

**THE SURVEY OF INCOME AND  
PROGRAM PARTICIPATION**

**ENHANCING DATA FROM THE  
SURVEY OF INCOME AND  
PROGRAM PARTICIPATION WITH  
DATA FROM ECONOMIC CENSUSES  
SURVEYS**

No. 06

Douglas K. Sater

U.S. Department of Commerce U.S. CENSUS BUREAU

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**U.S. Department of Commerce BUREAU OF THE CENSUS**

## PREFACE

The Survey of Income and Program Participation (SIPP) is a new Census Bureau survey designed to collect a host of information on the social, demographic, and economic situation of the Nation's individuals and families. The data in the SIPP will be extremely valuable to labor market analysis, but, as with all demographic surveys, do not include characteristics of the employer for which the sample persons worked. This suggests the need to augment the SIPP data with data on the employer.

The pilot project will investigate various methodologies for matching individuals in the SIPP to their employers in the economic censuses, test the chosen methodology, identify problem areas and devise solutions, conduct the match for a pilot sample, develop proposals for analysis, and begin selected analysis.

This paper describes the matching methodology, matching problems and resolutions, and other issues such as access problems, error identification and estimation, adjustment for matching problems, and data releases.

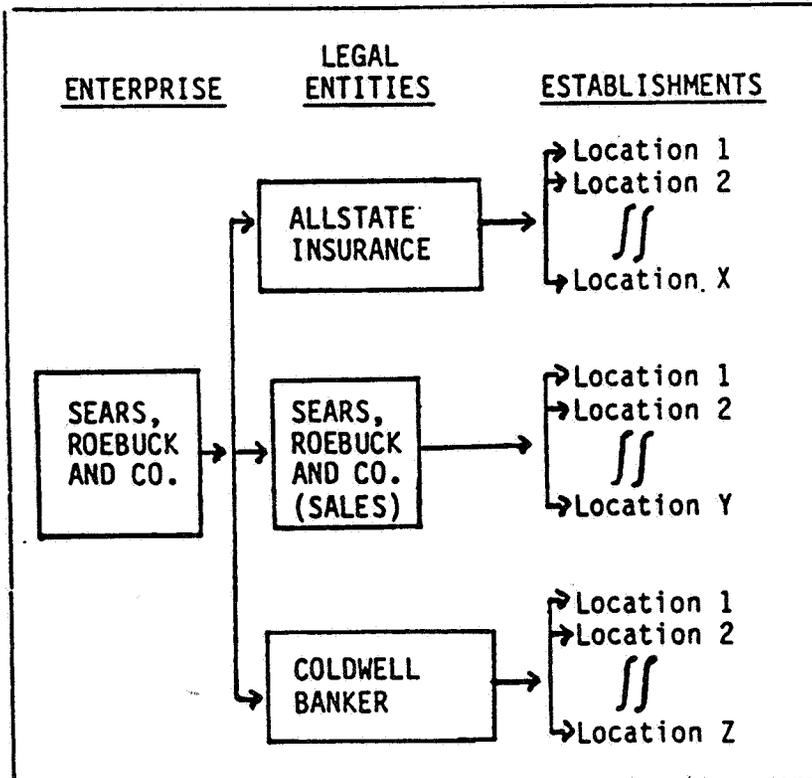
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INTRODUCTION/PROJECT OUTLINE

The Survey of Income and Program Participation (SIPP) is a new Census Bureau survey designed to collect a host of information on the social, demographic, and economic situation of the Nation's individuals and families. The SIPP is a longitudinal personal interview survey which began in October 1983 with three interviews, or waves, per year. The SIPP collects data on cash and noncash sources of income, participation in selected benefit programs, taxes, assets, liabilities, numerous demographic characteristics, and data relating to the individual's labor force activities such as education, job training, prior work experience, characteristics of the current and previous job, and health and disability (see Herriot and Kasprzyk (1984) and Nelson (1984) for a more complete description). These data in themselves will be extremely valuable to labor market analysis, but are limited in that they do not include characteristics of the employer for which the sample persons worked. The potential uses suggest the need to augment the SIPP data with data on the employer.

Such data can be found in the Census Bureau's numerous economic censuses and surveys, such as the Census of Manufactures (CM). For example, data for establishments from the CM include: number of employees, payroll, sales, receipts, hours worked by production employees, cost of materials and services used, inventories, capital expenditures, value of shipments, and--on a sample basis--supplementary labor costs, value of depreciable assets, value of retired depreciable assets, depreciation, rental payments, and value of shipments to other plants of the same company.



## ACCESS PROBLEMS AND RESOLUTIONS

The SIPP and economic data files actually used in this study are prepared at the Census Bureau under the authority and protection of Title 13 of the U.S. Code. Thus, the access to these data files by Census Bureau personnel pose only very minor problems. The SSEL, however, requires more consideration. It is a hybrid of census and administrative data from the Social Security Administration (SSA) and from the IRS; we are looking into the access issues for such a hybrid.

The confidentiality provisions of Title 13, however, prohibit access to these data by non-Bureau personnel. Only tabulations or public-use microdata files which have been prepared so that no individual, household, or business can be identified would be available for use by non-Bureau personnel. Issues concerning the access to and the release of tabulations or public-use microdata files derived from this augmented data set are discussed in "Data Releases--Microdata Files/Tabulations" on page 22. Since one of the alternative matching methodologies involves the use of W-2 information (Social Security number (SSN) and employer identification number (EIN)) from IRS files, issues involving access to W-2 records by the Census Bureau are discussed briefly.

Does the Census Bureau have access to the W-2 data? The W-2 information is classified as tax return information under the Tax Reform Act of 1976 and, as such, is governed by the IRS confidentiality laws and regulations. These laws and regulations provide for the confidentiality of the tax return information and for the special exceptions whereby identifiable tax return information may be disclosed. The Census Bureau is authorized access to the W-2 information for this project by Title 26 of the U.S. Code, Section 6103(j) and Title 26 of the Code of Federal Regulations, Section 6103(j)(1)-1(b)(2)(iii). To obtain the data, the Census Bureau must request the information specifying the exact data required, how it will be used, and citing the above authorization in correspondence from the Secretary of Commerce to the Secretary of the Treasury.

Operationally, how can the Census Bureau obtain the W-2 information?  
Alternatives considered:

- 1) The Census Bureau could provide the IRS with a "finder file" of SSN's and have IRS staff extract the W-2 information for these SSN's. This is prohibited by the confidentiality provisions of Title 13 which prohibits the Census Bureau from releasing any data which would permit the identification of any particular household, individual, or establishment. One proposed solution was to augment the finder file with false SSN's to attempt to mask the survey respondents.
- 2) The Census Bureau staff could work with the IRS staff in developing the programs, then "take over" a site where this is the only process running and confidentiality would be assured because only the Census Bureau personnel would be involved in running the project.

Each household is interviewed once every 4 months for 2 2/3 years to produce sufficient data for longitudinal analyses while providing a relatively short recall period for reporting monthly income. The reference period for the principal survey items is the 4 months preceding the interview. For example, in October, the reference period is June through September; when the household is interviewed again in February, it is October through January. This interviewing plan will result in eight interviews per household.

To facilitate field operations, each sample panel is divided into four approximately equal subsamples, called rotation groups; one rotation group will be interviewed in a given month. Thus, there is only one cycle or "wave" of interviewing and processing workload each month instead of one large workload every 4 months; however, it results in each rotation group using a different reference period.

The content of SIPP was developed around a "core" of labor force and income questions designed to measure the economic situation of persons in the United States. These questions expand the data currently available on the distribution of cash and noncash income and are repeated at each interviewing wave. SIPP core data build an income profile of each person aged 15 and over in a sample household. The profile is developed by determining the labor force participation status of each person in the sample and asking specific questions about the types of income received, including transfer payments and noncash benefits from various programs, for each month of the reference period. A few questions on private health insurance coverage are also included in the core.

Persons employed at anytime during the 4-month reference period are asked to report on jobs held or businesses owned, number of hours and weeks worked, hourly rate of pay, amount of earnings received, and weeks without a job or business.

In addition to questions about labor force activity and earnings from a job, self-employment, or farm, the core includes questions related to nearly 50 other types of income. Questions about common income types are specifically asked while the receipt of less common income types are elicited through general probing questions. Questions are asked about the receipt of government transfer payments from retirement, disability, unemployment benefits, and welfare programs. Information on whether covered by programs such as Medicare and Medicaid is also obtained. Other income questions in the core relate to private transfers such as pensions from employers, alimony, and child support. For certain income types, such as food stamps, questions are included which help to identify the household members covered by the payment, thus allowing the proper construction of program analysis units. Finally, the core data also include questions on the ownership of assets which produce income, such as savings accounts, money market accounts, interest earning checking accounts, stocks, mutual fund shares, and rental property. The amounts of income received from these income producing assets are also obtained, as well as an indication of joint holding and estimates of account balances if the amount of interest is now known.

- 9) the Census of Service Industries (CSE)
- 10) the Capital Expenditure Survey (CE)
- 11) the Research and Development Expenditures Survey file (R&D)
- 12) the Quarterly Financial Report (QFR)

As an example of the data available from these sources, the CM includes: number of employees, payroll, sales, receipts, hours worked by production employees, cost of materials and services used, inventories, capital expenditures, value of shipments, and--on a sample basis--supplementary labor costs, value of depreciable assets, value of retired depreciable assets, depreciation, rental payments, and value of shipments to other plants of the same company. More details can be found in Haber et al. (1984).

The economic censuses also contain a census file number (CFN) which uniquely identifies the establishment (and the enterprise for multi-establishment organizations), and the establishment name and address, but does not contain the EIN.

The Standard Statistical Establishment List (SSEL) is a centralized multi-purpose computerized name and address file of all known multi-establishment and single-establishment employer firms and nonemployer agricultural firms in the United States. The establishment is the basic building block of the SSEL as it is considered to be the smallest basic unit for which key figures of economic activity such as employment, payroll, and the value of products or services are available.

For the SSEL, EIN's with only one establishment (and not owned or controlled by or affiliated with another enterprise) are referred to as Single Unit (SU) enterprises or companies. Multi-establishment EIN's or affiliated single-establishment EIN's are referred to as Multi-Unit (MU) enterprises or companies. A legal entity which is owned or controlled by another enterprise is called a "subsidiary." Each subsidiary possesses a separate EIN.

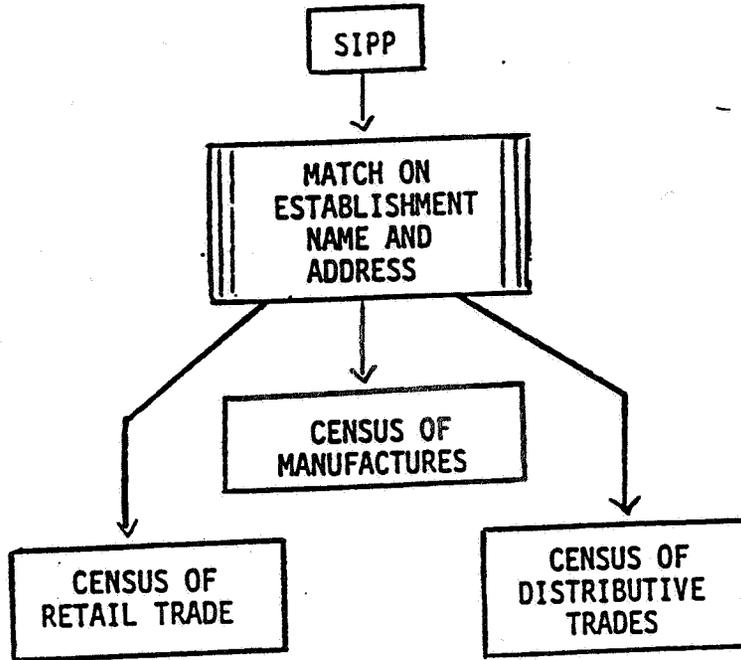
The SSEL, prepared and maintained by the Census Bureau, contains selected economic data, the establishment name and address, the EIN, and the CFN for the establishment (and the enterprise for multi-establishment organizations).

The Census Control System (CCS) is a set of programs and files for an interactive, random access, name-search process. This file contains selected economic data, the establishment name and address, the EIN, and the CFN. These data are derived from the SSEL. The file also contains selected search keys: ZIP Code from the address, a name-search key, the EIN, and the CFN.

The W-2 file is based on computerized and noncomputerized W-2 forms provided to the SSA by each employer. Selected information from this form is posted to the W-2 master file. The W-2 file contains the SSN of the payee and the EIN of the employer, but does not contain name and address of the employer and address of the payee.

CHART A

OPTION 1



OPTION 2

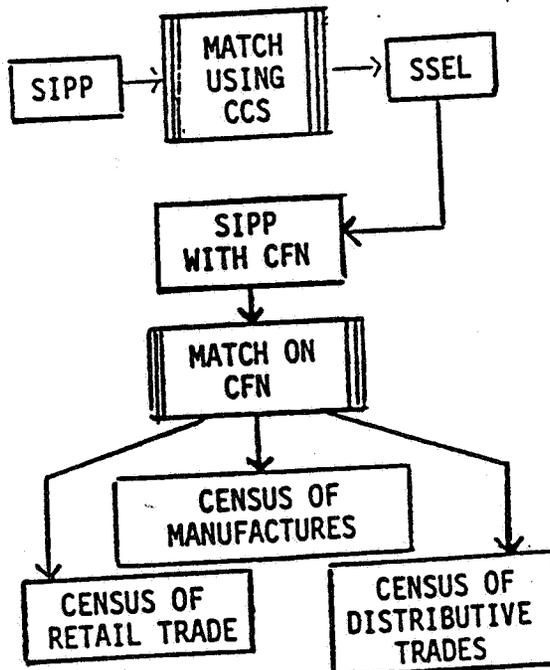
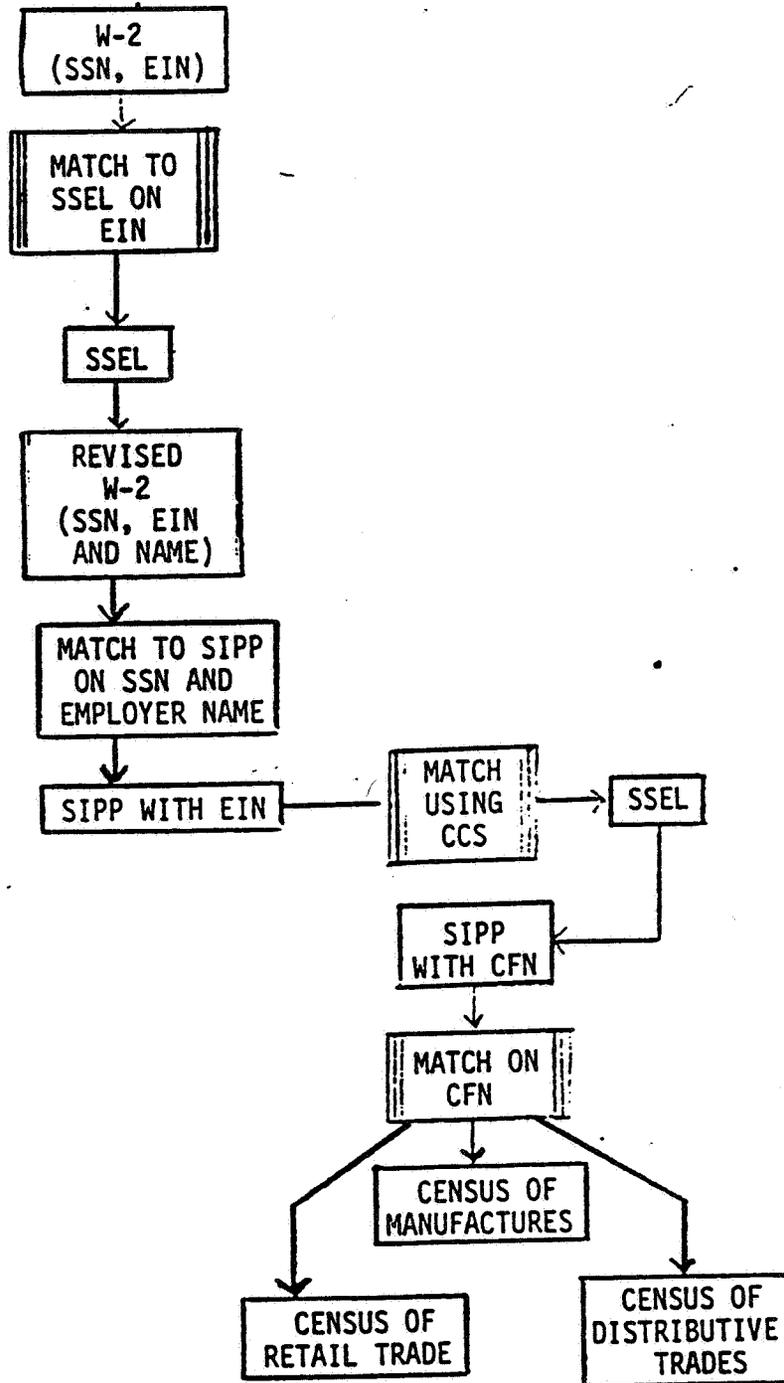


CHART B



This is an oversimplification of the system and records generated, but it gives an idea of the process.

The process, therefore, involves a combination of computer and manual work. To make the process as efficient as possible, a stage-by-stage process has been designed which maximizes the amount of computer work and minimizes the amount of manual review. Of the manual work, a process has been designed which maximizes the first pass SSEL find rate and minimizes the amount of subsequent professional review.

There are several things that can be done in this regard; for example, well-considered sorting of the working file can greatly speed the process. That is, assembling the same employer names in the same group in the search listings will allow one search for many records with the same name. Employers of 250 or more employees account for only 0.7 percent of all employers, but account for 31 percent of all employees (see table 1). Another similar process would be to sort the file on employer names and examine those names with three or more records each. These generally represent companies with more than 135,000 employees. If the EIN is reported and is the same on at least two records (same name and address), it could be transferred to corresponding records with the EIN not reported. At this stage; the posting of the primary master name and establishment EIN for the top 350 establishments (as noted above) can also be done.

TABLE 1--NUMBER OF ESTABLISHMENTS AND EMPLOYEES  
BY EMPLOYER SIZE: 1980 AND 1982 <sup>1/</sup>

Employee Size	1980		1982	
	Number of Establishments	Number of Employees	Number of Establishments	Number of Employees
Total....	4,543,167	74,835,525	4,633,960	74,297,252
1-4.....	2,468,995	5,011,523	2,487,036	5,123,367
5-9.....	897,505	6,362,906	948,398	6,649,092
10-19....	565,392	8,048,663	577,838	8,125,558
20-49....	376,416	11,901,700	385,909	12,003,916
50-99....	131,159	9,266,354	131,775	9,139,345
100-249..	70,568	10,811,345	70,786	10,675,392
250-499..	20,187	7,027,831	19,630	6,768,997
500-999..	8,235	5,689,079	7,938	5,435,817
1,000+...	4,710	10,716,124	4,650	10,375,768

<sup>1/</sup> Excludes employees of interstate railroads and governments. Data are for the week including March 12, 1980, and March 12, 1982.

SOURCE: 1980 County Business Patterns

After these initial improvements are made, all records with EIN's for computer matching on the EIN can be extracted. For single-establishment EIN's, the CFN can be obtained during this match. However, for multi-establishment EIN's, a manual match on establishment address for that EIN is needed. (Also, the

- 2) Reported name variations due to abbreviations, misspellings, etc.  
For a household interview survey, there are several things that must occur to get a correct name spelling. First, the interviewer must correctly spell the name on the form. Second, a data keyer must correctly read the entry and correctly key the name. This, in itself, is more than ample opportunity for the introduction of errors. Plus, there are errors introduced through phonetic problems. Names such as "Kroehler," "Burroughs," or "Pfeiffer" might pose such problems. Most of the cases with misspelled names are expected to be resolved through the computer-assisted manual search process using "judgement." For example, if we were trying to locate "Krayler, 75 Ely St., Binghamton, NY," we might decide that the correct match is "Kroehler Manufacturing of Binghamton." This process is referred to as judgement because some degree of uncertainty may exist. If uncertainty exists, the case will be referred for further review.
- 3) Reported name variations for franchises and "doing business as" vs. legal name; e.g., "Allen's Shell Station" vs. "Shell Oil Company" and "Wendys" vs. "John G. Smith's Wendys." The match process does not have in its design an a priori process to resolve these problems, but the professional review process may be able to identify and resolve these problems. Example 1--Legal name is "Shell Oil Company," but SIPP reports "Allen's Shell Station" and an address is reported. Using "Allen's Shell Station," the first search will not be successful, so a second search on "Shell Oil Company" may be tried. In this case, the second search would be successful. Example 2--Legal name is "Allen's Shell Station" but SIPP reports "Shell Station" as the name. The first search will not be successful. In an examination of a telephone directory, one might find the entry "Allen's Shell Station" at the address reported in the SIPP. The search then can be successfully completed, but, if the SIPP entry were "Shell Oil" or if the address were not reported, the match could not be made.
- 4) Brother/sister establishments at the same address that are different establishments but have the same common name. It is possible that other SIPP information may provide a clue as to the correct link (such as occupation or industry). However, we expect that we will not be able to accurately link to the correct establishment in this case and are investigating imputation schemes. (See "Adjustment for Matching Problems--Allocation, Reweighting, and Classification of Match Status" on page 21.)
- 5) Address problems--physical location vs. mailing address. Although every effort is made to obtain the physical location for the SSEL file, there are occurrences where the address on the SSEL is the address of the lawyer, accountant, or the administrative office and will be different from the physical address reported by the SIPP respondent. Depending on the particular circumstances, the problems may be solved or may be intractable.

about 4 1/2 minutes per case) were spent trying to find the employer addresses for these cases. We were not, however, always successful in locating this information. Table 2 presents the different levels of employer information and the proportion of cases at each of these levels.

TABLE 2--RESULTS OF ADDRESS SEARCH OPERATION FOR TESTING  
COMPUTER-ASSISTED MANUAL SEARCH PROCESS <sup>1/</sup>

	Number	Percent
Total.....	166	100.0
With Corporate Headquarters.....	94	56.6
No Corporate Headquarters.....	72	43.4
Obtained Establishment Address <sup>2/</sup> ..	72	43.4
Obtained Corporate Headquarters..	44	26.5
Did Not Obtain Corporate Headquarters.....	28	16.9
Did Not Obtain Establishment Address.....	94	56.6
Obtained Corporate Headquarters..	50	30.1
Did Not Obtain Corporate Headquarters.....	44	26.5

<sup>1/</sup> Nonscientific sample of employers (manufactures) in Waves 1 and 2 of the 1984 SIPP Panel.

<sup>2/</sup> These are cases where we could uniquely determine establishment address; i.e., it excludes cases where we located more than one establishment in the area.

Even though an establishment address was found for only 43 percent of the cases, the employer name in the SIPP was matched exactly to the correct enterprise 78 percent of the time. The similar match rate was 78 percent for legal entities (that is, there were no cases that were matched to the enterprise but not to the legal entity) and 51 percent for establishments. For those cases where there was an establishment address, the match rates was: 88 percent for enterprises, 88 percent for legal entities, and 81 percent for establishments. It is possible that a company was reorganized but not yet reflected in the SSEL, and this would have caused a false match on enterprise. The relationship between the SSEL update and the reference period of the SIPP is being examined.

(Note that the lines "Matched to Enterprise" and "Matched to Legal Entity" are not equivalent. As an example, if a person reported he/she worked for "Sears, Roebuck, and Company," the person can be matched to the enterprise, but not to the legal entity--because we wouldn't know which of the following would be the correct legal entity: "Allstate Insurance," "Coldwell Banker and Co.," "Dean Witter Financial Services," or "Sears Merchandise Group." As it turns out in this very small scale test, we did not encounter any cases of this type. Hence, the number matched to the legal entity is 130 and the number matched to the enterprise is also 130.

Type 1--These nonmatches represent cases where more than one establishment was found in the SSEL that were listed at different addresses but still part of the same company, and the company name matched the name reported in the SIPP. A hypothetical example is as follows:

SIPP:	Clinton Aluminum No address
SSEL:	Clinton Aluminum -- Headquarters 1325 Main Street
	Clinton Aluminum -- Clinton Plant 751 Ash Street
	Clinton Aluminum -- Recycling Division 755 Ash Street
	Clinton Aluminum -- Sales Division 98 Poplar Street

If the address was reported in the SIPP, we would be able to match this case. Thirty-one of the 46 nonmatch cases were Type 1's.

match because 26 were not manufacturing establishments (the enterprise level codes were not sufficient); 3 were very small and out-of-scope for the CM; and 1 was of undetermined cause--a true nonmatch.

Considering that neither employer address nor EIN was obtained in the first two SIPP interviews, these results are very encouraging.

### Adjustment for Matching Problems--Allocation, Reweighting, and Classification of Match Status

As in any match project, match confidence flags, methods of imputation, and methods of reweighting for nonresponses to the employer name and false non-matches will need to be developed. The final method will undoubtedly incorporate several of these. At one level, there will be a need to adjust for complete nonmatches using imputation, reweighting, or post-stratification adjustments. However, there is also a second level--where partial information is known. For example, suppose that a person works for a "Wendys" in the Charlotte PSU, and this PSU contains 20 "Wendys." Because there is a substantial amount of information available, it is better to impute based on this information than ignore and reweight. One approach would be to assign average values for all "Wendys" in the area, another would be to randomly assign the person to one of the "Wendys," or to do the assignment according to a probability function based on employment size. The probability of correct match is dependent on the probability function; and, for nonmatch data utility is dependent on the degree of homogeneity of the four establishments. In the "Clinton Aluminum" example, suppose that all four establishments are the same size. Then the chance of a correct match is one in four. In this same example, the wage structure, degree of unionization, etc., are likely to be quite different between the establishments. Thus, a nonmatch will distort the data. In a case such as "Wendys" or "McDonalds," such data distortion would be minimal. There are going to be varying degrees of uncertainty in this process and they will require alternate match status flags. The flags should contain two types of information--a description of the match status and an assessment of the probability of correct match. These methods will be examined in upcoming phases of the project.

### OTHER ISSUES

These issues are also of concern:

- 1) Will differences in reference periods between SIPP and the SSEL cause any problems? How and when is the SSEL updated, and how will this affect the match rates?
- 2) Can/should employment-size data be obtained for government workers, especially state and local governments? Is it important to do so? How will self-employed persons and persons in selected industries (such as agriculture) be handled?
- 3) Is the employer-size data in the SIPP accurate? If it were available in the SIPP Wave 6 topical module, would it help in the search method?

- 5) Finally, the employment, sales, assets, and other data in the file can be top-coded just as income and wealth would be top-coded in an unmatched public-use SIPP file.

The limitation of all of these procedures is that confidentiality is maintained at the expense of data detail and accuracy. Moreover, none of these procedures may be adequate to maintain the confidentiality of the combined SIPP/economic censuses data set and the data may be distorted to such an extent as to preclude meaningful analysis. Research on the development of public-use microdata files from this linked data set will not be a part of this project, but certainly will require investigation.

One alternative to creating public-use SIPP linked data sets with transformed data to maintain confidentiality is to develop programs which would bring investigators to the Census Bureau as Special Sworn Employees. A vehicle for doing this is the ASA/Census Research Fellowship and Associate Program. Appointments in this program, however, are normally for a period of one year. A more attractive proposal would be to establish a visiting scholar program--a joint working agreement between the Bureau and governmental agencies, nonprofit research organizations, and individual academic researchers with university or foundation support. One arrangement would be for prospective users to work with census analysts in the specification of cross-tabulation statistics, econometric models, and other economic and statistical relationships. To ensure confidentiality, all tasks that involve data retrieval and manipulation would be done by census employees, with only final aggregated outputs being made available to the data users. The Bureau has established such a procedure for the Longitudinal Establishment Data file.

Problems in preparing suppression criteria for tabulations are similarly compounded and will require careful examination.

#### CONCLUSIONS AND RECOMMENDATIONS

The results of our investigation have pointed out the unquestioned value and usefulness of a SIPP/economic censuses data set and the feasibility of producing it. We are, therefore, proceeding with the remaining research phases of the project and preparing to conduct the match early this fall.



**Section 2 – EARNINGS AND EMPLOYMENT (Continued)**

**Part A2 – EMPLOYER IDENTIFICATION NUMBER 2**

**10a. What is the name of the other employer for whom ... worked during this 4-month period?**  
*(If ... worked for more than one employer, enter the employer for whom ... worked the second most hours during the 4-month period.)*

PGM 8 Employer Name  
 2100 \_\_\_\_\_

**CHECK ITEM EC** Enter employer ID number from cc item 42, or if a new employer, enter next available ID number →

PGM 8 Employer ID No.  
 2102

**10b. What kind of business or industry was (Name of company or business)?**  
 For example: TV and radio manufacturing, retail shoe store, State Labor Department, farm.

PGM 8  
 2104 \_\_\_\_\_

**C. ASK OR VERIFY –**  
 Is it mainly –

PGM 8  
 2106

1 Manufacturing?  
 2 Wholesale Trade?  
 3 Retail Trade?  
 4 Some other kind of business?

**d. What kind of work was ... doing on this job?**  
 For example: Electrical engineer, stock clerk, typist, farmer

PGM 8  
 2108 \_\_\_\_\_

**e. What were ...'s main activities or duties?**  
 For example: Types, keeps account books, files, sells cars, operates printing press, finishes concrete.

PGM 8  
 2110 \_\_\_\_\_

**f. ASK OR VERIFY –**  
 Was ... an employee of –

PGM 8  
 2112

1 A private company or individual?  
 2 Federal government (exclude Armed Forces)?  
 3 State government?  
 4 Local government?  
 5 Armed Forces?  
 6 Unpaid in family business or farm? –  
     *SKIP to Check Item EB*

**11a. ASK OR VERIFY –**  
 Was ... employed by (Name of employer) during the entire 4-month period?

PGM 7  
 2114

1 Yes – *SKIP to 12*  
 2 No

**b. When was ... employed by (Name of employer) during this 4-month period?**

FROM

2116   Month 2118   Day

TO

2120   Month 2122   Day

**12. ASK OR VERIFY –**  
 How many hours per week did ... usually work at this job?

2124   Hours

x3  None  
 x1  DK

**13. Was ... paid by the hour on this job?**

2126

1 Yes  
 2 No – *SKIP to 15*

**14. What was ...'s regular hourly pay rate at the end of (Read last month or "to" date in item 11b)?**

2128 \$

x1  DK  
 x2  Ref. – *SKIP to Check Item EB*

**15. During the 4-month period how often was ... paid on this job?**

2130

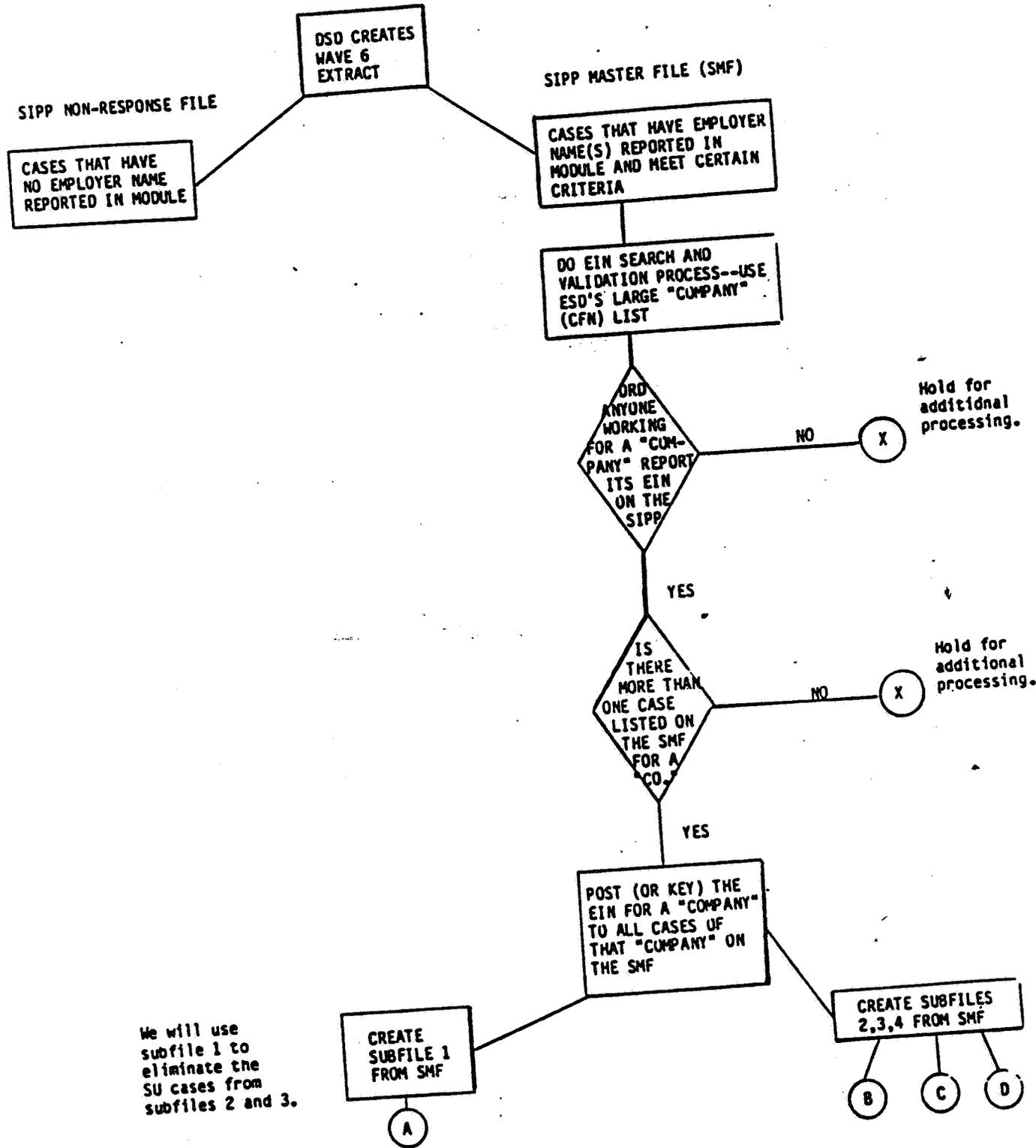
1 Once a week  
 2 Once each 2 weeks  
 3 Once a month  
 4 Twice a month  
 5 Some other way – *Specify*

**Section 2 – EARNINGS AND EMPLOYMENT (Continued)**

**Part B2 – SELF-EMPLOYMENT IDENTIFICATION NUMBER 2**

<p><b>12a. What was the name of ...'s other business/professional practice/farm?</b></p>	<p align="center"><b>PGM 8</b></p> <p align="center">Business name</p> <p align="center">2300</p> <hr/> <hr/>								
<p><b>CHECK ITEM S7</b> Enter business ID number from cc item 43, or if a new business, enter the next available ID number →</p>	<p align="center"><b>PGM 8</b></p> <p align="center">Business ID No.</p> <p align="center">2302</p> <p align="center"><input type="checkbox"/></p>								
<p><b>12b. What kind of business was this?</b></p>	<p align="center"><b>PGM 8</b></p> <p align="center">2304</p> <hr/>								
<p><b>ASK OR VERIFY –</b> <b>C. Is it mainly –</b></p>	<p align="center"><b>PGM 8</b></p> <p align="center">2308</p> <p>1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale Trade? 3 <input type="checkbox"/> Retail Trade? 4 <input type="checkbox"/> Some other kind of business?</p>								
<p><b>d. What kind of work was ... doing?</b></p>	<p align="center"><b>PGM 8</b></p> <p align="center">2308</p> <hr/>								
<p><b>e. What were ...'s most important activities or duties?</b></p>	<p align="center"><b>PGM 8</b></p> <p align="center">2310</p> <hr/> <hr/>								
<p><b>f. How many hours per week did ... usually work at this business?</b></p>	<p align="center"><b>PGM 7</b></p> <p align="center">2312</p> <p align="center"><input type="text"/> <input type="text"/> Hours</p> <p>x3 <input type="checkbox"/> None x1 <input type="checkbox"/> DK</p>								
<p><b>13. Do you think that the gross earnings of this business will be \$1,000 or more during the next 12 months?</b> <i>Gross earnings include sales and receipts before expenses.</i></p>	<p align="center">2314</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 21 x1 <input type="checkbox"/> DK</p>								
<p><b>CHECK ITEM S8</b> Have questions 14–16b already been answered for this business by another household member?</p>	<p align="center">2318</p> <p>1 <input type="checkbox"/> Yes – SKIP to 17a 2 <input type="checkbox"/> No</p>								
<p><b>14. What was the total number of employees working for this business? Be sure to include ....</b> <i>Enter 999 if 1,000 or more employees.</i></p>	<p align="center">2318</p> <p align="center"><input type="text"/> <input type="text"/> <input type="text"/> Employees</p> <p>x1 <input type="checkbox"/> DK</p>								
<p><b>15a. Was ...'s business incorporated?</b></p>	<p align="center">2320</p> <p>1 <input type="checkbox"/> Yes – SKIP to 16a 2 <input type="checkbox"/> No</p>								
<p><b>b. Was ...'s business a sole proprietorship or a partnership?</b></p>	<p align="center">2322</p> <p>1 <input type="checkbox"/> Sole proprietorship – SKIP to 17a 2 <input type="checkbox"/> Partnership</p>								
<p><b>16a. Aside from ... were any other members of this household owners or partners in this business?</b></p>	<p align="center">2324</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to 17a</p>								
<p><b>b. Which members?</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th align="center">Person No.</th> <th align="center">Name</th> </tr> </thead> <tbody> <tr> <td align="center">2326</td> <td><input type="text"/> <input type="text"/> <input type="text"/></td> </tr> <tr> <td align="center">2328</td> <td><input type="text"/> <input type="text"/> <input type="text"/></td> </tr> <tr> <td align="center">2330</td> <td><input type="text"/> <input type="text"/> <input type="text"/></td> </tr> </tbody> </table>	Person No.	Name	2326	<input type="text"/> <input type="text"/> <input type="text"/>	2328	<input type="text"/> <input type="text"/> <input type="text"/>	2330	<input type="text"/> <input type="text"/> <input type="text"/>
Person No.	Name								
2326	<input type="text"/> <input type="text"/> <input type="text"/>								
2328	<input type="text"/> <input type="text"/> <input type="text"/>								
2330	<input type="text"/> <input type="text"/> <input type="text"/>								
<p><b>17a. Was ... paid a regular salary from this business during the 4-month period?</b></p>	<p align="center">2332</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>								
<p><b>b. Did ... receive any (other) income from the business during this 4-month period?</b></p>	<p align="center">2334</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>								
<p><b>CHECK ITEM S9</b> Is "Yes" marked in either item 17a or 17b?</p>	<p align="center">2336</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – SKIP to Check Item S11</p>								

SIPP-SSEL LINK PROJECT



We will use subfile 1 to eliminate the SU cases from subfiles 2 and 3.

**Section 5 — TOPICAL MODULES (Continued)**

**Part A — EARNINGS AND BENEFITS (Continued)**

<b>2c. Was it mainly —</b>	PGM 8 B100 1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Some other kind of business?	PGM 8 B150 1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Some other kind of business?
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<b>d. Was this business primarily located in ...'s own home or somewhere else?</b>	PGM 7 B102 1 <input type="checkbox"/> Own home 2 <input type="checkbox"/> Somewhere else	PGM 7 B152 1 <input type="checkbox"/> Own home 2 <input type="checkbox"/> Somewhere else
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<b>CHECK ITEM 5</b> Is "sole proprietorship" marked in item 2a?	B104 1 <input type="checkbox"/> Yes — SKIP to 2j 2 <input type="checkbox"/> No	B164 1 <input type="checkbox"/> Yes — SKIP to 2j 2 <input type="checkbox"/> No
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<b>2e. Were any other members of this household part-owners of this (business/practice)?</b>	B106 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 2l x1 <input type="checkbox"/> DK	B166 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } SKIP to 2l x1 <input type="checkbox"/> DK
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<b>f. Which other household members were owners?</b>	B108 Person No. <input type="text"/> Name <input type="text"/>	B158 Person No. <input type="text"/> Name <input type="text"/>
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	B110 Person No. <input type="text"/> Name <input type="text"/>	B180 Person No. <input type="text"/> Name <input type="text"/>
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<b>g. Was this (business/practice) owned entirely by members of this household?</b>	B112 1 <input type="checkbox"/> Yes — SKIP to 2l 2 <input type="checkbox"/> No	B162 1 <input type="checkbox"/> Yes — SKIP to 2l 2 <input type="checkbox"/> No
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<b>h. What percentage of this (business/practice) was owned by members of this household?</b>	B114 <input type="text"/> Percent OR x1 <input type="checkbox"/> DK	B164 <input type="text"/> Percent OR x1 <input type="checkbox"/> DK
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<b>i. What percentage of this (business/practice) did ... own in ...'s own name?</b>	B116 <input type="text"/> Percent OR x1 <input type="checkbox"/> DK	B166 <input type="text"/> Percent OR x1 <input type="checkbox"/> DK
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<b>j. What were the gross receipts of this (business/practice) in 1984? Please use records if they are available. ★</b> <i>Obtain estimate, if necessary.</i>	B118 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	B168 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
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<b>k. What were the total expenses of this (business/practice) in 1984? Please use records if they are available. ★</b> <i>Obtain estimate, if necessary.</i>	B120 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.	B170 \$ <input type="text"/> . <input type="text"/> 00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref.
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<b>CHECK ITEM 7</b> Is "DK" marked in either 2j or 2k?	B122 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to Check Item T8	B172 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to Check Item T8
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<b>2l. Information on (receipts/expenses) is especially important for this survey. If we were to call back later could you provide us with an estimate?</b>	B124 1 <input type="checkbox"/> Yes — Mark Reminder Card, Item 11a or 11b 2 <input type="checkbox"/> No	B174 1 <input type="checkbox"/> Yes — Mark Reminder Card, Item 11a or 11b 2 <input type="checkbox"/> No
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TOPICAL MODULES

**Section 5 — TOPICAL MODULES (Continued)**

**Part A — EARNINGS AND BENEFITS (Continued)**

<b>CHECK ITEM T12</b>	Was ... identified as the owner of a corporation in item 2a?	<b>8282</b>	1 <input type="checkbox"/> Yes — SKIP to 4b and consider ... to be an employee of that corporation 2 <input type="checkbox"/> No
<b>CHECK ITEM T13</b>	Are the names of any employers listed for ... on the control card? (cc item 42)	<b>8284</b>	1 <input type="checkbox"/> Yes — SKIP to 4b 2 <input type="checkbox"/> No
<b>CHECK ITEM T14</b>	Were interviews obtained for ... for each of the 2nd, 3rd, 4th, and 5th waves? (cc items 44, 45, 46, and 47)	<b>8286</b>	1 <input type="checkbox"/> Yes — SKIP to Check Item T19 2 <input type="checkbox"/> No
<b>4a.</b>	Did ... work at a paid job at any time during calendar year 1984?	<b>8288</b>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to Check Item T19
<b>ASK OR VERIFY —</b>		<b>8290</b>	<input type="checkbox"/> Employers OR x2 <input type="checkbox"/> None — SKIP to Check Item T19
<b>b.</b>	For how many different employers did ... work during calendar year 1984? <i>(Include self-owned corporations.)</i>		
<b>ASK OR VERIFY —</b>			
<b>4c.</b>	What were the names of the employers that ... worked for in 1984?	<b>PGM 8</b> <b>8300</b>	<b>PGM 8</b> <b>8350</b>
	What is the address of that employer (the address of the physical location)?	<b>PGM 8</b> <b>8302</b>	<b>PGM 8</b> <b>8352</b>
	List up to 3 employers; list employers according to amount of earnings received in 1984, beginning with employer from whom ... received the greatest earnings.	<b>PGM 8</b> <b>8304</b>	<b>PGM 8</b> <b>8354</b>
		<b>PGM 8</b> <b>8400</b>	<b>PGM 8</b> <b>8402</b>
		<b>PGM 8</b> <b>8404</b>	
<b>CHECK ITEM T15</b>	Was information on this employer obtained in Part A1(p.14) or Part A2(p.16)?	<b>PGM 7</b> <b>8310</b>	1 <input type="checkbox"/> Yes, ID number — SKIP to 4i OR 2 <input type="checkbox"/> No
		<b>PGM 7</b> <b>8360</b>	1 <input type="checkbox"/> Yes, ID number — SKIP to 4i OR 2 <input type="checkbox"/> No
		<b>PGM 7</b> <b>8410</b>	1 <input type="checkbox"/> Yes, ID number — SKIP to 4i OR 2 <input type="checkbox"/> No
<b>4d.</b>	What kind of business or industry was (Name of company or business)?	<b>PGM 8</b> <b>8312</b>	<b>PGM 8</b> <b>8362</b>
		<b>PGM 8</b> <b>8412</b>	
<b>e.</b>	Was it mainly —	<b>PGM 8</b> <b>8314</b>	1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Some other kind of business?
		<b>PGM 8</b> <b>8384</b>	1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Some other kind of business?
		<b>PGM 8</b> <b>8414</b>	1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Some other kind of business?
<b>f.</b>	What kind of work was ... doing on this job?	<b>PGM 8</b> <b>8318</b>	<b>PGM 8</b> <b>8366</b>
		<b>PGM 8</b> <b>8418</b>	
<b>g.</b>	What were ...'s main activities or duties?	<b>PGM 8</b> <b>8318</b>	<b>PGM 8</b> <b>8366</b>
		<b>PGM 8</b> <b>8418</b>	

**NOTES**

**Section 5 — TOPICAL MODULES (Continued)**

**Part A — EARNINGS AND BENEFITS (Continued)**

<b>4p.</b> For how many weeks ... laid off?	Weeks 8650 <input type="text"/> <input type="text"/>	} SKIP to 5a	Weeks 8700 <input type="text"/> <input type="text"/>	} SKIP to 5a	Weeks 8750 <input type="text"/> <input type="text"/>	} SKIP to 5a
	OR x <input type="checkbox"/> DK		OR x <input type="checkbox"/> DK		OR x <input type="checkbox"/> DK	

<b>q.</b> What were the reasons ... decided to change jobs/leave that job? Mark all that apply.	8652 <input type="checkbox"/> Level of earnings 8664 <input type="checkbox"/> Type of work 8658 <input type="checkbox"/> Work conditions 8659 <input type="checkbox"/> Job location 8660 <input type="checkbox"/> Family or personal reasons 8662 <input type="checkbox"/> Job was temporary and ended 8664 <input type="checkbox"/> Other	8702 <input type="checkbox"/> Level of earnings 8704 <input type="checkbox"/> Type of work 8706 <input type="checkbox"/> Work conditions 8708 <input type="checkbox"/> Job location 8710 <input type="checkbox"/> Family or personal reasons 8712 <input type="checkbox"/> Job was temporary and ended 8714 <input type="checkbox"/> Other	8752 <input type="checkbox"/> Level of earnings 8754 <input type="checkbox"/> Type of work 8757 <input type="checkbox"/> Work conditions 8758 <input type="checkbox"/> Job location 8760 <input type="checkbox"/> Family or personal reasons 8762 <input type="checkbox"/> Job was temporary and ended 8764 <input type="checkbox"/> Other
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<b>ASK OR VERIFY —</b> <b>f.</b> After the time that ... stopped working ... did ... return to work for (Name of employer)?	8666 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5a	8716 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5a	8766 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5a
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<b>g.</b> When did ... return to work for (Name of employer)?	Month 8668 <input type="text"/> <input type="text"/>	Month 8718 <input type="text"/> <input type="text"/>	Month 8768 <input type="text"/> <input type="text"/>
	Year 8670 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Year 8720 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Year 8770 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

<b>5a.</b> Do you have a W-2 form from (Read name of employer) that you can refer to? (If "Yes," ask respondent to use the W-2 form.)	8672 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	8722 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	8772 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
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<b>b.</b> (According to ...'s W-2 form) how much did ... earn from ...'s job with (Read name of employer) during 1984 before any deductions? Obtain estimate, if necessary.	8674 \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> .00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. — SKIP to 5e	8724 \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> .00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. — SKIP to 5e	8774 \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> .00 x1 <input type="checkbox"/> DK x2 <input type="checkbox"/> Ref. — SKIP to 5e
--	--	--	--

<b>CHECK ITEM 716</b> Does ... have a W-2 form to refer to?	8676 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5e	8726 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5e	8776 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — SKIP to 5e
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<b>5c.</b> According to the W-2 form, what is the identification number of this employer?	Identification number 8678 <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> 8680 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Identification number 8728 <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> 8730 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Identification number 8778 <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> 8780 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	8682 x1 <input type="checkbox"/> DK	8732 x1 <input type="checkbox"/> DK	8782 x1 <input type="checkbox"/> DK

**NOTES**



8

MODIFIED  
SUBFILE 2

(No establishment  
address was reported  
on SIPP)

IS  
THERE  
AN  
EIN?

YES

Hold for R.O.  
estab. address  
search.

NO

DO S & P, D & B  
CORP. HEAD-QUARTERS  
AND AFFILIATION.  
SEARCH

SEND CASES TO R.O.'S  
FOR ESTAB. ADDRESS  
SEARCH

WAS  
ADDRESS  
FOUND?

NO

Do additional  
research in  
POP Division

YES

GIVE ESD ALL  
INPUT INFO FOR  
SOUNDEX SEARCH

WAS  
EC-EI  
RECORD  
FOUND?

NO

Do additional  
research in  
POP Division

YES

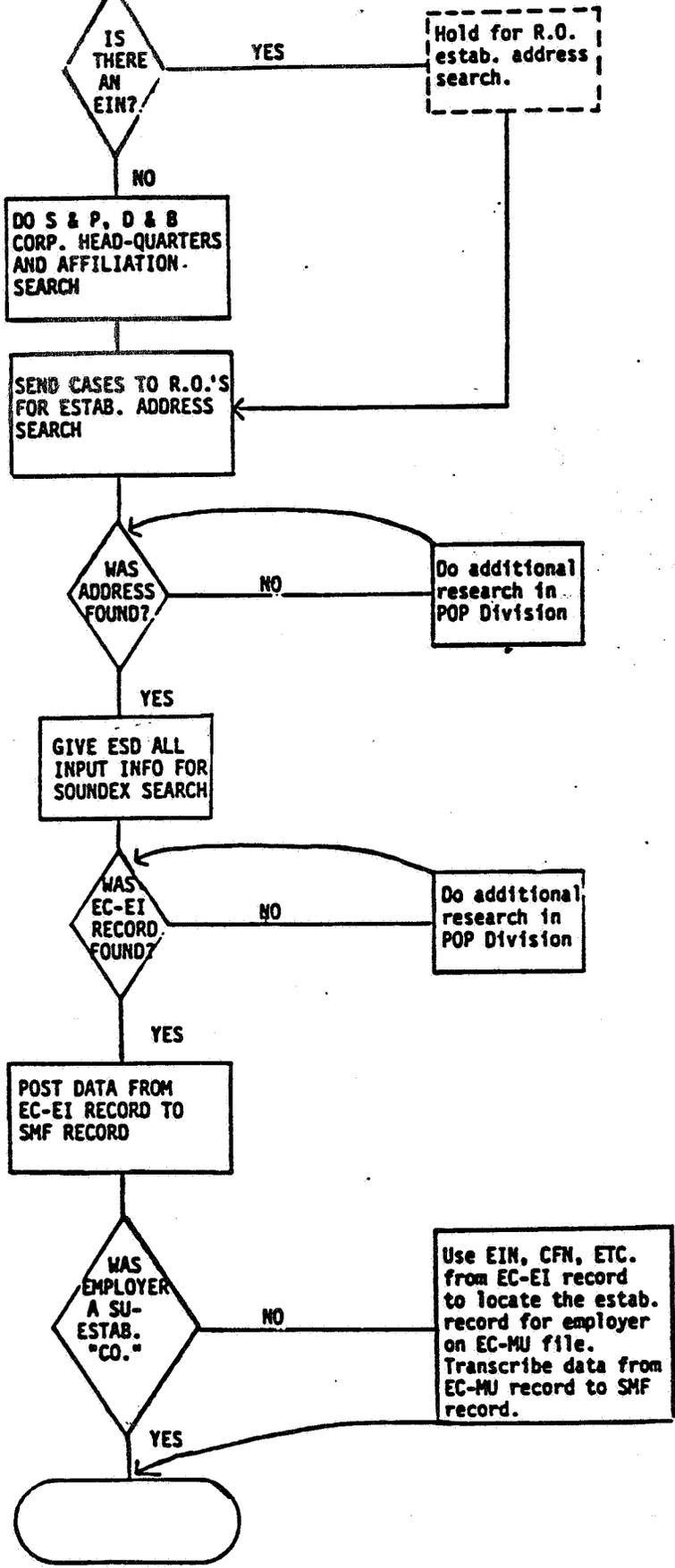
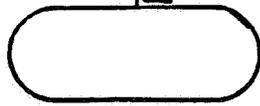
POST DATA FROM  
EC-EI RECORD TO  
SMF RECORD

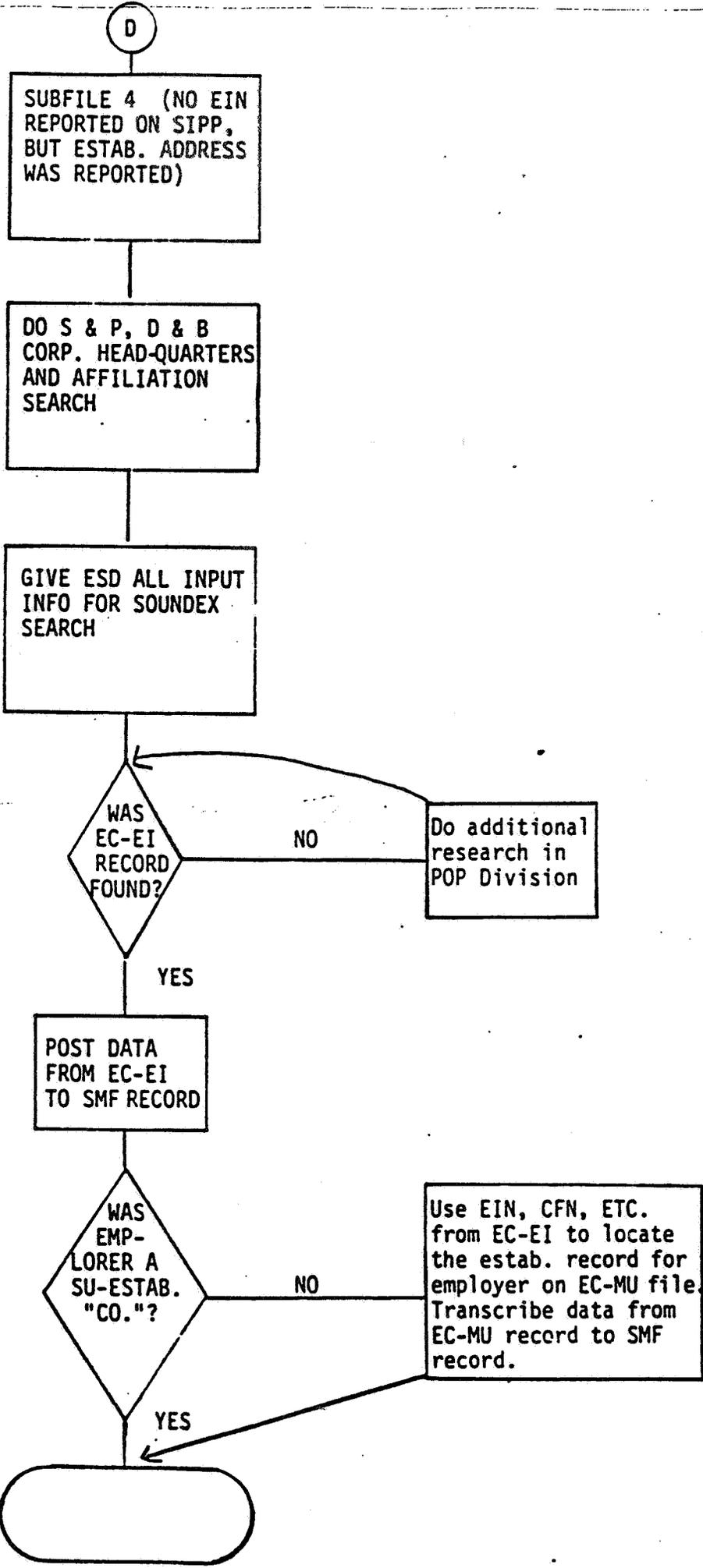
WAS  
EMPLOYER  
A SU-  
ESTAB.  
"CO."

NO

Use EIN, CFN, ETC.  
from EC-EI record  
to locate the estab.  
record for employer  
on EC-MU file.  
Transcribe data from  
EC-MU record to SMF  
record.

YES





## LIST OF REFERENCES

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