

**SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)
1993 PANEL**

**WAVE 5 SCHOOL ENROLLMENT AND FINANCING
TOPICAL MODULE MICRODATA FILE
and
WAVE 5 ANNUAL INCOME, RETIREMENT ACCOUNTS and
TAXES TOPICAL MODULE RESEARCH FILE**

Technical Documentation

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The **files** should be cited as follows:

Survey of Income and Program Participation (SIPP) 1993 Panel, Wave 5 School Enrollment and Financing Topical Module Microdata File and Wave 5 Annual Income, Retirement Accounts and Taxes Topical Module Research File [machine-readable data file] / prepared by the Bureau of the Census.
-Washington: The Bureau [producer and distributor], 1995.

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For additional information concerning the **file**, contact Administrative and Publications Services Division, Customer Services (Order Desk), Bureau of the Census, Washington, D.C. 20233. Phone: (301) 457-4100.

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ABSTRACT

*Survey of Income and Program Participation (SIPP) 1993 Panel, Wave 5
School Enrollment and Financing Topical Module Microdata File and Wave 5
Annual Income and Retirement Accounts and Taxes Topical Module
Research File [machine-readable data file] / conducted by the U.S. Bureau
of the Census. -Washington: The Bureau [producer and distributor], 1995.*

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

These files contain 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 school enrollment and financing.

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

SIPP is a longitudinal survey where each sampled household and each descendent household is reinterviewed at 4-month intervals for 8 interviews or "waves." This file contains the results of the **fifth** 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: 52,271 logical records for both files

	Logical Record
Topical Module Wave 5 School Enrollment and Financing File	180
Topical Module Wave 5 Annual Income, Retirement Accounts and Taxes Research File	400

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

Reference Materials

Interviewers' Manual (1985). Survey of Income and Program Participation. U.S. Department of Commerce, Bureau of the Census. The manual is available from Administrative and Publications Services Division, Customer Services, Bureau of the Census, Washington, DC 20233.

Survey of Income and Program Participation (SIPP) 1992 Panel, Wave 5 School Enrollment and Financing Topical Module Microdata File Technical Documentation. The documentation includes this abstract, the data dictionary, an index to the data dictionary, relevant code lists, a questionnaire facsimile, and general information relative to SIPP. One copy of the technical documentation accompanies each file order but also may be purchased separately from Administrative and Publications Services Division, Customer Services, Bureau of the Census, Washington, DC 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, Administrative and Publications Services Division, Bureau of the Census, Washington, DC 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. Copies available from the Microdata Access Branch.

Related Machine-Readable Data Files

SIPP files from all Waves of the 1984 through 1991 Panels as well as Waves 1 through 5 of the 1992 Panel and 1993 Panel Wave 1-3 are available from Customer Services, Administrative and Publications Services Division, Bureau of the Census, Washington, DC 20233. An order form is on the following page for your convenience.

File Availability

Files are available on computer tape at 6250 bpi, ASCII or EBCDIC, and standard ANSI labeling. The file can also be made available on IBM 3480 compatible tape cartridge or CD-R (compact disc-recordable) in ASCII for the same price as the file on tape. A machine-readable dictionary is contained at the end of each file. This dictionary is also available separately on one tape reel or cartridge. When ordering, please use the order form on the following page.

FILE INFORMATION

Matching Topical Module File with Core File

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

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

Geographic Coverage

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

Identification Number System

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

The various components of the identification scheme are listed below:

Sample Unit Identification Number
Address ID
Entry Address ID
Person Number

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

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

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

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, through 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 have 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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SIPP 1993 WAVE 5 TOPICAL MODULE

<u>Description</u>	<u>Variable</u>	<u>Position</u>
ID Number of Second Business	TM8060	149
Income from First Business for First Co-Owner	TM8214	130
Income from First Business for Second Co-Owner	TM8220	139
Income from Second Business for First Co-Owner	TM8264	202
Income from Second Business for Second Co-Owner	TM8270	211
Income Received by Other Household Owners of First Business	TM8210	125
Income Received by Other Household Owners of Second Business	TM8260	197
Individual Retirement Account (IRA)	TM9330	224
Individual Retirement Account Contribution Amount	TM9334	228
Individual Retirement Account Contributions	TM9332	226
Individual Retirement Account Total Earnings	TM9340	240
Individual Retirement Account Withdrawal Amount	TM9338	235
Individual Retirement Account Withdrawal Made	TM9336	233
Industry Code for First Business	TMIND1	74
Industry Code for Second Business	TMIND2	146
Interview Status of Spouse	TM9488	381
Interviewed in Waves 1-4	TM8002	70
IRA Asset Type - Certificates of Deposit or Other Savings Certificate	TM9342	245
IRA Asset Type - Don't Know	TM9356	252
IRA Asset Type - Money Market Funds	TM9344	246
IRA Asset Type - Municipal or Corporate Bonds	TM9348	248
IRA Asset Type - Other Assets	TM9354	251
IRA Asset Type - Stocks or Mutual Fund Shares	TM9352	250
IRA Asset Type - U S Government Securities	TM9346	247
IRA Asset Type - U S Savings Bonds	TM9350	249
Items With Data on the Annual Income and Retirement Record	TMEBCNT	291
Items With Data on the Taxes Record	TMPICNT	396
Keogh Account	TM9358	253
Keogh Account Amount of Withdrawals	TM9366	264
Keogh Account Contributions	TM9360	255
Keogh Account Contributions Amount	TM9362	257
Keogh Account Total Earnings	TM9368	269
Keogh Account Withdrawals	TM9364	262
Keogh Asset Types - Certificates of Deposit or Other Savings Certificates	TM9370	274
Keogh Asset Types - Don't Know	TM9384	281
Keogh Asset Types - Money Market Funds	TM9372	275
Keogh Asset Types - Municipal or Corporate Bonds	TM9376	277
Keogh Asset Types - Other Assets	TM9382	280
Keogh Asset Types - Stocks or Mutual Shares	TM9380	279
Keogh Asset Types - U S Government Securities	TM9374	276
Keogh Asset Types - U S Savings Bonds	TM9378	278
Marital Status	MS	53
Monthly Interview Status for Persons	PPMIS1:5	25
Net Federal Tax Liability	TM9464	365
Net Income Estimate Callback for First Business	TM8206	123
Net Income Estimate Callback for Second Business	TM8256	195
Net Income From First Business	TM8202	117
Net Income From Other Businesses in 1993	TM8278	218
Net Income From Second Business	TM8252	189
Number of Businesses Owned and Operated During 1993	TM8006	72
Number of Current Household Members	TM9400	304
Person Index From Core	PINX	18
Person Number	PNUM	32
Person Number of Other Owner of First Business	TM8014	80

<u>Description</u>	<u>Variable</u>	<u>Position</u>
Person Number of Other Owner of Second Business	TM8064	152
Person Number of Parent	PNPT	57
Person Number of Spouse	PNSP	54
Person Weight	FINALWGT	35
Person's Interview Status	INTVW	24
Property Tax Amount	TM9498	390
Property Taxes Paid Jointly	TM9492	383
Property Taxes Paid Jointly - First Person Number	TM9494	384
Property Taxes Paid Jointly - Second Person Number	TM9496	387
Property Taxes Paid on Residence	TM9490	382
Race	RACE	52
Receipts or Expenses Callback for 2nd Business	TM8174	187
Receipts or Expenses Callback for First Business	TM8124	115
Receipts/Expenses of 2nd Business Collected	TM8172	186
Receipts/Expenses of First Business Collected	TM8122	114
Relationship of First Dependent to Respondent	TM9416	322
Relationship to Reference Person	RRP	47
Relationship to Second Dependent to Respondent	TM9418	323
Rotation Group	ROTATION	15
Sample Unit Identifier	ID	6
Schedule A Filed	TM9432	332
Schedule D, Capital Gains and Losses	TM9458	352
Second Business Co-Owner, First Person Number	TM8262	199
Second Business Co-Owner, Second Person Number	TM8268	208
Second Business Co-Owner-First Person Number	TM8158	163
Second Business Co-Owner-Second Person Number	TM8160	166
Second Business Co-Owners are Household Members	TM8156	161
Second Business ID Number for Other Owner	TM8066	155
Second Business Information Already Obtained	TM8062	151
Second Business is a Sole Proprietorship	TM8154	160
Second Business is a Sole Proprietorship	TM8176	188
Second Business Listed	TM8274	145
Second Business Owned Entirely by Household Members	TM8162	169
Second Business Percentage Owned by Household Members	TM8164	170
Second Business Type	TM8068	157
Second Business, Percentage Owned by Respondent	TM8166	172
Second Business, Primary Location	TM8070	159
Sequence Number of Sample Unit	SUSEQNUM	1
Sex	SEX	51
Tax Credit Amount for Child and Dependent Care Expense	TM9448	340
Tax Credit Amount for the Elderly or Disabled	TM9452	347
Tax Credit for Child and Dependent Care Expense	TM9446	339
Tax Credit for the Elderly or Disabled	TM9450	346
Tax Information Obtained Already	TM9390	297
Tax Itemized Deductions Amount	TM9434	333
Tenure of Residence	TM9486	380
Three or More Businesses Listed	TM8276	217
Thrift Plan Amount of Contribution	TM9388	285
Thrift Plan Participation	TM9386	283
Total Expenses of First Business	TM8120	108
Total Expenses of Second Business	TM8170	180
Wave Number Within Panel	WAVE	65

ALPHABETICAL VARIABLE INDEX: 1993 WAVE 5 TOPICAL MODULE

School Enrollment and Financing

<u>Variable</u>	<u>Description</u>	<u>Position</u>
ADDID	Current Address Identification	20
AGE	Age	48
ENTRY	Entry Address Identification	30
ETHNICTY	Ethnic Origin	63
FINALWGT	Person weight (interview month)	35
GRDCMPL	Grade Attended Was Completed, Highest	62
HIGRADE	Grade or Year of School Attended, Highest	60
ID	Sample Unit Identifier	6
IMP9612:74	Imputation Flags for Education and Training	158
INTVW	Person's Interview Status	24
ITEM36B	Household Interview Status Code	22
MS	Marital Status	53
PINX	Person Index From Core	18
PNPT	Person Number of Parent	57
PNSP	Person Number of Spouse	54
PNUM	Person Number	32
PPMIS1:5	Interview Status for Persons, Monthly	25
RACE	Race	52
ROTATION	Rotation Group	15
RRP	Relationship to Reference Person	47
SEX	Sex	51
STATE	FIPS State Code	16
SUSEQNUM	Sequence Number of Sample Unit	1
TM9610	School Enrollment Status	69
TM9612	Grade	70
TM9614	Enrolled in Elementary or High School	72
TM9616	Enrolled in Public Elementary or high school	73
TM9618	Cost of Tuition and Fees	74
TM9620	Cost of Books and Supplies	79
TM9622	Lived Away From Home While Attending School	83
TM9624	Cost for Room and Board	84
TM9626	Receipt of Educational Assistance	89
TM9628	GI Bill Educational Assistance	91
TM9630	GI Bill, Percent Received From	92
TM9632	Veteran's Educational Assistance Program	96
TM9634	Veteran's Programs, Percent Received From	97
TM9636	College Work Study Program	102
TM9638	College Work Study, Percent Received From	103
TM9640	Pell Grant Educational Assistance	107
TM9642	Pell Grant, Percent Received From	108
TM9644	Supplement Educational Opportunity Grant (SEOG)	112
TM9646	SEOG, Percent Received From	113
TM9648	National Direct Student Loan	117
TM9650	National Direct Loan, Percent Received From	118
TM9652	Guaranteed Student Loan	122
TM9654	Guaranteed Student Loan, Percent Received From	123
TM9656	PLUS or SLS Educational Assistance	128
TM9658	PLUS or SLS, Percent Received From	129
TM9660	Employer Educational Assistance	133
TM9662	Employer Assistance, Percent Received From	134
TM9664	Fellowship or Scholarship Assistance	139

SIPP 1993 WAVE 5 TOPICAL MODULE

<u>Variable</u>	<u>Description</u>	<u>Position</u>
TM9666	Fellowship or Scholarship, Percent Received From.....	140
TM9668	Tuition Reduction Educational Assistance.....	145
TM9670	Tuition Reduction, Percent Received From.....	146
TM9672	Other Educational Assistance.....	150
TM9674	Other Educational Assistance, Percent Received From.....	151
TMETCNT	Number of Non-blank Entries	156
TMTEDFIN	Educational Assistance, Total Amount of.....	176
WAVE	Wave Number Within Panel	65

VARIABLE INDEX: 1993 WAVE 5 TOPICAL MODULE

Microdata Research File

<u>Variable</u>	<u>Description</u>	<u>Position</u>
ADDID	Current Address Identification	20
AGE	Age	48
ENTRY	Entry Address Identification	30
ETHNICTY	Ethnic Origin	63
FINALWGT	Person Weight	35
GRDCMPL	Grade Attended Was Completed, Highest	62
HIGRADE	Grade or Year of School Attended, Highest	60
ID	Sample Unit Identifier	6
INTVW	Person's Interview Status	24
ITEM36B	Household Interview Status Code	22
MS	Marital Status	53
PINX	Person Index From Core	18
PNPT	Person Number of Parent	57
PNSP	Person Number of Spouse	54
PNUM	Person Number	32
PPMIS1:5	Monthly Interview Status for Persons	25
RACE	Race	52
ROTATION	Rotation Group	15
RRP	Relationship to Reference Person	47
SEX	Sex	51
STATE	FIPS State Code	16
SUSEQNUM	Sequence Number of Sample Unit	1
TM8000	Business Ownership During Panel	69
TM8002	Interviewed in Waves 1-4	70
TM8004	Business Owned and Operated During Calendar Year 1993	71
TM8006	Number of Businesses Owned and Operated During 1993	72
TM8010	ID Number of First Business	77
TM8012	First Business Information Already Obtained	79
TM8014	Person Number of Other Owner of First Business	80
TM8016	First Business ID Number For Other Owner	83
TM8018	First Business Type	85
TM8020	First Business Primary Location	87
TM8060	ID Number of Second Business	149
TM8062	Second Business Information Already Obtained	151
TM8064	Person Number of Other Owner of Second Business	152
TM8066	Second Business ID Number for Other Owner	155
TM8068	Second Business Type	157
TM8070	Second Business, Primary Location	159
TM8104	First Business is a Sole Proprietorship	88
TM8106	First Business Co-Owners are Household Members	89
TM8108	First Business Co-Owner First Person Number	91
TM8110	First Business Co-Owner Second Person Number	94
TM8112	First Business Owned Entirely by Household Members	97
TM8114	First Business Percentage Owned by Household Members	98
TM8116	First Business Percentage Owned by Respondent	100
TM8118	Gross Receipts of First Business	102
TM8120	Total Expenses of First Business	108
TM8122	Receipts/Expenses of First Business Collected	114
TM8124	Receipts or Expenses Callback for First Business	115
TM8126	First Business is a Sole Proprietorship	116
TM8154	Second Business is a Sole Proprietorship	160

SIPP 1993 WAVE 5 TOPICAL MODULE

<u>Variable</u>	<u>Description</u>	<u>Position</u>
TM8156	Second Business Co-Owners are Household Members	161
TM8158	Second Business Co-Owner-First Person Number	163
TM8160	Second Business Co-Owner-Second Person Number	166
TM8162	Second Business Owned Entirely by Household Members	169
TM8164	Second Business Percentage Owned by Household Members	170
TM8166	Second Business, Percentage Owned by Respondent	172
TM8168	Gross Receipts of Second Business	174
TM8170	Total Expenses of Second Business	180
TM8172	Receipts/Expenses of 2nd Business Collected	186
TM8174	Receipts or Expenses Callback for 2nd Business	187
TM8176	Second Business is a Sole Proprietorship	188
TM8202	Net Income From First Business	117
TM8206	Net Income Estimate Callback for First Business	123
TM8208	Household Members Part Owners of First Business	124
TM8210	Income Received by Other Household Owners of First Business	125
TM8212	First Business Co-Owner, First Person Number	127
TM8214	Income from First Business for First Co-Owner	130
TM8218	First Business Co-Owner, Second Person Number	136
TM8220	Income from First Business for Second Co-Owner	139
TM8252	Net Income From Second Business	189
TM8256	Net Income Estimate Callback for Second Business	195
TM8258	Household Members Part Owners of Second Business	196
TM8260	Income Received by Other Household Owners of Second Business	197
TM8262	Second Business Co-Owner, First Person Number	199
TM8264	Income from Second Business for First Co-Owner	202
TM8268	Second Business Co-Owner, Second Person Number	208
TM8270	Income from Second Business for Second Co-Owner	211
TM8274	Second Business Listed	145
TM8276	Three or More Businesses Listed	217
TM8278	Net Income From Other Businesses in 1993	218
TM9330	Individual Retirement Account (IRA)	224
TM9332	Individual Retirement Account Contributions	226
TM9334	Individual Retirement Account Contribution Amount	228
TM9336	Individual Retirement Account Withdrawal Made	233
TM9338	Individual Retirement Account Withdrawal Amount	235
TM9340	Individual Retirement Account Total Earnings	240
TM9342	IRA Asset Type - Certificates of Deposit or Other Savings Certificate	245
TM9344	IRA Asset Type - Money Market Funds	246
TM9346	IRA Asset Type - U S Government Securities	247
TM9348	IRA Asset Type - Municipal or Corporate Bonds	248
TM9350	IRA Asset Type - U S Savings Bonds	249
TM9352	IRA Asset Type - Stocks or Mutual Fund Shares	250
TM9354	IRA Asset Type - Other Assets	251
TM9356	IRA Asset Type - Don't Know	252
TM9358	Keogh Account	253
TM9360	Keogh Account Contributions	255
TM9362	Keogh Account Contributions Amount	257
TM9364	Keogh Account Withdrawals	262
TM9366	Keogh Account Amount of Withdrawals	264
TM9368	Keogh Account Total Earnings	269
TM9370	Keogh Asset Types - Certificates of Deposit or Other Savings Certificates	274
TM9372	Keogh Asset Types - Money Market Funds	275
TM9374	Keogh Asset Types - U S Government Securities	276
TM9376	Keogh Asset Types - Municipal or Corporate Bonds	277

VARIABLE LISTING

<u>Variable</u>	<u>Description</u>	<u>Position</u>
TM9378	Keogh Asset Types - U S Savings Bonds	278
TM9380	Keogh Asset Types - Stocks or Mutual Shares	279
TM9382	Keogh Asset Types - Other Assets	280
TM9384	Keogh Asset Types - Don't Know	281
TM9385	Employer During Panel	282
TM9386	Thrift Plan Participation	283
TM9388	Thrift Plan Amount of Contribution	285
TM9390	Tax Information Obtained Already	297
TM9392	Federal Income Tax Return Filed	298
TM9394	Federal Tax Form Copy of Worksheet	299
TM9396	Federal Tax Form Filing Status	300
TM9398	Federal Tax Form Number of Exemptions	302
TM9400	Number of Current Household Members	304
TM9402	Federal Tax Form Exemptions - First Person Number	305
TM9404	Federal Tax Form Exemptions - Second Person Number	308
TM9406	Federal Tax Form Exemptions - Third Person Number	311
TM9408	Federal Tax Form Exemptions - Fourth Person Number	314
TM9410	Federal Tax Form Exemptions - Fifth Person Number	317
TM9412	Federal Tax Form Exemptions - None in Household Except Self	320
TM9414	Federal Tax Exemptions for Persons Outside of Home	321
TM9416	Relationship of First Dependent to Respondent	322
TM9418	Relationship to Second Dependent to Respondent	323
TM9420	Federal Tax Type of Form Filed	324
TM9422	Federal Tax Schedule A, Itemized Deductions	326
TM9424	Federal Tax Schedule D, Capital Gains and Losses	328
TM9428	Federal Tax Form or Worksheet Copy	330
TM9430	Form 1040 Filed	331
TM9432	Schedule A Filed	332
TM9434	Tax Itemized Deductions Amount	333
TM9446	Tax Credit for Child and Dependent Care Expense	339
TM9448	Tax Credit Amount for Child and Dependent Care Expense	340
TM9450	Tax Credit for the Elderly or Disabled	346
TM9452	Tax Credit Amount for the Elderly or Disabled	347
TM9458	Schedule D, Capital Gains and Losses	352
TM9460	Capital Gains or Losses From Sale or Exchange of Personal Assets	353
TM9462	Adjusted Gross Income	359
TM9464	Net Federal Tax Liability	365
TM9466	Adjusted Gross Income Amount	371
TM9472	Earned Income Credit Claim	372
TM9474	Earned Income Credit Amount Claimed	374
TM9486	Tenure of Residence	380
TM9488	Interview Status of Spouse	381
TM9490	Property Taxes Paid on Residence	382
TM9492	Property Taxes Paid Jointly	383
TM9494	Property Taxes Paid Jointly - First Person Number	384
TM9496	Property Taxes Paid Jointly - Second Person Number	387
TM9498	Property Tax Amount	390
TMEBCNT	Items With Data on the Annual Income and Retirement Record	291
TMIND1	Industry Code for First Business	74
TMIND2	Industry Code for Second Business	146
TMPICNT	Items With Data on the Taxes Record	396
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 1993 WAVE 5 SCHOOL ENROLLMENT AND FINANCING TOPICAL MODULE DATA DICTIONARY

DATA SIZE BEGIN

D SUSEQNUM 5 1
Sequence number of sample unit
Primary sort key
Not to be used for matching
observations
U All persons, including children

D ID 9 6
Sample unit identifier
This identifier is created by scrambling
together the PSU, segment and serial
numbers of the original sample address.
Range = (000000000:999999999)
U All persons, including children

D ROTATIGN 1 15
Rotation group
U All persons 15 or older in school
V 1 .Interview month: September 1994
V 2 .Interview month: June 1994
V 3 .Interview month: July 1994
V 4 .Interview month: August 1994

D STATE 2 16
FIPS state code
U All persons, including children
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

DATA SIZE BEGIN

V 62 .Iowa, North Dakota, South Dakota
V 63 .Alaska, Idaho, Montana, Wyoming

D PINX 2 18
Person index from core
Not to be used for matching
observations
U All persons, including children

D ADDID 2 20
Current address ID - This field
differentiates households within
the same sample unit (i.e., the same
PSU, segment and serial numbers),
that is, households which originate
out of an original sample household
U All persons, including children

D ITEM36B 2 22
Household interview status code
U All persons, including children
V 01 .Interviewed
* Type A noninterview
V 02 .No one home
V 03 .Temporarily absent
V 04 .Refused
V 05 .Unable to locate
V 06 .Other Type A
* Type B noninterview (Wave 2+)
V 16 .Entire hh institutionalized
 .or temporarily ineligible
* 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)

D INTVW 1 24
Person's interview status
U All persons, including children
V 0 .Not applicable (children
 .under 15) or not in sample
V 1 .Interview (self)
V 2 .Interview (proxy)
V 3 .Noninterview - Type 2 refusal
V 4 .Noninterview - Type 2 other

D PPMIS1 1 25
Person's interview status: Reference Month 1
U All persons, including children
V 1 .Interview
V 2 .Noninterview

D PPMIS2 1 26
Person Interview status: Reference Month 2
U All persons, including children
V 1 .Interview
V 2 .Noninterview

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D PPMIS3 1 27
 Person's interview status: Reference Month 3
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PPMIS4 1 28
 Person's interview status: Reference Month 4
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PPMIS5 1 29
 Person's interview status: Interview Month
 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
 Person number
 U All persons, including children

D FINALWGT 12 35
 Person weight (interview month)
 There are four implied decimal places.
 U All persons, including children

D RRP 1 47
 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 subfamily
 .(secondary family)
 V 7 .Non-relative of household
 .reference person and not related
 .to anyone else in the
 .household (secondary individual)

D AGE 3 48
 Age
 U All persons, including children
 V 000 .Less than 1 full year
 V 001 .1 year
 V .etc., topcoded to 83

D SEX 1 51
 Sex
 U All persons, including children
 V 1 .Male
 V 2 .Female

DATA SIZE BEGIN

D RACE 1 52
 Race
 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
 U Persons 15 years old or older
 V 0 .Not applicable or 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 All persons, including children
 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 GRDCMPL 1 62
 Did he/she complete that grade
 U Persons 15 years old or older
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D ETHNICTY 2 63
 Ethnic origin
 U All persons, including children
 V 01 .German
 V 02 .English
 V 03 .Irish
 V 04 .French
 V 05 .Italian
 V 06 .Scottish
 V 07 .Polish
 V 08 .Dutch
 V 09 .Swedish
 V 10 .Norwegian
 V 11 .Russian
 V 12 .Ukrainian
 V 13 .Welsh
 V 14 .Mexican-American
 V 15 .Chicano
 V 16 .Mexican
 V 17 .Puerto Rican
 V 18 .Cuban

DATA	SIZE	BEGIN	DATA	SIZE	BEGIN
V	19	.Central or South American	D TM9618	5	74
V		.(Spanish speaking)			During the past 12 months what
V	20	.Other Spanish			was the total cost of...s tuition
V	21	.Afro-American			and fees?
V	30	.Another group not listed	U Persons 15 and older enrolled in		college, vocational/technical/business
V	39	.Don't know			school or private high school.
D WAVE	1	65	V	00000	.Not applicable
		Wave number within Panel	V	-00003	.None
U		All persons, including children	V	1-04000	.Dollars in school costs
D FILLER	3	66	V	04500	.Amount from \$4000 - 4999
		Blank or zero filler	V	05500	.Amount from \$5000 - 5999
			V	65000	.Amount from \$6000 - 6999
			V	07000	.Amount from \$7000 +
*****			D TM9620	4	79
* TOPICAL MODULE: SCHOOL ENROLLMENT *					During the past 12 months, what was
* AND FINANCING *					the total cost of...s books and
*****					supplies?
D TM9610	1	69	U Persons 15 and older enrolled in		college, vocational/technical/business
		Was ... enrolled in school anytime			school or private high school.
		during the past 12 months? (include	V	0000	.Not applicable
		any regular school, such as elementary,	V	0001-9999	.Dollars
		high school, or college, or any	V	-0003	.None
		vocational, technical or business			
		school.)	D TM9622	1	83
U All persons 15 and older					During the past 12 months, did...
V	0	.Not applicable			live away from home while
V	1	.Yes			attending school?
V	2	.No - End of section	U Persons 15 and older enrolled in		college, vocational/technical/business
D TM9612	2	70			school or private high school.
		At what level or grade was...	V	0	.Not applicable
		enrolled (if enrolled at more than	V	1	.Yes
		one level in the past 12 months,	V	2	.No - skip to TM9626
		check level in which greatest amount			
		of time was spent.)	D TM9624	5	84
U Persons 15 and older enrolled in school					During the past 12 months, what
V	00	.Not applicable			was the total cost for room and
V	01	.Elementary grades 1-8			board while away at school?
V	02	.High school grades 9-12	U Persons 15 and older enrolled in		college, vocational/technical/business
V	03	.College year 1			school or private high school and
V	04	.College year 2			living away from home.
V	05	.College year 3	V	00000	.Not applicable
V	06	.College year 4	V	1-99999	.Dollars
V	07	.College year 5			
V	08	.College year 6+	D TM9626	2	89
V	09	.Vocational school			No educational assistance
V	10	.Technical school			received during the past 12 months
V	11	.Business school	U Persons 15 and older enrolled in		college, vocational/technical/business
V	12	.Other or Don t Know			school or private high school
D TM9614	1	72	V	00	.Not applicable
		Check item T21	V	-03	.None received - End of
		Was...enrolled in elementary school			.Section
		or high school?	D TM9628	1	91
U Persons 15 and older enrolled in school					Educational assistance received
V	0	.Not applicable			during the past 12 months: GI Bill
V	1	.Yes	U Persons 15 and older enrolled in		college, vocational/technical/business
V	2	.No - skip to TM9618			school or private high school, and who
D TM9616	1	73			received educational assistance.
		Was...enrolled in a public school?	V	0	.Not marked as received
U Persons 15 and older enrolled in			V		.or not applicable
		elementary or high school	V	1	.Received
V	0	.Not applicable			
V	1	.Yes - End of section			
V	2	.No			

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM9630 4 92
Percent of total educational assistance received during the past 12 months from the GI bill
U Persons 15 and older who received educational assistance from the GI bill
V 0000 -
0100 .Percent

D TM9632 1 96
Educational assistance received during the past 12 months:
Other veteran's educational assistance programs (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans assistance.)
U Persons 15 and older enrolled in college, vocational/technical/business school or private high school who received educational assistance.
V 0 .Not marked as received
V .or not applicable
V 1 .Received

D TM9634 5 97
Percent of total educational assistance received during the past 12 months from veteran's programs.
U Persons 15 and older who received educational assistance from veteran's programs
V 00000 -
V 00100 .Percent

D TM9636 1 102
Educational assistance received during the past 12 months:
College work study program
U Persons 15 and older enrolled in college, vocational/technical/business school or private high school who received educational assistance
V 0 .Not marked as received
V .or not applicable
V 1 .Received

D TM9638 4 103
Percent of total educational assistance received during the past 12 months from college work study program
U Persons 15 and older who received educational assistance from college work study program
V 0000 -
V 0100 .Percent

D TM9640 1 107
Educational assistance received during the past 12 months: A Pell grant
U Persons 15 and older enrolled in college, vocational/technical/business school or private high school who received educational assistance.
V 0 .Not marked as received
V .or not applicable
V 1 .Received

DATA SIZE BEGIN

D TM9642 4 108
Percent of total educational assistance received during the past 12 months from a Pell grant
U Persons 15 and older who received educational assistance from Pell grant
V 0000 -
V 0100 .Percent

D TM9644 1 112
Educational assistance received during the past 12 months: A Supplemental Educational Opportunity Grant (SEOG)
U Persons 15 and older enrolled in college, vocational/technical/business school or private high school and received educational assistance.
V 0 .Not marked as received
V .or not applicable
V 1 .Received

D TM9646 4 113
Percent of total educational assistance received during the past 12 months from SEOG
U Persons 15 and older who received educational assistance from SEOG
V 0000 -
V 0100 .Percent

D TM9648 1 117
Educational assistance received during the past 12 months: A national direct student loan (NDSL) or Perkin's Loan
U Persons 15 and older enrolled in college, vocational/technical/business school or private high school who received educational assistance
V 0 .Not marked as received
V .or not applicable
V 1 .Received

D TM9650 4 118
Percent of total educational assistance received during the past 12 months from a national direct student loan or Perkin's loan
U Persons 15 and older who received educational assistance from a national direct student loan or Perkin's loan
V 0000 -
V 0100 .Percent

D TM9652 1 122
Educational assistance received during the past 12 months: A guaranteed student loan or Stafford loan
U Persons 15 or older enrolled in college, vocational/technical/business school or private high school who received educational assistance
V 0 .Not marked as received
V .or not applicable
V 1 .Received

DATA DICTIONARY

DATA SIZE BEGIN

D TM9654 5 123
 Percent of total educational assistance
 received during the past 12 months from
 a guaranteed student loan or Stafford loan

U Persons 15 or older who received educational
 assistance from a guaranteed student loan
 or Stafford loan

V 00000 -

V 00100 .Percent

D TM9656 1 128

Educational assistance received
 during the past 12 months: A Parent
 Loan for Undergraduate Students (PLUS)
 or Supplemental Loan for Students (SLS)

U Persons 15 and older enrolled in
 college, vocational/technical/business
 school or private high school who
 received educational assistance

V 0 .Not marked as received

V .or not applicable

V 1 .Received

D TM9658 4 129

Percent of total educational
 assistance received during the
 past 12 months from PLUS or SLS

U Persons 15 and older who received
 educational assistance from JTPA

V 0000 -

V 0100 .Percent

D TM9660 1 133

Educational assistance received
 during the past 12 months:
 Employer assistance

U Persons 15 and older enrolled in
 college, vocational/technical/business
 school or private high school who
 received educational assistance

V 0 .Not marked as received

V .or not applicable

V 1 .Received

D TM9662 5 134

Percent of total educational
 assistance received during the
 past 12 months from employer assistance

U Persons 15 and older who received
 educational assistance from employer

V 00000 -

V 00100 .Percent

D TM9664 1 139

Educational assistance received
 during the past 12 months:
 A fellowship or scholarship

U Persons 15 and older enrolled in
 college, vocational/technical/business
 school or private high school who
 received educational assistance.

V 0 .Not marked as received

V .or not applicable

V 1 .Received

D TM9666 5 140

Percent of total educational
 assistance received during the
 past 12 months from a fellowship
 or scholarship

U Persons 15 and older who received
 a fellowship or scholarship

V 00000 -

V 00100 .Percent

DATA SIZE BEGIN

D TM9668 1 145

Educational assistance received
 during the past 12 months: A
 tuition reduction

U Persons 15 and older enrolled in
 college, vocational/technical/business
 school or private high school who
 received educational assistance

V 0 .Not marked as received

V .or not applicable

V 1 .Received

D TM9670 4 146

Percent of total educational
 assistance received during the past
 12 months from tuition reduction

U Persons 15 and older who received
 tuition reduction

V 0000 -

V 0100 .Percent

D TM9672 1 150

Educational assistance received
 during the past 12 months: Anything
 else (other than assistance from
 relatives and friends), including
 the JTPA Training Program, Income
 Contingent Loan, etc.

U Persons 15 and older enrolled in
 college, vocational/technical/business
 school or private high school who
 received educational assistance

V 0 .Not marked as received

V .or not applicable

V 1 .Received

D TM9674 5 151

Percent of total educational
 assistance received during the past
 12 months from other sources

U Persons 15 and older who received
 educational assistance from other
 sources

V 00000 -

V 00100 .Percent

D TMETCNT 2 156

Number of non-blank entries
 (including check items) on
 the respondent's topical module
 record.

U All persons 15 or older

V 01-99 .Number of items

D IMP9612 1 158

Imputation flag for 'TM9612'

V 0 .Not imputed

V 1 .Imputed

D IMP9616 1 159

Imputation flag for 'TM9616'

V 0 .Not imputed

V 1 .Imputed

D IMP9618 1 160

Imputation flag for 'TM9618'

V 0 .Not imputed

V 1 .Imputed

D IMP9620 1 161

Imputation flag for 'TM9620'

V 0 .Not imputed

V 1 .Imputed

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D IMP9622 1 162
Imputation flag for 'TM9622'
V 0 .Not imputed
V 1 .Imputed

D IMP9624 1 163
Imputation flag for 'TM9624'
V 0 .Not imputed
V 1 .Imputed

D IMP9630 1 164
Imputation flag for 'TM9630'
V 0 .Not imputed
V 1 .Imputed

D IMP9634 1 165
Imputation flag for 'TM9634'
V 0 .Not imputed
V 1 .Imputed

D IMP9638 1 166
Imputation flag for 'TM9638'
V 0 .Not imputed
V 1 .Imputed

D IMP9642 1 167
Imputation flag for 'TM9642'
V 0 .Not imputed
V 1 .Imputed

D IMP9646 1 168
Imputation flag for 'TM9646'
V 0 .Not imputed
V 1 .Imputed

D IMP9650 1 169
Imputation flag for 'TM9650'
V 0 .Not imputed
V 1 .Imputed

D IMP9654 1 170
Imputation flag for 'TM9654'
V 0 .Not imputed
V 1 .Imputed

DATA SIZE BEGIN

D IMP9658 1 171
Imputation flag for 'TM9658'
V 0 .Not imputed
V 1 .Imputed

D IMP9662 1 172
Imputation flag for 'TM9662'
V 0 .Not imputed
V 1 .Imputed

D IMP9666 1 173
Imputation flag for 'TM9666'
V 0 .Not imputed
V 1 .Imputed

D IMP9670 1 174
Imputation flag for 'TM9670'
V 0 .Not imputed
V 1 .Imputed

D IMP9674 1 175
Imputation flag for 'TM9674'
V 0 .Not imputed
V 1 .Imputed

D TMTEDFIN 5 176
Total amount of educational assistance
received during the past 12 months.
U Persons 15 or older enrolled in college,
vocational/technical/business school or private
high school who received educational assistance
during the past 12 months.

V 1-04000 .Amount of assistance
V 04500 .Amount from \$4100 - 4999
V 05500 .Amount from \$5000 - 5999
V 06500 .Amount from \$6000 - 6999
V 07500 .Amount from \$7000 - 7999
V 08500 .Amount from \$8000 - 8999
V 09500 .Amount from \$9000 - 9999
V 10500 .Amount from \$10000 - 10999
V 11000 .Amount from \$11000 +
V 00000 .Not applicable

SIPP 1993 WAVE 5 TOPICAL MODULE RESEARCH DATA DICTIONARY

DATA SIZE BEGIN

D SUSEQNUM 5 1
 Sequence number of sample unit
 primary sort key
 Not to be used for matching
 observations
 U All persons, including children

D ID 9 6
 Sample unit identifier
 This identifier is created by scrambling
 together the psu, segment and serial
 numbers of the original sample address.
 U All persons, including children

D ROTATION 1 15
 Rotation group
 V 1 .Interview month: September 1994
 V 2 .Interview month: June 1994
 V 3 .Interview month: July 1994
 V 4 .Interview month: August 1994
 U All persons, including children

D STATE 2 16
 Fips state code
 U All persons, including children
 V 01 .Alabama
 V 04 .Arizona
 V 05 .Arkansas
 V 06 .California
 V 08 .Colorado
 V 09 .Connecticut
 V 10 .Delaware
 V 11 .District of Columbia
 V 12 .Florida
 V 13 .Georgia
 V 15 .Hawaii
 V 17 .Illinois
 V 18 .Indiana
 V 20 .Kansas
 V 21 .Kentucky
 V 22 .Louisiana
 V 24 .Maryland
 V 25 .Massachusetts
 V 26 .Michigan
 V 27 .Minnesota
 V 28 .Mississippi
 V 29 .Missouri
 V 31 .Nebraska
 V 32 .Nevada
 V 33 .New Hampshire
 V 34 .New Jersey
 V 35 .New Mexico
 V 36 .New York
 V 37 .North Carolina
 V 39 .Ohio
 V 40 .Oklahoma
 V 41 .Oregon
 V 42 .Pennsylvania
 V 44 .Rhode Island
 V 45 .South Carolina
 V 47 .Tennessee
 V 48 .Texas
 V 49 .Utah
 V 51 .Virginia
 V 53 .Washington
 V 54 .West Virginia
 V 55 .Wisconsin
 V 61 .Maine,Vermont
 V 62 .Iowa,North Dakota,South Dakota
 V 63 .Alaska,Idaho,Montana,Wyoming

DATA SIZE BEGIN

D PINX 2 18
 Person index from core
 Not to be used for matching observations
 U All persons, including children

D ADDID 2 20
 Current address Id. - This field
 differentiates households within
 the same sample unit (i.e., the
 same psu, segment and serial numbers)
 that is, households which originate
 out of an original sample household
 U All persons, including children

D ITEM36B 2 22
 Household Interview status code
 U All persons, including children
 V 01 .Interviewed
 * Type A noninterview
 V 02 .No one home
 V 03 .Temporarily absent
 V 04 .Refused
 V 05 .Unable to locate
 V 06 .Other Type A
 * Type B noninterview (Wave 2+)
 V 16 .Type B Entire HH institutionalized
 .or temporarily ineligible
 * Type C noninterview (Wave 2+)
 V 22 .Deleted (sample adjustment, error)
 V 23 .Entire household deceased, moved
 .out of country, or living in
 .armed forces barracks
 * Type D noninterview (Wave 2+)
 V 24 .Moved, address unknown
 V 25 .Moved within country beyond
 .limit
 V 26 .All sample persons relisted on
 .new control card(s)
 V 28 .Merged hhlds across panels

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

D PPMIS1 1 25
 Monthly person's interview status:
 Reference month 1
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PPMIS2 1 26
 Monthly person's interview status:
 Reference month 2
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

D PPMIS3 1 27
 Monthly person's interview status:
 Reference month 3
 U All persons, including children
 V 1 .Interview
 V 2 .Non-interview

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D PPMIS4 1 28
Monthly person's interview status:
Reference month 4

U All persons, including children
V 1 .Interview
V 2 .Non-interview

D PPMIS5 1 29
Monthly person's interview status:
Interview month

U All persons, including children
V 1 .Interview
V 2 .Non-interview

D ENTRY 2 30
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
Person number
U All persons, including children

D FINALWGT 12 35
Person weight (interview month)
There are four implied decimal places.
U All persons, including children

D RRP 1 47
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 subfamily
(secondary family)
V 7 .Non-relative of household
.reference person and not related
.to anyone else in the household
(secondary individual)

D AGE 3 48
Age
U All persons, including children
V 000 .Less than 1 full year
V 001 .1 year
V .etc., topcoded to 83

D SEX 1 51
Sex
U All persons, including children
V 1 .Male
V 2 .Female

D RACE 1 52
Race
U All persons, including children
V 1 .White
V 2 .Black

DATA SIZE BEGIN

V 3 .American Indian, Eskimo or Aleut
V 4 .Asian or Pacific Islander

D MS 1 53
Marital status
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 All persons, including children
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 GRDCMPL 1 62
Did he/she complete that grade
U Persons 15 years old or older
V 0 .Not applicable
V 1 .Yes
V 2 .No

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

DATA DICTIONARY

DATA SIZE BEGIN

D WAVE 1 65
Wave of the panel
U All persons, including children

D FILLER1 3 66
Blank or Zero filler

* TOPICAL MODULE: ANNUAL INCOME AND *
* RETIREMENT ACCOUNTS *

D TM8000 1 69
Check item T1
Did the respondent own at least one
business during waves 1-5
U Persons 15 years of age or older
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?
U Persons 15 years of age or older who
did not own a business during this panel
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
1993? Include farms
U Persons 15 years of age or older who
were not interviewed for all waves 1-4
and did not own a business during this
panel
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9330

D TM8006 2 72
How many different businesses did
... own and operate during calendar
year 1993?
U Persons 15 and older who owned and
operated a business during the panel
V -03 .None
V 00 .Not applicable
V 01 .1 business
V 02 .2 businesses
V 03 .3 + businesses

* The next 27 variables TMIND1-TM8020, *
* TM8104-TM8126, TM8202-TM8220 refer to *
* the respondent's first business. *
* Respondents were asked to report up to *
* two businesses, ranking them according *
* to net income beginning with the business *
* providing the largest net income. *

D TMIND1 3 74
Three digit industry code for
business 1 in TM8010. Industry coding
was not done for any observation.
U Persons 15 or older who owned and operated
a business during 1993
V 000 .Not applicable or not coded

DATA SIZE BEGIN

D TM8010 2 77
Check item T3 for business 1
Business 1 ID number
U Persons 15 or older who owned and operated a
business during 1993
V -03 .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 1
Has information about business 1
already been obtained in an inter-
view for another household member?
U Persons 15 or older who owned and
operated a business during 1993
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8018

D TM8014 3 80
Person number of other owner of
business 1 who reported information
U Persons 15 or older who owned and
operated a business during 1993 in
for which information has already
been obtained
V 000 .Not applicable
V 101-599 .Person number

D TM8016 2 83
Business ID number of business 1
for other owner who reported
information
U Persons 15 or older who owned and
operated a business in 1993 for which
information has already been obtained
V -03 .None - skip to TM8274
V 00 .Not applicable
V 01-09 .ID number of business -
V .skip to TM8274

D TM8018 2 85
What was the form of business 1 -
was it a sole proprietorship, a
partnership, or a corporation?
U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere
V -01 .Don't know
V 00 .Not applicable
V 01 .Sole proprietorship
V 02 .Partnership
V 03 .Corporation

D TM8020 1 87
Was business 1 primarily located
in ...'s own home or somewhere else?
U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere
V 0 .Not applicable
V 1 .Own home
V 2 .Somewhere else

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM8104 1 88
Check item T5 for business 1
Was business 1 a sole proprietorship
(see TM8018)

U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere

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
business 1

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere

V -01 .Don't know - skip to TM8116
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM8116

D TM8108 3 91
Person number of other household
member who was an owner of business 1
(first co-owner)

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 that is
part-owned by other household members.
Information on this business has not
been obtained elsewhere.

V 000 .Not applicable
V 101-599 .Person number

D TM8110 3 94
Person number of other household
member who was an owner of
business 1 (second co-owner)

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 that is
part-owned by other household members.
Information on this business has not
been obtained elsewhere.

V 000 .Not applicable
V 101-599 .Person number

D TM8112 1 97
Was this business 1 owned
entirely by members of this
household?

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 that is
part-owned by other household members.
Information on this business has not
been obtained elsewhere.

V 0 .Not applicable
V 1 .Yes - skip to TM8116
V 2 .No

DATA SIZE BEGIN

D TM8114 2 98
What percentage of business 1
was owned by members of this
household?

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 that is not
owned entirely by members of this
household. Information on this
business has not been obtained
elsewhere.

V -01 .Don't know
V 00 .Not applicable
V 01 .1-50 Percent
V 02 .51-100 Percent

D TM8116 2 100
What percentage of business 1
did ... own in ...'s own name?

U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere

V -01 .Don't know
V 00 .Not applicable
V 01 .1-25 Percent
V 02 .26-49 Percent
V 03 .50-100 Percent

D TM8118 6 102
What were the gross receipts of
business 1 in 1993?

U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere

V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 1-100000 .Dollars in gross receipts

D TM8120 6 108
What were the total expenses of
business 1 in 1993?

U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere

V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 1-100000 .Dollars in total expenses

D TM8122 1 114
Check item T6 for business 1
Is "Don't know" marked in either
TM8118 or TM8120?

U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere

V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8126

DATA DICTIONARY

DATA SIZE BEGIN

D TM8124 1 115
If we were to call you back later
could you provide us with an
estimate of TM8118 and/or TM8120
U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere. Amounts not reported
for both TM8118 and TM8120
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM8126 1 116
Check item T7 for business 1
Was business 1 a sole proprietorship
(see TM8018)
U Persons 15 or older who owned and
operated a business during 1993 for
which information has not been obtained
elsewhere.
V 0 .Not applicable
V 1 .Yes - skip to TM8274
V 2 .No

D TM8202 6 117
Respondent's net income from
business 1 in 1993
U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere
V -000001 .Don't know
V -000002 .Refused - skip to TM8208
V -000003 .None - skip to TM8208
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss -
V .skip to TM8208

D TM8206 1 123
If we were to call back later
could you provide us with an
estimate of TM8202
U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere. Amount not reported for
TM8202
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM8208 1 124
Check item T8 for business 1
Were any other household members
part owners of business 1
U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8274

DATA SIZE BEGIN

D TM8210 2 125
Apart from the net income already
reported for ..., did (other house-
hold owners) receive any net income
in 1993 from business 1
U Persons 15 or older who owned and
operated a business (exclude sole
proprietorships) in 1993 for which
information has not been obtained
elsewhere. Other members of the household
were part-owners (see TM8106-TM8110).
V -01 .Don't know - skip to TM8274
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM8274

D TM8212 3 127
Person number of first co-owner of
business 1
U Persons 15 or over who owned and operated
a business (exclude sole proprietorships)
in 1993 that is part-owned by other household
members who received income from the business
in 1993. Information on this business has
not been obtained elsewhere.
V 000 .Not applicable
V 101-599 .Person number

D TM8214 6 130
Amount of net income or loss from
business 1 for first co-owner
U Persons 15 or over who owned and operated
a business (exclude sole proprietorships)
in 1993 that is part-owned by other household
members who received income from the business
in 1993. Information on this business has
not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused
V -000003 .None
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss

D TM8218 3 136
Person number of second co-owner of
business 1
U Persons 15 or over who owned and operated
a business (exclude sole proprietorships)
in 1993 that is part-owned by other household
members who received income from the business
in 1993. Information on this business has
not been obtained elsewhere.
V 000 .Not applicable
V 101-599 .Person number

D TM8220 6 139
Amount of net income or loss from
business 1 for second co-owner
U Persons 15 or over who owned and operated
a business (exclude sole proprietorships)
in 1993 that is part-owned by other household
members who received income from the business
in 1993. Information on this business has
not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused
V -000003 .None
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM8274 1 145
Check item T9
Did the respondent report a second business?
U Persons who owned and operated a business
V 0 .Not applicable
V 1 .Yes - skip to TM8060
V 2 .No - skip to TM9330

* The next 27 variables TMIND2-TM8070, *
* TM8154-TM8176, TM8252-TM8270 refer to *
* the respondent's second business. *

D TMIND2 3 146
Three digit industry code for business 2 in TM8060. Industry coding was not done for any observation.
U Persons 15 or older who owned and operated a second business during 1993
V 000 .Not applicable, not coded

D TM8060 2 149
Check item T3 for business 2
Business 2 ID number
U Persons 15 or older who owned and operated a second business during 1993
V -03 .Not listed on control card
V 00 .Not applicable
V 01-09 .ID number of business

D TM8062 1 151
Check item T4 for business 2
Has information about business 2 already been obtained in an interview for another household member?
U Persons 15 or older who owned and operated a second business during 1993
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8068

D TM8064 3 152
Person number of other owner of business 2 who reported information
U Persons 15 or older who owned and operated a second business during 1993 for which information has already been obtained
V 000 .Not applicable
V 101-599 .Person number

D TM8066 2 155
Business ID number of business 2 for other owner who reported information
U Persons 15 or older who owned and operated a second business during 1993 for which information has already been obtained
V -03 .None - skip to TM8276
V 00 .Not applicable
V 01-09 .ID number of business - skip to TM8276
V .to TM8276

DATA SIZE BEGIN

D TM8068 2 157
What was the form of business 2
- was it a sole proprietorship, a partnership, or a corporation?
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .Sole proprietorship
V 02 .Partnership
V 03 .Corporation

D TM8070 1 159
Was business 2 primarily located in ...'s own home or somewhere else?
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Own home
V 2 .Somewhere else

D TM8154 1 160
Check item T5 for business 2
Was business 2 a sole proprietorship (see TM8086)
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Yes - skip to TM8168
V 2 .No

D TM8156 2 161
Were any other members of this household part owners of business 2
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere.
V -01 .Don't know - skip to TM8166
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM8166

D TM8158 3 163
Person number of other household member who was an owner of business 2 (first co-owner)
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 that is part-owned by other household members.
Information on this business has not been obtained elsewhere.
V 000 .Not applicable
V 101-599 .Person number

D TM8160 3 166
Person number of other household member who was an owner of business 2 (second co-owner)
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 that is part-owned by other household members. Information on this business has not been obtained elsewhere.
V 000 .Not applicable
V 101-599 .Person number

DATA DICTIONARY

DATA SIZE BEGIN

D TM8162 1 169
Was business 2 owned entirely by members of this household?
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 that is part-owned by other household members. Information on this business has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Yes - skip to TM8166
V 2 .No

D TM8164 2 170
What percentage of business 2 was owned by members of this household?
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 that is not owned entirely by members of this household. Information on this business has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .1-50 Percent
V 02 .51-100 Percent

D TM8166 2 172
What percentage of business 2 did ... own in ...'s own name?
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .1-25 Percent
V 02 .26-49 Percent
V 03 .50-100 Percent

D TM8168 6 174
What were the gross receipts of business 2 in 1993?
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 1-100000 .Dollars in gross receipts

D TM8170 6 180
What were the total expenses of business 2 in 1993?
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 1-100000 .Dollars in total expenses

D TM8172 1 186
Check item T6 for business 2
Is "Don't know" marked in either TM8168 or TM8170?
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8176

DATA SIZE BEGIN

D TM8174 1 187
If we were to call you back later could you provide us with an estimate of TM8168 and/or TM8170
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere. Amounts not reported for both TM8168 and TM8170.
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM8176 1 188
Check item T7 for business 2
Was business 2 a sole proprietorship (see TM8068)
U Persons 15 or older who owned and operated a second business during 1993 for which information has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Yes - skip to TM8276
V 2 .No

D TM8252 6 189
Respondent's net income from business 2 in 1993
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused - skip to TM8258
V -000003 .None - skip to TM8258
V 000000 .Not applicable
V 1-100000 .Net income or loss -
V .skip to TM8258

D TM8256 1 195
If we were to call back later could you provide us with an estimate of TM8252
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere. Amount not reported for TM8252.
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM8258 1 196
Check item T8 for business 2
Were any other household members part owners of business 2
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM8276

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM8260 2 197
 Apart from the net income already reported for ..., did (other household owners) receive any net income in 1993 from business 2
 U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere. Other members in the household who were part-owners (see TM8156-TM8160)
 V -01 .Don't know - skip to TM8276
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM8276

D TM8262 3 199
 Person number of first co-owner of business 2
 U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
 V 000 .Not applicable
 V 101-599 .Person number

D TM8264 6 202
 Amount of net income or loss from business 2 for first co-owner
 U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
 V -000001 .Don't know
 V -000002 .Refused
 V -000003 .None
 V 000000 .Not applicable
 V 1-100000 .Dollars in income or loss

D TM8268 3 208
 Person number of second co-owner of business 2
 U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
 V 000 .Not applicable
 V 101-599 .Person number

D TM8270 6 211
 Amount of net income or loss from business 2 for second co-owner
 U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
 V -000001 .Don't know
 V -000002 .Refused
 V -000003 .None
 V 000000 .Not applicable
 V 1-100000 .Dollars in income or loss

D TM8276 1 217
 Check item T10
 Is the number of businesses marked in TM8006 three or more?
 U Persons 15 or over who owned and operated two businesses in 1993
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9330

DATA SIZE BEGIN

D TM8278 6 218
 Respondent's net income or loss from other businesses in 1993
 U Persons 15 or over who owned and operated 3 or more businesses in 1993
 V -000001 .Don't know
 V -000002 .Refused
 V -000003 .None
 V 000000 .Not applicable
 V 1-100000 .Dollars in income or loss

D TM9330 2 224
 Does ... have an individual retirement account (IRA) in ...'s own name?
 U Persons 15 or over
 V -01 .Don't know - skip to TM9358
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9358

D TM9332 2 226
 Did ... make any contributions to IRA accounts which applied to ...'s 1993 tax return?
 U Persons 15 or over with IRA in own name
 V -01 .Don't know - skip to TM9336
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9336

D TM9334 5 228
 How much were ...'s contributions to IRA accounts which applied to ...'s 1993 tax return? (Form 1040 line 24a; Form 1040A, line 15a)
 U Persons 15 or over who made contributions to IRA accounts which applied to 1993 tax return
 V -00001 .Don't know
 V -00002 .Refused
 V 00000 .Not applicable
 V 1-30000 .Dollars in contributions

D TM9336 2 233
 Did ... make any withdrawals from ...'s IRA accounts during 1993? If funds were rolled over within 60 days of the withdrawal, mark "No"
 U Persons 15 or older with IRA in own name
 V -01 .Don't know - skip to TM9340
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9340

D TM9338 5 235
 How much did ... withdraw from IRA accounts during 1993?
 U Persons 15 or older who made IRA withdrawals in 1993
 V -00001 .Don't know
 V -00002 .Refused
 V 00000 .Not applicable
 V 1-30000 .Dollars in withdrawals

D TM9340 5 240
 Including all IRA accounts in ...'s own name, how much did ...'s IRA accounts earn during 1993?
 U Persons 15 or older with IRA in own name
 V -00001 .Don't know
 V -00002 .Refused

DATA DICTIONARY

DATA SIZE BEGIN

V 00000 .Not applicable
V 1-30000 .Dollars in earnings

* The next eight fields are possible *
* responses to the question: *
* *
* What types of assets did ... have in *
* ...'s IRA accounts during 1993? *
* *
* V 0 .Not marked as an asset *
* V .or not applicable *
* V 1 .Marked as an asset *

D TM9342 1 245
IRA asset type owned: Certificates of
deposit or other savings certificates
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9344 1 246
IRA asset type owned: Money market funds
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9346 1 247
IRA asset type owned: U.S. government
securities
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9348 1 248
IRA asset type owned: Municipal or corporate
bonds
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9350 1 249
IRA asset type owned: U.S. Savings Bonds
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9352 1 250
IRA asset type owned: Stocks or mutual
fund shares
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9354 1 251
IRA asset type owned: Other assets
U Persons 15 or older with IRA in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9356 1 252
IRA asset type owned: Don't know types of assets
U Persons 15 or older with IRA in own name
V 0 .No or Not applicable
V 1 .Yes, asset type unknown

D TM9358 2 253
Does ... have a KEOGH account in ...'s
own name?
U Persons 15 years of age or over
V -01 .Don't know - skip to TM9385
V 00 .Not applicable

DATA SIZE BEGIN

V 01 .Yes
V 02 .No - skip to TM9385

D TM9360 2 255
Did ... make any contributions to a
KEOGH account which applied to ...'s
1993 tax return?
U Persons 15 or older with KEOGH account
in own name
V -01 .Don't know - skip to TM9364
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9364

D TM9362 5 257
How much were ...'s contributions to
KEOGH accounts which applied to ...'s
1993 tax return? (Form 1040, line 27)
U Persons 15 or older with KEOGH account
who made tax-deductible contributions
which applied to 1993 taxes
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 1-30000 .Dollars in contributions

D TM9364 2 262
Did ... make any withdrawals from ...'s
KEOGH accounts during 1993?
U Persons 15 or older with KEOGH account
in own name
V -01 .Don't know - skip to TM9368
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9368

D TM9366 5 264
How much did ... withdraw from KEOGH
accounts during 1993?
U Persons 15 or older who made withdrawals from KEOGH
account in 1993
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 1-30000 .Dollars in withdrawals

D TM9368 5 269
Including all KEOGH accounts in ...'s
own name, how much did ...'s KEOGH
accounts earn during 1993?
U Persons 15 or older
with KEOGH account in own name
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 1-30000 .Dollars in earnings

D TM9370 1 274
KEOGH asset type owned: Certificates
of deposit or other savings certificates
U Persons 15 or over with KEOGH account in own
name
V 0 .No or not applicable
V 1 .Yes, asset owned

D TM9372 1 275
KEOGH asset type owned: Money market funds
U Persons 15 or over with KEOGH account in own name
V 0 .No or not applicable
V 1 .Yes, asset owned

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM9374 1 276
 KEOGH asset type owned: U.S. government securities
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or not applicable
 V 1 .Yes, asset owned

D TM9376 1 277
 KEOGH asset type owned: Municipal or corporate bonds
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or not applicable
 V 1 .Yes, asset owned

D TM9378 1 278
 KEOGH asset type owned: U.S. Savings Bonds
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or not applicable
 V 1 .Yes, asset owned

D TM9380 1 279
 KEOGH asset type owned: Stocks or mutual fund shares
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or not applicable
 V 1 .Yes, asset owned

D TM9382 1 280
 KEOGH asset type owned: Other assets
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or not applicable
 V 1 .Yes, asset owned

D TM9384 1 281
 KEOGH asset type owned: Don't know types of assets
 U Persons 15 or over with KEOGH account in own name
 V 0 .No or Not applicable
 V 1 .Yes, asset type unknown

D TM9385 1 282
 Are the names of any employers listed for the respondent on the control card
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9390

D TM9386 2 283
 During 1993, did ... participate in a salary reduction plan, sometimes called a 401K plan?
 U Persons 15 or over with at least 1 employer listed on the control card
 V -01 .Don't know - skip to TM9390
 V 00 .Not applicable
 V 01 .Yes
 V 02 .No - skip to TM9390

D TM9388 6 285
 How much did ... contribute to a 401K plan during 1993?
 U Persons 15 or older participating in a 401K plan in 1993
 V -000001 .Don't know
 V -000002 .Refused
 V -000003 .None
 V 000000 .Not applicable
 V 1 - 030000 .Total amount

DATA SIZE BEGIN

D TMEBCNT 3 291
 Number of items with data on the annual income and retirement accounts topical module
 U Persons 15 years of age or over

D FILLER2 3 294
 Blank or zero filler

 * TOPICAL MODULE: TAXES *

D TM9390 1 297
 Check item T12
 Has tax information for ... already been obtained in an interview for a spouse with whom ... filed a joint return?
 U Persons 15 years of age or over
 V 0 .Not applicable
 V 1 .Yes - skip to TM9486
 V 2 .No

D TM9392 1 298
 Did ... file a Federal income tax return for 1993?
 U Persons 15 or older for whom tax information has not been obtained elsewhere.
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No - skip to TM9486

D TM9394 1 299
 Do you have a copy of the 1993 Federal tax form or a worksheet that you could refer to for the next few questions?
 U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
 V 0 .Not applicable
 V 1 .Yes
 V 2 .No

D TM9396 2 300
 What was ...'s filing status on ...'s 1993 Federal tax return?
 U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
 V 00 .Not applicable
 V 01 .Single taxpayer
 V 02 .Married, filing a joint return
 V 03 .Married, filing separately
 V 04 .Unmarried head of household or .Qualifying widow(er) with .dependent child(ren)
 V 06 .Don't know

D TM9398 2 302
 What were the total number of exemptions claimed on ...'s 1993 Federal tax return?
 U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
 V -01 .Don't know
 V 01 .1 exemption - skip to TM9420
 V 02 .2 exemptions
 V 03 .3-5 exemptions
 V 04 .6 or more exemptions

DATA DICTIONARY

DATA SIZE BEGIN

D TM9400 1 304
Check item T13
Number of current household members
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere. Excludes those claiming one exemption.
V 0 .Not applicable
V 1 .One - skip to TM9414
V 2 .Two or more

D TM9402 3 305
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person one
U Persons 15 or older who filed a 1993 Federal tax return-excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 599 .Person number

D TM9404 3 308
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person two
U Persons 15 or older who filed a 1993 Federal tax return-excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 599 .Person number

D TM9406 3 311
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person three
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 599 .Person number

D TM9408 3 314
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person four
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 599 .Person number

D TM9410 3 317
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person five
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 599 .Person number

D TM9412 1 320
Is one in the household besides the respondent has been claimed as an exemption
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .No one in the household

DATA SIZE BEGIN

D TM9414 1 321
Did ... claim exemptions for any persons who lived outside of ...'s home for the entire year?
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9420

D TM9416 1 322
What was the relationship of the dependent (referred to in TM9414) to the respondent: First dependent
U Persons 15 or older who filed a 1993 Federal tax return and claimed exemptions for persons who lived outside the household. Tax information has not been collected elsewhere
V 0 .Not applicable
V 1 .Parent
V 2 .Child
V 3 .Brother/sister
V 4 .Other

D TM9418 1 323
What was the relationship of the dependent (referred to in TM9414) to the respondent: Second dependent
U Persons 15 or older who filed a 1993 Federal tax return and claimed exemptions for persons who lived outside the household. Tax information has not been collected elsewhere
V 0 .Not applicable
V 1 .Parent
V 2 .Child
V 3 .Brother/sister
V 4 .Other

D TM9420 2 324
Did ... file Form 1040 (long form) or one of the short forms, 1040A or 1040EZ?
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
V -01 .Don't know - 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

D TM9422 2 326
Did the respondent file in 1993 a Schedule A - itemized deductions
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

D TM9424 2 328
Did the respondent file in 1993 a Schedule D - capital gains and losses
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM9428 1 330
Check item T14
Does the respondent have a copy of ...'s federal income tax form or a worksheet to refer to?
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM9430 1 331
Check item T15
Is "Form 1040" marked in TM9420
U Persons 15 or older who filed a 1993 Form 1040 tax return. Tax information has not been obtained elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9462

D TM9432 1 332
Check item T16
Is "Schedule A, itemized deductions" marked "yes" in TM9422?
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9446

D TM9434 6 333
How much were ...'s (and ...'s husband's/wife's) itemized deductions for 1993? (Schedule A, line 26)
U Persons 15 or older who filed a 1993 Form 1040 Schedule A. Tax information has not been collected elsewhere.
V -00001 .Don't know
V -00002 .Refused - skip to TM9458
V 00000 .Not applicable
V 000001 .1 - 2999
V 000002 .3000 - 3999
V 000003 .4000 - 4999
V 000004 .5000 - 5999
V 000005 .6000 - 6999
V 000006 .7000 - 7999
V 000007 .8000 - 8999
V 000008 .9000 - 9999
V 000009 .10000 - 10999
V 000010 .11000 - 11999
V 000011 .12000 - 12999
V 000012 .13000 - 13999
V 000013 .14000 - 16999
V 000014 .17000 - 21999
V 000015 .22000+

D TM9446 1 339
On ...'s form 1040, did ... (and ...'s husband/wife) claim a child and dependent care expense credit (Form 1040, line 41)
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No

DATA SIZE BEGIN

D TM9448 6 340
What was the amount of the child and dependent care expense credit claimed?
U Persons 15 or older who claimed a child and dependent care expense credit on their 1993 Form 1040. Tax information has not been collected elsewhere.
V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 000001 .1-49
V 000002 .50-99
V 000003 .100-149
V 000004 .150-199
V 000005 .200-249
V 000006 .250-299
V 000007 .300-349
V 000008 .350-399
V 000009 .400-449
V 000010 .450-499
V 000011 .500-599
V 000012 .600-699
V 000013 .700-799
V 000014 .800+

D TM9450 1 346
On ...'s Form 1040, did ... (and ...'s husband/wife) claim a credit for the elderly or the disabled
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No

D TM9452 5 347
What was the amount of the elderly or disabled credit claimed.
U Persons 15 or older who claimed an elderly or disabled credit on their 1993 Form 1040. Tax information has not been collected elsewhere.
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 00001 .1-99
V 00002 .100-499
V 00003 .500+

D TM9458 1 352
Check item T17
Is "Schedule D, capital gains and losses" marked "yes" in item TM9424
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9462

D TM9460 6 353
How much were ...'s (and ...'s husband/wife's) capital gains or losses from the sale or exchange of personal assets for 1993? (Form 1040, line 13)
U Persons 15 or older who filed a 1993 Form 1040 Schedule D and have a copy. Tax information has not been collected elsewhere.
V -000001 .Don't know
V -000002 .Refused
V -000003 .None

DATA DICTIONARY

DATA	SIZE	BEGIN
V	000000	.Not applicable
V	000001	.1-99
V	000002	.100-199
V	000003	.200-299
V	000004	.300-499
V	000005	.500-699
V	000006	.700-999
V	000007	.1000-1299
V	000008	.1300-1999
V	000009	.2000-2999
V	000010	.3000-3999
V	000011	.4000-5999
V	000012	.6000-9999
V	000013	.10000-14999
V	000014	.15000+
V	000015	.-4 or less (losses)
D TM9462 6 359		
What was ...'s (and ...'s husband's/wife's) adjusted gross income in 1993? (Adjusted gross income is total income less certain types of adjustments and exclusions.) (Form 1040, line 31; Form 1040A, line 16; Form 1040EZ, line 4)		
U Persons 15 or older who filed a 1993 tax return. Tax information has not been obtained elsewhere.		
V	-000003	.None - skip to TM9472
V	-000002	.Refused - skip to TM9472
V	-000001	.Don't know - skip to TM9472
V	000000	.Not applicable
V	000001	.[1-999]
V	000002	.[1000-1199]
V	000003	.[1200-1399]
V	000004	.[1400-1599]
V	000005	.[1600-1799]
V	000006	.[1800-1999]
V	000007	.[2000-2199]
V	000008	.[2200-2399]
V	000009	.[2400-2599]
V	000010	.[2600-2799]
V	000011	.[2800-2999]
V	000012	.[3000-3499]
V	000013	.[3500-3999]
V	000014	.[4000-4499]
V	000015	.[4500-4999]
V	000016	.[5000-5499]
V	000017	.[5500-5999]
V	000018	.[6000-6499]
V	000019	.[6500-6999]
V	000020	.[7000-7499]
V	000021	.[7500-7999]
V	000022	.[8000-9999]
V	000023	.[10000-14999]
V	000024	.[15000-19999]
V	000025	.[20000-24999]
V	000026	.[25000-29999]
V	000027	.[30000-34999]
V	000028	.[35000-39999]
V	000029	.[40000-49999]
V	000030	.[50000-59999]
V	000031	.[60000-69999]
V	000032	.[70000-74999]
V	000033	.[75000+]
V	000034	.-4 or less (losses)

DATA	SIZE	BEGIN
D TM9464 6 365		
What was ...'s (and ...'s husband's/wife's) net tax liability in 1993? (Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments.) (Form 1040, line 53; Form 1040A, line 27; Form 1040EZ, line 8)		
U Persons 15 or older who filed a 1993 tax return. Tax information has not been obtained elsewhere.		
V	-000003	.None
V	-000002	.Refused
V	-000001	.Don't know
V	000000	.Not applicable
V	000001	.[1-49]
V	000002	.[50-99]
V	000003	.[100-149]
V	000004	.[150-199]
V	000005	.[200-299]
V	000006	.[300-399]
V	000007	.[400-499]
V	000008	.[500-599]
V	000009	.[600-699]
V	000010	.[700-799]
V	000011	.[800-899]
V	000012	.[900-999]
V	000013	.[1000-1199]
V	000014	.[1200-1399]
V	000015	.[1400-1599]
V	000016	.[1600-1799]
V	000017	.[1800-1999]
V	000018	.[2000-2199]
V	000019	.[2200-2399]
V	000020	.[2400-2599]
V	000021	.[2600-2799]
V	000022	.[2800-2999]
V	000023	.[3000-3499]
V	000024	.[3500-3999]
V	000025	.[4000-4499]
V	000026	.[4500-4999]
V	000027	.[5000-5499]
V	000028	.[5500-5999]
V	000029	.[6000-6499]
V	000030	.[6500-6999]
V	000031	.[7000-7499]
V	000032	.[7500-7999]
V	000033	.[8000-9999]
V	000034	.[10000-13999]
V	000035	.[14000 +]

D TM9466 1 371		
Check item T18		
Amount of adjusted gross income reported on 1993 tax return		
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.		
V	0	.Not applicable
V	1	.\$23,050 or more - skip to TM9486
V	2	.Less than \$23,050

D TM9472 2 372		
Did ... claim an earned income credit on ...'s 1993 Federal income tax return?		
U Persons 15 or older who filed a 1993 Federal tax return with adjusted gross income less than \$23,050. Tax information has not been collected elsewhere.		
V	-01	.Don't know - skip to TM9486
V	00	.Not applicable
V	01	.Yes
V	02	.No - skip to TM9486

SIPP 1993 TOPICAL MODULE WAVE 5

DATA SIZE BEGIN

D TM9474 6 374
What was the amount of earned income credit claimed? (Form 1040, line 56; Form 1040A, line 28c)
U Persons 15 or older who claimed an earned income credit on their 1993 Federal tax return. Tax information has not been collected elsewhere.
V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 000001 .-\$1-\$49
V 000002 .-\$50-\$99
V 000003 .-\$100-\$149
V 000004 .-\$150-\$199
V 000005 .-\$200-\$249
V 000006 .-\$250-\$299
V 000007 .-\$300-\$349
V 000008 .-\$350-\$399
V 000009 .-\$400-\$449
V 000010 .-\$450-\$499
V 000011 .-\$500-\$549
V 000012 .-\$550-\$599
V 000013 .-\$600-\$649
V 000014 .-\$650-\$699
V 000015 .-\$700-\$749
V 000016 .-\$750-\$799
V 000017 .-\$800-\$849
V 000018 .-\$850-\$899
V 000019 .-\$900-\$949
V 000020 .-\$950-\$999
V 000021 .-\$1000 or more

D TM9486 1 380
Check item T19
Housing tenure: Respondent's living quarters
U Persons 15 years of age or older
V 0 .Not applicable
V 1 .Owned or being bought
V 2 .Rented for cash - end of section
V 3 .Occupied without cash payment - end of section

D TM9488 1 381
Check item T20
Interview status of ...'s spouse
U Persons 15 or older 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 - end of section

D TM9490 1 382
Did ... pay any property taxes on ...'s residence(s) in 1993?
U Persons 15 or older with living quarters owned or being bought. If married, property tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - end of section

DATA SIZE BEGIN

D TM9492 1 383
Did ... pay the 1993 property taxes jointly with someone else living here?
U Persons 15 or older with living quarters owned or being bought who paid property taxes in 1993. If married, property tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9498

D TM9494 3 384
Respondent made joint property taxes with:
Person number of Person one
U Persons 15 or older with living quarters owned or being bought who paid 1993 property taxes jointly with someone in the household. If married, property tax information has not been collected elsewhere.
V 000 .Not applicable
V 101-599 .Person number

D TM9496 3 387
Respondent made joint property taxes with:
Person number of person two
U Persons 15 or older with living quarters owned or being bought who paid 1993 property taxes jointly with someone in the household. If married, property tax information has not been collected elsewhere.
V 000 .Not applicable
V 101-599 .Person number

D TM9498 6 390
What was the property tax bill for ...'s residence(s) in 1993? (Schedule A, line 6)
U Persons 15 or older with living quarters owned or being bought who paid property taxes in 1993. If married, property tax information has not been collected elsewhere.
V -000001 .Don't know
V -000002 .Refused
V 000000 .Not applicable
V 000001 .Amount under \$100
V 000002 .Amount from \$100-\$199
V 000003 .Amount from \$200-\$299
V 000004 .Amount from \$300-\$399
V 000005 .Amount from \$400-\$499
V 000006 .Amount from \$500-\$599
V 000007 .Amount from \$600-\$699
V 000008 .Amount from \$700-\$799
V 000009 .Amount from \$800-\$899
V 000010 .Amount from \$900-\$999
V 000011 .Amount from \$1000-\$1099
V 000012 .Amount from \$1100-\$1199
V 000013 .Amount from \$1200-\$1299
V 000014 .Amount from \$1300-\$1499
V 000015 .Amount from \$1500-\$1799
V 000016 .Amount from \$1800-\$2099
V 000017 .Amount from \$2100 or more

D TMPICNT 2 396
Number of items with data on the taxes topical module
U Persons 15 or older

D FILLER3 3 398
Blank or zero filler

**SOURCE AND ACCURACY STATEMENT
FOR THE 1993 PUBLIC USE FILES
FROM THE SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)**

SOURCE OF DATA

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

The 1993 panel of the SIPP sample is located in 284 Primary Sampling Units (PSUs) each consisting of a county or a group of contiguous counties. Within these PSUs, we systematically selected expected clusters of two living quarters (LQs) from lists of addresses prepared for the 1980 decennial census to form the bulk of the sample. To account for LQs built within each of the sample areas after the 1980 census we selected a sample containing clusters of four LQs from permits issued for construction of residential LQs up until shortly before the beginning of the panel.

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

Approximately 27,300 living quarters were originally designated for the 1993 panel. For Wave 1 of the panel, we obtained interviews from occupants of about 19,900 of the 27,300 designated living quarters. We found most of the remaining 7,400 living quarters in the panel to be vacant, demolished, converted to nonresidential use, or otherwise ineligible for the survey. However, we did not interview approximately 2,000 of the 7,400 living quarters in the panel because the occupants refused to be interviewed, could not be found at home, were temporarily absent, or were otherwise unavailable. Thus, occupants of about 91 percent of all eligible living quarters participated in the first interview of the panel.

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

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

The Bureau divides sample households within a given panel into four subsamples of nearly equal size. We call these subsamples rotation groups 1, 2, 3, or 4 and interview one rotation group each month. Beginning in February 1993, we schedule interviews for each household in the sample at 4 month intervals over a period of roughly 2½ years. The reference period for the questions is the 4-month period preceding the interview month. A wave is one cycle of four interviews covering the entire sample, using the same questionnaire.

A unique feature of the SIPP design is overlapping panels. The overlapping design allows combining of panels and essentially doubles the sample size. It is possible to combine selected interviews for the 1993 panels with interviews from the 1992 panels. We include information necessary to do this later in this statement.

The public use files include core and supplemental (topical module) data. Field representatives repeat core questions at each interview over the life of the panel. Topical modules include questions which are asked only in certain waves. The 1993 and 1992 panel topical modules are shown in tables 1 and 2 respectively.

Tables 3 and 4 indicate the reference months and interview months for the collection of data from each rotation group for the 1993 and 1992 panels respectively. For example, Wave 1 rotation group 2 of the 1993 panel was interviewed in February 1993 and data for the reference months October 1992 through January 1993 were collected.

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

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

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

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

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

We performed an additional stage of adjustment to persons' weights to reduce the mean square errors of the survey estimates. We accomplished this by ratio adjusting the sample estimates to agree with monthly Current Population Survey (CPS) type estimates of the civilian (and some military) noninstitutional population of the United States at the national level by demographic characteristics including age, sex, and race as of the specified date. The Bureau brought CPS estimates by age, sex, and race into agreement with adjusted estimates from the 1990 decennial census. Adjustments to the 1990 decennial census estimates include an adjustment for undercount¹ and also reflect births, deaths, immigration, emigration, and changes in the Armed Forces since 1990. The 1991 panel wave 6 is the first panel and wave to use the 1990 census based controls in the weighting. Weights for earlier waves were based on independent population estimates derived by updating the 1980 decennial census counts. For information about the effect of the new population controls on various person and household characteristics, refer to tables 5 through 10 from the January 10, 1994 memorandum for Turner from Waite, titled "SIPP 91: Source and Accuracy Statement for 1991 Wave 6+ Panel Public Use Files." In addition, we controlled SIPP estimates to independent Hispanic controls and made an adjustment to assign equal weights to husbands and wives within the same household. We implemented all of the above adjustments for each reference month and the interview month.

Use of Weights. Each household and each person within each household on each wave tape has five weights. Four of these weights are reference month specific and therefore can be used only to form reference month estimates. Average reference month estimates to form estimates of monthly averages over some period of time. For example, using the proper weights, one can estimate the monthly average number of households in a specified income range over November and December 1993. To estimate monthly averages of a given measure (e.g., total, mean) over a number of consecutive months, sum the monthly estimates and divide by the number of months.

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

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

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 1992 data is only available from rotations 2, 3, and 4 for Wave 1 of the 1993 panel (see table 3), so apply a factor of 4/3. To form an estimate for an interview month, use the procedure discussed above using the interview month weight provided on the file.

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

These tapes contain no weight for characteristics that involve a 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 1992).

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 18 states, we identify metropolitan or non-metropolitan residence (variable H*-METRO). In 28 additional states, where the non-metropolitan population in the sample was small enough to present a disclosure risk, we recoded a fraction of the metropolitan sample to be indistinguishable from non-metropolitan cases (H*-METRO=2). In these states, therefore, the cases coded as metropolitan (H*-METRO=1) represent only a subsample of that population.

In producing state estimates for a metropolitan characteristic, multiply the individual, family, or household weights by the metropolitan inflation factor for that state, presented in table 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 1.0321 to weights for residents of the Virginia

part of the MSA; Maryland and DC residents require no modification to the weights (i.e., their factors equal 1.0).

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

Producing Estimates for the Non-Metropolitan Population. State, regional, and national estimates of the non-metropolitan population cannot be computed directly, except for Washington, DC and the 18 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 estimates for the metropolitan population. The results of these tabulations will be slightly biased.

Combined Panel Estimates. Both the 1993 and 1992 panels provide data for October 1992-April 1995. Thus, obtain estimates for these time periods by combining the corresponding panels. However, since the Wave 1 questionnaire differs from the subsequent waves' questionnaire and since the procedures changed between the 1992 and 1993 panels, we recommend that estimates not be obtained by combining Wave 1 data of the 1993 panel with data from another panel. In this case, use the estimate obtained from either panel. Additionally, even for other waves, care should be taken when combining data from two panels since questionnaires for the two panels differ somewhat and since the length of time in sample for interviews from the two panels differ.

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

1. Combining Separate Estimates

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

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

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

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

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

W = weighting factor of the earlier panel.

To combine the 1992 and 1993 panels use a W value of 0.517 unless one of the panels contributes no information to the estimate. In that case, assign the panel contributing information a factor of 1. Assign the other a factor of zero.

2. Combining Data from Separate Files

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

Illustration for computing combined panel estimate.

Suppose SIPP estimates for Wave 5, 1992 panel show there were 441,000 households with monthly May income above \$6,000. Also, suppose SIPP estimates for Wave 2, 1993 panel show there were 435,000 households with monthly May income above \$6,000. Using formula (A), the joint level estimate is

$$\hat{J} = (0.517)(441,000) + (0.483)(435,000) = 438,000$$

ACCURACY OF ESTIMATES

We base SIPP estimates on a sample. The sample estimates may differ somewhat from the values obtained from administering a complete census using the same questionnaire, instructions, and enumerators. The difference occurs because with an estimate based on

a sample survey two types of errors are possible: nonsampling and sampling. We can provide estimates of the magnitude of the SIPP sampling error, but this is not true of nonsampling error. The next few sections describe SIPP nonsampling error sources, followed by a discussion of sampling error, its estimation, and its use in data analysis.

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

- inability to obtain information about all cases in the sample,
- definitional difficulties,
- differences in the interpretation of questions,
- inability or unwillingness on the part of the respondents to provide correct information,
- inability to recall information,
- errors made in collection (e.g. recording or coding the data),
- errors made in processing the data,
- errors made in estimating values for missing data,
- biases resulting from the differing recall periods caused by the interviewing pattern used,
- undercoverage.

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

Undercoverage in SIPP resulted from missed living quarters and missed persons within sample households. It is known that undercoverage varies with age, race, and sex. Generally, undercoverage is larger for males than for females and larger for Blacks than for Nonblacks. Ratio estimation to independent age-race-sex population controls partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates when persons in missed households or missed persons in interviewed households have characteristics different from those of interviewed persons in the same age-race-sex group.

A common measure of survey coverage is the coverage ratio, the estimated population before ratio adjustment divided by the independent population control. Table 6 shows CPS coverage ratios for age-sex-race groups for 1992. The CPS coverage ratios can exhibit some variability from month to month, but these are a typical set of coverage ratios. Other Census Bureau household surveys like the SIPP experience similar coverage.

Comparability with Other Estimates. Exercise caution when comparing data from this report with data from other SIPP publications or with data from other surveys. Comparability problems are from varying seasonal patterns for many characteristics,

different nonsampling errors, and different concepts and procedures. Refer to the SIPP Quality Profile for known differences with data from other sources and further discussion.

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

USES AND COMPUTATION OF STANDARD ERRORS

Confidence Intervals. The sample estimate and its standard error enable one to construct confidence intervals, ranges that would include the average result of all possible samples with a known probability. For example, if we selected all possible samples and surveyed each of these under essentially the same conditions and with the same sample design, and if we calculated an estimate and its standard error from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.645 standard errors below the estimate to 1.645 standard errors above the estimate would include the average result of all possible samples.
3. Approximately 95 percent of the intervals from 1.960 standard errors below the estimate to 1.960 standard errors above the estimate would include the average result of all possible samples.

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

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

Unless noted otherwise, all statements of comparison in the report passed a hypothesis test at the 0.10 level of significance or better. This means that, for differences cited in the report, the estimated absolute difference between parameters is greater than 1.645 times the standard error of the difference.

To perform the most common test, compute the difference $X_A - X_B$, where X_A and X_B are sample estimates of the characteristics of interest. A later section explains how to derive an estimate of the standard error of the difference $X_A - X_B$. Let that standard error be s_{DIFF} . If $X_A - X_B$ is between -1.645 times s_{DIFF} and +1.645 times s_{DIFF} , no conclusion about the characteristics is justified at the 10 percent significance level. If, on the other hand, $X_A - X_B$ is smaller than -1.645 times s_{DIFF} or larger than +1.645 times s_{DIFF} , the observed difference is significant at the 10 percent level. In this event, it is commonly accepted practice to say that the characteristics are different. Of course, sometimes this conclusion will be wrong. When the characteristics are, in fact, the same, there is a 10 percent chance of concluding that they are different.

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

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

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

found in table 7 for 1993 panel estimates. Note that for estimates which include data for wave 5 and beyond multiply the "a" and "b" parameters by 1.09 to account for sample attrition.

The factors provided in table 8 when multiplied by the base parameters of table 7 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 -0.0000702 and 6,715, respectively. For Wave 1 the factor for October 1992 is 4 since only 1 rotation month of data is available. So, the "a" and "b" parameters for total household income in October 1992 based on Wave 1 are -0.0002808 and 26,860, respectively. Also for Wave 1, the factor for the first quarter of 1993 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 1993 are -0.0000857 and 8,207, respectively for Wave 1.

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

For users who wish further simplification, we also provide general standard errors in tables 9 through 12. Note that these standard errors only apply when data from all four rotations are used and you need to adjust these standard errors by a factor from table 7. The standard errors resulting from this simplified approach are less accurate. Methods for using these parameters and tables for computation of standard errors are given in the following sections.

For the 1992, 1993 combined panel parameters, multiply the parameters in table 7 by the appropriate factor from table 16. The factors provided in table 17 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 7 for a given subgroup and type of estimate, give the "a" and "b" parameters for that subgroup and estimate type for the specified combined reference period.

Table 13 provides base "a" and "b" parameters for calculating 1993 topical module variances. Table 14 provides base "a" and "b" parameters for computing the 1992, 1993 combined panel topical module variances.

Described below are procedures for calculating standard errors for the types of estimates most commonly used. Note specifically that these procedures apply only to reference month estimates or averages of reference month estimates. Refer to the section "Use of

Weights" for a more detailed discussion of the construction of estimates. We included stratum codes and half sample codes on the tapes so users can compute variances directly by methods such as balanced repeated replications (BRR). William G. Cochran provides a list of references discussing the application of this technique. (See Sampling Techniques, 3rd Ed., New York: John Wiley and Sons, 1977, p. 321.)

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

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

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

where f is the appropriate "f" factor from table 7, and s is the standard error on the estimate obtained by interpolation from table 9 or 10. Alternatively, approximate s_x using the formula,

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

from which we calculated the standard errors in tables 9 and 10. Here x is the size of the estimate and "a" and "b" are the parameters associated with the particular type of characteristic. Use of formula 2 will provide more accurate results than the use of formula 1.

Illustration.

Suppose SIPP estimates for Wave 1 of the 1993 panel show that there were 472,000 black households with monthly household income above \$6,000. The appropriate parameters and factor from table 7 and the appropriate general standard error from table 9 are

$$a = -0.0004187 \quad b = 4,640 \quad f = 0.83 \quad s = 55,000$$

Using formula 1, the approximate standard error is

$$s_x = 46,000$$

Using formula 2, the approximate standard error is

$$\sqrt{(-0.0004187)(472,000)^2 + (4,640)(472,000)} = 46,000$$

Using the standard error based on formula 2, the approximate 90-percent confidence interval as shown by the data is from 396,000 to 548,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 90% of all samples.

Illustration for computing standard errors for combined panel estimates.

Suppose the combined SIPP estimate for total number of males in the 16+ Income and Labor Force for Wave 6, 1992 panel and Wave 3, 1993 panel was 92,398,000. The combined panel parameters for total males are obtained by multiplying the appropriate "a" and "b" values from table 7 by the appropriate factors from tables 16 and 17. The 1993 parameters and factors are a = -0.0000580, b = 5,433, g = 1.0000 and factor = 1.0000, respectively. Thus, the combined panel parameters are a = -0.0000580 and b = 5,433. Using formula 2, the approximate standard error is

$$S = \sqrt{(-0.0000580)(92,398,000)^2 + (5,433)(92,398,000)} = 83,000$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When forming combined estimates using formula (A) from the section on combined panel estimates, calculate s^2 , given by formula (4), by forming a distribution for each panel. Divide the range of values for the item into intervals. Obtain combined

estimates for each interval using formula (A). Apply formula (4) to the combined distribution. To calculate \bar{x} and s^2 given by formula (5), replace x_i by Wx_i for x_i from the earlier panel and $(1-W)x_i$ for x_i from the later panel.

Illustration.

Suppose that based on Wave 1 data, the distribution of monthly cash income for persons age 25 to 34 during the month of January 1993 is given in table 15.

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 7, the estimated standard error of a mean \bar{x} is

$$s_{\bar{x}} = \sqrt{\left(\frac{5,433}{39,851,000} \right) (3,159,887)} = \$21$$

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

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

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

Standard Errors of Estimated Percentages. The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends on the size of the percentage and its base. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the

percentages are 50 percent or more, e.g., the percent of people employed is more reliable than the estimated number of people employed. When the numerator and denominator of the percentage have different parameters, use the parameter (and appropriate factor) of the numerator. If proportions are presented instead of percentages, note that the standard error of a proportion is equal to the standard error of the corresponding percentage divided by 100.

We commonly estimate two types of percentages. The first is the percentage of persons, families or households sharing a particular characteristic such as the percent of persons owning their own home. The second type is the percentage of money or some similar concept held by a particular group of persons or held in a particular form. Examples are the percent of total wealth held by persons with high income and the percent of total income received by persons on welfare.

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

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

when estimating p using data from all four rotations.

In this formula, f is the appropriate "f" factor from table 7 and s is the standard error of the estimate from table 11 or 12.

Alternatively, approximate it by the formula:

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

from which we calculated the standard errors in tables 11 and 12. Here x is the size of the subclass of social units which is the base of the percentage, p is the percentage ($0 < p < 100$), and b is the parameter associated with the characteristic in the numerator. Using this formula gives more accurate results than using formula 7 above. Use this formula to estimate p for data with less than four rotations.

Illustration.

Suppose that, in the month of January 1993, 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 7,310 from table 7 and a factor of 1 for the month of January 1993 from table 8, the approximate standard error is

$$\sqrt{\frac{7,310}{(16,812,000)} (6.7) (100-6.7)} = 0.52 \text{ percent}$$

Consequently, the 90 percent confidence interval as shown by these data is from 5.8 to 7.6 percent.

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

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

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

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

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

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

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. Calculate the standard errors of \bar{X}_N and \bar{X}_A using formula 3.

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

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

Illustration.

Suppose that in January 1993, 9.8% of the households own rental property, the mean value of rental property is \$72,121, the mean value of assets is \$78,734, and the corresponding standard errors are 0.31%, \$5799, and \$2867. In total there are

86,790,000 households. Then, the percent of all household assets held in rental property is

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

Using formula (9), the appropriate standard error is

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

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

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

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

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

Illustration.

Suppose that SIPP estimates show the number of persons age 35-44 years with monthly cash income of \$4,000 to \$4,999 was 3,186,000 in the month of January 1993 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 7 and formula 2, the standard errors of these numbers are approximately 130,000 and 118,000, respectively. The difference in sample estimates is 567,000 and, using formula 10, the approximate standard error of the difference is

$$\sqrt{(130,000)^2 + (118,000)^2} = 176,000$$

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 $1.645 \times 176,000 = 290,000$. Since the difference is greater than 1.645 times the standard error of the difference, the data show that the two age groups are significantly different at the 10 percent significance level.

Standard Error of a Median. The median quantity of some item such as income for a given group of persons, families, or households is that quantity such that at least half the group have as much or more and at least half the group have as much or less. The sampling variability of an estimated median depends upon the form of the distribution of the item as well as the size of the group. Use the procedure described below to calculate standard errors on medians.

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

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

To perform step 3, you must interpolate. You may use different methods of interpolation. The most common are simple linear interpolation and Pareto interpolation. The appropriateness of the method depends on the form of the distribution around the median. If density is declining in the area, then we recommend

Pareto interpolation. If density is fairly constant in the area, then we recommend linear interpolation. Never use Pareto interpolation if the interval contains zero or negative measures of the item of interest. Use interpolation as follows. The quantity of the item such that "p" percent have more of the item is

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

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 15. 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 15, we see that the percentage 49.4 falls in the income interval from 2000 to 2499. (Since 55.5% receive more than \$2,000 per month, the dollar value corresponding to 49.4 must be between \$2,000 and \$2,500). Thus, A₁ = \$2,000, A₂ = \$2,500, N₁ = 22,106,000, and N₂ = 16,307,000.

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

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

Also by examining table 15, 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

$$\$2,000 \exp \left[\left(\text{Lr} \left(\frac{(.506)(39,851,000)}{22,106,000} \right) / \text{Lr} \left(\frac{16,307,000}{22,106,000} \right) \right) \text{Lr} \left(\frac{2,500}{2,000} \right) \right] = \$2139$$

Thus, the 68-percent confidence interval on the estimated median is from \$2139 to \$2177. An approximate standard error is

$$\frac{\$2177 - \$2139}{2} = \$19$$

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

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

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

Table 1, 1993 Panel Topical Modules

<u>Wave</u>	<u>Topical Module</u>
1	Reciency History Employment History
2	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 of Non-household Members Functional Limitations and Disability Utilization of Health Care Services
4	Selected Financial Assets Medical Expenses and Work Disability Real Estate, Shelter Costs, Dependent Care, and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	To be decided in mid-1994
7	Eligibility Wealth
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
9	To be decided in mid-1995
10	None

Table 2. 1992 Panel Topical Modules

<u>Wave</u>	<u>Topical Module</u>
1	Reciency History Employment History
2	Work Disability, Education and Training, Marital, Migration History Fertility History Household Relationships
3	Extended Measures of Wellbeing (Consumer Durables, Living Conditions, Basic Needs, Expenditures, Minimum Income)
4	Assets and Liabilities Retirement Expectations and Pension Plan Coverage Real Estate Property and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Child Care Arrangements Child Support Agreements Support of Non-household Members Functional Limitations and Disability Utilization of Health Care Services Work Schedule
7	Selected Financial Assets Medical Expenses and Work Disability Real Estate, Shelter Costs, Dependent Care, and Vehicles
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
9	To be decided in mid-1994
10	None

Table 3. Reference Months for Each Interview Month - 1993 Panel

		Reference Period																					
Month of Interview	Wave/ Rotation	<u>4th Quarter</u> (1992)			<u>1st Quarter</u> (1993)			<u>2nd Quarter</u> (1993)			<u>3rd Quarter</u> (1993)			<u>4th Quarter</u> (1993)			...	<u>1st Quarter</u> (1996)			<u>2nd Quarter</u> (1996)		
		<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>
Feb 93	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								
.														.	.	.							
.																	...						
.																					
May 96	10/1																	X	X	X		X	

Table 4. Reference Months for Each Interview Month - 1992 Panel

Month of Interview	Wave/ Rotation	Reference Period												...	1st Quarter (1995) Jan Feb Mar	2nd Quarter (1995) Apr May Jun			
		4th Quarter (1991) Oct Nov Dec			1st Quarter (1992) Jan Feb Mar			2nd Quarter (1992) Apr May Jun			3rd Quarter (1992) Jul Aug Sep						4th Quarter (1992) Oct Nov Dec		
Feb 92	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				
.														.	.	.			
.																	...		
.																	...		
May 95	10/1															X	X	X	X

Table 5. Metropolitan Subsample Factors to be Applied to Compute National and Subnational Estimates

		Factors for use in State or CMSA (MSA) Tabulations	Factors for use in Regional or National Tabulations
Northeast:	Connecticut	1.0387	1.0387
	Maine	1.1609	1.1609
	Massachusetts	1.0000	1.0000
	New Hampshire	1.2234	1.2234
	New Jersey	1.0000	1.0000
	New York	1.0000	1.0000
	Pennsylvania	1.0000	1.0000
	Rhode Island	1.2506	1.2506
	Vermont	1.1609	1.1609
Midwest:	Illinois	1.0000	1.0000
	Indiana	1.0150	1.0150
	Iowa	1.1574	1.1574
	Kansas	1.2771	1.2771
	Michigan	1.0088	1.0088
	Minnesota	1.0366	1.0366
	Missouri	1.0364	1.0364
	Nebraska	1.3891	1.3891
	North Dakota	1.1574	1.1574
	Ohio	1.0000	1.0000
	South Dakota	1.1574	1.1574
	Wisconsin	1.0188	1.0188
South:	Alabama	1.1334	1.1389
	Arkansas	1.4784	1.4855
	Delaware	1.5593	1.5668
	D.C.	1.0000	1.0048
	Florida	1.0000	1.0048
	Georgia	1.0000	1.0048
	Kentucky	1.0168	1.0217
	Louisiana	1.0108	1.0157
	Maryland	1.0000	1.0048
	Mississippi	1.0000	1.0048
	North Carolina	1.0000	1.0048
	Oklahoma	1.0592	1.0643
	South Carolina	1.0073	1.0121
	Tennessee	1.0063	1.0112
	Texas	1.0064	1.0113
	Virginia	1.0321	1.0371
	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	1.0000	1.0000
	California	1.0000	1.0000
	Colorado	1.0571	1.0571
	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	1.0000	1.0000
	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. 1992 CPS Coverage Ratios

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

Table 7. SIPP Indirect Generalized Variance Parameters for the 1993 Panel

Characteristics ¹	Parameters		
PERSONS	<u>a</u>	<u>b</u>	<u>f</u>
<u>Total or White</u>			
16+ Program Participation(3)			
Both Sexes	-0.0000924	15,937	0.90
Male	-0.0001906	15,937	
Female	-0.0001794	15,937	
16+ Income and Labor Force (5)			
Both Sexes	-0.0000279	5,433	0.52
Male	-0.0000580	5,433	
Female	-0.0000537	5,433	
16+ Pension Plan ² (4)			
Both Sexes	-0.0000510	9,950	0.71
Male	-0.0001061	9,950	
Female	-0.0000983	9,950	
All Others ² (6)			
Both Sexes	-0.0000770	19,760	1.00
Male	-0.0001576	19,760	
Female	-0.0001504	19,760	
<u>Black</u>			
Poverty (1)			
Both Sexes	-0.0004182	13,594	0.83
Male	-0.0008952	13,594	
Female	-0.0007849	13,594	
All Others (2)			
Both Sexes	-0.0002249	7,310	0.61
Male	-0.0004814	7,310	
Female	-0.0004221	7,310	
HOUSEHOLDS			
Total or White	-0.0000702	6,715	1.00
Black	-0.0004187	4,640	0.83

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

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

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

Table 8. Factors to be Applied to Table 7 Base Parameters to Obtain Parameters for Various Reference Periods

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

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

**Table 9. Standard Errors of Estimated Numbers of Households, Families or Unrelated Persons
(Numbers in Thousands)**

Size of Estimate	Standard Error ¹	Size of Estimate	Standard Error ¹
200	37	15,000	291
300	45	17,000	306
600	63	22,000	337
1,000	82	26,000	357
2,000	115	30,000	372
3,000	140	50,000	400
5,000	178	80,000	297
8,000	222	90,000	189
10,000	245	93,000	132
13,000	275	95,000	66

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 Numbers of Persons (Numbers in Thousands)

Size of Estimate	Standard Error ¹	Size of Estimate	Standard Error ¹
200	63	26,000	679
300	77	30,000	724
600	109	50,000	892
1,000	140	80,000	1,043
2,000	198	100,000	1,098
3,000	242	130,000	1,126
5,000	311	150,000	1,110
8,000	391	180,000	1,031
10,000	436	200,000	934
13,000	494	230,000	687
15,000	528	240,000	554
17,000	560	250,000	357
22,000	630	256,000	111

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 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	1.82	2.57	3.99	5.50	7.93	9.16
300	1.49	2.09	3.26	4.49	6.48	7.48
600	1.05	1.48	2.31	3.17	4.58	5.29
1000	0.82	1.15	1.79	2.46	3.55	4.10
2000	0.58	0.81	1.26	1.74	2.51	2.90
3000	0.47	0.66	1.03	1.42	2.05	2.37
5000	0.36	0.51	0.80	1.10	1.59	1.83
8000	0.29	0.41	0.63	0.87	1.25	1.45
10000	0.26	0.36	0.56	0.78	1.12	1.30
13000	0.23	0.32	0.50	0.68	0.98	1.14
15000	0.21	0.30	0.46	0.63	0.92	1.06
17000	0.20	0.28	0.43	0.60	0.86	0.99
22000	0.17	0.24	0.38	0.52	0.76	0.87
26000	0.16	0.22	0.35	0.48	0.70	0.80
30000	0.15	0.21	0.33	0.45	0.65	0.75
50000	0.12	0.16	0.25	0.35	0.50	0.58
80000	0.09	0.13	0.20	0.27	0.40	0.46
90000	0.09	0.12	0.19	0.26	0.37	0.43
93000	0.08	0.12	0.19	0.25	0.37	0.42
95000	0.08	0.12	0.18	0.25	0.36	0.42

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. Standard Errors of Estimated Percentages of 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	3.13	4.40	6.85	9.43	13.61	15.72
300	2.55	3.59	5.59	7.70	11.11	12.83
600	1.81	2.54	3.96	5.44	7.86	9.07
1000	1.40	1.97	3.06	4.22	6.09	7.03
2000	0.99	1.39	2.17	2.98	4.30	4.97
3000	0.81	1.14	1.77	2.43	3.51	4.06
5000	0.63	0.88	1.37	1.89	2.72	3.14
8000	0.49	0.70	1.08	1.49	2.15	2.48
10000	0.44	0.62	0.97	1.33	1.92	2.22
13000	0.39	0.55	0.85	1.17	1.69	1.95
15000	0.36	0.51	0.79	1.09	1.57	1.81
17000	0.34	0.48	0.74	1.02	1.48	1.70
22000	0.30	0.42	0.65	0.90	1.30	1.50
26000	0.27	0.39	0.60	0.83	1.19	1.38
30000	0.26	0.36	0.56	0.77	1.11	1.28
50000	0.20	0.28	0.43	0.60	0.86	0.99
80000	0.16	0.22	0.34	0.47	0.68	0.79
100000	0.14	0.20	0.31	0.42	0.61	0.70
130000	0.12	0.17	0.27	0.37	0.53	0.62
150000	0.11	0.16	0.25	0.34	0.50	0.57
180000	0.10	0.15	0.23	0.31	0.45	0.52
200000	0.10	0.14	0.22	0.30	0.43	0.50
230000	0.09	0.13	0.20	0.28	0.40	0.46
240000	0.09	0.13	0.20	0.27	0.39	0.45
250000	0.09	0.12	0.19	0.27	0.38	0.44
256000	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 13. 1993 Topical Module Generalized Variance Parameters¹

	a	b
Fertility		
# Women	-0.0000437	4425
Births	-0.0000797	8068
Educational Attainment²		
Wave 2	-0.0000309	6027
Wave 5	-0.0000337	6569
Wave 8	-0.0000337	6569
Marital Status and Person's Family Characteristics		
Some HH members	-0.0000468	9120
All HH members	-0.0000432	11082
Child Support		
Wave 3	-0.0000723	7319
Support for Non-household Members		
Wave 3	-0.0000375	7319
Health and Disability	-0.0000338	8687
0 - 15 Child Care		
Wave 3	-0.0000959	5922
Welfare History and AFDC		
Both Sexes 18+	-0.0000848	15937
Males 18+	-0.0001767	15937
Females 18+	-0.0001629	15937
Assets and Liabilities		
Wave 4	-0.0000309	6027
Wave 7	-0.0000337	6569

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

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

Table 14. SIPP 1992, 1993 Combined Panel Topical Module Generalized Variance Parameters

	<u>a</u>	<u>b</u>
Educational Attainment		
1992 wave 8 / 1993 wave 5	-0.0000169	3288
Assets and Liabilities		
1992 wave 7 / 1993 wave 4	-0.0000162	3162
0 - 15 Child Care		
1992 wave 6 / 1993 wave 3	-0.0000503	3107
Child Support		
1992 wave 6 / 1993 wave 3	-0.0000379	3840
Support for Non-household Members		
1992 wave 6 / 1993 wave 3	-0.0000197	3840
Health and Disability		
1992 wave 6 / 1993 wave 3	-0.0000178	4557
1992 wave 7 / 1993 wave 4	-0.0000178	4557

Table 15. 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 16. SIPP Factors to be Applied to the 1993 Base Parameters to Obtain the 1992, 1993 Combined Panel Parameters

Waves to be Combined		
<u>1992 Panel</u>	<u>1993 Panel</u>	<u>g factor¹</u>
8	5	0.5006
7	4	0.5246
6	3	0.5246

¹ When deriving estimates based on two or more waves of data from the same panel, choose the corresponding g-factor with the greatest value. Apply only this factor to the base parameter.

Table 17. Factors to be Applied to Base Parameters to Obtain Combined Panel Parameters for Estimates¹ from Various Reference Periods.

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

¹ Estimates are based on monthly averages.

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

APPENDIX A-1

Income Source Code List

Code Income Sources

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

SIPP FILES

Code Asset List

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

Code Special Indicators

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

APPENDIX A-2

Income Sources Included in Monthly Cash Income

Earnings from Employment

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

Income from Assets (Property Income)

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

Other Income Sources

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

SIPP FILES

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

APPENDIX A-3

Sources of Means-Tested Benefits Covered in SIPP

Cash Benefits

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

Noncash Benefits

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

APPENDIX A-4

1990 Census of Population Occupation Classification System

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 501 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

1990
Census
code

Occupation category

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

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	Postmasters and mail superintendents (1344)
017	Managers, food serving and lodging establishments (1351)
018	Managers, properties and real estate (1353)
019	Funeral directors (pt 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, pt 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)

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, except construction (1473)
037	Management related occupations, n.e.c. (149)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.**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)

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

Respiratory therapists (3031)

099

Occupational therapists (3032)

103

Physical therapists (3033)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.**Professional Specialty Occupations—Con.**

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)
156	Teachers, elementary school (232)
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)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

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)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.**Technicians and Related Support Occupations—Con.**

- 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)
- 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)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.**Administrative Support Occupations, Including Clerical—Con.****Secretaries, Stenographers, and Typists**

- 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

- 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)
- 353 Communications equipment operators, n.e.c. (4733, 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)
- 363 Production coordinators (4752)
- 364 Traffic, shipping, and receiving clerks (4753)
- 365 Stock and inventory clerks (4754)
- 366 Meter readers (4755)
- 368 Weighers, measurers, checkers and samplers (4756, 4757)
- 373 Expeditors (4758)
- 374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Administrative Support Occupations, Including Clerical—Con.

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)
- 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)
- 435 Waiters and waitresses (5213)
- 436 Cooks (5214, 5215)
- 438 Food counter, fountain and related occupations (5216)
- 439 Kitchen workers, food preparation (5217)

SERVICE OCCUPATIONS—Con.

Service Occupations, Except Protective and Household—Con.

- 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)
- 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)
- 461 Guides (5255)
- 462 Ushers (5256)
- 463 Public transportation attendants (5257)
- 464 Baggage porters and bellhops (5262)
- 465 Welfare service aides (5263)
- 466 Family child care providers (pt 5264)
- 467 Early childhood teacher's assistants (pt 5264)
- 468 Child care workers, n.e.c. (pt 5264)
- 469 Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm Operators and Managers

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

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)

FARMING, FORESTRY, AND FISHING OCCUPATIONS—Con.

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)
- 439 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

- 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 (616)

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)

**PRECISION PRODUCTION, CRAFT, AND
REPAIR OCCUPATIONS—Con.**

- 557 Supervisors; plumbers, pipefitters, and steamfitters (6316)
- 558 Supervisors, construction 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 (pt 6414, pt 6462)
- 566 Carpet installers (pt 6462)
- 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

- 628 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)

**PRECISION PRODUCTION, CRAFT, AND
REPAIR OCCUPATIONS—Con.**

655	Miscellaneous precision metal workers (6829)
	Precision Woodworking Occupations
656	Patternmakers and model makers, wood (6831)
657	Cabinet makers and bench carpeniers (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)
667	Tailors (pt 6852)
668	Upholsterers (6853)
669	Shoe repairers (6854)
674	Miscellaneous precision apparel and fabric workers (6856, 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****Metalworking 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)

OPERATORS, FABRICATORS, AND LABORERS—Con.**Machine Operators, Assemblers, and Inspectors—Con.**

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

OPERATORS, FABRICATORS, AND LABORERS—Con.**Machine Operators, Assemblers, and Inspectors—Con.****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)
795	Miscellaneous hand working occupations (7758, 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 (8212-8214)
806	Driver-sales workers (8218)
808	Bus drivers (8215)
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)

SIPP FILES

OPERATORS, FABRICATORS, AND LABORERS—Con.

Handlers, Equipment Cleaners, Helpers, and Laborers

864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
865 Helpers, mechanics and repairers (863)

Helpers, Construction and Extractive Occupations

866 Helpers, construction trades (8641-8645, 8648)
867 Helpers, surveyor (8646)
868 Helpers, extractive occupations (865)
869 Construction laborers (871)
874 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)

MILITARY OCCUPATIONS

903 Commissioned Officers and Warrant Officers
904 Non-commissioned Officers and Other Enlisted Personnel
905 Military occupation, rank not specified

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION

909 Last worked 1984 or earlier

APPENDIX A-5

1990 Census of Population Industry Classification System

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

1990
Census
code

Industry category

AGRICULTURE, FORESTRY, AND FISHERIES

010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
020	Landscape and horticultural services (078)
030	Agricultural services, n.e.c. (071, 072, 075, 076)
031	Forestry (08)
032	Fishing, hunting, and trapping (09)

MINING

040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
050	Nonmetallic mining and quarrying, except fuels (14)

060 CONSTRUCTION (15, 16, 17)

MANUFACTURING

Nondurable Goods

Food and kindred products

100	Meat products (201)
101	Dairy products (202)
102	Canned, frozen, 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	Carpets and rugs (227)
142	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)

SIPP FILES

MANUFACTURING—Con.

Nondurable Goods—Con.

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)
- 161 Miscellaneous paper and pulp products (267)
- 162 Paperboard containers and boxes (265)

Printing, publishing, and allied industries

- 171 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 (285)
- 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 (302-306)
- 212 Miscellaneous plastics products (308)

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)

MANUFACTURING—Con.**Durable Goods—Con.****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, 3363, 3365)
- 280 Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
- 281 Cutlery, handtools, and general hardware (342)
- 282 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 and computing equipment

- 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 (3578, 3579)
- 322 Computers and related equipment (3571-3577)
- 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, TV, 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 exc. 3827)
- 372 Medical, dental, and optical instruments and supplies (3827, 384, 385)
- 380 Photographic equipment and supplies (386)
- 381 Watches, clocks, and clockwork operated devices (387)
- 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)

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

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 and cable (483, 484)
441	Telephone communications (481)
442	Telegraph and miscellaneous communications services (482, 489)
	Utilities and sanitary services
450	Electric light and power (491)
451	Gas and steam supply systems (492, 496)
452	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	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512	Electrical goods (506)
521	Hardware, plumbing and heating supplies (507)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532	Miscellaneous wholesale, durable goods (509 exc. 5093)

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-product raw materials (515)
552	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562	Miscellaneous wholesale, nondurable goods (5192-5199)
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	Department stores (531)
592	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)

RETAIL TRADE—Con.

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)
623	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	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	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672	Fuel dealers (598)
681	Retail florists (5992)
682	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691	Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

700	Banking (60 exc. 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712	Real estate, including real estate-insurance offices (65)

BUSINESS AND REPAIR SERVICES

721	Advertising (731)
722	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742	Automotive rental and leasing, without drivers (751)
750	Automobile parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)

SIPP FILES

PERSONAL SERVICES

761	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 exc. part 7219)
772	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791	Miscellaneous personal services (722, 729)

ENTERTAINMENT AND RECREATION SERVICES

800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802	Bowling centers (793)
810	Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

812	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822	Offices and clinics of optometrists (8042)
830	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831	Hospitals (806)
832	Nursing and personal care facilities (805)
840	Health services, n.e.c. (807, 808, 809)
841	Legal services (81)
842	Elementary and secondary schools (821)
850	Colleges and universities (822)
851	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 (part 835)
863	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893	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)

PUBLIC ADMINISTRATION—Con.

930 Administration of environmental quality and housing programs (95)
 931 Administration of economic programs (96)
 932 National security and international affairs (97)

ACTIVE DUTY MILITARY

Armed Forces

940 Army
 941 Air Force
 942 Navy
 950 Marines
 951 Coast Guard
 952 Armed Forces, Branch not specified
 960 Military Reserves or National Guard

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY

992 Last worked 1984 or earlier

21	HOUSEHOLD ROSTER COVERAGE	31a	ASK IF 15 OR OLDER
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FILE NUMBER/TYPE: 00-10183 QUESTIONNAIRE INTERVIEW

Page 3

34a MOVERS				PGM 4, Cont'd.				35 MERGED HOUSEHOLD MATCH TABLE								
1	Person number(s)		Entire HH moved <input type="checkbox"/> - If box is marked fill 34b	New telephone number		OFFICE USE ONLY 0084 34b If entire household moves, try to determine: Is the address within the limits of a city, town, or village? 1 <input type="checkbox"/> Yes - What is the name? 2 <input type="checkbox"/> No - Not within the limits of a city, town, or village		New person number (a)	PREVIOUS IDENTIFICATION							
	New address - Number and street				PSU (b)				Segment (c)	Serial (d)	Sample designation (e)	Entry address ID (f)	Person number (g)			
	City		State		ZIP Code				0086	0088	0080	0082	0084	0086	0088	
	Other identification		Wave move discovered		0070				0072	0074	0076	0078	0080	0082		
2	Person number(s)			New telephone number				0084	0086	0088	0090	0092	0094	0096		
	New address - Number and street				0098			0100	0102	0104	0106	0108	0110			
	City		State		ZIP Code			0112	0114	0116	0118	0120	0122	0124		
	Other identification		Wave move discovered		0126			0128	0130	0132	0134	0136	0138			
3	Person number(s)			New telephone number				0140	0142	0144	0146	0148	0150	0152		
	New address - Number and street				0154			0156	0158	0160	0162	0164	0166			
	City		State		ZIP Code											
	Other identification		Wave move discovered													
4	Person number(s)			New telephone number												
	New address - Number and street															
	City		State		ZIP Code											
	Other identification		Wave move discovered													
5	Person number(s)			New telephone number												
	New address - Number and street															
	City		State		ZIP Code											
	Other identification		Wave move discovered													
39				39				39								
FUTURE CONTACTS (Continued) - Read Flashcard T and fill 39c. Verify and update for Waves 2-8.				FUTURE CONTACTS (Continued) - Read Flashcard T and fill 39c. Verify and update for Waves 2-8.				FUTURE CONTACTS (Continued) - Read Flashcard T and fill 39c. Verify and update for Waves 2-8.								
39c				39c				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.				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.				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. _____		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)		Address (No., St., Apt. No., City, State, ZIP Code)		Telephone number (Include area code)						

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 1993. It would be very helpful to refer to records during this part of the interview.

CHECK ITEM T1

Are the names of any businesses listed for ... on the control card? (cc item 43)

8000

- 1 ☐ Yes – SKIP to 1b
2 ☐ No

CHECK ITEM T2

Was an interview obtained for ... for each of the 1st, 2nd, 3rd, AND 4th waves (cc items 44, 45, 46, and 47)?

8002

- 1 ☐ Yes – SKIP to Statement D, page 57
2 ☐ No

1a. Did ... own and operate a business at any time during calendar year 1993?

Include farms.

8004

- 1 ☐ Yes
2 ☐ No – SKIP to Statement D, page 57

ASK OR VERIFY –

b. How many different businesses did ... own and operate during calendar year 1993?

8006

- Businesses
OR
x3 ☐ 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 1993? (List up to 2 businesses; list according to net income from business beginning with the business providing the largest net income.)

PGM 8

8008

Business name

PGM 8

8058

Business name

CHECK ITEM T3

Transcribe ID number for this business from the control card (cc item 43).

(Fill items T3–T9 for the first business listed, then fill items T3–T9 if a second business is listed.)

PGM 7

8010

- ☐ Business ID No.
OR
x3 ☐ Not listed on control card

PGM 7

8060

- ☐ Business ID No.
OR
x3 ☐ Not listed on control card

CHECK ITEM T4

Has information about this business already been obtained in an interview for another household member?

8012

- 1 ☐ Yes
2 ☐ No – SKIP to 2a

8062

- 1 ☐ Yes
2 ☐ 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.

Name

Person number

8014

Business ID number

8016

- OR
x3 ☐ Not listed on control card

SKIP to Check Item T9, page 56

Name

Person number

8064

Business ID number

8066

- OR
x1 ☐ Not listed on control card

SKIP to Check Item T10, page 56

ASK OR VERIFY –

2a. What was the form of this (business/practice) – was it a sole proprietorship, a partnership, or a corporation?

8018

- 1 ☐ Sole proprietorship
2 ☐ Partnership
3 ☐ Corporation
x1 ☐ DK

8068

- 1 ☐ Sole proprietorship
2 ☐ Partnership
3 ☐ Corporation
x1 ☐ DK

b. Was this business primarily located in ...'s own home or somewhere else?

8020

- 1 ☐ Own home
2 ☐ Somewhere else

8070

- 1 ☐ Own home
2 ☐ Somewhere else

TOPICAL MODULES

Section 5 - TOPICAL MODULES (Continued)

Part A - ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

CHECK ITEM T5	Is "Sole proprietorship" marked in item 2a?	<div>8104</div> <div>1 <input type="checkbox"/> Yes - SKIP to 2h</div> <div>2 <input type="checkbox"/> No</div> <div>8154</div> <div>1 <input type="checkbox"/> Yes - SKIP to 2h</div> <div>2 <input type="checkbox"/> No</div>
2c. Were any other members of this household part owners of this (business/practice)?	<div>8106</div> <div>1 <input type="checkbox"/> Yes</div> <div>2 <input type="checkbox"/> No</div> <div>x1 <input type="checkbox"/> DK } SKIP to 2g</div>	<div>8156</div> <div>1 <input type="checkbox"/> Yes</div> <div>2 <input type="checkbox"/> No</div> <div>x1 <input type="checkbox"/> DK } SKIP to 2g</div>
d. Which other household members were owners?	<div>8108</div> <div>Person No. <input type="text"/></div> <div>Name <input type="text"/></div> <div>8110</div> <div>Person No. <input type="text"/></div> <div>Name <input type="text"/></div>	<div>8158</div> <div>Person No. <input type="text"/></div> <div>Name <input type="text"/></div> <div>8160</div> <div>Person No. <input type="text"/></div> <div>Name <input type="text"/></div>
e. Was this (business/practice) owned entirely by members of this household?	<div>8112</div> <div>1 <input type="checkbox"/> Yes - SKIP to 2g</div> <div>2 <input type="checkbox"/> No</div>	<div>8162</div> <div>1 <input type="checkbox"/> Yes - SKIP to 2g</div> <div>2 <input type="checkbox"/> No</div>
f. What percentage of this (business/practice) was owned by members of this household?	<div>8114</div> <div><input type="text"/> Percent</div> <div>OR</div> <div>x1 <input type="checkbox"/> DK</div>	<div>8164</div> <div><input type="text"/> Percent</div> <div>OR</div> <div>x1 <input type="checkbox"/> DK</div>
g. What percentage of this (business/practice) did ... own in ...'s own name?	<div>8116</div> <div><input type="text"/> Percent</div> <div>OR</div> <div>x1 <input type="checkbox"/> DK</div>	<div>8166</div> <div><input type="text"/> Percent</div> <div>OR</div> <div>x1 <input type="checkbox"/> DK</div>
h. What were the gross RECEIPTS of this (business/practice) in 1993? Please use records if they are available. ★ Obtain estimate, if necessary.	<div>8118</div> <div>\$ <input type="text"/> <input type="text"/> 00</div> <div>x1 <input type="checkbox"/> DK</div> <div>x2 <input type="checkbox"/> Ref.</div>	<div>8168</div> <div>\$ <input type="text"/> <input type="text"/> 00</div> <div>x1 <input type="checkbox"/> DK</div> <div>x2 <input type="checkbox"/> Ref.</div>
i. What were the total EXPENSES of this (business/practice) in 1993? Please use records if they are available. ★ Obtain estimate, if necessary.	<div>8120</div> <div>\$ <input type="text"/> <input type="text"/> 00</div> <div>x1 <input type="checkbox"/> DK</div> <div>x2 <input type="checkbox"/> Ref.</div>	<div>8170</div> <div>\$ <input type="text"/> <input type="text"/> 00</div> <div>x1 <input type="checkbox"/> DK</div> <div>x2 <input type="checkbox"/> Ref.</div>
CHECK ITEM T6	Is "DK" marked in either item 2h or 2i?	<div>8122</div> <div>1 <input type="checkbox"/> Yes</div> <div>2 <input type="checkbox"/> No - SKIP to Check Item T7</div> <div>8172</div> <div>1 <input type="checkbox"/> Yes</div> <div>2 <input type="checkbox"/> No - SKIP to Check Item T7</div>
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)?	<div>8124</div> <div>1 <input type="checkbox"/> Yes - Mark Callback Summary and Reminder Card, items 11a and/or 11b</div> <div>2 <input type="checkbox"/> No</div>	<div>8174</div> <div>1 <input type="checkbox"/> Yes - Mark Callback Summary and Reminder Card, items 11a and/or 11b</div> <div>2 <input type="checkbox"/> No</div>
CHECK ITEM T7	Is "Sole proprietorship" marked in item 2a?	<div>8126</div> <div>1 <input type="checkbox"/> Yes - SKIP to Check Item T9</div> <div>2 <input type="checkbox"/> No</div> <div>8176</div> <div>1 <input type="checkbox"/> Yes - SKIP to Check Item T10</div> <div>2 <input type="checkbox"/> No</div>

TOPICAL MODULES

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 1993? Please use records if they are available. ★</p> <p><i>Obtain estimate, if necessary.</i></p>	<p>8202 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x2 <input type="checkbox"/> Ref. x1 <input type="checkbox"/> DK</p> <p>8204 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box - SKIP to Check Item T8</p>	<p>8252 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x2 <input type="checkbox"/> Ref. x1 <input type="checkbox"/> DK</p> <p>8254 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box - SKIP to Check Item T8</p>
<p>l. If I were to call back later, could you provide me with an estimate? (This information is especially important for the purposes of this survey.)</p>	<p>8206 1 <input type="checkbox"/> Yes - Mark Callback Summary and Reminder Card, item 12 2 <input type="checkbox"/> No</p>	<p>8256 1 <input type="checkbox"/> Yes - Mark Callback Summary and Reminder Card, item 12 2 <input type="checkbox"/> No</p>
<p>CHECK ITEM T8 Refer to item 2d. Were any other household members part owners of this business?</p>	<p>8208 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - SKIP to Check Item T9</p>	<p>8258 1 <input type="checkbox"/> Yes 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 1993 from this (business/practice)?</p>	<p>8210 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK } SKIP to Check Item T9</p>	<p>8260 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No x1 <input type="checkbox"/> DK } SKIP to Check Item T10</p>
<p>n. What was the amount of net income that was received by (Read names of other household owners)?</p> <p><i>Obtain estimate, if necessary.</i></p>	<p>Person No. 8212 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8214 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8216 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box</p> <p>SECOND CO-OWNER Person No. 8218 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8220 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8222 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box</p>	<p>Person No. 8262 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8264 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8266 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box</p> <p>SECOND CO-OWNER Person No. 8268 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>8270 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8272 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box</p>
<p>CHECK ITEM T9 Is another business listed in item 1c?</p>	<p>8274 1 <input type="checkbox"/> Yes - Complete Check Item T3 for next business 2 <input type="checkbox"/> No - SKIP to Statement D</p>	<p>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 2 <input type="checkbox"/> No - SKIP to Statement D</p>	
<p>3. What was ...'s net income from ...'s other businesses in 1993? Please use records if they are available.</p>	<p>8278 \$ <input type="text"/> . <input type="text"/> 00</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.</p> <p>8280 x4 <input type="checkbox"/> Lost money - Enter amount of loss in box</p>	

NOTES

Section 5 - TOPICAL MODULES (Continued)

Part A - ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

STATEMENT D The next few questions are about personal retirement plans.

4a. Does ... have an Individual Retirement Account - an IRA - in ...'s OWN name?

9330

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to 4h

If ... is only included in ...'s (husband's/wife's) IRA accounts, mark the "No" box.

b. Did ... make any tax-deductible contributions to IRA accounts which applied to ...'s 1993 tax return?

9332

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to 4d

(Contributions which were deducted from gross income.)

c. How much were ...'s tax-deductible contributions to IRA accounts which applied to ...'s 1993 tax return?

9334

\$. 00
x1 ☐ DK
x2 ☐ Ref.

(Form 1040, line 24a)
(Form 1040A, line 15a)

d. Did ... make any withdrawals from ...'s IRA accounts during 1993?

9336

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to 4f

Mark "No" if funds were "rolled over" within 60 days of the withdrawal.

e. How much did ... withdraw from IRA accounts during 1993?

9338

\$. 00
x1 ☐ DK
x2 ☐ Ref.

f. Including ALL IRA accounts in ...'s OWN name, how much did ...'s IRA accounts earn during 1993?

9340

\$. 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

g. What types of assets did ... have in ...'s IRA accounts?

9342

- 1 ☐ Certificates of deposit or other savings certificates
2 ☐ Money market funds
3 ☐ U.S. Government securities
4 ☐ Municipal or corporate bonds
5 ☐ U.S. Savings Bonds
6 ☐ Stocks or mutual fund shares
7 ☐ Other assets - Specify

Mark (X) all that apply.

Anything else?

9344

9346

9348

9350

9352

9354

9356

x1 ☐ DK

h. Does ... have a Keogh account in ...'s OWN name?

9358

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to Check Item T11

i. Did ... make any tax-deductible contributions to a Keogh account which applied to ...'s 1993 tax return?

9360

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to 4k

j. How much were ...'s tax-deductible contributions to Keogh accounts which applied to ...'s 1993 tax return?

9362

\$. 00
x1 ☐ DK
x2 ☐ Ref.

(Form 1040, line 27)

k. Did ... make any withdrawals from ...'s Keogh accounts during 1993?

9364

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK } SKIP to 4m

Section 5 - TOPICAL MODULES (Continued)

Part A - ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

4l. How much did . . . withdraw from Keogh accounts during 1993?

9366 \$. 00

x1 ☐ DK
x2 ☐ Ref.

m. Including ALL Keogh accounts in . . .'s OWN name, how much did . . .'s Keogh accounts earn during 1993?

9368 \$. 00

x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

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

Mark (X) all that apply.

Anything else?

- 9370 ☐ Certificates of deposit or other savings certificates
9372 ☐ Money market funds
9374 ☐ U.S. Government securities
9376 ☐ Municipal or corporate bonds
9378 ☐ U.S. Savings Bonds
9380 ☐ Stocks or mutual fund shares
9382 ☐ Other assets - *Specify*

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*

40. During 1993, 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 } *SKIP to Check Item T12*
x1 ☐ DK

p. How much did . . . contribute to this plan during 1993?

9388 \$. 00

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 ☐ Yes – SKIP to Check Item T19, page 61
2 ☐ No

1a. Did . . . file a Federal income tax return for 1993?

Mark "Yes" if . . . filed alone or jointly.

9392

- 1 ☐ Yes
2 ☐ No – SKIP to Check Item T19, page 61

b. Do you have a copy of the tax form or a worksheet that you could refer to for the next few questions?

9394

- 1 ☐ Yes – Allow person time to get form
2 ☐ No

2. What was . . . 's filing status on . . . 's 1993 Federal tax return? Did . . . file as –

Read categories – Mark (X) one.

9396

- 1 ☐ A single taxpayer?
2 ☐ Married, filing a joint return?
3 ☐ Married, filing separately?
4 ☐ Unmarried head of household?
5 ☐ Qualifying widow(er) with dependent child?
x1 ☐ DK

3a. What were the total number of exemptions claimed on . . . 's tax return?

9398

- Exemptions – If "00" or "01" SKIP to 4
x1 ☐ DK

CHECK ITEM T13

Refer to cc item 20.

Number of current household members.

9400

- 1 ☐ One – SKIP to 3c
2 ☐ Two or more

3b. Besides . . . , which persons in this household did . . . claim as an exemption?

Person No. Name

9402

9404

9406

9408

9410

9412

- 1 ☐ 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 ☐ Yes
2 ☐ No – SKIP to 4

d. What was the relationship of this (these) person(s) to . . . ?

Record for two persons only.

FIRST DEPENDENT

SECOND DEPENDENT

9416

- 1 ☐ Parent
2 ☐ Child
3 ☐ Brother/sister
4 ☐ Other

9418

- 1 ☐ Parent
2 ☐ Child
3 ☐ Brother/sister
4 ☐ 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 ☐ Form 1040
2 ☐ Form 1040A
3 ☐ Form 1040EZ
x1 ☐ DK

} SKIP to Check Item T14, page 60

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 1993 tax return.

(1) Schedule A, Itemized Deductions

9422

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK

(2) Schedule D, Capital Gains and Losses

9424

- 1 ☐ Yes
2 ☐ No
x1 ☐ DK

Section 5 - TOPICAL MODULES (Continued)

Part B - TAXES (Continued)

CHECK ITEM T14	Refer to item 1b. Does the respondent have a copy of ...'s Federal income tax form or a worksheet to refer to?	9428	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
CHECK ITEM T15	Refer to item 4. Is "Form 1040" marked?	9430	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - SKIP to 8a
CHECK ITEM T16	Is "Schedule A, Itemized Deductions" marked "Yes" in item 5(1)?	9432	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - SKIP to 6b
6a. How much were ...'s (and ...'s husband's/wife's) itemized deductions for 1993? <i>(Schedule A, line 26)</i>		9434	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. - SKIP to Check Item T17 </div>
b. On ...'s Form 1040, did ... (and ...'s husband/wife) claim -		<i>(Ask for each credit claimed.)</i> 6c. What was the amount of the (Read name of credit) claimed?	
(1) A child and dependent care expense credit <i>(Form 1040, line 41)</i>		9446	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
		9448	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. </div>
(2) A credit for the elderly or the disabled <i>(Form 1040, line 42)</i>		9450	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
		9452	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. </div>
CHECK ITEM T17	Refer to item 5(2). Is "Schedule D, Capital Gains and Losses" marked "Yes"?	9458	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - SKIP to 8a
7. How much were ...'s (and ...'s husband's/wife's) capital gains or losses from the sale or exchange of personal assets for 1993? <i>(Form 1040, line 13)</i>		9460	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x4 <input type="checkbox"/> Lost money - Enter amount of loss in box </div>
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 1993? <i>(Form 1040, line 31)</i> <i>(Form 1040A, line 16)</i> <i>(Form 1040EZ, line 4)</i>		9462	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. x4 <input type="checkbox"/> Lost money - Enter amount of loss in box </div>
		} SKIP to 9a	
b. Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments. What was ...'s (and ...'s husband's/wife's) net tax liability in 1993? <i>(Form 1040, line 53)</i> <i>(Form 1040A, line 27)</i> <i>(Form 1040EZ, line 8)</i>		9464	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">00</div> </div> <div style="margin-top: 5px;"> x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. </div>
CHECK ITEM T18	Refer to item 8a. What is the amount of adjusted gross income reported?	9466	1 <input type="checkbox"/> \$23,050 or more - SKIP to Check Item T19 2 <input type="checkbox"/> Less than \$23,050

Section 5 - TOPICAL MODULES (Continued)

Part B - TAXES (Continued)

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

9472

- 1 ☐ Yes
 2 ☐ No
 x1 ☐ 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

\$. 00
 x1 ☐ DK
 x2 ☐ Ref.

**CHECK
ITEM T19**

Refer to cc item 15.

Tenure of reference person.

Are . . . 's living quarters -

9486

- 1 ☐ Owned or being bought?
 2 ☐ Rented for cash?
 3 ☐ Occupied without cash payment? } *SKIP to Statement E, page 62*

**CHECK
ITEM T20**

Interview status of . . . 's spouse

9488

- 1 ☐ No spouse in household
 2 ☐ Interview for spouse not yet conducted
 3 ☐ Interview for spouse already conducted -
SKIP to Statement E, page 62

10a. Did . . . pay any property taxes on . . . 's residence(s) in 1993?

9490

- 1 ☐ Yes
 2 ☐ No - *SKIP to Statement E, page 62*

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

9492

- 1 ☐ Yes
 2 ☐ No - *SKIP to 10d*

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

9494

Person No. Name

9496

Person No. Name

d. What was the property tax bill for . . . 's residence(s) in 1993?

Obtain estimate, if necessary.
 (Schedule A, line 6)

9498

\$. 00
 x1 ☐ DK
 x2 ☐ 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.

- 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.)**

9610

- 1 ☐ Yes
2 ☐ No – *SKIP to Check Item C1, page 64*

- 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.)

9612

- 1 ☐ Elementary grades 1–8
2 ☐ High school grades 9–12
3 ☐ College year 1
4 ☐ College year 2
5 ☐ College year 3
6 ☐ College year 4
7 ☐ College year 5
8 ☐ College year 6+
9 ☐ Vocational school
10 ☐ Technical school
11 ☐ Business school
12 ☐ Other or DK

**CHECK
ITEM T21**

Was . . . enrolled in elementary or high school?

9614

- 1 ☐ Yes
2 ☐ No – *SKIP to 4*

- 3. Was . . . enrolled in a public school?**

(Mark "Yes" if the school at which . . . spent the greatest amount of time was public.)

9616

- 1 ☐ Yes – *SKIP to Check Item C1, page 64*
2 ☐ No

- 4. During the past 12 months –**

- a. What was the total cost of . . . 's tuition and fees?**

9618

\$. 00
X3 ☐ None
X1 ☐ DK

- b. What was the total cost of . . . 's books and supplies?**

9620

\$. 00
X3 ☐ None
X1 ☐ DK

- c. Did . . . live away from home while attending school?**

9622

- 1 ☐ Yes
2 ☐ No – *SKIP to 5a*

- d. What was the total cost for room and board while away at school?**

9624

\$. 00
X3 ☐ None
X1 ☐ DK

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>
<p>(1) The GI Bill?</p>	<p>9628 1 <input type="checkbox"/> Received</p>	<p>9630 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(2) Other Veterans' Educational Assistance Programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans' assistance.)</p>	<p>9632 1 <input type="checkbox"/> Received</p>	<p>9634 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(3) College Work Study Program?</p>	<p>9636 1 <input type="checkbox"/> Received</p>	<p>9638 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(4) A Pell Grant?</p>	<p>9640 1 <input type="checkbox"/> Received</p>	<p>9642 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(5) A Supplemental Educational Opportunity Grant (SEOG)?</p>	<p>9644 1 <input type="checkbox"/> Received</p>	<p>9646 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(6) A National Direct Student Loan (NDSL) (or Perkins Loan)?</p>	<p>9648 1 <input type="checkbox"/> Received</p>	<p>9650 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(7) A Stafford Loan or Guaranteed Student Loan (GSL)?</p>	<p>9652 1 <input type="checkbox"/> Received</p>	<p>9654 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(8) A Parent Loan for Undergraduate Students (PLUS) or Supplemental Loan for Students (SLS)?</p>	<p>9656 1 <input type="checkbox"/> Received</p>	<p>9658 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(9) Assistance from . . . 's employer?</p>	<p>9660 1 <input type="checkbox"/> Received</p>	<p>9662 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(10) A fellowship or scholarship?</p>	<p>9664 1 <input type="checkbox"/> Received</p>	<p>9666 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(11) A tuition reduction?</p>	<p>9668 1 <input type="checkbox"/> Received</p>	<p>9670 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>
<p>(12) Anything else (other than assistance from relatives and friends), including the JTPA Training program, Income Contingent Loan, or anything else?</p>	<p>9672 1 <input type="checkbox"/> Received</p>	<p>9674 \$ <input style="width: 80px;" type="text"/> .00 x1 <input type="checkbox"/> DK</p>

NOTES

APPENDIX C

Working Papers

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

1995

9501 - "Adjusting For Attrition in Event History Analysis" by D.H. Hill (Survey Research Institute, University of Toledo)

1994

9401 - "A Comparison of Attrition in the Panel Study of Income Dynamics and the Survey of Income and Program Participation" by J.E. Zabel

9402 - "The Effect of Attrition on Income and Poverty Estimates From the Survey of Income and Program Participation" (SIPP)" by E. Lamas, J. Tin and J. Eargle

9403 - "An Analysis of Attrition in the PSID and SIPP With An Application to a Model of Labor Market Behavior" by J.E. Zabel

9404 - "Mover Nonresponse Adjustment Research For the Survey of Income and Program Participation" by T.M Allen and R.J. Petroni

9405 - "Use of Administrative Data in SIPP Longitudinal Estimation" by S.M. Dorinski and H. Huang

9406 - "Longitudinal Imputation of SIPP Food Stamp Benefits" by A. Tremblay

9407 - "Testing a New Attrition Nonresponse Adjustment Method For SIPP" by R.E. Folsom and M.B. Witt

9408 - "An Experiment to Reduce Measurement Error in the SIPP: Preliminary Results" by K.H. Marquis, J.C. Moore and K. Bogen (U.S. Bureau of the Census)

9409 - "Oversampling in Panel Surveys" by R. Singh, R.J. Petroni and T.M. Allen (Census Bureau)

1993

9301 - "Multiple Program Use in a Dynamic Context: Data From the SIPP" by R. M. Blank (Northwestern University) and P. Ruggles (The Urban Institute)

9302 - "A Comparative Analysis of the Labor Force Activities of Ethnic Populations" by F.D. Wilson (University Wisconsin-Madison ASA/NSF/Census Fellow) and L.L. Wu (University of Wisconsin Madison)

9303 - "Variance Estimation by User of SIPP Micro-data Files" by R.P. Chakrabarty (Census Bureau)

9304 - "Measurements of Job Exits: What Difference Does Ambiguity Make?" by T.J. Devine (Pennsylvania State University)

9305 - "The Seasonality of Moving: An Analysis of Data From the Survey of Income and Program Participation" by D. Deare (Census Bureau)

SIPP FILES

- 9306 - "The Quality of Census Bureau Survey Data Among Respondents With High Income" by C.T. Nelson (Census Bureau)
- 9307 - "Modeling Food Stamp Participation in the Presence of Reporting Errors" by C. Bollinger and M. David (University of Wisconsin)
- 9308 - "The Seam Effect in SIPP's Labor Force Data: Did the Recession Make It Worse?" by P. Ryscavage (Census Bureau)
- 9309 - "Where's Papa? Father's Role in Child Care" by M. O'Connell (Census Bureau)
- 9310 - "Effectiveness of Oversampling Low Income Households in the Survey of Income and Program Participation" by T. Allen, R. Petroni and R. Singh
- 9311 - "Informal Mechanisms For Government Decision-Making: Case Study of a Team Approach to Redesigning the Survey of Income and Program Participation" by D.H. Weinberg (Census Bureau)
- 9312 - "The Earned Income Tax Credit: Participation Compliance, and Antipoverty Effectiveness" by J.K. Scholz (University of Wisconsin-Madison)
- 9313 - "Effects of a Cognitive Interviewing Approach on Response Quality in a Pretest for the SIPP" by K.H. Marquis, J.C. Moore and K.E. Bogen (Census Bureau)
- 9314 - "Cross-Sectional Imputation and Longitudinal Editing Procedures in the Survey of Income and Program Participation" by S.G. Pennel (The University of Michigan)
- 9315 - "Who's Wealthy? Who's Not? Stability and Change in Sociodemographic Covariate Structures of Positive, Zero, and Negative Net Worth Data in the Survey of Income and Program Participation" by K.C. Land and S.T. Russell
- 9316 - "Are College-Educated Young Persons Finding Good Jobs? A Look At Some of the Evidence" by P. Ryscavage (Census Bureau)

1992

- 9201 - "Changes in Parent-Child Coresidence in Late Life" by A. Speare, Jr. (Census Bureau/Brown University and R. Avery (Brown University)
- 9202 - "Who Helps Whom in Older Parent-Child Families" by A. Speare, Jr. (Population Studies and Training Center) R. Avery (Brown University)
- 9203 - "Testing Alternative Household Roster Questions For the Survey of Income and Program Participation" by D. Cantor and C. Edwards
- 9204 - "Pretest Results of An Alternative Measurement Design For the Survey of Income and Program Participation" by K. Bogen, J.C. Moore and K.H. Marquis (Center For Survey Methods Research and Census Bureau)
- 9205 - "Dependent and Independent Data Collection in Panel Surveys: Analysis of 1985-1986 SIPP Occupation and Industry Data" by D.H. Hill (Survey Research Institute/University of Toledo)
- 9206 - "The Survey of Income and Program Participation in the 1990's" by D.H. Weinberg and R.J. Petroni (Census Bureau)

- 9207 - "A Statistical Profile At-Risk Children in the United States" by C. Winqvist Nord and A. Rhoads (Child Trends, Inc.)
- 9208 - "Social Security Earnings of Wives Relative to Their Husbands: A Cohort Analysis" by H.M. Iams (Social Security Administration)
- 9209 - "Private Health Insurance and the Utilization of Medical Care by the Elderly" by V. Wilcox-Gok and J. Rubin
- 9210 - "Analyzing Spells of Program Participation in the SIPP" by G. Kalton, D.P. Miller, and J. Lepkowski
- 9211 - "Time in Panel Effects in the SIPP" by G. Kalton, J.M. Lepkowski, S.G. Pennell, D.P. Miller and E. Luis

1991

- 9101 - "Trends in Income and Wealth of the Elderly in the 1980's" by P. Ryscavage (Census Bureau)
- 9102 - "The Impact of Survey and Questionnaire Design on Longitudinal Labor Force Measures" by A. Martini (Mathematica Policy Research) and P. Ryscavage (Census Bureau)
- 9103 - "Using SIPP to Analyze Black-White Differences in Youth Employment" by G.C. Gain and P.M. Gleason (University of Wisconsin)
- 9104 - "A Random-Effects Approach to Attrition Bias in the SIPP Health Insurance Data" by J.A. Klerman (The Rand Corporation)
- 9105 - "Alternative Samples For Welfare Duration in SIPP: Does Attrition Matter?" by J. Fitzgerald (Census Bureau/Bowdoin College) and X Zuo (Census Bureau/Shanghai Academy of Social Science)
- 9106 - "Job-Exits and Job-to-Job Transitions in the United States: An Empirical Analysis Using SIPP" by T.J. Devine (Pennsylvania State University)
- 9107 - "The Flow of Household Income in the 1984 Survey of Income and Program Participation" by H.W. Watts (Census Bureau/Columbia University), D.B. McMillen (Census Bureau) and L. Moeller (Census Bureau/Columbia University)
- 9108 - "The Survey of Income and Program Participation as a Source of Data on Children and Families: A Comparison of Estimates Derived From SIPP With Estimates From Other Sources" by C. Winqvist Nord and A. Rhoads (Child Trends, Inc.)
- 9109 - "Health Insurance Coverage Among the Elderly" by V. Wilcox-Gok (Department of Economics and Institute For Health) and J. Rubin (Health Care Policy, and Aging Research)
- 9110 - "A Cognitive Approach to Redesigning Measurement in the Survey of Income and Program Participation" by K.H. Marquis, J.C. Moore and K.E. Bogen (Census Bureau)
- 9111 - "Effects of Measurement Error on Occupational Event History Analysis" by D.H. Hill (University of Toledo)
- 9112 - "Record Use by Respondents" by R. Kominski (Census Bureau)
- 9113 - "Reciprocity History and Left-Censored Spells of Program Participation in the SIPP" by K. Short and J. Eargle (Census Bureau)
- 9114 - "Receipt of Food Stamps by Longitudinal" by N.R. Burstein (Abt Associates, Inc.)

SIPP FILES

- 9115 - "Within PSU Sort and Stratification Research to Improve Survey Efficiency" by M. Gorsak, K. Mansur, D. Fenstermaker and R. Petroni (Census Bureau)
- 9116 - "Marital Separation and the Economic Well-Being of Children and Their Absent Fathers" by S.M. Bianchi (Census Bureau)
- 9117 - "Rationale For a SIPP-Based Microsimulation Model of SSI and OASDI" by B. Wixon and D.R. Vaughan (Social Security Administration)
- 9118 - "Implementing An SSI Model Using the Survey of Income and Program Participation" by B. Wixon and D.R. Vaughan (Social Security Administration)
- 9119 - "Local Labor and Local Effects on Welfare Duration: Evidence From SIPP" by J. Fitzgerald (Census Bureau) and X. Zuo (Bowdoin College and Shanghai Academy of Social Science)
- 9120 - "Oversampling the Low-Income Population in the Survey of Income and Program Participation" by G.D. Weller, V.J. Huggins and R.P. Singh (Census Bureau)
- 9121 - "Estimates of the Uninsured Population From the Survey of Income and Program Participation: Size Characteristics, and the Possibility of Attrition Bias" by K. Swartz (The Urban Institute)

1990

- 9001 - "Recent Developments in the Survey of Income and Program Participation" Census Bureau
- 9002 - "An Analysis of Leaving Home Using Data From the 1984 Panel of the SIPP" by Alden Speare, Roger Avery and Frances Goldscheider (Brown University)
- 9003 - "The Effect of the Marriage Market on First Marriages: Evidence From SIPP" by John Fitzgerald (Bowdoin College)
- 9004 - "Counting Spells of Unemployment" by Paul Ryscavage and Kathleen Short (Census Bureau)
- 9005 - "The Elderly and Their Sources of Income: Implications for Rural Development" by Robert Hoppe, (Economic Research Service, U.S. Department of Agriculture)
- 9006 - "Alternative Estimates of Economic Well-Being by Age Using Data on Wealth and Income, Daniel Radner (Social Security Administration)
- 9007 - "Longitudinal Analysis of Federal Survey Data" by Patricia Ruggles (Joint Economic Committee)
- 9008 - "Measurement Errors in SIPP Program Reports" by Kent H. Marquis and Jeffrey C. Moore (Census Bureau)
- 9009 - "Handling Single Wave Nonresponse in Panel Survey" by R. Singh, V. Huggins, and D. Kasprzyk (Census Bureau)
- 9010 - "Nonresponse Research for SIPP" by R. Petroni (Census Bureau)
- 9011 - "The Seam Effect in Panel Surveys" by G. Kalton, D. Hill, and M. Miller (University of Michigan)
- 9012 - "The Effects of Being Uninsured on Health Care Service Use: Estimates from the SIPP" by S. Long and J. Rodgers (Congressional Budget Office)
- 9013 - "Wage Differential and Job Changes" by S. Seninger and D. Greenberg (University of Maryland)

- 9014 - "Wages and Employment Among the Working Poor: New Evidence From SIPP" by S. Long and A. Martini (The Urban Institute and Mathematica Policy Research)
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1993

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_____ 9302	_____ 9308	_____ 9314
_____ 9303	_____ 9309	_____ 9315
_____ 9304	_____ 9310	_____ 9316
_____ 9305	_____ 9311	
_____ 9306	_____ 9312	

1994

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_____ 9402	_____ 9407
_____ 9403	_____ 9408
_____ 9404	_____ 9409
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1995

_____ 9501

APPENDIX D

Machine-Readable Data Dictionary Layout

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

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

FORMAT

"*" LINE COMMENTS

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

"D" LINE DATA DICTIONARY

This line contains the following information:

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

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

"U" LINE UNIVERSE DEFINITION

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

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

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

"V" LINE VALUE DEFINITION

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

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

APPENDIX E-1

School Enrollment and Financing SIPP Data Review

INTRODUCTION

This report provides a review of the data quality of the Wave 5 School Enrollment and Financing topical module from the 1993 panel of the Survey of Income and Program Participation (SIPP). The questions concern school enrollment, costs and sources of financing for students in all types of schooling. This wave was administered during the summer of 1994, and the questions reference the prior 12 months, that is, activities during the "past year." The data are discussed in the context of sample attrition, item and module nonresponse, and the overall reasonableness of the data.

SAMPLE ATTRITION

A rectangular data file of the Wave 5 enrollment and financing data for persons age 15 and older was constructed using SAS. The file contains 39,491 person records; the universe of interest for tabulation are those persons who have non-zero weights in the interview month, which is 37,566 cases. A tabulation of selected unweighted items matches the DSD post-edit/imputation control counts.

The number of households eligible for interviewing in Wave 5 was 20,847. By this wave 1,253 households were not in sample, that is, they were a part of the original sample, but by this point in time had missed multiple interviews and were no longer interviewed. Of the remainder, 18,542, or about 89 percent, were successfully interviewed. Within households, there is also loss of persons. As with entire households, this loss may be due to refusals, or because a given individual has moved and cannot be followed. The loss of persons in interviewed households in Wave 5 (for the interview month) was 1,925 persons, or 5 percent of the eligible person population. This includes persons who may have been in sample for part of the wave, but who are out of sample by the interview month. (Another 7 persons have interview data, but also have a zero-weight for the interview month. Since the topical module is referenced to the interview month only, calculating loss in terms of persons with a zero weight in that month is a reasonable method.) Table 1 shows the pattern of loss for several basic demographic factors. Tests for significant patterns of loss in the sample data from the prior wave are made using a chi-square test that has been adjusted for sample design. (The simple adjustment is to divide the calculated chi-square value by 3.) Using this method we find significant loss by age and race/ethnicity at the .05 level, with greater loss occurring for persons who are less than 35 years of age or who are Hispanic or Black and not of Hispanic origin.

ITEM AND MODULE NONRESPONSE

In addition to the loss of data caused by noninterviewed households and persons, information is also lost because of simple nonresponse. Persons may not respond for a variety of reasons, and nonresponse may occur for the entire topical module, or only for selected items. In Wave 5, 2,623 of the non-zero weight persons, about 7.0 percent of the "active" sample, did not respond to the entire module. Of these, 1,703 (65 percent) were in fact Type Z interview cases, that is, they were not interviewed at all (either because they refused or an interview could not, for whatever reason, be arranged.) Table 2 summarizes the distribution of module nonrespondents by several basic demographics. Total nonresponse appears to have been somewhat more common among Blacks, younger persons, males, and persons with 9 to 12 years of schooling (tested for significance at the .05 level). Despite the presence of the total module nonrespondents, most module questions are answered by most persons; of the 6,668 persons responding "yes" to the first item (TM9610), 64 percent had no

imputed items in this section, and 84 percent had 2 or fewer imputations.

Table 3 shows the imputation levels and rates for each of the specific items in the module that undergo imputation. Note that the basic item on enrollment (TM9610) and the actual yes/no items for reciprocity (e.g., TM9628, TM9632, TM9636...TM9672) are not part of the imputation scheme. Instead, these items undergo an extensive edit process which checks information in three other places in the questionnaire:

- 1) the education questions asked in the core
- 2) responses in the employment section of core which identify school enrollment
- 3) reciprocity markers on the control card for primary educational financing sources in either of the two waves prior to the current one

If an individual has not responded to the school enrollment item in the topical module, but demonstrates positive evidence from any of these three sources, they are edited to have answered yes to TM9610. A similar extensive edit verification routine is used to "infer" the basic "yes/no" reciprocity items in cases where there is nonresponse. If after going through this edit no evidence is discovered to "infer" a positive response, the case is assumed to be a non-enrollee, and thus, a non-recipient. This method is different from that used in the 1984 panel, and in general, appears to have improved the estimates of both enrollment and reciprocity. For example, about 767 of the 2,654 nonresponses to the basic item of school enrollment were "inferred" an answer of "yes" based on other information in the questionnaire.

For items which do undergo imputation, the rates shown were calculated using only the appropriate denominator; since skip patterns modify the interview universe for any given question, rates calculated on the entire sample universe may be quite misleading. These adjusted item nonresponse rates avoid this problem.

In general, the rates for the educational financing section are somewhat high, primarily because they require the reporting of specific amounts, instead of choices from a list of closed-ended categories. The imputation rates for tuition, books, and room and board were 37, 34 and 40 percent, respectively. (These levels are similar to those obtained in previous waves where this module was administered.) It is important to note that only about 38 percent of all answers of "yes" in item TM9610 were given by a self-respondent. Since this answer determines the sub-universe for the remaining questions, over half of the amounts data is being provided by someone other than the actual subject. Nonresponse for aid reciprocity amounts is also high: the unweighted average nonresponse rate for the 12 different aid sources is about 51 percent, and ranges from 38 percent to 66 percent. The main reason for these high levels is because of the large proportion of cases which have had basic reciprocity "inferred" from information about previous waves.

REASONABLENESS OF DATA

The comparison of weighted survey estimates to estimates derived from other sources acts as another check of the general quality of the data. Sample loss and nonresponse notwithstanding, if editing, imputation and weighting procedures are properly applied, the final weighted data should compare favorably, at least in univariate or bivariate context, with other known estimates of the same

phenomenon. In the discussions which follow, comparisons are made to administrative estimates where available.

A. School Enrollment

The initial question asks persons if they were enrolled in school anytime during the past year. The parenthetical expression instructs the interviewer to tell the respondent to include any regular school such as elementary, high school or college, or any vocational, technical or business school. Clearly, this is a very general question, and should elicit a large number of responses. In fact it does, yielding a weighted estimate of about 36.1 million persons. There is no administrative number which can provide a good basis for comparison. School enrollment is generally determined in a "snapshot" context, that is, as of a certain date what numbers of people were and were not enrolled in school. The October Current Population Survey (CPS), for instance, is the other basic Census tool for measuring school enrollment. Here, the item concerning enrollment is referenced to the interview week. Other surveys conducted by the Department of Education and the National Center for Education Statistics also use a "snapshot" approach in collecting data. At levels beyond high school, enrollment may not be a year-long activity; people move in and out of the system much more rapidly. Consequently, estimates obtained from the snapshot approach should be lower than those yielded by a question such as the one used in SIPP. The point of closest correspondence should occur at the elementary and high school level, where fall enrollment numbers probably accurately reflect how many persons will be in those levels at any time during the year.

At the combined elementary and secondary level, the P93W5 estimate of 14.3 million persons is close to the October CPS estimate of 14.0 million persons. The SIPP estimate is based on the number of persons who were age 15 or above during the summer of 1994 who were enrolled at the elementary and secondary levels at some point during the previous year. The CPS estimate is based on the number of students age 14 and above enrolled at the elementary and secondary levels (in October 1993) and removing from that total the approximate number, i.e. about 1/4 of 14 year olds, of students who would not have turned 15 (the age of SIPP eligibility) before the time of the SIPP interview in summer 1994. This adjustment makes the population more comparable between the two surveys.

At the college level, the P93W5 estimate of 17.3 million persons is higher than the October 1993 CPS estimate of 13.9 million. Using the Integrated Postsecondary Education Data System (IPEDS), Fall Enrollment Survey, the Department of Education estimated fall 1993 postsecondary enrollment to be 15.5 million. The SIPP estimate is larger than both the CPS and IPEDS estimate which would be expected since SIPP asks about school enrollment for any time within the last year and the CPS reference period is only for the previous week and IPEDS is referenced in the fall only. Since college enrollment and non-regular schooling is not as likely as elementary and secondary to be year-round, the IPEDS estimate is expected to be lower even though it includes enrollment figures for all post-secondary schooling. The estimate for post-secondary schools other than college is estimated at 4.6 million in Wave 5 of the 1993 panel.

B. Educational Costs :

The first amount items in the section ask questions regarding the costs of education, including tuition and fees, books and supplies and room and board for persons living away at school. Strictly comparable administrative figures are not available, but estimates for undergraduate college students from IPEDS probably provide the best administrative data. (The IPEDS data come from "Fall Enrollment" and "Institutional Characteristics" surveys). Estimates of the mean tuition, room and board and books and supplies costs are shown in table A.

Table A. Estimates of costs for the first four years of college from SIPP and administrative sources.

	Administrative	-----SIPP P93W5-----		
		Total	Self	Proxy
Tuition	\$3,810	\$2,117	\$1,806	\$2,365
Room & Board	4,108	3,209	2,936	3,373
Books	-	406	358	459

For the 1993-94 school year (the period most comparable to the SIPP period of reference for this module), the average undergraduate tuition and fees according to administrative sources were estimated to be \$3,810. The SIPP P93W5 estimate for persons in college years 1 through 4 is \$2,117. The cost of room and board derived from the Department of Education data, was \$4,108 a year; in SIPP P93W5 the estimate is \$3,209. The SIPP estimate of the cost of books is \$406, and there is no corresponding independent estimate for comparison.

These "underestimates" of tuition and room and board costs in SIPP replicate the pattern first identified in the Panel 1984 Wave 6 data, and also demonstrated in subsequent educational financing modules. Two contributing factors to the underestimates may be the high proportion of cases requiring imputation, and the fact that for many of the cases for which "direct" data is received, it is taken from a proxy. In fact, as the table above shows, examination of tuition amounts by self/proxy status reveals that the average amounts reported by proxies (probably parents) is much closer to the derived administrative estimate than is the estimate taken as a self-report (that is, from the student themselves).

In addition, the estimates are expected to be lower since Department of Education figures are estimates of costs for the entire academic year. SIPP averages are the means for each student for the past year regardless of amount of time enrolled; for many students the costs of the past year may include only one semester of tuition, thus lowering the average. Administrative estimates of tuition and fees are also weighted by full-time students only. SIPP estimates do not distinguish between full-time and part-time students.

Of course, one should also keep in mind that the estimates derived from the Department of Education are just that---estimates, and as such are likely to have some component of error themselves.

C. Financial Aid Reciprocity

The major data in this section are those concerning the receipt of education financial aid and the amounts of various sources. Respondents are able to report the receipt of 11 different types of financial aid as well as a twelfth residual "anything else" category. Some of the types of aid for which data is collected correspond closely to known financial aid programs, while others are of a more general nature. Table B shows the comparison of weighted SIPP estimates, both in terms of recipients and average amounts, to administrative data (where it is available) from the Department of Education and the Department of Veterans Affairs as well as data from the College Board.

Table B. Estimates of Reciprocity and Average Amount Received in Financial Aid.

SOURCE	RECIPIENTS (in 1000's)			MEAN AMOUNT (in current 93 dollars)		
	Administrative			Administrative		
	P93W5	Estimates	College Board	P93W5	Estimates	College Board
GI Bill	451	387	-	\$2,243	-	-
VEAP	179	110	-	2,813	-	\$2,443
Col Work Study	610	712	713	1,529	1,084	1,066
Pell	3,532	3,756	3,743	1,279	1,506	1,518
SEOG	426	1,068	991	913	705	559
Perkins	1,000	685	697	1,406	1,342	1,334
Stafford	3,346	4,495	5,278	3,129	3,001	3,061
PLUS/SLS	595	1,152	1,227	3,059	3,797	4,098
Employer Asstnc.	3,084	-	-	1,302	-	-
Scholarship/Fell.	2,540	-	-	2,726	-	-
Tuition Reduction	233	-	-	1,827	-	-
Other	3,228	-	-	2,004	-	-

[NOTES: Figures in parenthesis come from the College Board, "Trends in Students Aid: 1984 to 1994." Other figures for CWS, PELL, SEOG, Perkins, and Stafford come from the Department of Education, unpublished data, "Pell Grant: End of the Year Report," and "Updated Tables and Graphs for the FY1994 Guaranteed Student Loan Data Book."

Note that for both the College Board and the Department of Education estimates, the PLUS/SLS figure may be higher than the SIPP estimate since students may receive both types of loans. In SIPP, the respondent is asked to report receiving either type of loan and would not be counted twice if both kinds are received. Also, the average amount received for the veterans' aid is calculated as the total amount of aid for the fiscal year (from College Board, "Trends in Student Aid") divided by the number of recipients as reported by the Veterans Administration.]

Numbers of Recipients: With respect to the total number of recipients in specific programs, the general pattern of the data indicate that the SIPP estimates are close to some administrative and college board estimates. (As always, one should remember that these estimates may not be directly comparable in all cases to the reference period for the SIPP data.) However, some point estimates fall below other estimates, indicating that there is room for improvement. Part of the problem in collecting detailed sources such as these is that respondents may not be able to recall the specific program from which their funds came, especially when the report is given by a proxy. For example, different loan-types may be assumed to be only a guaranteed loan or even a scholarship. In this regard, the estimate for any specific program may not be very precise, but the overall estimate of all educational financing sources is probably much more comprehensively measured than in other studies and certainly more than in any single administrative context. Of course, that is what SIPP is supposed to be able to do --- measure the conjoint occurrence of different financial sources.

Estimates of Aid Amounts: Examination of the dollar amounts reported by the recipients of these programs continues to show some discrepancies from the available administrative and college board estimates. While the mean amounts received for some programs correspond closely to the administrative numbers (note those for the Stafford and Perkins loans), some SIPP estimates are higher than the available administrative estimates. Unfortunately, for many sources of educational aid, comparative administrative data do not exist; thus it is not possible to determine if the estimates of sources such as "employer assistance" and "tuition reductions" are accurate or reasonable.

The estimates of recipients and amounts for financial aid sources continue to show some variation from other available administrative estimates. The lack of exact knowledge and comparability of any and all external data sources we might find, however, should lead users to show caution in the detailed analysis of specific kind of aid. Individuals using these data might instead draw their focus in terms of "total packages" of aid and costs; in this respect these data would seem to offer a high degree of reasonableness.

SUMMARY

The educational financing data collected in the 5th Wave of the 1993 Panel of SIPP appears to have a high degree of reasonableness and utility when evaluated along a number of different dimensions. Estimates of the number of recipients and the amounts they receive for specific sources continue to show some variability from the administrative estimates. Caution should, therefore, be exercised in detailed analysis of specific aid sources; however, in terms of "overall" pictures of students, their costs and their sources of aid, the data as a whole appear to be of good quality. Several points should be kept in mind when using these data:

1) Edits/Imputations - The implementation (in the 1985 Panel) of a more rigorous edit procedure which checks data from both the core and three prior waves to look for the actual report of any of the aid sources identified in the topical module seems to have worked quite well. Nevertheless, this increase in the number of "inferred" recipiencies provides a large base for the number of cases which must then have an amount imputed. This explains imputation rates of around 50 percent for some specific amount sources.

2) Proxy Responses - Probably because of the nature of the subpopulation of concern (i.e., students away at school), proxy response is quite high for the enrollment and financial aid items. This in turn acts to drive up the nonresponse (and imputation) rate, particularly for items which do not have

closed-ended response categories, and items which require an amount as a response. Additionally, for items such as tuition and room and board costs, proxy responses seem to be much closer to administrative estimates than those given as self-reports. One possibility is that the proxies (parents) have a better idea of the amounts they may be paying than do the students, many of whom are not responsible for paying the bills. Much of the financial aid, however, may go directly to the institution and thus is never really seen by the respondent, whether self- or proxy-interview.

3) Amounts - In general, the ability of an individual to return a reliable amount (or any amount), even for self-respondents, is less than the ability to return a yes/no or closed-ended response. The simple item non-response rates of amount items vs. other types of items demonstrates this point.

Table 1. Demographic Characteristics of Interviewed and
Non-Interviewed (Zero-Weight) Persons: SIPP Panel
1993 Wave 5

Characteristics	Zero-Weight	Positive Weight	Adjusted X ²	Degrees of Freedom
AGE				
15 to 34	896 (.46)	13,974 (.38)	26.4	2*
35 to 54	660 (.34)	13,573 (.36)		
55 +	376 (.19)	10,012 (.27)		
EDUCATION				
0 to 8 years	158 (.08)	3,311 (.09)	4.3	2
9 to 12 years	1,062 (.55)	19,066 (.50)		
college +	712 (.37)	15,182 (.40)		
RACE AND ETHNICITY				
White-NH	1,354 (.70)	29,719 (.80)	29.9	3*
Black-NH	246 (.13)	3,369 (.09)		
Other-NH	100 (.05)	1,379 (.03)		
Hispanic	232 (.12)	3,092 (.08)		
SEX				
Male	950 (.49)	17,653 (.47)	1.2	1
Female	982 (.51)	19,906 (.53)		

NOTE: Proportions may not sum to 1.00 due to rounding error

* indicates significance at the .05 level

Table 2. Demographic Characteristics of Module Non-Respondents:
SIPP Panel 1993 Wave 5

Characteristic	Non-Interview	Module Respondent	Module Nonrespondent	Adjusted X ²	Degrees of Freedom
AGE					
15 to 34	891 (.46)	12,835 (.37)	1,144 (.44)	53.7*	4
35 to 54	659 (.34)	12,608 (.36)	966 (.37)		
55 +	375 (.19)	9,497 (.27)	516 (.20)		
EDUCATION					
0 to 8 years	158 (.08)	3,160 (.09)	151 (.06)	37.1*	4
9 to 12 years	1,055 (.55)	17,504 (.50)	1,569 (.60)		
college +	712 (.37)	14,276 (.41)	906 (.34)		
SEX					
Male	946 (.49)	16,315 (.47)	1,342 (.51)	7.5*	2
Female	979 (.51)	18,625 (.53)	1,284 (.49)		
RACE AND ETHNICITY					
White-NH	1,348 (.70)	27,724 (.79)	2,001 (.76)	46.4*	6
Black-NH	246 (.13)	3,091 (.09)	278 (.11)		
Other-NH	99 (.05)	1,227 (.04)	153 (.06)		
Hispanic	232 (.12)	2,898 (.08)	194 (.07)		

NOTE: Proportions may not sum to 1.00 due to rounding error

* Indicates significance at the .05 level

Table 3. Item Nonresponse Rates: SIPP Panel 1993, Wave 5

Source Code (Education Items)	Nonresponses	Adjusted Rate (%)
9612	222	3
9616	205	8
9618	1,532	37
9620	1,419	34
9622	647	16
9624	328	40
9630	31	39
9634	17	53
9638	65	59
9642	303	50
9646	38	50
9650	106	62
9654	272	46
9658	62	57
9662	258	44
9666	202	45
9670	18	38
9674	386	66

APPENDIX E-2

Annual Income, Retirement Accounts and Taxes SIPP Data Review

None available, data not edited.

APPENDIX F

User Notes

This section is reserved for any information relevant to the SIPP 1993 Panel, Wave 5 School Enrollment and Financing Topical Module Microdata File or Wave 8 Annual Income, Retirement Accounts and Taxes Topical Module 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.

