMPLOYER					
<input type="checkbox"/>	a. Employer #1 <i>(Item 8a, page 17)</i> What was the total amount of pay received before deductions on this job in ...?	5006	\$	00	Last month <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5008	\$	00	2 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5010	\$	00	3 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5012	\$	00	4 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
<input type="checkbox"/>	b. Employer #2 <i>(Item 16a, page 19)</i> What was the total amount of pay received before deductions on this job in ...?	5014	\$	00	Last month <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5016	\$	00	2 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5018	\$	00	3 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5020	\$	00	4 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
4. SELF-EMPLOYMENT					
<input type="checkbox"/>	a. Self-employment #1 <i>(Item 7, page 21)</i> What was the total amount of income received from this business in ...?	5022	\$	00	Last month <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5024	\$	00	2 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5026	\$	00	3 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5028	\$	00	4 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
<input type="checkbox"/>	b. Self-employment #2 <i>(Item 18, page 23)</i> What was the total amount of income received from this business in ...?	5030	\$	00	Last month <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5032	\$	00	2 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5034	\$	00	3 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
		5036	\$	00	4 months ago <input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
Amounts as of <input style="width: 100px;" type="text"/> (the last day of the reference period)					
<input type="checkbox"/>	5. What was the total amount in savings/Money market deposit accounts/CD's/interest-earning checking accounts held jointly by husband and wife? <i>(Item 2c, page 48)</i>	5038	\$	00	<input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
<input type="checkbox"/>	6. What was the total amount in savings/Money market deposit accounts/CD's/interest-earning checking accounts in own name? <i>(Item 3c, page 49)</i>	5040	\$	00	<input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
<input type="checkbox"/>	7. What was the total amount in Money market funds/securities/ bonds held jointly by husband and wife? <i>(Item 2c, page 49)</i>	5042	\$	00	<input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None
<input type="checkbox"/>	8. What was the total amount in Money market funds/securities/bonds in own name? <i>(Item 3c, page 49)</i>	5044	\$	00	<input type="checkbox"/> DK <input type="checkbox"/> Ref. <input type="checkbox"/> None

CALLBACK SUMMARY (Continued)

Amounts for the 4-month period of through

<input type="checkbox"/>	9. What was the amount received in dividends jointly by husband and wife during the 4-month period? <i>(Item 1b, page 50)</i>	5048	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
<input type="checkbox"/>	10. What was the amount received in dividends in own name during the 4-month period? <i>(Item 2a, page 50)</i>	5050	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None

Amounts as of (the last day of the reference period)

<input type="checkbox"/>	11. What was the market value of stocks and mutual funds held jointly by husband and wife? <i>(Item 4a, page 50)</i>	8858	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
<input type="checkbox"/>	12. What was the market value of stocks and mutual funds held in own name? <i>(Item 5b, page 51)</i>	8860	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	13. What was the market value of rental property owned jointly by husband and wife? <i>(Item 2g, page 52)</i>	8862	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	14. What was the market value of rental property owned in own name? <i>(Item 3g, page 53)</i>	8864	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	15. What was the share of equity in rental property held jointly with others? <i>(Item 4h, page 54)</i>	8866	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	16. What was the total balance or market value (including interest earned) of IRA accounts? <i>(Item 3c, page 56)</i>	8868	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	17. What was the total balance or market value of assets in KEOGH account(s)? <i>(Item 4c, page 57)</i>	8870	\$ <input style="width:80%;" type="text"/> .00	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.

CHECK ITEM C2	Has an interview been conducted for all household members 15+?	5052	1 <input type="checkbox"/> Yes — Enter finish time on cover page, fill cc items 36 and 39 and END INTERVIEW 2 <input type="checkbox"/> No — Enter finish time for this household member, THEN interview next 15+ household member
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NOTES

INCOME SOURCE LIST

INCOME LIST

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

ASSET LIST

SPECIAL INDICATORS

Code	Type	Code	Type
100	Regular/passbook savings accounts in a bank, savings and loan or credit union	170	Worked
101	Money market deposit accounts	171	Disabled
102	Certificates of Deposit or other savings certificates	172	Medicare
103	Interest-earning checking accounts (such as NOW or Super NOW accounts)	173	Medicaid
104	Money market funds	174	U.S. Savings Bonds (E, EE)
105	U.S. Government securities	175	College work study
106	Municipal or corporate bonds	176	PELL Grant
107	Other interest-earning assets	177	Supplemental Educational Opportunity Grant (SEOG)
110	Stocks or mutual fund shares	178	National Direct Student Loan (NDSL)
120	Rental property	179	Guaranteed Student Loan
130	Mortgages	180	JTPA Training
140	Royalties	181	Employer assistance
150	Other financial investments	182	Fellowship/Scholarship
		183	Other financial aid
		200	VA disability rating of 100%
		201	VA disability of less than 100%

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.

PGM 9	ISS code	Mark (X)	Record use code	Type of income source and income source code	Amounts section page number
	(a)	(b)	(c)	(d)	(e)
			1 = Yes 2 = No 3 = Ref. 4 = Sp. Q.	REMINDER — After obtaining amounts for each income source, probe to determine whether the respondent was using records to provide amounts.	
				INCOME CODES 1-7	
	1			Social Security	
	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	
	25			WIC (Women, Infants, and Children Nutrition Program)	
	27			Food Stamps	(A) - 24
	28			Child Support payments	28
	29			Alimony payments	32
					36
					40
					44
				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	
	100			Interest Earning Assets 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	
	105			U.S. Government securities	
	106			Municipal or corporate bonds	(C) - 49
	107			Other interest-earning assets	
	110			Stocks or mutual fund shares	(D) - 50
	120			Rental property	(E) - 51
	130			Mortgages	
	140			Royalties	(F) - 52
	150			Other financial investments	
				SPECIAL INDICATOR CODES 170-183, 200, 201	Section 2
	170			Worked	
	171			Disabled	
	172			Medicare	
	173			Medicaid	
	174			U.S. Savings Bonds	
	200			VA disability rating of 100%	DO NOT FILL
	201			VA disability rating of less than 100%	

PRE-INTERVIEW TRANSCRIPTION ITEMS

Fill the following items with a red pencil.

Item	Page
11a, Start time (Cover Page)	1
2-4, 5b, 5c, 6	1
Check Item N1	1
Check Item R6	4
Income Roster, 11b, columns (2) and (3)	5
Check Item R7	4
Asset Roster, 28b, columns (2) and (3)	12
Check Item R32	13
Check Item T2	56
Check Item T4	58
11a, Finish time (Cover Page)	1

APPENDIX C

Working Papers

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

1990

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

SIPP FILES

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

1989

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

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

SIPP FILES

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

1988

- 8801 - "The Impact of the Unit of Analysis on Measures of Serial Multiple Program Participation," by P. Doyle and S. E. Long, Mathematica Policy Research, Inc.
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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 7 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.