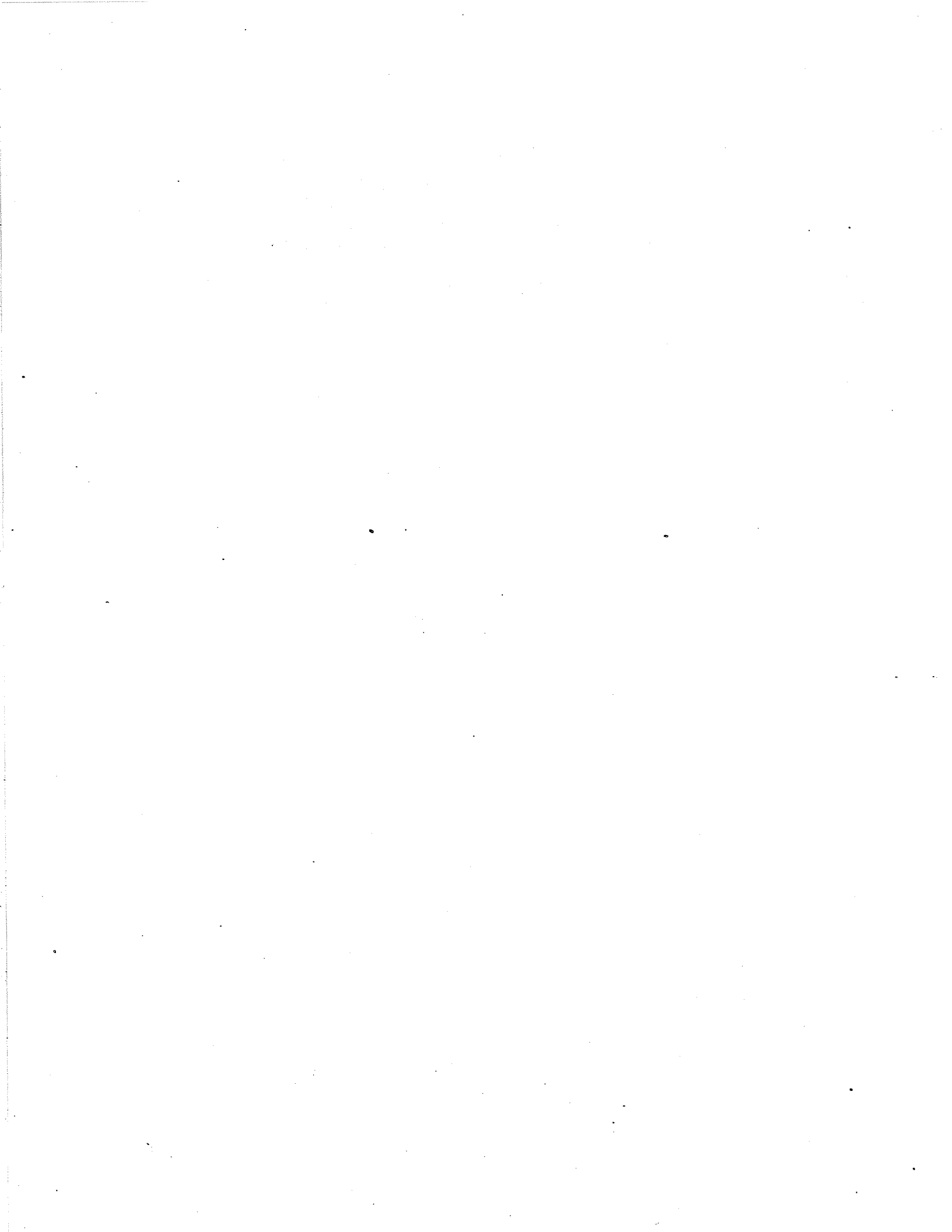


**Survey of Income and Program
Participation (SIPP)
1990 Panel
Wave 8 Topical Module Microdata
Research File**

TECHNICAL DOCUMENTATION
SIPP-90-8RES



SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)

1990 PANEL

WAVE 8 TOPICAL MODULE MICRODATA RESEARCH FILE

Technical Documentation

Washington, D.C.

1993



U.S. DEPARTMENT OF COMMERCE

Ronald H. Brown, Secretary

Economic and Statistics Administration

**Paul A. London, Under Secretary for
Economic Affairs**

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



BUREAU OF THE CENSUS

Dr. Harry A. Scarr, Acting Director

DATA USER SERVICES DIVISION

Marshall L. Turner, Jr., Chief
Marie G. Argana, Assistant Chief
for User Services

ACKNOWLEDGMENTS

Staff members of Demographic Surveys Division, under the direction of Sherry L. Courtland, Chief, provided overall guidance on technical details of this technical documentation. Fuad Foty provided the unformatted data dictionary file. In Data User Services Division, Genny Burns, assisted by Virginia Collins, coordinated the production of this documentation.

The file should be cited as follows:

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

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For additional information concerning the technical documentation, contact Data User Services Division, Data Access and Use Branch, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-2074.

For additional information concerning the questionnaire content or subject matter, contact Enrique Lamas (763-8578) in Housing and Household Economics Statistics Division, Bureau of the Census, Washington, D.C. 20233.

AUTHORIZATION FORM

Authorization for Access to the Survey of Income and Program Participation (SIPP) 1990 Panel Wave 8 Topical Module Restricted Access Public-Use Microdata Research File

The Census Bureau has released this 1990 Panel Wave 8 topical module file for research to improve understanding and analysis of SIPP data. The file contains data from the Wave 8 1990 topical module which includes annual income and retirement accounts, taxes, and school enrollment and financing. Only the topical module relating to education has been subject to routine Bureau edits and imputation. The other topical modules have not been edited nor imputed although they have been topcoded or bottomcoded and recoded where necessary, to avoid disclosure of individual respondents. We expect the results of research using the file will lead to improvements in the quality of SIPP data and future products.

The Wave 8 topical module research data contained on this file are preliminary and review of the data for consistency and accuracy is currently ongoing at the Census Bureau. For these reasons, the Census Bureau regards the data on the file as preliminary and not for citation as official estimates.

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ABSTRACT

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

Type of File:

Microdata; unit of observation is an individual.

Universe Description:

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

Subject-Matter Description:

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

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

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

Geographic Coverage:

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

Technical Description:

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

File Size: 56,423 logical records; 344 character logical record length.

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

Reference Materials:

Survey of Income and Program Participation (SIPP) 1990 Panel, Wave 8 Topical Module Microdata Research 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 1990 Panels as well as 1991 Waves 1 through 4 are available from Customer Services, Data User Services Division, Bureau of the Census, Washington, D.C. 20233. An order form is on the following page for your convenience.

File Availability:

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

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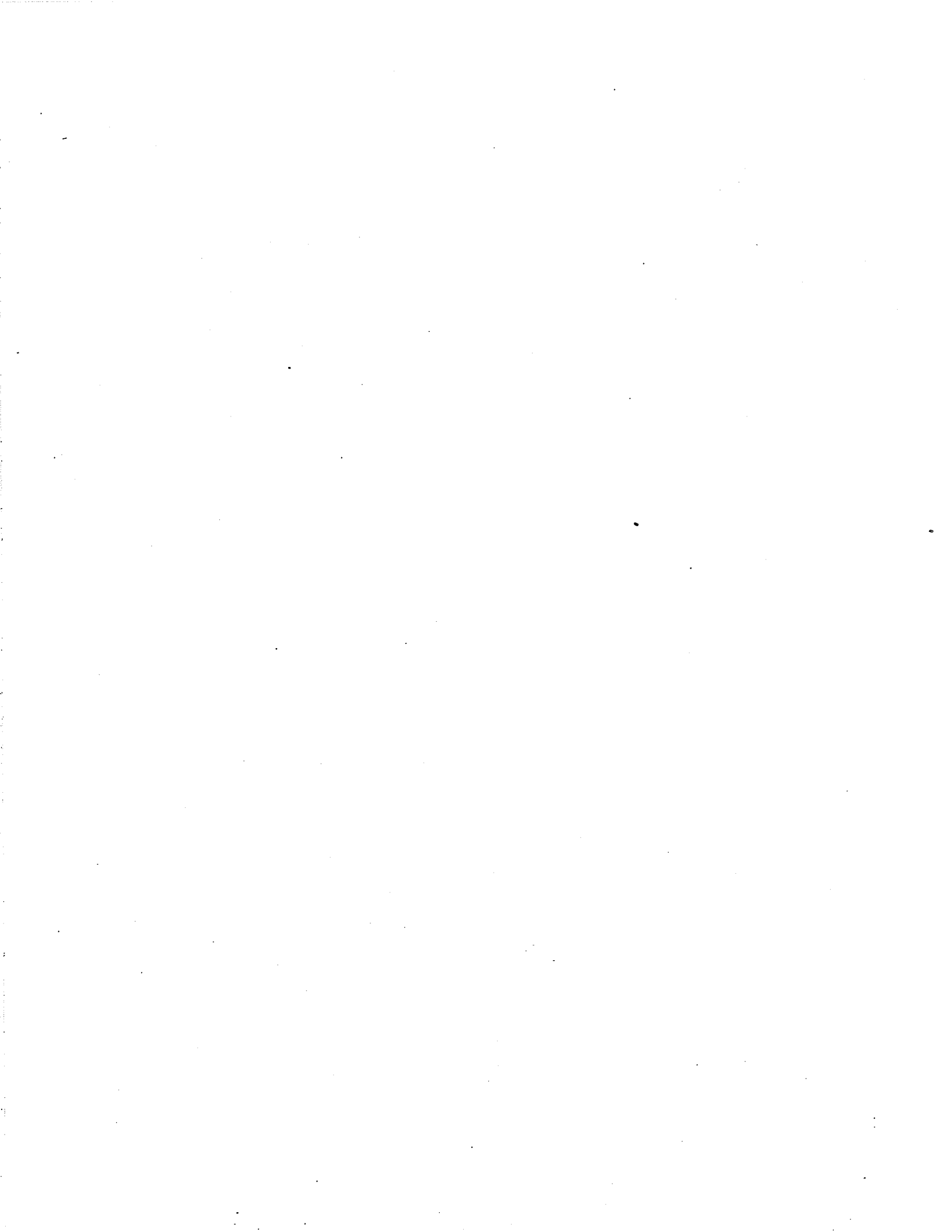
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FILE INFORMATION

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

SIPP TOPICAL MODULE

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 respondents' income from a single job were concentrated in only one of the four reference months, a figure as high as \$33,332 could be shown. (Income from interest or property have lower topcodes).

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

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

GLOSSARY OF SELECTED TERMS

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

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

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

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

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

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

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

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

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

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

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.

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.

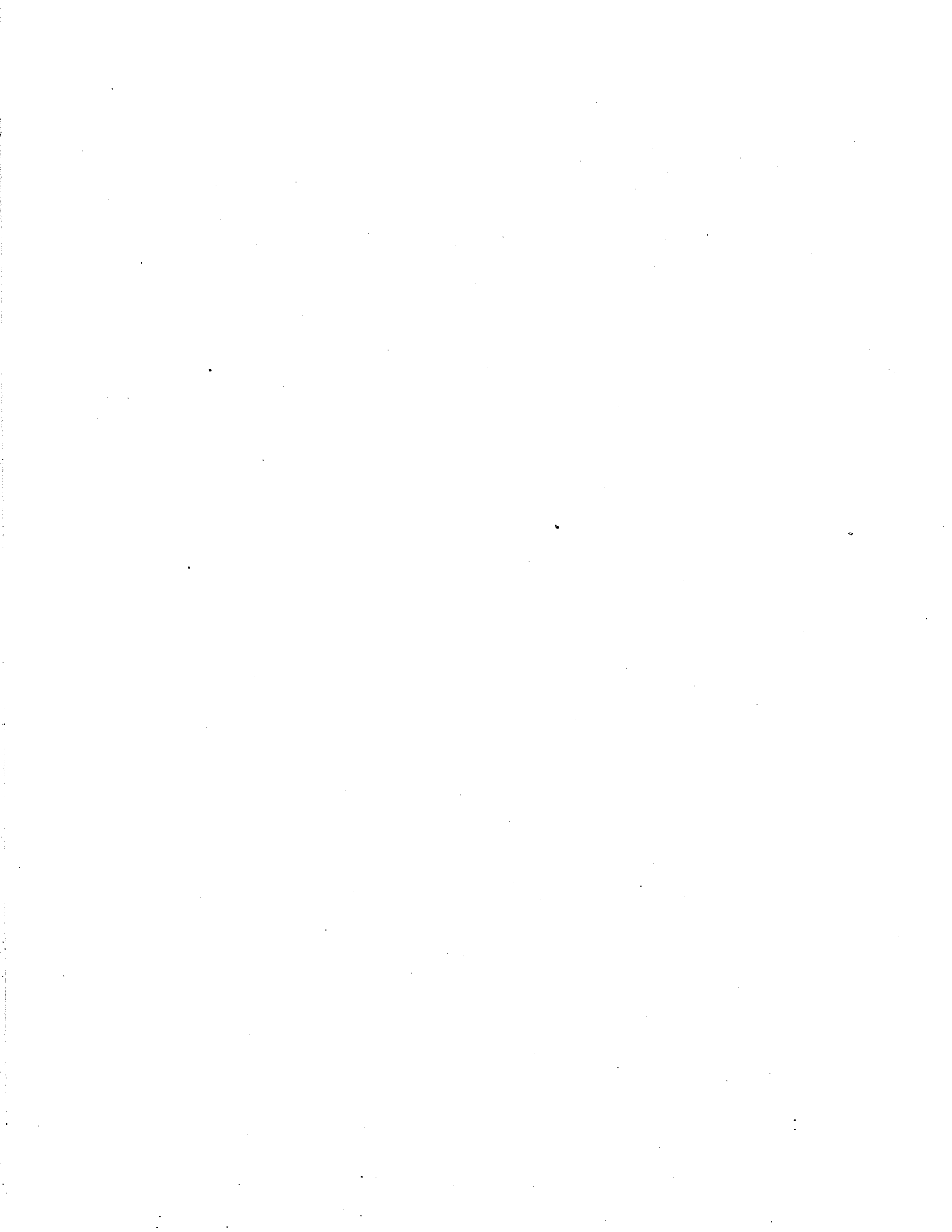
In the CPS, the concept at 'work' includes those persons who spent at least 1 hour during the reference week at their job or business. In the CPS, however, 'at work' does not include persons who were temporarily absent from their jobs during the entire reference week on paid vacation, sick leave, etc.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

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Business Information Already Obtained - Check Item T4.....	TM8012	79
Business Information Obtained - Check Item T4	TM8062	124
Business Names on Control Card - Check Item T1	TM8000	69
Business Owned and Operated During Calendar Year 1990	TM8004	71
Business Owned by Household Members, % of Second.....	TM8164	143
Business Owned Entirely by Household Members, First	TM8112	97
Business Owned Entirely by Household Members, Second.....	TM8162	142
Business Owned in Own Name, Percentage of.....	TM8116	100
Business Owner Entirely by Household Members, Percentage of	TM8114	98
Businesses Owned and Operated During 1990, Number of	TM8006	72
Certificates of Deposit or Other Savings Certificates.....	TM9342	172
Certificates of Deposit or Other Savings Certificates.....	TM9370	186
Co-Owner of Business, Person Number of First.....	TM8212	108
Co-Owner of Business, Person Number of Second	TM8218	113
Co-Owner of Second Business, Person Number of First.....	TM8262	153
Co-Owner of Second Business, Person Number of Second	TM8268	158
College Work Study Program.....	TM9636	266
College Work Study, Amount Received From	TM9638	267
Cost for Room and Board, Total.....	TM9624	248
Cost of Books and Supplies, Total	TM9620	243
Cost of Tuition and Fees, Total.....	TM9618	238
Education and Training Imputation Flags	TM-IFC1:18	322
Educational Assistance From Other Source, Amount of.....	TM9674	315
Educational Assistance Received.....	TM9626	253
Educational Assistance, Other Type of	TM9672	314
Educational Assistance, Total Amount of.....	TMTEDFIN	340
Employer Educational Assistance	TM9660	297
Employer Educational Assistance, Amount Received From.....	TM9662	298
Employer Names Listed on Control Card	TM9385	194
Enrolled in Elementary or High School	TM9614	236
Enrolled in Public School.....	TM9616	237
Ethnic Origin.....	ETHNICTY	63
Fellowship or Scholarship Assistance.....	TM9664	303
Fellowship or Scholarship, Amount Received From.....	TM9666	304
Form of Business - Type of Proprietorship	TM8068	130
GI Bill Educational Assistance	TM9628	255
GI Bill, Amount Received From.....	TM9630	256
Grade Attended Was Completed, Highest.....	GRD-CMPL	62
Grade or Level in Which Enrolled	TM9612	234

<u>Item</u>	<u>Mnemonic</u>	<u>Position</u>
Grade or Year of School Attended, Highest.....	HIGRADE.....	60
Guaranteed Student Loan.....	TM9652.....	286
Guaranteed Student Loan, Amount Received From.....	TM9654.....	287
Household Members Part Business Owners - Check Item T8.....	TM8208.....	105
Household Members Part Owner-Second Person Number.....	TM8160.....	139
Household Members Part Owners of Second Business.....	TM8156.....	134
Household Members Part Owners-First Person Number.....	TM8158.....	136
ID Number of Second Business - Check Item T3.....	TM8060.....	122
Identifier, Sample Unit.....	ID.....	6
Income From Second Business.....	TM8254.....	148
Income Received by Other Household Owners of Business.....	TM8210.....	106
Income Received From Business By Household Owners.....	TM8260.....	151
Index From Core, Person.....	PINX.....	18
Individual Retirement (IRA) Contributions Applied to Tax Return.....	TM9332.....	168
Individual Retirement (IRA) Withdrawals During 1990.....	TM9336.....	170
Individual Retirement Account (IRA) in Own Name.....	TM9330.....	166
Industry Code for First Business.....	TMIND1.....	74
Industry Code for Second Business.....	TMIND2.....	119
Interview Status Code.....	ITEM36B.....	22
Interview Status of Spouse.....	TM9488.....	218
Interview Status, Person's.....	INTVW.....	24
Interviews Obtained Previously - Check Item T2.....	TM8002.....	70
Items With Data on This Record, Number of.....	TMEBCNT.....	197
Items With Data on This Record, Number of.....	TMETCNT.....	320
Items With Data on This Record, Number of.....	TMPICNT.....	229
JTPA Training Educational Assistance.....	TM9656.....	292
JTPA Training Program, Amount Received From.....	TM9658.....	293
KEOGH Account in Own Name.....	TM9358.....	180
KEOGH Contributions Applied to 1990 Tax Return.....	TM9360.....	182
KEOGH Withdrawals During 1990.....	TM9364.....	184
Live Away From Home While Attending School.....	TM9622.....	247
Location of First Business.....	TM8020.....	87
Location of Second Business.....	TM8070.....	132
Loss From Business for First Co-Owner, Indication of.....	TM8216.....	111
Loss From Business for Second Co-Owner, Indication of.....	TM8222.....	116
Loss From Other Businesses.....	TM8280.....	164
Loss from Second Business for First Co-Owner.....	TM8266.....	156
Loss from Second Business for Second Co-Owner.....	TM8272.....	161
Lost Money on Business.....	TM8204.....	103
Marital Status.....	MS.....	53
Money Market Funds.....	TM9344.....	173
Money Market Funds.....	TM9372.....	187
Municipal or Corporate Bonds.....	TM9348.....	175
Municipal or Corporate Bonds.....	TM9376.....	189
National Direct Student Loan.....	TM9648.....	281
National Direct Student Loan, Amount Received From.....	TM9650.....	282
Owner of Business, Person Number of Other.....	TM8014.....	80
Ownership by Other Household Members - First Person Number.....	TM8108.....	91
Ownership by Other Household Members - Second Person Number.....	TM8110.....	94
Ownership of First Business by Other Household Members.....	TM8106.....	89
Part Owners of Second Business - Check Item T8.....	TM8258.....	150
Pell Grant Educational Assistance.....	TM9640.....	271
Pell Grant, Amount Received From.....	TM9642.....	272
Person Number of Parent.....	PNPT.....	57
Person Number of Spouse.....	PNSP.....	54
Person Number, Edited.....	PNUM.....	32

<u>Item</u>	<u>Mnemonic</u>	<u>Position</u>
Person's Month in Sample	PP-MIS1:5	25
Race - Edited and Imputed	RACE	52
Relationship to Reference Person, Edited.....	RRP	47
Rotation Group	ROTATION	15
Salary Reduction or 401K Plan	TM9386	195
School Enrollment Status	TM9610	233
SEOG, Amount Received From	TM9646	277
Sequence Number of Sample Units	SUSEQNUM	1
Sex - Edited and Imputed	SEX	51
Sole Proprietorship - Check Item T7	TM8126	102
Sole Proprietorship for Business One - Check Item T7	TM8176	147
Sole Proprietorship Marked for First Business.....	TM8104	88
Sole Proprietorship-Check Item T5 for Second Business	TM8154	133
State Code - FIPS.....	STATE	16
Stocks or Mutual Fund Shares	TM9352	177
Stocks or Mutual Fund Shares	TM9380	191
Supplement Educational Opportunity Grant(SEOG).....	TM9644	276
Tax Bill, Amount of Property	TM9498	227
Tax Exemptions for 1st Dependent - Relationship.....	TM9416	209
Tax Exemptions for 2nd Dependent - Relationship	TM9418	210
Tax Exemptions for Dependents Outside Home	TM9414	208
Tax Filing Status	TM9396	204
Tax Form Copy For Reference	TM9394	203
Tax Form Filed, Type of	TM9420	211
Tax Information Already Obtained - Check Item T26.....	TM9390	201
Tax Paid Jointly With Person One, Property	TM9494	221
Tax Paid Jointly With Person Two, Property.....	TM9496	224
Tax Return Exemptions Claimed, Total Number of	TM9398	206
Tax Return Filed for 1990	TM9392	202
Tax Schedule A - Itemized Deductions	TM9422	213
Tax Schedule D - Capital Gains and Losses	TM9424	215
Taxes Paid in 1990, Property	TM9490	219
Taxes Paid Jointly, Property	TM9492	220
Tenure - Check Item T35.....	TM9486	217
Three or More Businesses - Check Item T10	TM8276	163
Tuition Reduction Educational Assistance.....	TM9668	309
Tuition Reduction, Amount Received From	TM9670	310
United States Government Securities	TM9346	174
United States Government Securities	TM9374	188
United States Savings Bonds	TM9350	176
United States Savings Bonds	TM9378	190
Veteran's Educational Assistance Program.....	TM9632	260
Veteran's Programs, Amount Received From.....	TM9634	261
Wave Number Within Panel	WAVE	65
Weight, Second Stage Factor.....	FINALWGT	35

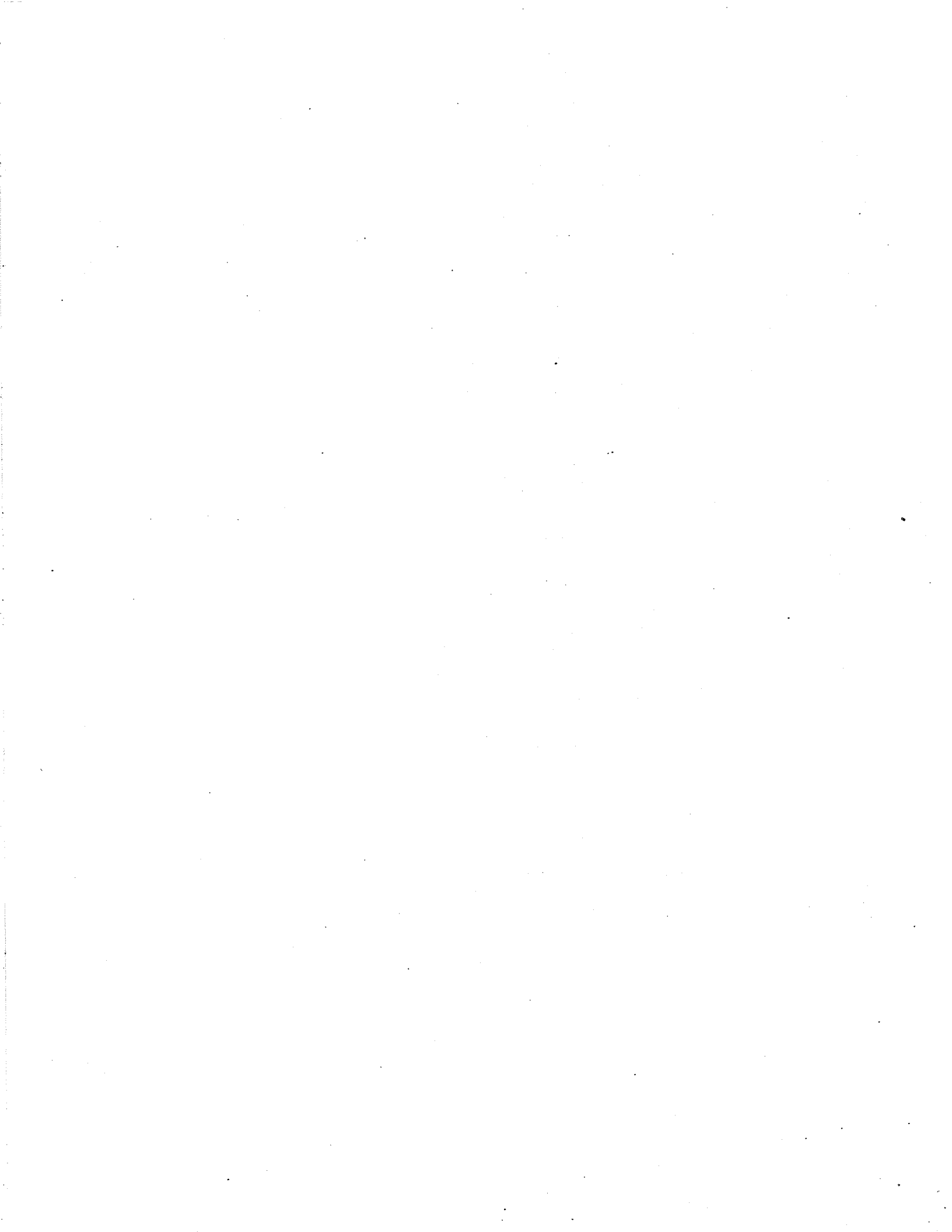


VARIABLE LISTING TO 1990 WAVE 8 TOPICAL MODULE RESEARCH FILE

<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
ADDID	Address Identification.....	20
AGE	Age as of Last Birthday - Edited and Imputed	48
ENTRY	Address Identification - Edited Entry	30
ETHNICTY	Ethnic Origin.....	63
FINALWGT	Weight, Second Stage Factor.....	35
GRD-CMPL	Grade Attended Was Completed, Highest.....	62
HIGRADE	Grade or Year of School Attended, Highest.....	60
ID.....	Identifier, Sample Unit	6
INTVW.....	Interview Status, Person's.....	24
ITEM36B	Interview Status Code	22
MS	Marital Status	53
PINX.....	Index From Core, Person.....	18
PNPT	Person Number of Parent	57
PNSP	Person Number of Spouse.....	54
PNUM.....	Person Number, Edited.....	32
PP-MIS1:5	Person's Month in Sample	25
RACE.....	Race - Edited and Imputed	52
ROTATION	Rotation Group.....	15
RRP	Relationship to Reference Person, Edited.....	47
SEX	Sex - Edited and Imputed	51
STATE	State Code - FIPS.....	16
SUSEQNUM	Sequence Number of Sample Units	1
TM-IFC1:18	Education and Training Imputation Flags	322
TM8000	Business Names on Control Card - Check Item T1	69
TM8002	Interviews Obtained Previously - Check Item T2	70
TM8004	Business Owned and Operated During Calendar Year 1990	71
TM8006	Businesses Owned and Operated During 1990, Number of	72
TM8010	Business ID Number - Check Item T3	77
TM8012	Business Information Already Obtained - Check Item T4.....	79
TM8014	Owner of Business, Person Number of Other.....	80
TM8016	Business ID Number of Business For Other Owner	83
TM8020	Location of First Business.....	87
TM8060	ID Number of Second Business - Check Item T3	122
TM8062	Business Information Obtained - Check Item T4	124
TM8064	Business (Second) Owner , Person Number of Other.....	125
TM8066	Business ID Number of Business for Other Owner.....	128
TM8068	Form of Business - Type of Proprietorship.....	130
TM8070	Location of Second Business	132
TM8104	Sole Proprietorship Marked for First Business.....	88
TM8106	Ownership of First Business by Other Household Members	89
TM8108	Ownership by Other Household Members - First Person Number	91
TM8110	Ownership by Other Household Members - Second Person Number	94
TM8112	Business Owned Entirely by Household Members, First	97
TM8114	Business Owner Entirely by Household Members, Percentage of	98
TM8116	Business Owned in Own Name, Percentage of.....	100
TM8126	Sole Proprietorship - Check Item T7	102
TM8154	Sole Proprietorship-Check Item T5 for Second Business	133
TM8156	Household Members Part Owners of Second Business	134
TM8158	Household Members Part Owners-First Person Number	136
TM8160	Household Members Part Owner-Second Person Number	139
TM8162	Business Owned Entirely by Household Members, Second.....	142
TM8164	Business Owned by Household Members, % of Second.....	143

<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
TM8166	Business In Own Name, Percentage of Second	145
TM8176	Sole Proprietorship for Business One - Check Item T7	147
TM8204	Lost Money on Business	103
TM8208	Household Members Part Business Owners - Check Item T8	105
TM8210	Income Received by Other Household Owners of Business	106
TM8212	Co-Owner of Business, Person Number of First	108
TM8216	Loss From Business for First Co-Owner, Indication of	111
TM8218	Co-Owner of Business, Person Number of Second	113
TM8222	Loss From Business for Second Co-Owner, Indication of	116
TM8254	Income From Second Business	148
TM8258	Part Owners of Second Business - Check Item T8	150
TM8260	Income Received From Business By Household Owners	151
TM8262	Co-Owner of Second Business, Person Number of First	153
TM8266	Loss from Second Business for First Co-Owner	156
TM8268	Co-Owner of Second Business, Person Number of Second	158
TM8272	Loss from Second Business for Second Co-Owner	161
TM8274	Another Business - Check Item T9	118
TM8276	Three or More Businesses - Check Item T10	163
TM8280	Loss From Other Businesses	164
TM9330	Individual Retirement Account (IRA) In Own Name	166
TM9332	Individual Retirement (IRA) Contributions Applied to Tax Return	168
TM9336	Individual Retirement (IRA) Withdrawals During 1990	170
TM9342	Certificates of Deposit or Other Savings Certificates	172
TM9344	Money Market Funds	173
TM9346	United States Government Securities	174
TM9348	Municipal or Corporate Bonds	175
TM9350	United States Savings Bonds	176
TM9352	Stocks or Mutual Fund Shares	177
TM9354	Assets, Other	178
TM9356	Assets, Types Unknown	179
TM9358	KEOGH Account in Own Name	180
TM9360	KEOGH Contributions Applied to 1990 Tax Return	182
TM9364	KEOGH Withdrawals During 1990	184
TM9370	Certificates of Deposit or Other Savings Certificates	186
TM9372	Money Market Funds	187
TM9374	United States Government Securities	188
TM9376	Municipal or Corporate Bonds	189
TM9378	United States Savings Bonds	190
TM9380	Stocks or Mutual Fund Shares	191
TM9382	Assets, Other	192
TM9384	Assets, Types Unknown	193
TM9385	Employer Names Listed on Control Card	194
TM9386	Salary Reduction or 401K Plan	195
TM9390	Tax Information Already Obtained - Check Item T26	201
TM9392	Tax Return Filed for 1990	202
TM9394	Tax Form Copy For Reference	203
TM9396	Tax Filing Status	204
TM9398	Tax Return Exemptions Claimed, Total Number of	206
TM9414	Tax Exemptions for Dependents Outside Home	208
TM9416	Tax Exemptions for 1st Dependent - Relationship	209
TM9418	Tax Exemptions for 2nd Dependent - Relationship	210
TM9420	Tax Form Filed, Type of	211
TM9422	Tax Schedule A - Itemized Deductions	213
TM9424	Tax Schedule D - Capital Gains and Losses	215
TM9486	Tenure - Check Item T35	217
TM9488	Interview Status of Spouse	218

<u>Mnemonic</u>	<u>Item</u>	<u>Position</u>
TM9490	Taxes Paid in 1990, Property	219
TM9492	Taxes Paid Jointly, Property	220
TM9494	Tax Paid Jointly With Person One, Property	221
TM9496	Tax Paid Jointly With Person Two, Property	224
TM9498	Tax Bill, Amount of Property	227
TM9610	School Enrollment Status	233
TM9612	Grade or Level in Which Enrolled	234
TM9614	Enrolled in Elementary or High School	236
TM9616	Enrolled in Public School	237
TM9618	Cost of Tuition and Fees, Total	238
TM9620	Cost of Books and Supplies, Total	243
TM9622	Live Away From Home While Attending School	247
TM9624	Cost for Room and Board, Total	248
TM9626	Educational Assistance Received	253
TM9628	GI Bill Educational Assistance	255
TM9630	GI Bill, Amount Received From	256
TM9632	Veteran's Educational Assistance Program	260
TM9634	Veteran's Programs, Amount Received From	261
TM9636	College Work Study Program	266
TM9638	College Work Study, Amount Received From	267
TM9640	Pell Grant Educational Assistance	271
TM9642	Pell Grant, Amount Received From	272
TM9644	Supplement Educational Opportunity Grant(SEOG)	276
TM9646	SEOG, Amount Received From	277
TM9648	National Direct Student Loan	281
TM9650	National Direct Student Loan, Amount Received From	282
TM9652	Guaranteed Student Loan	286
TM9654	Guaranteed Student Loan, Amount Received From	287
TM9656	JTPA Training Educational Assistance	292
TM9658	JTPA Training Program, Amount Received From	293
TM9660	Employer Educational Assistance	297
TM9662	Employer Educational Assistance, Amount Received From	298
TM9664	Fellowship or Scholarship Assistance	303
TM9666	Fellowship or Scholarship, Amount Received From	304
TM9668	Tuition Reduction Educational Assistance	309
TM9670	Tuition Reduction, Amount Received From	310
TM9672	Educational Assistance, Other Type of	314
TM9674	Educational Assistance From Other Source, Amount of	315
TMEBCNT	Items With Data on This Record, Number of	197
TMETCNT	Items With Data on This Record, Number of	320
TMIND1	Industry Code for First Business	74
TMIND2	Industry Code for Second Business	119
TMPICNT	Items With Data on This Record, Number of	229
TMTEDFIN	Educational Assistance, Total Amount of	340
WAVE	Wave Number Within Panel	65



HOW TO USE THE DATA DICTIONARY

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

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

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

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

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

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

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

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


SIPP 1990 WAVE 8 TOPICAL MODULE RESEARCH FILE DATA DICTIONARY

DATA SIZE BEGIN

D SUSEQNUM 5 1
 Sequence number of sample unit
 Primary sort key
 U All persons

D ID 9 6
 Sample unit identifier
 This identifier is created by scrambling
 together the PSU, segment and serial of
 the original sample address. It may be
 used in matching sample units from
 different waves.
 Range = (000000000:999999999)
 U All persons

D ROTATION 1 15
 Rotation
 Range = (1:4)
 U All persons

D STATE 2 16
 FIPS state code from the MST/GRIN file
 U All persons

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

DATA SIZE BEGIN

D PINX 2 18
 Person index from core

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

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

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

D INTVW 1 24
 Person's interview status
 U All persons, including children

V 0 .Not applicable (children
 .under 15)
 V 1 .Interview (self)
 V 2 .Interview (proxy)
 V 3 .Noninterview - Type Z refusal
 V 4 .Noninterview - Type Z other

SIPP 1990 TOPICAL MODULE WAVE 8 RESEARCH FILE

DATA SIZE BEGIN

D PP-MIS1 1 25
 Person's monthly interview status
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PP-MIS2 1 26
 Person's monthly interview status
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PP-MIS3 1 27
 Person's monthly interview status
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PP-MIS4 1 28
 Person's monthly interview status
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PP-MIS5 1 29
 Person's monthly 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 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 SIZE BEGIN
 D ETHNICTY 2 63
 Ethnic origin
 U All persons, including children
 V 01 .German
 V 02 .English
 V 03 .Irish
 V 04 .French
 V 05 .Italian
 V 06 .Scottish
 V 07 .Polish
 V 08 .Dutch
 V 09 .Swedish
 V 10 .Norwegian
 V 11 .Russian
 V 12 .Ukrainian
 V 13 .Welsh
 V 14 .Mexican-American
 V 15 .Chicano
 V 16 .Mexican
 V 17 .Puerto Rican
 V 18 .Cuban
 V 19 .Central or South American
 .(Spanish speaking)
 V 20 .Other Spanish
 V 21 .Afro-American (Black or Negro)
 V 30 .Another group not listed
 V 39 .Don't know

D WAVE 1 65
 Wave number within Panel

D FILLER 3 66
 Zero filler

 * Part A - Annual Income and Retirement *
 * Accounts *

D TM8000 1 69
 Check Item T1
 Are the names of any businesses
 listed for ... on the control card?
 Range = (0:2)
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes - skip to TM8006
 V 2 .No

D TM8002 1 70
 Check Item T2
 Were interviews obtained for ... for
 each of the 1st, 2nd, 3rd and 4th
 waves?
 Range = (0:2)
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes - skip to TM9330
 V 2 .No

D TM8004 1 71
 Did ... own and operate a business
 at any time during calendar year 1990?
 Range = (0:2)
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9330

DATA SIZE BEGIN
 D TM8006 2 72
 How many different businesses did
 ... own and operate during calendar
 year 1990?
 Range = (-3:-3,00:09)
 U Persons who owned and operated a
 business during 1990
 V -3 .None - skip to TM9330
 V 00 .Not applicable
 V 01 .1 business
 V 02 .2 businesses
 V 03 .3+ businesses

 * Fields TMIND1-TM8020, TM8104-TM8126, *
 * TM8202-TM8222, and TM8274 apply to *
 * first business *

D TMIND1 3 74
 Three digit industry code for
 business in TM8010-TM8020
 Range = (000:999)
 U Persons who owned and operated a
 business during 1990
 V 000 .Not applicable

D TM8010 2 77
 Check Item T3 for business
 Transcribe ID number for this
 business from control card item 43
 Range = (-3:-3,00:09)
 U Persons who owned and operated a
 business during 1990
 V -3 .Not listed on control card
 V 00 .Not applicable
 V 01-09 .ID number of business

D TM8012 1 79
 Check Item T4 for business
 Has information about this business
 already been obtained in an inter-
 view for another household member?
 Range = (0:2)
 U Persons who owned and operated a
 business during 1990
 V 0 .Not universe
 V 1 .Yes
 V 2 .No - skip to TM8018

D TM8014 3 80
 Person number of other owner of
 business
 Range = (000:999)
 U Persons who owned and operated a
 business for which information has
 already been obtained
 V 000 .Not applicable
 V 101-999 .Person number

D TM8016 2 83
 Business ID number of business
 for other owner
 Range = (-3:-3,00:09)
 U Persons who owned and operated a
 business for which information has
 already been obtained
 V -3 .None - skip to TM8274
 V 00 .Not applicable
 V 01-09 .ID number of business -
 V .skip to TM8274

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DATA SIZE BEGIN
D TM8018 2 85
What was the form of this (business/
practice) - was it a sole proprietorship
a partnership, or a corporation?
U Persons who owned and operated a
business during 1990 for which information
has not been obtained
V 00 .Not applicable
V 01 .Sole proprietorship
V 02 .Partnership
V 03 .Corporation
V -1 .DK

D TM8020 1 87
Was this business primarily
located in... 's own home or
somewhere else?
U Persons who owned and operated a
business during 1990 for which information
has not been obtained
V 0 .Not applicable
V 1 .Own home
V 2 .Somewhere else

*
* Fields TM8104-TM8126 apply to the *
* first business *
* *

D TM8104 1 88
Check Item T5 for business
Is "sole proprietorship" marked in
TM8018?
V 0 .Not applicable
V 1 .Yes - skip to TM8118
V 2 .No

D TM8106 2 89
Were any other members of this
household part owners of this
(business/practice)?
U Owners of businesses that are not sole
proprietorships
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM8116
V -1 .DK - skip to TM8116

*
* The next two fields (TM8108 and TM8110) *
* are person numbers in answer to the *
* question: *
* *
* Which other household members were *
* owners? *
* *

D TM8108 3 91
U Owners of businesses which are not
sole proprietorships and not part owned
by other household members
V 000 .Not applicable
V 101-999 .Person number

DATA SIZE BEGIN
D TM8110 3 94
U Owners of businesses which are not
sole proprietorships and not part owned
by other household members
V 000 .Not applicable
V 101-999 .Person number
D TM8112 1 97
Was this (business/practice) owned
entirely by members of this household?
U Owners of businesses which are not sole
proprietorships and not part owned by
other household members
V 0 .Not applicable
V 1 .Yes - skip to TM8116
V 2 .No

D TM8114 2 98
What percentage of this (business/
practice) was owned by members of
this household?
U Owners of businesses not owned entirely
by members of this household
V 00 .Not applicable
V 01-99 .Percent owned by household
V -1 .DK

D TM8116 2 100
What percentage of this (business/
practice) did... own in... 's own
name?
U Owners of businesses not owned entirely
by members of this household
V 00 .Not applicable
V 01-99 .Percent owned by ...
V -1 .DK

D TM8126 1 102
Check Item T7 for business
Is "sole proprietorship" marked in
TM8018?
Range = (0:2)
U Persons who owned and operated a
business
V 0 .Not applicable
V 1 .Yes - skip to TM8274
V 2 .No

* The next two fields are possible *
* answers to the question: *
* *
* What was ... 's net income from this *
* (business/practice) in 1990? *

D TM8204 2 103
Indication of loss
Range = (-4:-4,00:00)
U Persons who owned and operated a business
V 00 .Not applicable
V -4 .Lost money - enter loss in
V .TM8202 and skip to TM8208

D TM8208 1 105
Check Item T8 for business
Were any other household members
part owners of this business?
Range = (0:2)
U Persons who owned and operated a business
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8274

DATA SIZE BEGIN

D TM8210 2 106
 Apart from the net income already reported for ..., did (other household owners) receive any net income in 1990 from this (business/practice)?
 Range = (-1:02)

U Persons who owned and operated a business with other household members as part owners

V -1 .DK - skip to TM8274
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8274

 * The next six fields are possible *
 * answers for the person numbers indicated *
 * to the question: *
 * *
 * What was the amount of net income *
 * that was received by (other household *
 * owners)? *

D TM8212 3 108
 Person number of first co-owner of business
 Range = (000:999)

U Persons who owned and operated a business with other household members who received income from business

V 000 .Not applicable
 V 101-999 .Person number

D TM8216 2 111
 Indication of loss for business for first co-owner
 Range = (-4:-4,00:00)

U Persons who owned and operated a business with other household members who received income from business

V -4 .Lost money
 V 00 .Not applicable

D TM8218 3 113
 Person number of second co-owner of business
 Range = (000:000,101:999)

U Persons who owned and operated a business with second co-owner

V 000 .Not applicable
 V 101-999 .Person number

D TM8222 2 116
 Indication of loss for business for second co-owner
 Range = (-4:-4,00:00)

U Persons who owned and operated a business with second co-owner

V -4 .Lost money
 V 00 .Not applicable

D TM8274 1 118
 Check Item T9
 Is another business?
 Range = (0:2)

U Persons who owned and operated a business with other household owners

V 0 .Not applicable
 V 1 .Yes
 V 2 .No - Go to TM9330

DATA SIZE BEGIN

 * Fields TMIND2-TM8070, TM8154-TM8176, and *
 * TM8262-TM8272 apply to the second *
 * business *

D TMIND2 3 119
 Three digit industry code for business in TM8060-TM8070
 Range = (000:999)

U Persons who owned and operated a second business

V 000 .Not applicable

D TM8060 2 122
 Check Item T3 for business
 Transcribe ID number for this business from control card item 43
 Range = (-3:-3,00:09)

U Persons who owned and operated a second business

V -3 .Not listed on control card
 V 00 .Not applicable
 V 01-09 .ID number of business

D TM8062 1 124
 Check Item T4 for business
 Has information about this business already been obtained in an interview for another household member?
 Range = (0:2)

U Persons who owned and operated a second business

V 0 .Not universe
 V 1 .Yes
 V 2 .No - skip to TM8068

D TM8064 3 125
 Person number of other owner of business
 Range = (000:000,101:999)

U Persons who owned and operated a second business with other owner

V 000 .Not applicable
 V 101-999 .Person number

D TM8066 2 128
 ID number of business for other owner
 Range = (-3:-3,00:09)

U Persons who owned and operated a second business with other owner

V -3 .None - skip to TM8276
 V 00 .Not applicable
 V 01-09 .ID number of business - skip to TM8276

D TM8068 2 130
 What was the form of this (business/practice) - was it a sole proprietorship, a partnership, or a corporation?
 Range = (-1:03)

U Persons who owned and operated a second business

V -1 .DK
 V 00 .Not applicable
 V 01 .Sole proprietorship
 V 02 .Partnership
 V 03 .Corporation

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DATA SIZE BEGIN

D TM8070 1 132
 Was this business primarily
 located in ...'s own home or
 somewhere else?
 Range = (0:2)
 U Persons who owned and operated a second
 business
 V 0 .Not applicable
 V 1 .Own home
 V 2 .Somewhere else

D TM8154 1 133
 Check Item T5 for business
 Is "sole proprietorship" marked in
 TM8068?
 Range = (0:2)
 U Persons who owned and operated a second
 business
 V 0 .Not applicable
 V 1 .Yes - skip to TM8168
 V 2 .No

D TM8156 2 134
 Were any other members of this
 household part owners of this
 (business/practice)?
 Range = (-1:02)
 U Persons who owned and operated a second
 business that is not a sole proprietorship
 V -1 .DK - skip to TM8166
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8166

 * The next two fields (TM8158 and *
 * TM8160) are person numbers in answer *
 * to the question: *
 * *
 * Which other household members were *
 * owners? *

D TM8158 3 136
 Range = (000:000,101:999)
 U Persons who owned and operated a second
 business with other household members
 V 000 .Not applicable
 V 101-999 .Person number

D TM8160 3 139
 Range = (000:000,101:999)
 U Persons who owned and operated a second
 business with other household members
 V 000 .Not applicable
 V 101-999 .Person number

D TM8162 1 142
 Was this (business/practice) owned
 entirely by members of this household?
 Range = (0:2)
 U Persons who owned and operated a second
 business with other household members
 V 0 .Not applicable
 V 1 .Yes - skip to TM8166
 V 2 .No

D TM8164 2 143
 What percentage of this (business/
 practice) was owned by members of
 this household?
 Range = (-1:99)

DATA SIZE BEGIN

U Persons who owned and operated a second
 business not owned entirely by members
 of this household
 V -1 .DK
 V 00 .Not applicable
 V 01-99 .Percent owned by household

D TM8166 2 145
 What percentage of this (business/
 practice) did ... own in ...'s own
 name?
 Range = (-1:99)
 U Persons who owned and operated a second
 business not owned entirely by members
 of this household
 V -1 .DK
 V 00 .Not applicable
 V 01-99 .Percent owned by ...

D TM8176 1 147
 Check Item T7 for business one
 Is "sole proprietorship" marked in
 TM8018?
 Range = (0:2)
 U Persons who owned and operated a second
 business
 V 0 .Not applicable
 V 1 .Yes - skip to TM8276
 V 2 .No

 * The next two fields are possible *
 * answers to the question: *
 * *
 * What was ...'s net income from this *
 * (business/practice) in 1990? *

D TM8254 2 148
 Range = (-4:-4,00:00)
 U Persons who owned and operated a second
 business
 V 00 .Not applicable
 V -4 .Lost money - enter loss in
 V .TM8252 and skip to TM8258

D TM8258 1 150
 Check Item T8 for business
 Were any other household members
 part owners of this business?
 Range = (0:2)
 U Persons who owned and operated a second
 business
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8276

D TM8260 2 151
 Apart from the net income already
 reported for ..., did (other household
 owners) receive any net income in
 1990 from this (business/practice)?
 Range = (-1:-1,00:02)
 U Persons who owned and operated a second
 business with other household owners
 V -1 .DK - skip to TM8276
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8276

DATA SIZE BEGIN

 * The next six fields are possible *
 * answers for the person numbers indicated *
 * to the question: *
 * *
 * What was the amount of net income *
 * that was received by (other household *
 * members)? *

D TM8262 3 153
 Person number of first co-owner of
 business
 Range = (000:000,101:999)
 U Persons who owned and operated a second
 business with other household owners who
 received income from business
 V 000 .Not applicable
 V 101-999 .Person number

D TM8266 2 156
 Indication of loss for business
 for first co-owner
 Range = (-4:-4,00:00)
 U Persons who owned and operated a second
 business with other household owners who
 received income from business
 V -4 .Lost money
 V 00 .Not applicable

D TM8268 3 158
 Person number of second co-owner of
 business
 Range = (000:000,101:999)
 U Persons who owned and operated a second
 business with second co-owner
 V 000 .Not applicable
 V 101-999 .Person number

D TM8272 2 161
 Indication of loss for business
 for second co-owner
 Range = (-4:-4,00:00)
 U Persons who owned and operated a second
 business with second co-owner
 V -4 .Lost money
 V 00 .Not applicable

D TM8276 1 163
 Check Item T10
 Is the number of businesses marked
 in TM8006 three or more?
 Range = (0:2)
 U Persons who owned and operated a second
 business
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM8282

 * The next two fields are possible *
 * answers to the question: *
 * *
 * What was ...'s net income from ...'s *
 * other businesses in 1990? *

D TM8280 2 164
 Indication of loss
 Range = (-4:-4,00:00)
 U Persons who owned and operated more than
 two businesses
 V -4 .Lost money
 V 00 .Not applicable

DATA SIZE BEGIN

D TM9330 2 166
 Does ... have an individual retirement
 account - an IRA - in ...'s own name?
 U Persons 15 years of age or over
 V -1 .DK - skip to TM9358
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9358

D TM9332 2 168
 Did ... make any contributions to IRA
 accounts which applied to ...'s 1990
 tax return?
 U Persons with IRA in own name
 V -1 .DK - skip to TM9336
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9336

D TM9336 2 170
 Did ... make any withdrawals from
 ...'s IRA accounts during 1990?
 U Persons with IRA in own name
 V -1 .DK - skip to TM9340
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9340

D TM9342 1 172
 Certificates of deposit or other
 savings certificates
 Range = (0:1)
 U Persons with IRA in own name

D TM9344 1 173
 Money market funds
 Range = (0:1)
 U Persons with IRA in own name

D TM9346 1 174
 U.S. government securities
 Range = (0:1)
 U Persons with IRA in own name

D TM9348 1 175
 Municipal or corporate bonds
 Range = (0:1)
 U Persons with IRA in own name

D TM9350 1 176
 U.S. Savings Bonds
 Range = (0:1)
 U Persons with IRA in own name

D TM9352 1 177
 Stocks or mutual fund shares
 Range = (0:1)
 U Persons with IRA in own name

D TM9354 1 178
 Other assets
 Range = (0:1)
 U Persons with IRA in own name

D TM9356 1 179
 Don't know types of assets
 Range = (0:1)
 U Persons with IRA in own name
 V 0 .Not applicable
 V 1 .DK

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DATA SIZE BEGIN

D TM9358 2 180
 Does...have a KEOGH account in ...'s
 own name?
 Range = (-1:02)
 U Persons 15 years of age or over
 V -1 .DK - skip to TM9385
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9385

D TM9360 2 182
 Did ... make any contributions to a
 KEOGH account which applied to ...'s
 1990 tax return?
 Range = (-1:02)
 U Persons with KEOGH account in own name
 V -1 .DK - skip to TM9364
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9364

D TM9364 2 184
 Did...make any withdrawals from...'
 KEOGH accounts during 1990?
 Range = (-1:02)
 U Persons with KEOGH account in own name
 V -1 .DK - skip to TM9368
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9368

D TM9370 1 186
 Certificates of deposit or other
 savings certificates
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9372 1 187
 Money market funds
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9374 1 188
 U.S. government securities
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9376 1 189
 Municipal or corporate bonds
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9378 1 190
 U.S. savings bonds
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9380 1 191
 Stocks or mutual fund shares
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9382 1 192
 Other assets
 Range = (0:1)
 U Persons with KEOGH account in own name

D TM9384 1 193
 Don't know of other assets
 Range = (0:1)
 U Persons with KEOGH account in own name
 V 0 .Not applicable
 V 1 .DK

DATA SIZE BEGIN

D TM9385 1 194
 Are the names of any employers listed
 for ... on the control card?
 Range = (0:2)
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9390

D TM9386 2 195
 During 1990, did ... participate in a
 salary reduction plan, sometimes called
 a 401K plan?
 Range = (-1:02)
 U Persons with KEOGH plan in own name
 V -1 .DK - skip to TM9390
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9390

D TMEBCNT 3 197
 Number of items with data on
 this record
 Range = (001:999)
 U Persons 15 years of age or over

D EB-FILL 1 200

 * Part B - Property and Income Taxes *

D TM9390 1 201
 Check Item T26
 Has tax information for ... already
 been obtained in an interview for a
 spouse with whom ... filed a joint
 return?
 Range = (0:2)
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes - skip to TM9486
 V 2 .No

D TM9392 1 202
 Did ... file a federal income tax
 return for 1990?
 Range = (0:2)
 U Persons for whom tax information has
 not been obtained
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9486

D TM9394 1 203
 Do you have a copy of the tax form
 or a worksheet that you could refer
 to for the next few questions?
 Range = (0:2)
 U Persons who filed federal tax return
 for 1990
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM9396 2 204
 What was ...'s filing status on ...'s
 1990 federal tax return? Did ... file
 as -
 Range = (-1:06)
 U Persons who filed federal tax return
 for 1990
 V -1 .DK
 V 00 .Not applicable

DATA SIZE BEGIN

V 01 .A single taxpayer?

V 02 .Married, filing a joint return?

V 03 .Married, filing separately?

V 04 .Unmarried head of household?

V 05 .Qualifying widow(er) with
.dependent child?

V 06 .Don't know

D TM9398 2 206
What were the total number of exemptions
claimed on ...'s tax return?
Range = (-3:-3:-1:-1,00:04)

U Persons who filed federal tax return
for 1990

V -1 .DK

V -3 .None

V 00 .Not applicable

V 01 .1 exemption

V 02 .2 exemptions

V 03 .3-5 exemptions

V 04 .6 or more exemptions

D TM9414 1 208
Did ... claim exemptions for any
dependents that lived outside of
... 's home for the entire year?
Range = (0:2)

U Persons who filed federal tax return
for 1990 and claimed exemptions

V 0 .Not applicable

V 1 .Yes

V 2 .No - skip to TM9420

* The next two fields are possible *

* responses to the question: *

* *

* What was the relationship of this *

* (these) dependent(s) to ...? *

* In each case the range of answers is: *

* V 0 .Not applicable *

* V 1 .Parent *

* V 2 .Child *

* V 3 .Brother/sister *

* V 4 .Other *

D TM9416 1 209
First dependent
Range = (0:4)

U Persons who filed federal tax return
for 1990 and claimed exemptions for persons
who lived outside of household

D TM9418 1 210
Second dependent
Range = (0:4)

U Persons who filed federal tax return
for 1990 and claimed exemptions for persons
who lived outside of household

D TM9420 2 211
Did ... file Form 1040, the long form
or did ... file one of the short forms
1040A or 1040EZ?
Range = (-1:03)

U Persons who filed federal tax return
for 1990

V -1 .DK - skip to TM9428

V 00 .Not applicable

V 01 .Form 1040

V 02 .Form 1040A - skip to TM9428

V 03 .Form 1040EZ - skip to TM9428

DATA SIZE BEGIN

* The next three fields are possible *

* responses to the question: *

* *

* Is there any attached form on ...'s 1990 *

* tax return *

* *

* In each case the range of answers is: *

* *

* V -1 .DK *

* V 00 .Not applicable *

* V 01 .Yes *

* V 02 .No *

D TM9422 2 213
Schedule A - itemized deductions
Range = (-1:02)

U Persons who filed Form 1040

D TM9424 2 215
Schedule D - capital gains and
losses
Range = (-1:02)

U Persons who filed Form 1040

D TM9486 1 217
Check Item T35
Are ...'s living quarters -
Range = (0:3)

U Persons 15 year of age or over

V 0 .Not applicable

V 1 .Owned or being bought?

V 2 .Rented for cash? - skip to
.TM9610

V 3 .Occupied without cash payment?

V . - skip to TM9610

D TM9488 1 218
Check Item T36
Interview status of ...'s spouse
Range = (0:3)

U Persons with living quarters owned or
being bought

V 0 .Not applicable

V 1 .No spouse in household

V 2 .Interview for spouse not yet
.conducted

V 3 .Interview for spouse already
.conducted - skip to TM9610

D TM9490 1 219
Did ... pay any property taxes on ...'s
residence(s) in 1990?
Range = (0:2)

U Persons with living quarters owned or
being bought

V 0 .Not applicable

V 1 .Yes

V 2 .No - skip to TM9610

D TM9492 1 220
Did ... pay these jointly with some-
else living here?
Range = (0:2)

U Persons who paid property taxes in 1990

V 0 .Not applicable

V 1 .Yes

V 2 .No - skip to TM9498

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DATA SIZE BEGIN

 * The next two fields are possible *
 * responses to the question: *
 * *
 * Who made these joint payments with ...? *
 * *
 * Each case the range of answers is: *
 * V 000 .Not applicable *
 * V 101-999 .Person number *

D TM9494 3 221
 Person one
 Range = (000:000,101:999)
 U Persons who made joint payments on
 property taxes in 1990

D TM9496 3 224
 Person two
 Range = (000:000,101:999)
 U Persons who made joint payments on
 property taxes in 1990

D TM9498 2 227
 What was the property tax bill for
 ...'s residence(s) in 1990?
 Range = (-2:17)

U Persons who made joint payments on
 property taxes in 1990
 V -1 .DK
 V -2 .Refused
 V 00 .Not applicable
 V 01 .Amount < \$100
 V 02 .Amount from \$100 to \$199
 V 03 .Amount from \$200 to \$299
 V 04 .Amount from \$300 to \$399
 V 05 .Amount from \$400 to \$499
 V 06 .Amount from \$500 to \$599
 V 07 .Amount from \$600 to \$699
 V 08 .Amount from \$700 to \$799
 V 09 .Amount from \$800 to \$899
 V 10 .Amount from \$900 to \$999
 V 11 .Amount from \$1000 to \$1099
 V 12 .Amount from \$1100 to \$1199
 V 13 .Amount from \$1200 to \$1299
 V 14 .Amount from \$1300 to \$1499
 V 15 .Amount from \$1500 to \$1799
 V 16 .Amount from \$1800 to \$2099
 V 17 .Amount of \$2100 or more

D TMPICNT 2 229
 Number of items with data on
 this record
 Range = (01:99)

D PIT-FILL 2 231

 * Part C - Education and Training *

D TM9610 1 233
 Was ... enrolled in school anytime
 during the past year? (include any
 regular school, such as elementary,
 high school, or college, or any
 vocational, technical or business
 school.)
 Range = (0:2)

U All persons
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - End of interview

DATA SIZE BEGIN
 D TM9612 2 234
 At what level or grade was...
 enrolled(if enrolled at more than
 one level in the past year, check
 level in which greatest amount of
 time was spent.)
 Range = (00:12)

U All persons enrolled in school
 V 00 .Not applicable
 V 01 .Elementary grades 1-8
 V 02 .High school grades 9-12
 V 03 .College year 1
 V 04 .College year 2
 V 05 .College year 3
 V 06 .College year 4
 V 07 .College year 5
 V 08 .College year 6+
 V 09 .Vocational school
 V 10 .Technical school
 V 11 .Business school
 V 12 .Other or DK

D TM9614 1 236
 Check item T37
 Was ... enrolled in elementary school
 or high school?
 Range = (0:2)

U All persons enrolled in school
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9618

D TM9616 1 237
 Was ... enrolled in a public school?
 Range = (0:2)
 U Persons enrolled in elementary or high
 school
 V 0 .Not applicable
 V 1 .Yes - End of interview
 V 2 .No

D TM9618 5 238
 During the past year what was the
 total cost of ...'s tuition and fees?
 U Persons enrolled in other than
 public school
 V 1-04000 .Dollars in school costs
 V 04500 .Amount from \$4000 to \$4999
 V 05500 .Amount from \$5000 to \$5999
 V 07000 .Amount from \$6000 or more

D TM9620 4 243
 What was the total cost of ...'s
 books and supplies?
 Range = (-003:-003, -001:-001,
 0000:9999)

U Persons enrolled in other than
 public school
 V -003 .None
 V -001 .Don't know
 V 0000 .Not applicable
 V 0001-9999 .Dollars in school costs

D TM9622 1 247
 Did ... live away from home while
 attending school?
 Range = (0:2)

U Persons enrolled in other than
 public school
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9626

DATA SIZE BEGIN
 D TM9624 5 248
 What was the total cost for room and board while away at school?
 Range = (00000:99999)
 U Persons enrolled in other than public school and living away from home
 V 00000 .Not applicable
 V 1-99999 .Dollars in school costs

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

D TM9626 2 253
 Any type of educational assistance received
 Range = (-3:-3,00:00)
 U Persons enrolled in other than public school
 V -3 .None - End of interview
 V 00 .Not applicable

D TM9628 1 255
 The GI bill?
 Range = (0:1)
 U Persons enrolled in other than public school who received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9630 4 256
 Percent received from GI bill
 U Persons enrolled in other than public school who received educational assistance from the GI bill
 V 0000-0100 .Percent of total assistance

D TM9632 1 260
 Other veteran's educational assistance programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans assistance.)
 Range = (0:1)
 U Persons enrolled in other than public school who received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9634 5 261
 Percent received from veteran's programs
 U Persons enrolled in other than public school who received educational assistance from veteran's programs
 V 0-00100 .Percent of total assistance

DATA SIZE BEGIN
 D TM9636 1 266
 College work study program?
 Range = (0:1)
 U Persons enrolled in other than public school who received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9638 4 267
 Percent received from college work study program
 U Persons enrolled in other than public school who received educational assistance from college work study program
 V 0000-0100 .Percent of total assistance

D TM9640 1 271
 A Pell grant?
 Range = (0:1)
 U Persons enrolled in other than public school and received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9642 4 272
 Percent received from Pell grant
 U Persons enrolled in other than public school who received educational assistance from Pell grant
 V 0000-0100 .Percent of total assistance

D TM9644 1 276
 A Supplemental Educational Opportunity Grant(SEOG)
 Range = (0:1)
 U Persons enrolled in other than public school and received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9646 4 277
 Percent received from SEOG
 U Persons enrolled in other than public school who received educational assistance from SEOG
 V 0000-0100 .Percent of total assistance

D TM9648 1 281
 A national direct student loan?
 Range = (0:1)
 U Persons enrolled in other than public school who received educational assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9650 4 282
 Percent received from a national direct student loan
 U Persons enrolled in other than public school who received educational assistance from a national direct student loan
 V 0000-0100 .Percent of total assistance

SIPP 1990 TOPICAL MODULE WAVE 8 RESEARCH FILE

DATA SIZE BEGIN

D TM9652 1 286
 A guaranteed student loan
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9654 5 287
 Percent received from a guaranteed
 student loan
 U Persons enrolled in other than public
 school who received educational
 assistance from a guaranteed student loan
 V 0-00100 .Percent of total assistance

D TM9656 1 292
 A JTPA training program
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9658 4 293
 Percent received from JTPA
 U Persons enrolled in other than public
 school who received educational
 assistance from JTPA
 V 0000-0100 .Percent of total assistance

D TM9660 1 297
 Employer assistance
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9662 5 298
 Percent of employer assistance
 U Persons enrolled in other than public
 school who received educational
 assistance from employer
 V 0-00100 .Percent of total assistance

D TM9664 1 303
 A fellowship or scholarship?
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9666 5 304
 Percent of fellowship or scholarship
 U Persons enrolled in other than public
 school who received fellowship or
 scholarship
 V 0-00100 .Percent of total assistance

DATA SIZE BEGIN

D TM9668 1 309
 A tuition reduction?
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9670 4 310
 Percent received from tuition
 reduction
 U Persons enrolled in other than public
 school who received tuition
 reduction
 V 0000-0100 .Percent of total assistance

D TM9672 1 314
 Anything else (other than assistance
 from relatives and friends)?
 Range = (0:1)
 U Persons enrolled in other than public
 school who received educational
 assistance
 V 0 .Not marked as received
 V .or not applicable
 V 1 .Received

D TM9674 5 315
 Percent of educational assistance
 from other sources
 U Persons enrolled in other than public
 school who received educational
 assistance from other sources
 V 0-00100 .Percent of total assistance

D TMETCNT 2 320
 Number of items with data on
 this record
 V 01-99 .Number of items

 * Part C - Imputation Flags *

D TM-IFC1 1 322
 Part C imputation flag #01
 Imputation flag for field 'TM9612'
 V 0 .Not imputed
 V 1 .Imputed

D TM-IFC2 1 323
 Part C imputation flag #02
 Imputation flag for field 'TM9616'
 V 0 .Not imputed
 V 1 .Imputed

D TM-IFC3 1 324
 Part C imputation flag #03
 Imputation flag for field 'TM9618'
 V 0 .Not imputed
 V 1 .Imputed

D TM-IFC4 1 325
 Part C imputation flag #04
 Imputation flag for field 'TM9620'
 V 0 .Not imputed
 V 1 .Imputed

DATA DICTIONARY

DATA SIZE BEGIN

D TM-IFC5 1 326
 Part C imputation flag #05
 Imputation flag for field 'TM9622'
 V 0 .Not imputed
 V 1 .Imputed

D TM-IFC6 1 327
 Part C imputation flag #06
 Imputation flag for field 'TM9624'
 V 0 .Not imputed
 V 1 .Imputed

D TM-IFC7 1 328
 Part C imputation flag #07
 Imputation flag for field 'TM9630'
 V 0 .Not imputed
 V 1 .Imputed TM9630

D TM-IFC8 1 329
 Part C imputation flag #08
 Imputation flag for field 'TM9634'
 V 0 .Not imputed
 V 1 .Imputed TM9634

D TM-IFC9 1 330
 Part C imputation flag #09
 Imputation flag for field 'TM9638'
 V 0 .Not imputed
 V 1 .Imputed TM9638

D TM-IFC10 1 331
 Part C imputation flag #10
 Imputation flag for field 'TM9642'
 V 0 .Not imputed
 V 1 .Imputed TM9642

D TM-IFC11 1 332
 Part C imputation flag #11
 Imputation flag for field 'TM9646'
 V 0 .Not imputed
 V 1 .Imputed TM9646

D TM-IFC12 1 333
 Part C imputation flag #12
 Imputation flag for field 'TM9650'
 V 0 .Not imputed
 V 1 .Imputed TM9650

DATA SIZE BEGIN

D TM-IFC13 1 334
 Part C imputation flag #13
 Imputation flag for field 'TM9654'
 V 0 .Not imputed
 V 1 .Imputed TM9654

D TM-IFC14 1 335
 Part C imputation flag #14
 Imputation flag for field 'TM9658'
 V 0 .Not imputed
 V 1 .Imputed TM9658

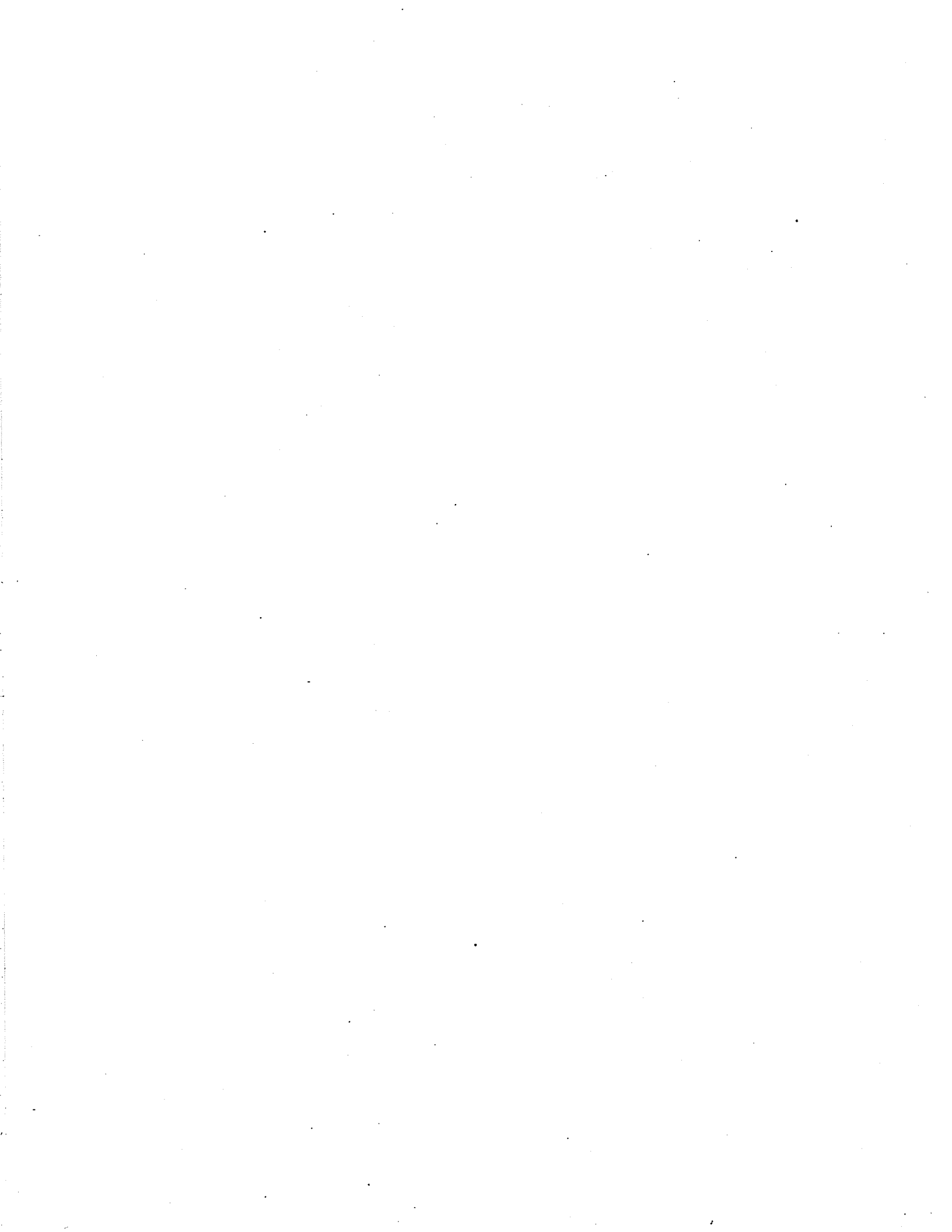
D TM-IFC15 1 336
 Part C imputation flag #15
 Imputation flag for field 'TM9662'
 V 0 .Not imputed
 V 1 .Imputed TM9662

D TM-IFC16 1 337
 Part C imputation flag #16
 Imputation flag for field 'TM9666'
 V 0 .Not imputed
 V 1 .Imputed TM9666

D TM-IFC17 1 338
 Part C imputation flag #17
 Imputation flag for field 'TM9670'
 V 0 .Not imputed
 V 1 .Imputed TM9670

D TM-IFC18 1 339
 Part C imputation flag #18
 Imputation flag for field 'TM9674'
 V 0 .Not imputed
 V 1 .Imputed TM9674

D TMTEDFIN 5 340
 Total amount of educational assistance
 during the past year.
 V 1-04000 .Amount of assistance
 V 04500 .Amount from \$4000 - \$4999
 V 05500 .Amount from \$5000 - \$5999
 V 07000 .Amount \$6000 or more



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

SOURCE OF DATA

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

The 1990 panel of the SIPP sample is located in 230 Primary Sampling Units (PSUs) each consisting of a county or a group of contiguous counties. Within these PSUs, expected clusters of 2 living quarters (LQs) were systematically selected from lists of addresses prepared for the 1980 decennial census to form the bulk of the sample. To account for LQs built within each of the sample areas after the 1980 census, a sample was drawn of permits issued for construction of residential LQs up until shortly before the beginning of the panel. In jurisdictions that do not issue building permits, small land areas were sampled and the LQs within were listed by field personnel and then clusters of 4 LQs were subsampled. In addition, sample LQs were selected from supplemental frames that included LQs identified as missed in the 1980 Census and persons residing in group quarters at the time of the Census.

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

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

Revised
May 1992

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) estimates 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 grouping 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

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

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

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

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:

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

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

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

where s_p is the standard error of \hat{p}_A , s_A is the standard error of \bar{x}_A and s_B is the standard error of \bar{x}_N . To calculate s_p , use formula 8. 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{p}_A , \bar{x}_N , and \bar{x}_A . Depending on the magnitude and sign of the correlations, the standard error will be over or underestimated.

Illustration.

Suppose that in January 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

$$s_x = \sqrt{\left(\frac{(0.098)(72121)}{78734}\right)^2 \left[\left(\frac{0.0025}{0.098}\right)^2 + \left(\frac{4678}{72121}\right)^2 + \left(\frac{2287}{78734}\right)^2\right]}$$

$$= 0.007$$

$$= 0.7\%$$

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, $A_1 = \$2,000$, $A_2 = \$2,500$, $N_1 = 22,106,000$, and $N_2 = 16,307,000$.

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

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

Also by examining table 14, we see that 50.6 falls in the same income interval. Thus, A_1 , A_2 , N_1 and N_2 are the same. We also use Pareto interpolation for this case. So the lower bound of a 68% confidence interval for the median is

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

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

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

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

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

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

SMD:DButler:sc:DBUT133

Table 1. 1990 Panel Topical Modules

<u>Wave</u>	<u>Topical Module</u>
1	None
2	Reciency 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 Reciency 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 3. Reference Months for Each Interview Month - 1990 Panel

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

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

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

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 Error¹	Size of Estimate	Standard Error
200	35	15,000	275
300	43	25,000	331
500	55	30,000	349
750	67	40,000	368
1,000	77	50,000	369
2,000	109	60,000	351
3,000	132	70,000	312
5,000	169	80,000	242
7,500	204	90,000	78
10,000	232		

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

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

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

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

Table 10. Standard Errors of Estimated Percentages of of Households Families or Unrelated Persons

Base of Estimated Percentage (Thousands)	Estimated Percentages ¹					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	1.73	2.43	3.79	5.20	7.50	8.70
300	1.41	1.99	3.09	4.26	6.20	7.10
500	1.09	1.54	2.40	3.30	4.76	5.50
750	0.89	1.26	1.96	2.69	3.89	4.49
1,000	0.77	1.09	1.69	2.33	3.37	3.89
2,000	0.55	0.77	1.20	1.65	2.38	2.75
3,000	0.45	0.63	0.98	1.35	1.94	2.24
5,000	0.35	0.49	0.76	1.04	1.51	1.74
7,500	0.28	0.40	0.62	0.85	1.23	1.42
10,000	0.24	0.34	0.54	0.74	1.06	1.23
15,000	0.20	0.28	0.44	0.60	0.87	1.00
25,000	0.15	0.22	0.34	0.47	0.67	0.78
30,000	0.14	0.20	0.31	0.43	0.61	0.71
40,000	0.12	0.17	0.27	0.37	0.53	0.61
50,000	0.11	0.15	0.24	0.33	0.48	0.55
60,000	0.10	0.14	0.22	0.30	0.43	0.50
80,000	0.09	0.12	0.19	0.26	0.38	0.43
90,000	0.08	0.11	0.18	0.25	0.35	0.41

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

Table 11. Standard Errors of Estimated Percentages of Persons

Base of Estimated Percentage (Thousands)	Estimated Percentages					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	2.97	4.17	6.50	9.00	12.90	14.90
300	2.42	3.41	5.31	7.30	10.50	12.20
600	1.71	2.41	3.75	5.20	7.50	8.60
1,000	1.33	1.87	2.91	4.00	5.80	6.70
2,000	0.94	1.32	2.06	2.83	4.08	4.71
5,000	0.59	0.83	1.30	1.79	2.58	2.98
8,000	0.47	0.66	1.03	1.41	2.04	2.36
11,000	0.40	0.56	0.88	1.21	1.74	2.01
13,000	0.37	0.52	0.81	1.11	1.60	1.85
17,000	0.32	0.45	0.70	0.97	1.40	1.62
22,000	0.28	0.40	0.62	0.85	1.23	1.42
26,000	0.26	0.37	0.57	0.78	1.13	1.31
30,000	0.24	0.34	0.53	0.73	1.05	1.22
50,000	0.19	0.26	0.41	0.57	0.82	0.94
80,000	0.15	0.21	0.32	0.45	0.65	0.75
100,000	0.13	0.19	0.29	0.40	0.58	0.67
130,000	0.12	0.16	0.25	0.35	0.51	0.58
220,000	0.09	0.13	0.20	0.27	0.39	0.45
230,000	0.09	0.12	0.19	0.26	0.38	0.44

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

Table 12. 1990 Topical Module Generalized Variance Parameters

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

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

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

Table 13. Distribution of Monthly Cash Income Among Persons 25 to 34 years old

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

Table 14.

Factors to be Applied to Base Parameters to Obtain Combined Panel Parameters for Estimates from Various Reference Periods.

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

¹ Estimates are based on monthly averages.

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

APPENDIX A-1

Income Source Code List

Code Income Sources

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

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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)

137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
N(156)	Teachers, elementary school (232)
P(157)	Teachers, secondary school (233)
158	Teachers, special education (235)
159	Teachers, n.e.c. (236, 239)
163	Counselors, educational and vocational (24)
	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
	Lawyers and Judges
178	Lawyers (211)
179	Judges (212)
	Writers, Artists, Entertainers, and Athletes
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189	Photographers (326)
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199	Athletes (34)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

Technicians and Related Support Occupations

Health Technologists and Technicians

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

Technologists and Technicians, Except Health

Engineering and Related Technologists and Technicians

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

Science Technicians

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

Technicians; Except Health, Engineering, and Science

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

Sales Occupations

- 243 Supervisors and proprietors, sales occupations (40)
- Sales Representatives, Finance and Business Services
 - 253 Insurance sales occupations (4122)
 - 254 Real estate sales occupations (4123)
 - 255 Securities and financial services sales occupations (4124)
 - 256 Advertising and related sales occupations (4153)
 - 257 Sales occupations, other business services (4152)
- Sales Representatives, Commodities Except Retail
 - 258 Sales engineers (421)
 - 259 Sales representatives, mining, manufacturing, and wholesale (423, 424)
- Sales Workers, Retail and Personal Services
 - 263 Sales workers, motor vehicles and boats (4342, 4344)
 - 264 Sales workers, apparel (4346)
 - 265 Sales workers, shoes (4351)
 - 266 Sales workers, furniture and home furnishings (4348)
 - 267 Sales workers; radio, TV, hi-fi, and appliances (4343, 4352)
 - 268 Sales workers, hardware and building supplies (4353)
 - 269 Sales workers, parts (4367)
 - 274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
 - 275 Sales counter clerks (4363)
 - Q(276) Cashiers (4364)
 - 277 Street and door-to-door sales workers (4366)

278	News vendors (4365)
	Sales Related Occupations
283	Demonstrators, promoters and models, sales (445)
284	Auctioneers (447)
285	Sales support occupations, n.e.c. (444, 446, 449)
	Administrative Support Occupations, Including Clerical
	Supervisors, Administrative Support Occupations
303	Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304	Supervisors, computer equipment operators (4512)
305	Supervisors, financial records processing (4521)
306	Chief communications operators (4523)
307	Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)
	Computer Equipment Operators
308	Computer operators (4612)
309	Peripheral equipment operators (4613)
	Secretaries, Stenographers, and Typists
R(313)	Secretaries (4622)
314	Stenographers (4623)
315	Typists (4624)
	Information Clerks
316	Interviewers (4642)
317	Hotel clerks (4643)
318	Transportation ticket and reservation agents (4644)
319	Receptionists (4645)
323	Information clerks, n.e.c. (4649)
	Records Processing Occupations, Except Financial
325	Classified-ad clerks (4662)
326	Correspondence clerks (4663)
327	Order clerks (4664)
328	Personnel clerks, except payroll and timekeeping (4692)
329	Library clerks (4694)
335	File clerks (4696)
336	Records clerks (4699)
	Financial Records Processing Occupations
S(337)	Bookkeepers, accounting, and auditing clerks (4712)
338	Payroll and timekeeping clerks (4713)
339	Billing clerks (4715)
343	Cost and rate clerks (4716)
344	Billing, posting, and calculating machine operators (4718)
	Duplicating, Mail and Other Office Machine Operators
345	Duplicating machine operators (4722)
346	Mail preparing and paper handling machine operators (4723)
347	Office machine operators, n.e.c. (4729)
	Communications Equipment Operators
348	Telephone operators (4732)
349	Telegraphers (4733)
353	Communications equipment operators, n.e.c. (4739)
	Mail and Message Distributing Occupations
354	Postal clerks, exc. mail carriers (4742)
355	Mail carriers, postal service (4743)
356	Mail clerks, exc. postal service (4744)
357	Messengers (4745)
	Material Recording, Scheduling, and Distributing Clerks
359	Dispatchers (4751)

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

SERVICE OCCUPATIONS

Private Household Occupations

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

Protective Service Occupations

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

Service Occupations, Except Protective and Household

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

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

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm Operators and Managers

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

Other Agricultural and Related Occupations

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

Forestry and Logging Occupations

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

Fishers, Hunters, and Trappers

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

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

Mechanics and Repairers

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

Construction Trades

Supervisors, construction occupations

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

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

SIPP FILES

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

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors

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

Printing Machine Operators

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

Textile, Apparel, and Furnishings Machine Operators

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

Machine Operators, Assorted Materials

- 753 Cementing and gluing machine operators (7661)
- 754 Packaging and filling machine operators (7462, 7662)
- 755 Extruding and forming machine operators (7463, 7663)
- 756 Mixing and blending machine operators (7664)
- 757 Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
- 758 Compressing and compacting machine operators (7467, 7667)
- 759 Painting and paint spraying machine operators (7669)
- 763 Roasting and baking machine operators, food (7472, 7672)
- 764 Washing, cleaning, and pickling machine operators (7673)
- 765 Folding machine operators (7474, 7674)
- 766 Furnace, kiln, and oven operators, exc. food (7675)
- 768 Crushing and grinding machine operators (pt 7477, pt 7677)
- 769 Slicing and cutting machine operators (7478, 7678)
- 773 Motion picture projectionists (pt 7479)
- 774 Photographic process machine operators (6863, 6868, 7671)
- 777 Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
- 779 Machine operators, not specified

Fabricators, Assemblers, and Hand Working Occupations

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

Production Inspectors, Testers, Samplers, and Weighers

- 796 Production inspectors, checkers, and examiners (782, 787)
- 797 Production testers (783)
- 798 Production samplers and weighers (784)
- 799 Graders and sorters, exc. agricultural (785)

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

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

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

Handlers, Equipment Cleaners, Helpers, and Laborers

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

APPENDIX A-5

1980 Census of Population Industry Classification System

(Alphabets parentheses are the 1972 SIC code equivalents 1)

Census Code

AGRICULTURE, FORESTRY, AND FISHERIES

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

MINING

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

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

MANUFACTURING

Nondurable Goods

Food and kindred products

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

Textile mill products

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

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

SIPP FILES

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

- Durable Goods**

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

- 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)

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- 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

8 ADDRESS (Sheet 1 of 2) - Line _____		8c Special place name _____		8d Type code _____		8e Sample number _____	
8a What is your exact address? House number, street, Apt. number, or other identification _____							
9 YEAR BUILT _____							
10 COVERAGE QUESTIONS <input type="checkbox"/> Ask fire value <input type="checkbox"/> Ask items needed <input type="checkbox"/> DO NOT ASK <input type="checkbox"/> DO NOT ASK							
11 Is this site your mailing address? <input type="checkbox"/> Yes <input type="checkbox"/> No - Specify below House number, P.O. Box, or other identification _____							
12 Is this site your mailing address? <input type="checkbox"/> Yes <input type="checkbox"/> No - Specify below House number, P.O. Box, or other identification _____							
13 CLASSIFICATION OF LIVING QUARTERS - Mark by observation							
13a FIELD REPRESENTATIVE CHECK ITEM Unit is: 1 <input type="checkbox"/> In a Special Place - Refer to Table A in Part C of manual and mark appropriate box in either 13c or 13d 2 <input type="checkbox"/> NOT in a Special Place							
13b ACCESS 1 <input type="checkbox"/> Direct - Go to item 13c 2 <input type="checkbox"/> Through another unit - Not a separate HU; combine with unit through which access is gained. Apply merged unit procedures if appropriate.							
13c HOUSING UNIT 1 <input type="checkbox"/> House, apartment, flat 2 <input type="checkbox"/> HI, in non-servant hotel, motel, etc. 3 <input type="checkbox"/> HI, permanent in transient hotel, motel, etc. 4 <input type="checkbox"/> HI, in rooming house 5 <input type="checkbox"/> Mobile home or trailer with NO permanent room added 6 <input type="checkbox"/> Mobile home or trailer with one or more permanent rooms added 7 <input type="checkbox"/> HU not specified above - Describe in notes							
13d OTHER UNIT ASK IF NOT APPLICABLE - Have many housing units both occupied and vacant, are there in this structure? 1 <input type="checkbox"/> Only OTHER units 2 <input type="checkbox"/> Mobile home or trailer 3 <input type="checkbox"/> One, detached 4 <input type="checkbox"/> One, attached 5 <input type="checkbox"/> Two 6 <input type="checkbox"/> 50 or more							
14 UNITS IN STRUCTURE 14a ASK IF NOT APPLICABLE - Have many housing units both occupied and vacant, are there in this structure? 1 <input type="checkbox"/> Only OTHER units 2 <input type="checkbox"/> Mobile home or trailer 3 <input type="checkbox"/> One, detached 4 <input type="checkbox"/> One, attached 5 <input type="checkbox"/> Two 6 <input type="checkbox"/> 50 or more							
15 TENURE Are you year being quarters - 1 <input type="checkbox"/> Owned or being bought by you or someone in your household? 2 <input type="checkbox"/> Rented for cash? 3 <input type="checkbox"/> Occupied without payment of cash rent?							
16 CHARACTERISTICS OF UNIT - UPDATE/VERIFY EACH WAVE ASK ONLY IF UNITS BEGUN/CHANGED ON item 15a on page 2, or 21b if first interview at mover's new address 16a Is this residence in a public housing project, tent, or is it owned by a local housing authority? 1 <input type="checkbox"/> Yes - Go to item 19a, page 2 OR 21b if first interview at mover's new address 2 <input type="checkbox"/> No X1 <input type="checkbox"/> DK							
17 APPLICANCE TIME AND DATE MA - No appliance R - Rent G - Gas H - Heat I - Ice J - Janitor K - Kitchen L - Linen M - Microwave N - No. of persons O - Other P - Phone Q - Refrigerator S - Sewer T - Television U - Utility V - Vacuum W - Washing machine X - X-ray Y - Yard Z - Zip AA - Air conditioning AB - Air purifier AC - Air conditioner AD - Air dehumidifier AE - Air dryer AF - Air filter AG - Air heater AH - Air heater AI - Air heater AJ - Air heater AK - Air heater AL - Air heater AM - Air heater AN - Air heater AO - Air heater AP - Air heater AQ - Air heater AR - Air heater AS - Air heater AT - Air heater AU - Air heater AV - Air heater AW - Air heater AX - Air heater AY - Air heater AZ - Air heater BA - Air heater BB - Air heater BC - Air heater BD - Air heater BE - Air heater BF - Air heater BG - Air heater BH - Air heater BI - Air heater BJ - Air heater BK - Air heater BL - Air heater BM - Air heater BN - Air heater BO - Air heater BP - Air heater BQ - Air heater BR - Air heater BS - Air heater BT - Air heater BU - Air heater BV - Air heater BW - Air heater BX - Air heater BY - Air heater BZ - Air heater CA - Air heater CB - Air heater CC - Air heater CD - Air heater CE - Air heater CF - Air heater CG - Air heater CH - Air heater CI - Air heater CJ - Air heater CK - Air heater CL - Air heater CM - Air heater CN - Air heater CO - Air heater CP - Air heater CQ - Air heater CR - Air heater CS - Air heater CT - Air heater CU - Air heater CV - Air heater CW - Air heater CX - Air heater CY - Air heater CZ - Air heater DA - Air heater DB - Air heater DC - Air heater DD - Air heater DE - Air heater DF - Air heater DG - Air heater DH - Air heater DI - Air heater DJ - Air heater DK - Air heater DL - Air heater DM - Air heater DN - Air heater DO - Air heater DP - Air heater DQ - Air heater DR - Air heater DS - Air heater DT - Air heater DU - Air heater DV - Air heater DW - Air heater DX - Air heater DY - Air heater DZ - Air heater EA - Air heater EB - Air heater EC - Air heater ED - Air heater EE - Air heater EF - Air heater EG - Air heater EH - Air heater EI - Air heater EJ - Air heater EK - Air heater EL - Air heater EM - Air heater EN - Air heater EO - Air heater EP - Air heater EQ - Air heater ER - Air heater ES - Air heater ET - Air heater EU - Air heater EV - Air heater EW - Air heater EX - Air heater EY - Air heater EZ - Air heater FA - Air heater FB - Air heater FC - Air heater FD - Air heater FE - Air heater FF - Air heater FG - Air heater FH - Air heater FI - Air heater FJ - Air heater FK - Air heater FL - Air heater FM - Air heater FN - Air heater FO - Air heater FP - Air heater FQ - Air heater FR - Air heater FS - Air heater FT - Air heater FU - Air heater FV - Air heater FW - Air heater FX - Air heater FY - Air heater FZ - Air heater GA - Air heater GB - Air heater GC - Air heater GD - Air heater GE - Air heater GF - Air heater GG - Air heater GH - Air heater GI - Air heater GJ - Air heater GK - Air heater GL - Air heater GM - Air heater GN - Air heater GO - Air heater GP - Air heater GQ - Air heater GR - Air heater GS - Air heater GT - Air heater GU - Air heater GV - Air heater GW - Air heater GX - Air heater GY - Air heater GZ - Air heater HA - Air heater HB - Air heater HC - Air heater HD - Air heater HE - Air heater HF - Air heater HG - Air heater HH - Air heater HI - Air heater HJ - Air heater HK - Air heater HL - Air heater HM - Air heater HN - Air heater HO - Air heater HP - Air heater HQ - Air heater HR - Air heater HS - Air heater HT - Air heater HU - Air heater HV - Air heater HW - Air heater HX - Air heater HY - Air heater HZ - Air heater IA - Air heater IB - Air heater IC - Air heater ID - Air heater IE - Air heater IF - Air heater IG - Air heater IH - Air heater II - Air heater IJ - Air heater IK - Air heater IL - Air heater IM - Air heater IN - Air heater IO - Air heater IP - Air heater IQ - Air heater IR - Air heater IS - Air heater IT - Air heater IU - Air heater IV - Air heater IW - Air heater IX - Air heater IY - Air heater IZ - Air heater JA - Air heater JB - Air heater JC - Air heater JD - Air heater JE - Air heater JF - Air heater JG - Air heater JH - Air heater JI - Air heater JJ - Air heater JK - Air heater JL - Air heater JM - Air heater JN - Air heater JO - Air heater JP - Air heater JQ - Air heater JR - Air heater JS - Air heater JT - Air heater JU - Air heater JV - Air heater JW - Air heater JX - Air heater JY - Air heater JZ - Air heater KA - Air heater KB - Air heater KC - Air heater KD - Air heater KE - Air heater KF - Air heater KG - Air heater KH - Air heater KI - Air heater KJ - Air heater KL - Air heater KM - Air heater KN - Air heater KO - Air heater KP - Air heater KQ - Air heater KR - Air heater KS - Air heater KT - Air heater KU - Air heater KV - Air heater KW - Air heater KX - Air heater KY - Air heater KZ - Air heater LA - Air heater LB - Air heater LC - Air heater LD - Air heater LE - Air heater LF - Air heater LG - Air heater LH - Air heater LI - Air heater LJ - Air heater LK - Air heater LL - Air heater LM - Air heater LN - Air heater LO - Air heater LP - Air heater LQ - Air heater LR - Air heater LS - Air heater LT - Air heater LU - Air heater LV - Air heater LW - Air heater LX - Air heater LY - Air heater LZ - Air heater MA - Air heater MB - Air heater MC - Air heater MD - Air heater ME - Air heater MF - Air heater MG - Air heater MH - Air heater MI - Air heater MJ - Air heater MK - Air heater ML - Air heater MM - Air heater MN - Air heater MO - Air heater MP - Air heater MQ - Air heater MR - Air heater MS - Air heater MT - Air heater MU - Air heater MV - Air heater MW - Air heater MX - Air heater MY - Air heater MZ - Air heater NA - Air heater NB - Air heater NC - Air heater ND - Air heater NE - Air heater NF - Air heater NG - Air heater NH - Air heater NI - Air heater NJ - Air heater NK - Air heater NL - Air heater NM - Air heater NN - Air heater NO - Air heater NP - Air heater NQ - Air heater NR - Air heater NS - Air heater NT - Air heater NU - Air heater NV - Air heater NW - Air heater NX - Air heater NY - Air heater NZ - Air heater OA - Air heater OB - Air heater OC - Air heater OD - Air heater OE - Air heater OF - Air heater OG - Air heater OH - Air heater OI - Air heater OJ - Air heater OK - Air heater OL - Air heater OM - Air heater ON - Air heater OO - Air heater OP - Air heater OQ - Air heater OR - Air heater OS - Air heater OT - Air heater OU - Air heater OV - Air heater OW - Air heater OX - Air heater OY - Air heater OZ - Air heater PA - Air heater PB - Air heater PC - Air heater PD - Air heater PE - Air heater PF - Air heater PG - Air heater PH - Air heater PI - Air heater PJ - Air heater PK - Air heater PL - Air heater PM - Air heater PN - Air heater PO - Air heater PP - Air heater PQ - Air heater PR - Air heater PS - Air heater PT - Air heater PU - Air heater PV - Air heater PW - Air heater PX - Air heater PY - Air heater PZ - Air heater QA - Air heater QB - Air heater QC - Air heater QD - Air heater QE - Air heater QF - Air heater QG - Air heater QH - Air heater QI - Air heater QJ - Air heater QK - Air heater QL - Air heater QM - Air heater QN - Air heater QO - Air heater QP - Air heater QQ - Air heater QR - Air heater QS - Air heater QT - Air heater QU - Air heater QV - Air heater QW - Air heater QX - Air heater QY - Air heater QZ - Air heater RA - Air heater RB - Air heater RC - Air heater RD - Air heater RE - Air heater RF - Air heater RG - Air heater RH - Air heater RI - Air heater RJ - Air heater RK - Air heater RL - Air heater RM - Air heater RN - Air heater RO - Air heater RP - Air heater RQ - Air heater RR - Air heater RS - Air heater RT - Air heater RU - Air heater RV - Air heater RW - Air heater RX - Air heater RY - Air heater RZ - Air heater SA - Air heater SB - Air heater SC - Air heater SD - Air heater SE - Air heater SF - Air heater SG - Air heater SH - Air heater SI - Air heater SJ - Air heater SK - Air heater SL - Air heater SM - Air heater SN - Air heater SO - Air heater SP - Air heater SQ - Air heater SR - Air heater SS - Air heater ST - Air heater SU - Air heater SV - Air heater SW - Air heater SX - Air heater SY - Air heater SZ - Air heater TA - Air heater TB - Air heater TC - Air heater TD - Air heater TE - Air heater TF - Air heater TG - Air heater TH - Air heater TI - Air heater TJ - Air heater TK - Air heater TL - Air heater TM - Air heater TN - Air heater TO - Air heater TP - Air heater TQ - Air heater TR - Air heater TS - Air heater TT - Air heater TU - Air heater TV - Air heater TW - Air heater TX - Air heater TY - Air heater TZ - Air heater UA - Air heater UB - Air heater UC - Air heater UD - Air heater UE - Air heater UF - Air heater UG - Air heater UH - Air heater UI - Air heater UJ - Air heater UK - Air heater UL - Air heater UM - Air heater UN - Air heater UO - Air heater UP - Air heater UQ - Air heater UR - Air heater US - Air heater UT - Air heater UU - Air heater UV - Air heater UW - Air heater UX - Air heater UY - Air heater UZ - Air heater VA - Air heater VB - Air heater VC - Air heater VD - Air heater VE - Air heater VF - Air heater VG - Air heater VH - Air heater VI - Air heater VJ - Air heater VK - Air heater VL - Air heater VM - Air heater VN - Air heater VO - Air heater VP - Air heater VQ - Air heater VR - Air heater VS - Air heater VT - Air heater VU - Air heater VV - Air heater VW - Air heater VX - Air heater VY - Air heater VZ - Air heater WA - Air heater WB - Air heater WC - Air heater WD - Air heater WE - Air heater WF - Air heater WG - Air heater WH - Air heater WI - Air heater WJ - Air heater WK - Air heater WL - Air heater WM - Air heater WN - Air heater WO - Air heater WP - Air heater WQ - Air heater WR - Air heater WS - Air heater WT - Air heater WU - Air heater WV - Air heater WW - Air heater WX - Air heater WY - Air heater WZ - Air heater XA - Air heater XB - Air heater XC - Air heater XD - Air heater XE - Air heater XF - Air heater XG - Air heater XH - Air heater XI - Air heater XJ - Air heater XK - Air heater XL - Air heater XM - Air heater XN - Air heater XO - Air heater XP - Air heater XQ - Air heater XR - Air heater XS - Air heater XT - Air heater XU - Air heater XV - Air heater XW - Air heater XX - Air heater XY - Air heater XZ - Air heater YA - Air heater YB - Air heater YC - Air heater YD - Air heater YE - Air heater YF - Air heater YG - Air heater YH - Air heater YI - Air heater YJ - Air heater YK - Air heater YL - Air heater YM - Air heater YN - Air heater YO - Air heater YP - Air heater YQ - Air heater YR - Air heater YS - Air heater YT - Air heater YU - Air heater YV - Air heater YW - Air heater YX - Air heater YY - Air heater YZ - Air heater ZA - Air heater ZB - Air heater ZC - Air heater ZD - Air heater ZE - Air heater ZF - Air heater ZG - Air heater ZH - Air heater ZI - Air heater ZJ - Air heater ZK - Air heater ZL - Air heater ZM - Air heater ZN - Air heater ZO - Air heater ZP - Air heater ZQ - Air heater ZR - Air heater ZS - Air heater ZT - Air heater ZU - Air heater ZV - Air heater ZW - Air heater ZX - Air heater ZY - Air heater ZZ - Air heater							

17 ENTRY ADDRESS I.D. **18** PERSON NUMBER

19a HOUSEHOLD ROSTER
FIRST INTERVIEW AT WAVE / ADDRESS -
What are the names of all persons living or staying here? Start with the name of the person or one of the persons who lives here. Do not include children under 18 and maiden names. Leave one blank space between each part of name.
FIRST INTERVIEW AT MOVER'S NEW ADDRESS for mover's new address -
Fill items 17--19b before the interview.
Last, First, Middle, Maiden

20 HOUSEHOLD MEMBER
Does... live here?
1-Yes
2-No
Probe for partner, lodger, lodger's wife for life

21 HOUSEHOLD ROSTER COVERAGE
WAVE 1 INTERVIEW
21a Have listed (Read names from item 19a). Have I missed - If "Yes," go to any of the following, ask name and complete items 17--20 above.
- Any babies or small children?
- Any lodgers, boarders, or persons you employ who live here?
- Anyone who usually lives here but is away now-traveling, at school, or in a hospital?
- Anyone else staying here?
FIRST INTERVIEW AT MOVER'S NEW ADDRESS
21b Have listed (Read names from item 19a), do new persons at this... live here with you?
If NO, ask - Which persons did not move here?

22 HOUSEHOLD ROSTER COVERAGE - WAVE 1 INTERVIEW
22a If there anyone else living or staying here now? If YES, ask name and complete items 17--19a, then ask: When did it begin living here?
22b Do all persons in this household live together?
22c Which of these persons (from item 21b) is the person or group of persons not living or staying with IP?

23 DATE ENTERED OR LEFT
Complete if instructed by item 21, enter code and date
See codes on page 4

24 BIRTH DATE/AGE
a. What is... date of birth?
Example: 01-20-1924
12-01-1924
Verify age using Flashcard G
b... in year (Read age) years old, is that correct?

25 PERSON NUMBER OF PARENT
Refer to item 18 and 19. Enter none if none entered "999"

26 MARITAL STATUS
1-Married
2-Separated
3-Divorced
4-Annulled
5-Never married?

27 RESIDENT GUARDIAN
FI for "never married" parent under 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99

28 SEX
1-Male
2-Female?

29 RACE
What is the race of each person in this household?
1-White
2-Black
3-Other

30 ORIGIN
SHOW SHOW CARD / I
What is the origin of each person in this household?
1-White
2-Black
3-Other

31 SOCIAL SECURITY
31a What is... Social Security for... (Read statement number)?
31b If don't know ask: M call back, would... be able to provide this information?
31c If "Yes," mark Reminder Card.

31 EDUCATION
31a What is... grade or level of highest school... completed?
00 - Never attended or less than high school
01-08 - High school
09-12 - College (Academic)
13-16 - College (Professional)
17-20 - Postgraduate
21-23 - Other
24-25 - Unknown
26-27 - Other
28-29 - Other
30-31 - Other
32-33 - Other
34-35 - Other
36-37 - Other
38-39 - Other
40-41 - Other
42-43 - Other
44-45 - Other
46-47 - Other
48-49 - Other
50-51 - Other
52-53 - Other
54-55 - Other
56-57 - Other
58-59 - Other
60-61 - Other
62-63 - Other
64-65 - Other
66-67 - Other
68-69 - Other
70-71 - Other
72-73 - Other
74-75 - Other
76-77 - Other
78-79 - Other
80-81 - Other
82-83 - Other
84-85 - Other
86-87 - Other
88-89 - Other
90-91 - Other
92-93 - Other
94-95 - Other
96-97 - Other
98-99 - Other

32 ARMED FORCES
32a In... Armed Forces?
32b In... Armed Forces?
32c In... Armed Forces?

33 SOCIAL SECURITY
33a What is... Social Security for... (Read statement number)?
33b If don't know ask: M call back, would... be able to provide this information?
33c If "Yes," mark Reminder Card.

34 FIELD REPRESENTATIVE
34a Does any other household on the property live OR not with this household?
34b Does anyone else living or staying here now? If YES, ask name and complete items 17--19a, then ask: When did it begin living here?
34c Do all persons in this household live together?
34d Which of these persons (from item 21b) is the person or group of persons not living or staying with IP?

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 16 or older.

P G O L 1	C 40 Person number		41 Name		W1		W2		W3		W4		W5		W6		W7		W8						
	Person number	Respondent person number	Name	Respondent person number	W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8					
Emp. I.D.	42 NAME OF EMPLOYER				W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8					
1					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
2					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
3					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
4					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
Bus. I.D.	43 NAME OF BUSINESS/FARM				W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8					
1					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
2					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
3					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
INTERVIEW STATUS																									
Line No.	44 PERSON INTERVIEW STATUS	W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8
0	Ineligible for interview (code 993)	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1	Noninterview - No interview obtained (code 991)	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
2	Interview - No ISS codes marked (code 992)	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
INCOME																									
Line No.	45 INCOME SOURCES (1-66)	W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8	W1	W2	W3	W4	W5	W6	W7	W8
3		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
4		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
5		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
6		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
7		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
8		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
9		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
10	46 ASSETS (100-180)	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
11		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
12		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
13		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
14		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
15		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
16		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
17	47 SPECIAL INDICATORS	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
18		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
19		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8

3.38 MOVERS		3.39 MERGED HOUSEHOLD MATCH TABLE	
Person number(s)	Enter HH moved <input type="checkbox"/> - If box is marked RM 34b	OFFICE USE ONLY	FORM 4, Cont'd
1	New address - Number and street City State ZIP Code	0088	3.41b If entire household moves, try to determine: is the address within the limits of a city, town, or village? <input type="checkbox"/> Yes - What is the name? <input type="checkbox"/> No - Not within the limits of a city, town, or village
2	Other identification Person number(s) New address - Number and street City State ZIP Code	0088	
3	Other identification Person number(s) New address - Number and street City State ZIP Code	0088	
4	Other identification Person number(s) New address - Number and street City State ZIP Code	0088	
5	Other identification Person number(s) New address - Number and street City State ZIP Code	0088	
3.39	FUTURE CONTACTS (Continued) - Read Flashed T and RM 39c. Verify and update for Waves 2-6.	3.39	FUTURE CONTACTS (Continued) - Read Flashed T and RM 39c. Verify and update for Waves 2-6.
3.39c	Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.	3.39c	Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.
Name	Relationship to person no. _____	Name	Relationship to person no. _____
Address (No., St., Apt. No., City, State, ZIP Code)	Telephone number (include area code)	Address (No., St., Apt. No., City, State, ZIP Code)	Telephone number (include area code)

PREVIOUS IDENTIFICATION

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

LEFT CODES FOR 23

Entered - This Wave

- 01 - Birth
- 02 - Marriage
- 03 - Other
- 04 - (Use only with item 21d)
- 13 - Re-entered sample after missing one or more waves
- 16 - From institution
- 17 - From Armed Forces barracks
- 18 - From outside the country
- 19 - Due to separation or divorce
- Entered - Should have been added in a previous wave
- 21 - Birth
- 22 - Marriage
- 23 - Other
- 24 - Sample person added during second interview period
- 36 - From institution
- 37 - From Armed Forces barracks
- 38 - From outside the country
- 39 - Due to separation or divorce

ENTERED CODES FOR 23

Left - This Wave

- 06 - Deceased
- 06 - Institutionalized
- 07 - Living in Armed Forces barracks
- 08 - Moved outside of country
- 09 - Separation or divorce
- 10 - Person number 201 + no longer living with sample person
- 11 - Other
- 12 - Use this code if instructed by your office
- 99 - Listed in error
- Left - Should have been deleted in a previous wave
- 25 - Deceased
- 26 - Institutionalized
- 27 - Living in Armed Forces barracks
- 28 - Moved outside of country
- 29 - Separation or divorce
- 30 - 201 + person no longer living with sample person
- 31 - Other

CODES FOR 19b

- 01 - Reference Person WITH relatives in household
- 02 - Reference Person with NO relatives in household
- 03 - Husband/Wife
- 04 - Natural/adopted child
- 06 - Stepchild
- 08 - Foster child
- 07 - Grandchild
- 08 - Parent
- 09 - Brother/Sister
- 10 - Other relative of Reference Person
- 11 - Non-relative of OVN relatives in household
- 12 - Partner/partners
- 13 - Non-relative of Reference Person (other than partner/partners) with NO OVN relatives in household

CODES FOR 30

- 01 - German
- 02 - English
- 03 - Irish
- 04 - French
- 05 - Italian
- 06 - Spanish
- 07 - Polish
- 08 - Dutch
- 09 - Swedish
- 10 - Norwegian
- 11 - Russian
- 12 - Ukrainian
- 13 - Welsh
- 14 - Mexican-American
- 15 - Chicano
- 16 - Mexican
- 17 - Puerto Rican
- 18 - Cuban
- 19 - Central or South American (Spanish)
- 20 - Other Spanish
- 21 - Afro-Amer. (Black or Negro)
- 30 - Another group not listed
- 39 - Don't know

CODES FOR 29

- 1 - White
- 2 - Black
- 3 - American Indian, Eskimo or Aleut
- 4 - Asian or Pacific Islander
- 8 - Other - Specify below

Person No. _____ Specify race _____

3.39c

Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name _____ Relationship to person no. _____

Address (No., St., Apt. No., City, State, ZIP Code) _____ Telephone number (include area code) _____

3.39

FUTURE CONTACTS (Continued) - Read Flashed T and RM 39c. Verify and update for Waves 2-6.

Name _____ Relationship to person no. _____

Address (No., St., Apt. No., City, State, ZIP Code) _____ Telephone number (include area code) _____

3.39c

Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name _____ Relationship to person no. _____

Address (No., St., Apt. No., City, State, ZIP Code) _____ Telephone number (include area code) _____

FORM **SIPP-10800**
(11-6-92)
U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

**SURVEY OF INCOME
AND PROGRAM
PARTICIPATION
1990 PANEL
WAVE 8 QUESTIONNAIRE**

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

PGM 6	1. Book _____ of _____	2. (cc 1) R.O. code ____	3a. (cc 2) PSU Segment Serial Sample _____	Check digit 10	b. (cc 3) Add. ID ____
	4. (cc 17) a. Entry Add. ID ____	c. Name (cc 19a) First _____ Middle initial _____			
5. PERSON CHARACTERISTICS — Fill a, b, c, and d using the control card					
a. Relationship code (cc 19b) ____		b. Date of birth (cc 24) Month Day Year ____		c. Sex code (cc 28) ____	d. Marital status code (cc 26a) ____
6. Field representative identification					
Code Name ____					

7. PERSON INTERVIEW STATUS

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

b. Noninterview
1 Type Z refusal 2 Type Z other

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

PGM 7
0900 1 Yes
2 No — SKIP to section 1, item 1, page 2

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

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

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

9a. Interview time for this person

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

b. Total interview time for this person _____ Minutes

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

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

ASK OR VERIFY —

b. Which kind of place?

0916 1 Armed Forces barracks 3 Nonhousehold setting
2 Outside the United States

10a. Field representative edit time

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

b. Total edit time _____ Minutes

NOTES

11a. Pre-interview transcription time

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

b. Total pre-interview time for transcription _____ Minutes

12. 1 Phone interview 2 Personal interview

INTRODUCTION

FIELD REPRESENTATIVE INSTRUCTIONS — Read introduction once to each respondent.

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

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

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

REMINDER — Fill at the end of interview.

Respondent used flashcards?
 Yes
 No

Section 5 – TOPICAL MODULES

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS

STATEMENT C

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

CHECK ITEM T1	Are the names of any businesses listed for ... on the control card? (cc item 43)	8000	<input type="checkbox"/> Yes – SKIP to 1b <input type="checkbox"/> No
CHECK ITEM T2	Was an interview obtained for ... for each of the 4th, 5th, 6th, and 7th waves (cc items 44, 45, 46, and 47)?	8002	<input type="checkbox"/> Yes – SKIP to Statement D, page 57 <input type="checkbox"/> No
1 a.	Did ... own and operate a business at any time during calendar year 1991? <i>Include farms.</i>	8004	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to Statement D, page 57
	ASK OR VERIFY –		
b.	How many different businesses did ... own and operate during calendar year 1991?	8006	<input type="text"/> <input type="text"/> Businesses OR x3 <input type="checkbox"/> None – SKIP to Statement D, page 57
	ASK OR VERIFY –		
c.	What were the names of the businesses that ... owned and operated during calendar year 1991? (List up to 2 businesses; list according to net income from business beginning with the business providing the largest net income.)	8008	Business name _____ _____ _____
CHECK ITEM T3	Transcribe ID number for this business from the control card (cc item 43). <i>(Fill items T3–T9 for the first business listed; then fill items T3–T9 if a second business is listed.)</i>	PGM7 8010	<input type="checkbox"/> Business ID No. OR x3 <input type="checkbox"/> Not listed on control card
CHECK ITEM T4	Has information about this business already been obtained in an interview for another household member?	8012	<input type="checkbox"/> Yes <input type="checkbox"/> No – SKIP to 2a
FIELD REPRESENTATIVE INSTRUCTION:	Enter name, person number, and business ID number of the other owner who previously reported the business to indicate the location of the information about this business.	8014	Name _____ Person number <input type="text"/> <input type="text"/> <input type="text"/> Business ID number <input type="checkbox"/> OR x3 <input type="checkbox"/> Not listed on control card
2 a.	What was the form of this (business/practice) – was it a sole proprietorship, a partnership, or a corporation?	8018	<input type="checkbox"/> Sole proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation x1 <input type="checkbox"/> DK
b.	Was this business primarily located in ...'s own home or somewhere else?	8020	<input type="checkbox"/> Own home <input type="checkbox"/> Somewhere else

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

CHECK ITEM 5	Is "sole proprietorship" marked in item 2a?	8104 1 <input type="checkbox"/> Yes – SKIP to 2h 2 <input type="checkbox"/> No	8154 1 <input type="checkbox"/> Yes – SKIP to 2h 2 <input type="checkbox"/> No
2c.	Were any other members of this household part owners of this (business/practice)?	8106 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK } SKIP to 2g	8156 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK } SKIP to 2g
d.	Which other household members were owners?	8108 Person No. <input type="text"/> Name <input type="text"/>	8158 Person No. <input type="text"/> Name <input type="text"/>
		8110 Person No. <input type="text"/> Name <input type="text"/>	8160 Person No. <input type="text"/> Name <input type="text"/>
e.	Was this (business/practice) owned entirely by members of this household?	8112 1 <input type="checkbox"/> Yes – SKIP to 2g 2 <input type="checkbox"/> No	8162 1 <input type="checkbox"/> Yes – SKIP to 2g 2 <input type="checkbox"/> No
f.	What percentage of this (business/practice) was owned by members of this household?	8114 <input type="text"/> <input type="text"/> Percent OR x1 <input type="checkbox"/> DK	8164 <input type="text"/> <input type="text"/> Percent OR x1 <input type="checkbox"/> DK
g.	What percentage of this (business/practice) did ... own in ...'s own name?	8116 <input type="text"/> <input type="text"/> Percent OR x1 <input type="checkbox"/> DK	8166 <input type="text"/> <input type="text"/> Percent OR x1 <input type="checkbox"/> DK
h.	What were the gross RECEIPTS of this (business/practice) in 1991? Please use records if they are available. ★ Obtain estimate, if necessary.	8118 \$ <input type="text"/> <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	8168 \$ <input type="text"/> <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
i.	What were the total EXPENSES of this (business/practice) in 1991? Please use records if they are available. ★ Obtain estimate, if necessary.	8120 \$ <input type="text"/> <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	8170 \$ <input type="text"/> <input type="text"/> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
CHECK ITEM 6	Is "DK" marked in either item 2h or 2i?	8122 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to Check Item T7	8172 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to Check Item T7
2j.	If I were to call back later could you provide me with an estimate of (receipts/expenses)? (This information is especially important for this survey.)	8124 1 <input type="checkbox"/> Yes – Mark Callback Summary and Reminder Card, Items 11a and/or 11b 2 <input type="checkbox"/> No	8174 1 <input type="checkbox"/> Yes – Mark Callback Summary and Reminder Card, Items 11a and/or 11b 2 <input type="checkbox"/> No
CHECK ITEM 7	Is "sole proprietorship" marked in item 2a?	8126 1 <input type="checkbox"/> Yes – SKIP to Check Item T9 2 <input type="checkbox"/> No	8176 1 <input type="checkbox"/> Yes – SKIP to Check Item T10 2 <input type="checkbox"/> No

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

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

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

STATEMENT D

The next few questions are about personal retirement plans.

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

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

4l. How much did ... withdraw from Keogh accounts during 1991?

9366 \$.

x1 DK
x2 Ref.

ll. Including ALL Keogh accounts in ...'s OWN name, how much did ...'s Keogh accounts earn during 1991?

9368 \$.

x1 DK
x2 Ref.

n. What types of assets did ... have in ...'s Keogh accounts during 1991?

Mark (X) all that apply.

Anything else?

9370 1 Certificates of deposit or other savings certificates

9372 2 Money Market Funds

9374 3 U.S. Government Securities

9376 4 Municipal or Corporate Bonds

9378 5 U.S. Savings Bonds

9380 6 Stocks or Mutual Fund Shares

9382 7 Other assets – Specify 7

9384 x1 DK

CHECK ITEM T11

Refer to cc item 42.

Are the names of any employers listed for ... on the control card?

9385 1 Yes
2 No – SKIP to Check Item T12

4o. During 1991, did ... participate in an employee thrift plan such as a 401k plan? Such a plan allows employees to defer part of their salary and not have to pay taxes on their deferred salary until they retire or make a withdrawal.

9386 1 Yes
2 No
x1 DK } SKIP to Check Item T12

p. How much did ... contribute to this plan during 1991?

9388 \$.

x3 None
x1 DK
x2 Ref.

NOTES

Section 5 – TOPICAL MODULES (Continued)

Part B – TAXES

CHECK ITEM T12	Has tax information for . . . already been obtained in an interview for a spouse with whom . . . filed a joint return?	9390 1 <input type="checkbox"/> Yes – <i>SKIP to Check Item T19, page 61</i> 2 <input type="checkbox"/> No																					
1 a.	Did . . . file a Federal income tax return for 1991? <i>Mark "Yes" if . . . filed alone or jointly.</i>	9392 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – <i>SKIP to Check Item T19, page 61</i>																					
b.	Do you have a copy of the tax form or a worksheet that you could refer to for the next few questions?	9394 1 <input type="checkbox"/> Yes – <i>Allow person time to get form</i> 2 <input type="checkbox"/> No																					
2.	What was . . . 's filing status on . . . 's 1991 Federal tax return? Did . . . file as – <i>Read categories – Mark (X) one.</i>	9396 1 <input type="checkbox"/> A single taxpayer? 2 <input type="checkbox"/> Married, filing a joint return? 3 <input type="checkbox"/> Married, filing separately? 4 <input type="checkbox"/> Unmarried head of household? 5 <input type="checkbox"/> Qualifying widow(er) with dependent child? x1 <input type="checkbox"/> DK																					
3 a.	What were the total number of exemptions claimed on . . . 's tax return?	9398 <input type="text"/> Exemptions – <i>If "01" SKIP to 4</i> x1 <input type="checkbox"/> DK																					
CHECK ITEM T13	<i>Refer to cc item 20.</i> Number of current household members:	9400 1 <input type="checkbox"/> One – <i>SKIP to 3c</i> 2 <input type="checkbox"/> Two or more																					
3 b.	Besides . . . which persons in this household did . . . claim as an exemption?	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;"></th> <th style="width:20%;">Person No.</th> <th style="width:70%;">Name</th> </tr> </thead> <tbody> <tr> <td>9402</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9404</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9406</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9408</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9410</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>9412</td> <td colspan="2">1 <input type="checkbox"/> None in household</td> </tr> </tbody> </table>		Person No.	Name	9402	<input type="text"/>	<input type="text"/>	9404	<input type="text"/>	<input type="text"/>	9406	<input type="text"/>	<input type="text"/>	9408	<input type="text"/>	<input type="text"/>	9410	<input type="text"/>	<input type="text"/>	9412	1 <input type="checkbox"/> None in household	
	Person No.	Name																					
9402	<input type="text"/>	<input type="text"/>																					
9404	<input type="text"/>	<input type="text"/>																					
9406	<input type="text"/>	<input type="text"/>																					
9408	<input type="text"/>	<input type="text"/>																					
9410	<input type="text"/>	<input type="text"/>																					
9412	1 <input type="checkbox"/> None in household																						
ASK OR VERIFY –	c. Did . . . claim exemptions for any persons who lived outside of . . . 's home for the entire year?	9414 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – <i>SKIP to 4</i>																					
d.	What was the relationship of this (these) person(s) to . . . ? <i>Record for two persons only.</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="width:50%;">FIRST DEPENDENT</th> <th style="width:50%;">SECOND DEPENDENT</th> </tr> </thead> <tbody> <tr> <td>9416</td> <td>1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other</td> <td>9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other</td> </tr> </tbody> </table>		FIRST DEPENDENT	SECOND DEPENDENT	9416	1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other	9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other															
	FIRST DEPENDENT	SECOND DEPENDENT																					
9416	1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other	9418 1 <input type="checkbox"/> Parent 2 <input type="checkbox"/> Child 3 <input type="checkbox"/> Brother/sister 4 <input type="checkbox"/> Other																					
4.	Did . . . file form 1040, the long form or did . . . file one of the short forms, 1040A or 1040EZ? (Form 1040 is blue) (Form 1040A is pink) (Form 1040EZ is green)	9420 1 <input type="checkbox"/> Form 1040 2 <input type="checkbox"/> Form 1040A 3 <input type="checkbox"/> Form 1040EZ x1 <input type="checkbox"/> DK } <i>SKIP to Check Item T14</i>																					
5.	I am going to mention two forms that people are sometimes required to attach to their tax return. Please tell me if these were included with . . . 's 1991 tax return.																						
	(1) Schedule A, Itemized Deductions	9422 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK																					
	(2) Schedule D, Capital Gains and Losses	9424 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK																					

Section 5 – TOPICAL MODULES (Continued)

Part B – TAXES (Continued)

CHECK ITEM T14	<p><i>Refer to item 1b.</i> Does the respondent have a copy of ...'s Federal income tax form or a worksheet to refer to?</p>	<p>9428 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 9a</p>
CHECK ITEM T15	<p><i>Refer to item 4.</i> Is "Form 1040" marked?</p>	<p>9430 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 8a</p>
CHECK ITEM T16	<p>Is "Schedule A, Itemized Deductions" marked "Yes" in item 5(1)?</p>	<p>9432 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 6b</p>
<p>6a. How much were ...'s (and ...'s husband's/wife's) itemized deductions for 1991? <i>(Schedule A, line 26)</i></p>		<p>9434 \$ <input type="text"/> . <input type="text"/></p> <p>x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. – SKIP to Check Item T17</p>
<p>b. On ...'s Form 1040, did ... (and ...'s husband/wife) claim –</p> <p>(1) A child and dependent care expense credit ... <i>(Form 1040, line 41)</i></p> <p>(2) A credit for the elderly or the disabled ... <i>(Form 1040, line 42)</i></p>		<p>6c. What was the amount of the <i>(Read name of credit claimed.)</i></p> <p>9446 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>9445 \$ <input type="text"/> . <input type="text"/></p> <p>x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>9450 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>9452 \$ <input type="text"/> . <input type="text"/></p> <p>x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
CHECK ITEM T17	<p><i>Refer to item 5(2).</i> Is "Schedule D, Capital Gains and Losses" marked "Yes"?</p>	<p>9458 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 8a</p>
<p>7. How much were ...'s (and ...'s husband's/wife's) capital gains or losses from the sale or exchange of personal assets for 1991? <i>(Form 1040, line 13)</i></p>		<p>9460 \$ <input type="text"/> . <input type="text"/></p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>9461 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p>
<p>8a. Adjusted gross income is total income less certain types of adjustments and exclusions. Please look at your tax return or worksheet. What was ...'s (and ...'s husband's/wife's) adjusted gross income in 1991? <i>(Form 1040, line 31)</i> <i>(Form 1040A, line 16)</i> <i>(Form 1040EZ, line 3)</i></p>		<p>9462 \$ <input type="text"/> . <input type="text"/></p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>9463 x4 <input type="checkbox"/> Lost money – Enter amount of loss in box</p> <p>} SKIP to 9a</p>
<p>b. Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments. What was ...'s (and ...'s husband's/wife's) net tax liability in 1991? <i>(Form 1040, line 53)</i> <i>(Form 1040A, line 27)</i> <i>(Form 1040EZ, line 7)</i></p>		<p>9464 \$ <input type="text"/> . <input type="text"/></p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p>
CHECK ITEM T18	<p><i>Refer to item 8a.</i> What is the amount of adjusted gross income reported?</p>	<p>9466 1 <input type="checkbox"/> \$21,250 or more – SKIP to Check Item T19 2 <input type="checkbox"/> Less than \$21,250</p>

Section 5 – TOPICAL MODULES (Continued)

Part B – TAXES (Continued)

9a. Did ... claim an earned income credit on ...'s Federal income tax return?

9472 Yes
 No
 DK } *SKIP to Check Item T19*

b. What was the amount of earned income credit claimed?
(Form 1040, line 56)
(Form 1040A, line 28c)

9474 \$.
 DK
 Ref.

CHECK ITEM T19

Refer to cc item 15.
 Tenure of reference person.
 Are ...'s living quarters –

9486 Owned or being bought?
 Rented for cash?
 Occupied without cash payment? } *SKIP to Statement E, page 62*

CHECK ITEM T20

Interview status of ...'s spouse

9488 No spouse in household
 Interview for spouse not yet conducted
 Interview for spouse already conducted –
SKIP to Statement E, page 62

10a. Did ... pay any property taxes on ...'s residence(s) in 1991?

9490 Yes
 No – *SKIP to Statement E, page 62*

b. Did ... pay these jointly with someone else living here?

9492 Yes
 No – *SKIP to 10d*

c. Who made these joint payments with ...?

9494	Person No.	Name
	<input type="text"/>	<input type="text"/>
9496	Person No.	Name
	<input type="text"/>	<input type="text"/>

d. What was the property tax bill for ...'s residence(s) in 1991?
Obtain estimate, if necessary.
(Schedule A, line 6)

9498 \$.
 DK
 Ref.

NOTES

Section 5 — TOPICAL MODULES (Continued)

Part C — SCHOOL ENROLLMENT AND FINANCING

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

<p>1. Was . . . enrolled in school anytime during the past 12 months? (Include any regular school, such as elementary, high school, or college, or any vocational, technical or business school.)</p>	<p>9610 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to Check Item C1, page 64</p>
<p>2. At what level or grade was . . . enrolled? (If enrolled at more than one level in the past 12 months, check level in which the greatest amount of time was spent.)</p>	<p>9612 1 <input type="checkbox"/> Elementary grades 1–8 2 <input type="checkbox"/> High school grades 9–12 3 <input type="checkbox"/> College year 1 4 <input type="checkbox"/> College year 2 5 <input type="checkbox"/> College year 3 6 <input type="checkbox"/> College year 4 7 <input type="checkbox"/> College year 5 8 <input type="checkbox"/> College year 6+ 9 <input type="checkbox"/> Vocational school 10 <input type="checkbox"/> Technical school 11 <input type="checkbox"/> Business school 12 <input type="checkbox"/> Other or DK</p>
<p>CHECK ITEM T21 Was . . . enrolled in elementary or high school?</p>	<p>9614 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 4</p>
<p>3. Was . . . enrolled in a public school? (Mark "Yes" if the school at which . . . spent the greatest amount of time was public.)</p>	<p>9616 1 <input type="checkbox"/> Yes — SKIP to Check Item C1, page 64 2 <input type="checkbox"/> No</p>
<p>4. During the past 12 months —</p> <p>a. What was the total cost of . . . 's tuition and fees?</p>	<p>9618 \$ <input style="width: 60px;" type="text"/> . <input style="width: 20px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>
<p>b. What was the total cost of . . . 's books and supplies?</p>	<p>9620 \$ <input style="width: 60px;" type="text"/> . <input style="width: 20px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>
<p>c. Did . . . live away from home while attending school?</p>	<p>9622 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5a</p>
<p>d. What was the total cost for room and board while away at school?</p>	<p>9624 \$ <input style="width: 60px;" type="text"/> . <input style="width: 20px;" type="text"/> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>

NOTES

Section 5 -- TOPICAL MODULES (Continued)

Part C -- SCHOOL ENROLLMENT AND FINANCING (Continued)

<p>5a. Please look at card DD in your pamphlet and tell me if . . . received any of these types of educational assistance during the past 12 months?</p> <p>Anything else?</p>	<p>9626 x3 <input type="checkbox"/> None -- SKIP to Check Item C1</p>	<p>5b. How much did . . . receive?</p>
(1) The GI Bill?	9628 1 <input type="checkbox"/> Received	9630 \$ [] . [] x1 <input type="checkbox"/> DK
(2) Other Veterans' Educational Assistance Programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans' assistance.)	9632 1 <input type="checkbox"/> Received	9634 \$ [] . [] x1 <input type="checkbox"/> DK
(3) College Work Study Program?	9636 1 <input type="checkbox"/> Received	9638 \$ [] . [] x1 <input type="checkbox"/> DK
(4) A Pell Grant?	9640 1 <input type="checkbox"/> Received	9642 \$ [] . [] x1 <input type="checkbox"/> DK
(5) A Supplemental Educational Opportunity Grant (SEOG)?	9644 1 <input type="checkbox"/> Received	9646 \$ [] . [] x1 <input type="checkbox"/> DK
(6) A National Direct Student Loan (NDSL) (or Perkins Loan)?	9648 1 <input type="checkbox"/> Received	9650 \$ [] . [] x1 <input type="checkbox"/> DK
(7) A guaranteed student loan, such as a Parent Loan for Undergraduate Students (PLUS), Stafford Loan, or Supplemental Loan for Students (SLS)?	9652 1 <input type="checkbox"/> Received	9654 \$ [] . [] x1 <input type="checkbox"/> DK
(8) A JTPA Training Program?	9656 1 <input type="checkbox"/> Received	9658 \$ [] . [] x1 <input type="checkbox"/> DK
(9) Employer assistance	9660 1 <input type="checkbox"/> Received	9662 \$ [] . [] x1 <input type="checkbox"/> DK
(10) A fellowship or scholarship?	9664 1 <input type="checkbox"/> Received	9666 \$ [] . [] x1 <input type="checkbox"/> DK
(11) A tuition reduction?	9668 1 <input type="checkbox"/> Received	9670 \$ [] . [] x1 <input type="checkbox"/> DK
(12) Anything else (other than assistance from relatives and friends)?	9672 1 <input type="checkbox"/> Received	9674 \$ [] . [] x1 <input type="checkbox"/> DK

NOTES

CALLBACK SUMMARY

CHECK ITEM C1	Are any items marked on Reminder Card for . . . ?	5000	1 <input type="checkbox"/> Yes - Mark appropriate item(s) below, then SKIP to Check Item C2 2 <input type="checkbox"/> No - SKIP to Check Item C2	
<input type="checkbox"/>	1. Social Security Number <i>(Enter in cc item 33a)</i>		<input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/>	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
<input type="checkbox"/>	2. Medicare claim number <i>(Item 23b, page 8)</i>	5002	<input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - 5004 <input type="text"/> <input type="text"/> <input type="text"/> - 5005 <input type="text"/> <input type="text"/>	
<input type="checkbox"/>	3. EMPLOYER			
	a. Employer #1 <i>(Item 8a, page 17)</i> What was the total amount of pay received before deductions on this job in . . . ?	5006	\$ <input type="text"/> . Last month	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5008	\$ <input type="text"/> . 2 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5010	\$ <input type="text"/> . 3 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5012	\$ <input type="text"/> . 4 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <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	\$ <input type="text"/> . Last month	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5018	\$ <input type="text"/> . 2 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5018	\$ <input type="text"/> . 3 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5020	\$ <input type="text"/> . 4 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
<input type="checkbox"/>	4. SELF-EMPLOYMENT			
	a. Self-employment #1 <i>(Item 7, page 21)</i> What was the total amount of income received from this business in . . . ?	5022	\$ <input type="text"/> . Last month	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5024	\$ <input type="text"/> . 2 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5026	\$ <input type="text"/> . 3 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5028	\$ <input type="text"/> . 4 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <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	\$ <input type="text"/> . Last month	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5032	\$ <input type="text"/> . 2 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5034	\$ <input type="text"/> . 3 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
		5036	\$ <input type="text"/> . 4 months ago	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None
<input type="checkbox"/>	5. What was the average 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>		Amounts for the period of - <input type="text"/> through <input type="text"/>	
		5038	\$ <input type="text"/> .	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	6. What was the average amount in savings/Money market deposit accounts/CD's/Interest-earning checking accounts in own name? <i>(Item 3c, page 48)</i>	5040	\$ <input type="text"/> .	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	7. What was the average amount in Money market funds/ securities/ bonds held jointly by husband and wife? <i>(Item 2c, page 49)</i>	5042	\$ <input type="text"/> .	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	8. What was the average amount in Money market funds/securities/ bonds in own name? <i>(Item 3c, page 49)</i>	5044	\$ <input type="text"/> .	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	9. What was the amount received in dividends by husband and wife jointly? <i>(Item 1b, page 50)</i>	5048	\$ <input type="text"/> .	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? <i>(Item 2a, page 50)</i>	5050	\$ <input type="text"/> .	x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x3 <input type="checkbox"/> None

CALLBACK SUMMARY (Continued)

		Business 1		Business 2	
<input type="checkbox"/>	11a. What were the gross receipts of this (business/practice) in 1991? (Item 2h, page 55)	9676	\$ <input type="text"/>	9682	\$ <input type="text"/>
			x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.		x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	11b. What were the total expenses of this (business/practice) in 1991? (Item 2i, page 55)	9678	\$ <input type="text"/>	9684	\$ <input type="text"/>
			x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.		x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
<input type="checkbox"/>	12. What was the net income from this business/practice in 1991? (Item 2k, page 56)	9650	\$ <input type="text"/>	9686	\$ <input type="text"/>
			x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.		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		
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.

ISS code (a)	Mark (X) (b)	Record use code (c) 1 = Yes 2 = No 3 = Ref. 4 = Sp. Q.	Type of income source and income source code (d) <i>REMINDER</i> — After obtaining amounts for each income source, probe to determine whether the respondent was using records to provide amounts.	Amounts section page number (e)
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)	(A) - 24 28 32 36 40 44
24			Other Welfare — Specify	
25			WIC (Women, Infants, and Children Nutrition Program)	
27			Food Stamps	
28			Child Support payments	
29			Alimony payments	
INCOME CODES 30-38				
30			Pension from company or union	
INCOME CODES 40-41				
40			GI Bill education benefits	
INCOME CODES 50-56				
55			Incidental or casual earnings	
ASSET CODES 100-150				
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	(C) - 49
105			U.S. Government securities	
106			Municipal or corporate bonds	
107			Other interest-earning assets	(D) - 50
110			Stocks or mutual fund shares	
120			Rental property	(E) - 51
130			Mortgages	(F) - 52
140			Royalties	
150			Other financial investments	
SPECIAL INDICATOR CODES 170-183, 200, 201				
170			Worked	Section 2
171			Disabled	DO NOT FILL
172			Medicare	
173			Medicaid	
174			U.S. Savings Bonds	
200			VA disability rating of 100%	
201			VA disability rating of less than 100%	

APPENDIX C

Working Papers

This appendix provides a list of a SIPP Working Papers. Any of these papers are free of charge. See the order form on page C-9.

1990

- 9001 - "Recent Developments in the Survey of Income and Program Participation", Census Bureau
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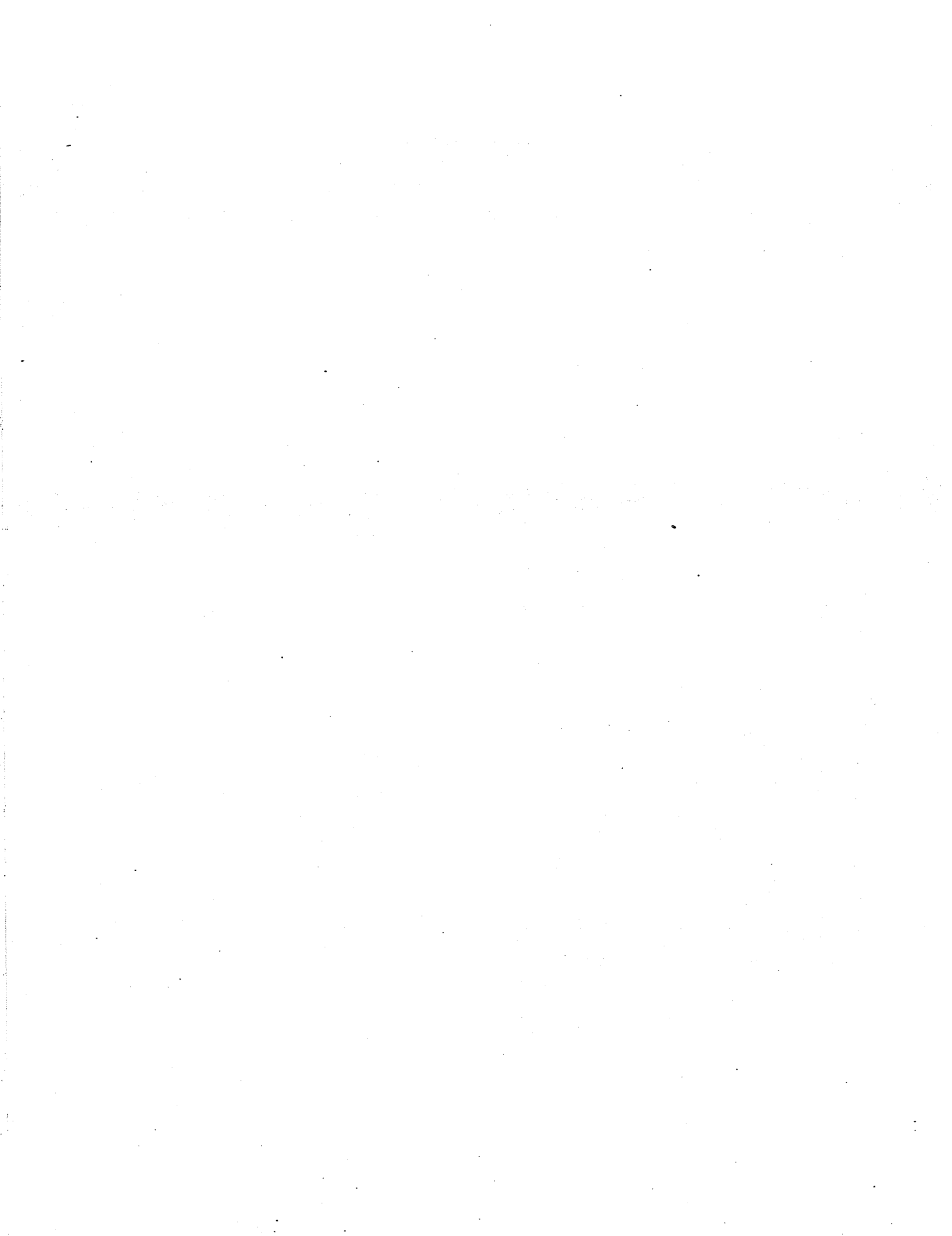
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APPENDIX D

Machine-Readable Data Dictionary Layout

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

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

FORMAT

"*" LINE COMMENTS

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

"D" LINE DATA DICTIONARY

This line contains the following information:

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

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

"U" LINE UNIVERSE DEFINITION

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

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

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

"V" LINE VALUE DEFINITION

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

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

APPENDIX E

User Notes

This section is reserved for any information relevant to the SIPP 1990 Panel, Wave 8 Topical Module Microdata Research 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.

