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(Copied: August 20, 1992)

Current Population Survey (CPS), September 1983: Immunization Supplement

Record Group 29 Records of the Bureau of the Census

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Washington, DC 20408

N. McGovern May 22, 1990 Revised: J. Nelson August 21, 1992 3-029-89-017

VALIDATION STATEMENT

When the National Archives acquired custody of this file, the accessioning procedures called for a manual comparison of the documentation to a printout of a portion of the records in each data set. This manual comparison is referred to as a "preliminary assessment" or "validation." The number of records which were compared varied from data set to data set. However, as a general rule the comparison involved less than ten records and was limited to only the first and last records in each data set. This is a statement of the results of the preliminary assessment or validation.

title: Current Population Survey (CPS), September 1983

logical record length: 480

number of datasets: 1

No discrepancies between the documentation and a sample dump of the data were noted during hand validation.

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Washington, DC 20408

J. Nelson August 31, 1992

NOTES ON DOCUMENTATION

The Bureau of the Census provided this copy of abstracts, codes, record layouts, and attachments for the Current Population Survey, September 1983.

Please note that the technical documentation contains attachments #14 and #15: respectively, "1980 Census of Population Industry Classification System," and "1980 Census of Population Occupation Classification Systems." The Table of Contents does not cite these attachments.

CURRENT POPULATION SURVEY, SEPTEMBER 1983

TECHNICAL DOCUMENTATION

This file documentation consists of the following materials:

Attachment 1	Abstract
Attachment 2	OverviewSeptember 1983 Immunization Survey
Attachment 3	OverviewCurrent Population Survey
Attachment 4	Glossary
Attachment 5	Note to Users
Attachment 6	Current Population Survey Adult Interview Record Layout
Attachment 7	Current Population Survey Children's Interview Record Layout
Attachment 8	Current Population Survey Noninterview Type A Record Layout
Attachment 9	Current Population Survey Noninterview Type B-C Record Layout
Attachment 10	Current Population Survey September 1983 Immunization Survey Supplement Record Layout
Attachment 11	Questionnaire Facsimile
Attachment 12	Unweighted and Weighted Counts
Attachment 13	Source and Reliability of the Estimates: National Immunization Survey, September 1983

NOTE

Questions about the accompanying documentation should be directed to Data User Services Division, Data Access and Use Staff, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-2074.

Questions about the <u>tape</u> should be directed to Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-4100.

Questions about the <u>subject matter</u> should be directed to Demographic Surveys Division, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-2773.

ATTACHMENT 1

ABSTRACT

Current Population Survey, September 1983 [machine-readable data file] / conducted by the Bureau of the Census for the Bureau of Labor Statistics. --Washington: Bureau of the Census [producer and distributor], 1984.

TYPE OF FILE:

Microdata; unit of observation is individuals within housing units.

UNIVERSE DESCRIPTION:

The universe consists of all persons in the civilian noninstitutional population of the United States living in households. The probability sample selected to represent the universe consists of approximately 71,000 households.

SUBJECT-MATTER DESCRIPTION:

Comprehensive data are available on the employment status, occupation, and industry of persons 14 years old and over. Also shown are personal characteristics such as age, sex, race, marital status, veteran status, household relationship, educational background, and Spanish origin.

Supplemental data provide information on the disease history and/or protection through immunization against the common childhood diseases (diptheria, tetanus, and whooping cough; polio; measles; rubella; and mumps) for persons 0-19 years of age. Data on immunization against influenza are available for all persons. Data are also available for adults on diabetes, chronic kidney disease, and certain chronic heart and lung conditions. Also provided is an indicator for the past year.

GEOGRAPHIC COVERAGE:

All States and 44 SMSA's are identified and ranked by population size (1970). Central city/noncentral city indicators are provided for all identified SMSA's. For all other records, central city/noncentral city and non-SMSA indicators are provided except where suppression is required for confidentiality reasons.

TECHNICAL DESCRIPTION:

FILE STRUCTURE: Rectangular.

FILE SIZE: 167,419 logical records; 480 character logical record length.

FILE SORT SEQUENCE: State rank by SMSA rank by household identification number by line number.

REFERENCE MATERIALS:

"Current Population Survey, September 1983 Technical Documentation." Documentation contains this abstract, a questionnaire facsimile, and record layouts of the file. One copy accompanies each file order. Additional copies are available for \$5 each from Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

Bureau of the Census. The Current Population Survey: Design and Methodology (Technical Paper 40). Describes in detail the sample design and survey procedures used as well as accuracy of estimates and sampling errors. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. GPO Stock No. 003-024-01490-4. Price: \$5.50.

RELATED PRINTED REPORTS:

Bureau of Labor Statistics. Employment and Earnings, October 1983. The employment information in Section A of this publication is derived from the Current Population Survey, September 1983. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price: \$3.75.

FILE AVAILABILITY:

The file may be ordered from Data User Services Division using the order form on the following page. The following technical options are available at a cost of \$140 per reel.

		•					Reels	Cost
				(EBCDIC			3	\$420
9	track,	6250	bpi	(EBCDIC	or	ASCII)	· 1	\$140

ATTACHMENT 2

Overview--September 1983 Immunization Survey

I. Data Collection

The September 1983 United States Immunization Survey was conducted as a supplement to that month's Current Population Survey (CPS). The CPS is a monthly labor force survey conducted in approximately 58,000 households across the Nation. Attachment 11 is a copy of the document used by the CPS with the immunization supplement on pages 2 and 5.

The immunization survey was asked of all persons in all except first and fifth month households. Interviews were conducted during the period of September 19 through September 26. Interviewers were provided a one hour home study covering September supplement procedures and item definitions, as well as a one-day training session including a segment on definitional problems and a supplement mock interview. The first five questionnaires submitted by each interviewer were carefully reviewed by office staff. The interviewer was contacted if any errors were uncovered as a result of this review.

Interviewers were instructed to conduct the supplement interview with the household respondent; otherwise a knowledgeable parent of any-child 0-19 years old in the household. There were 89,223 persons eligible for the supplement for which 87,028 interviews were obtained. This produced an interview rate of 97.5 percent.

II. Data Processing

The data processing involved editing the supplement data and weighting up the 6 eligible rotations to the total population. Each operation is described briefly below.

A. September Supplement Computer Edits

The computer edit initially identifies the interview status of a supplement record. Such records were considered "interviewed" if the basic CPS transcription item "interview" was recorded as category 1 in word 1, chapter 1 and the rotation number was 1, 3, 4, 5, 7, or 8 (all but month-in-sample 1 or 5, wd. 1:2). Records not meeting these conditions were considered noninterviews and were not processed further. There was no weighting for noninterviews. Interviewed records were edited to ensure consistency between items on the record and for a limited number of items, missing values were assigned based on known entries. If an item was blank and there was clear evidence that there should be an entry, an "NA" (not available) code was assigned. No attempt was made to allocate or impute missing values. The effects of the edit can be demonstrated by considering item 34 and its relationship to items 35 and 36:

1. Consistency - If item 34 had a response of "No" or "Don't Know", then items 35 and 36 would be blanked.

- 2. Assigning missing values If item 34 was blank and item 35 or 36 had an entry other than 'Don't Know", then item 34 would be made equal to "Yes".
- 3. Assigning NA's An "NA" code was assigned to item 35 or 36 if it was blank and item 34 was "Yes". An "NA" code was automatically assigned to item 34 if no entry was recorded.

It is important to note that if items 34, 35, and 36 were all blank, only item 34 would be assigned an "NA" since it would not be clear that items 35 or 36 should have had an entry. Since neither items 35 nor 36 can be imputed without a "Yes" response to item 34, those items were blanked if item 34 was NA. Similarly, items 38, 40, 42, 46, and 49 were blanked if the item to which they pertained was blanked or NA.

B. Weighting

The CPS sample is designed to represent the Nation as a whole. Since the September supplement uses only three-quarters of the CPS sample, there was a need to adjust the individual or adult weights accordingly. Children's records (0-13 years old) were adjusted separately according to independent population controls. Attachment 13 is a statement of reliability which should be considered when analyzing data from this file.

Adult weighting (14 years old or above)

A factor of 4/3 was applied to all adult records to equalize supplement records with basic CPS records.

Children's weighting (0-13 years old)

Independent population estimates derived from the 1980 census and updated through September 1983 were applied as controls to each child's record. These factors were applied by year of age, race, and sex of child.

III. September 1983 CPS/Immunization Supplement Computer File

The September CPS/Immunization file can be considered as having two distinct parts: the CPS labor force data and the September immunization supplement data.

A. CPS Data

Basic CPS labor force data are contained in words 1-64 character 1 of each record. One of four different record layouts should be used depending on the type of record being selected.

1) Interviewed 14+ Person's Records

Attachment 6 shows the locations and definitions of variables available in words 1 through 64 character 1 for persons 14+ years old and over who were interviewed in the September CPS. Interviewed 14+ person records will have word 1 character 1=1 (Record type) and word 17 characters 1-2=14-99 (age).

2) Children's Records

Attachment 7 shows the location and definition of variables available in words 1 through 64 character 1 for persons less than 14 years of age. Children's records will have word 1 character 1=1 (Record type) and word 17 character 1-2=00-13 (age).

3) Noninterview Type A Records

Attachment 8 shows the locations and definitions for variables available in words 1 through 64 character 1 for CPS Type A noninterview records. Type A noninterview records represent households which were eligible for the September CPS interview but were not interviewed for one reason or another. Type A noninterview records will have word 1 character 1=2 (Record type).

4) Noninterview Type B/C Records

Attachment 9 shows the locations and definitions for variables available for Type B/C noninterview records. Type B/C noninterview records represent sample addresses which were determined to be eligible for the CPS by virture of being vacant, demolished, nonresidential, etc. Type B/C noninterview records will have word 1 character 1=3 (Record type).

B. <u>September Immunization Supplement Data</u>

The September immunization data are contained in words 66 character 1 through word 80 character 6 of interviewed adult and children's records. Attachment 10 shows the locations and definitions of variables in this portion of the record. Note that supplement data are available for all records when word 67 character 4 is equal to 1.

IV. Records from the September CPS/Immunization Supplement File

A. <u>Tallying CPS Labor Force Estimates</u>

If the user wishes to access only the CPS portion of the record (words 1-64) for the full sample, the record type must first be determined as follows:

Interviewed Adults

Wd. 1:1=1 and Wd. 17:1-2=14-99

Children

Wd. 1:1=1 and Wd. 17:1-2=00-13

Type A Noninterview

Wd. 1:1=2

Type B/C Noninterview

Wd. 1:1=3

As described in IIIA. above use the proper record layout depending on which records are selected. Use the weight in words 21 and 22 if tallying CPS labor force estimates using the full file as opposed to the supplement three-quarters sample.

B. <u>Tallying September Immunization Supplement Data</u>

The September supplement universe was three-fourths that of the CPS sample (6 of 8 rotation groups). As a result, the September supplement weights were adjusted as described in IIB. above so the sample would be nationally representative. Moreover, any tallies that use September supplement data must use the weight in words 75 and 76. This applies to cross tabulation between September data and the CPS portion of the record, i.e., number of adults with diabetes (item 29) by hours worked last week (item 20A).

Supplement weights are presented for interviewed supplement records.

OVERVIEW.

Current Population Survey

Introduction

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The Current Population Survey (CPS) is the source of the official Government statistics on employment and unemployment. The CPS has been conducted monthly for over 35 years. Currently, we interview about 58,000 households monthly, scientifically selected on the basis of area of residence to represent the Nation as a whole, individual States, and other specified areas. Each household is interviewed once a month for four consecutive months one year, and again for the corresponding time period a year later. This technique enables us to obtain month-to-month and year-to-year comparisons at a reasonable cost while minimizing the inconvenience to any one household.

Although the main purpose of the survey is to collect information on the employment situation, a very important secondary purpose is to collect information on the demographic status of the population, information such as age, sex, race, marital status, educational attainment, and family structure. From time to time additional questions are included on such important subjects as health, education, income, and previous work experience. The statistics resulting from these questions serve to update similar information collected once every 10 years through the decennial census, and are used by Government policymakers and legislators as important indicators of our Nation's economic situation and for planning and evaluating many Government programs.

The CPS provides current estimates of the economic status and activities of the population of the United States. Because it is not possible to develop one or two overall figures (such as the number of unemployed) that would adequately describe the whole complex of labor market phenomena, the CPS is designed to provide a large amount of detailed and supplementary data. Such data are made available to meet a wide variety of needs on the part of users of labor market information.

Thus, the CPS is the only source of monthly estimates of total employment (both farm and nonfarm); nonfarm self-employed persons, domestics, and unpaid helpers in nonfarm family enterprises; wage and salaried employees; and, finally, estimates of total unemployment.

It provides the only available distribution of workers by the number of hours worked (as distinguished from aggregate or average hours for an industry), permitting separate analyses of part-time workers, workers on overtime, etc. The survey is also the only comprehensive current source of information on the occupation of workers and the industries in which they work. Information is available from the survey not only for persons currently in the labor force but also for those who are outside the labor force. The characteristics of such persons - whether married women with or without young children, disabled persons, students, older retired workers, etc., can be determined. Information on their current desire for work, their past work experience, and their intentions as to job seeking are also available.

CPS Sample

The CPS sample is based on the civilian noninstitutional population of the United States. The sample is located in 629 sample areas comprising 1,148 counties and independent cities with coverage in every State and in the District of Columbia.

In all, some 71,000 housing units or other living quarters are assigned for interview each month; about 58,000 of them containing approximately 122,000 persons 14 years old and over are interviewed. Also included are demographic data for approximately 34,000 children 0-13 years old within these households. The remainder of the assigned housing units are found to be vacant, converted to nonresidential use, contain persons with residence elsewhere, or are not interviewed because the residents are not found at home after repeated calls, are temporarily absent, or are unavailable for other reasons. Approximately 13,000 noninterview households are present each month. The resulting file size is approximately 170,000 records. A more precise explanation regarding the CPS sample design is provided in Technical Paper 40, The Current Population Survey: Design and Methodology.

For a more detailed discussion about the basic labor force data gathered on a monthly basis in the CPS survey, see the Bureau of Labor Statistics Report No. 463 and the Current Population Report P-23, No. 62, issued jointly by the Bureau of Labor Statistics and the Bureau of the Census in October, 1976, and entitled Concepts and Methods Used In Labor Statistics Derived from the Current Population Survey.

Relationship of Current Population Survey Files to Publications

Each month, a significant amount of information about the labor force is published by the Bureau of Labor Statistics in the Employment and Earnings and Monthly Labor Review reports.

As mentioned previously, the CPS also serves as a vehicle for supplemental inquiries on subjects other than employment, which are periodically added to the questionnaire. From the basic and supplemental data the Bureau of the Census issues four series of publications under the general title <u>Current Population Reports</u>:

P-20 Population Characteristics

P-23 Special Studies

P-27 Farm Population

P-60 Consumer Income

All Current Population Reports, Including the other series for population estimates and projections and special censuses, may be obtained by subscription from the Government Printing Office. They are available in the following subscription packages: Population Characteristics, Special Studies, Farm Population, and Consumer Income series (P-20, P-23, P-27, P-60) combined, \$70.00 per year; Population Estimates and Projections, Federal-State Cooperative Program for Population Estimates, and Special Censuses series (P-25, P-26, P-28) combined, \$90.00 per year. A customer interested in all reports must subscribe to both subscription packages. Alternatively, single issues may be ordered separately; ordering information and prices are provided in the Bureau of the Census Catalog, the Monthly Product Announcement (MPA), and in Data User News.

Geographic Limitations

It should be kept in mind that the sample design and methods of weighting CPS data are geared towards producing estimates for the entire Nation. In producing estimates for States, the user should be aware that the primary sampling units (PSU's) are drawn from strata which may or may not cross State lines. Consequently, the data would not be as reliable as national data, and the file may lose some of its utility in certain applications. For further discussion of such considerations, the user should consult Technical Paper 40, The Current Population Survey: Design and Methodology.

The nature of the work done by each individual investigator using the microdata file will determine to what extent his/her requirements for precision will allow using some of the smaller geographic areas identified on the file.

Weights

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns for the entire panel of respondents. The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

- 1. Noninterview adjustment. The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (White, and Black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, season, etc.
- 2. Ratio estimates. The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole, in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the latter estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:
 - a. First-stage ratio estimate. In the CPS, a portion of the 629 sample areas is chosen to represent both itself and other areas

not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. regional adjustment is performed by metropolitannonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. Second-stage ratio estimate. In this stage, the sample estimates of the U.S. population in the categories described below are adjusted to independently derived current estimates of the population in the same categories. The second-stage ratio estimate is performed in order to increase the reliability of the estimates and is carried out in two steps. In the first step, the sample estimates are adjusted for each State and the District of Columbia to an independent control for the noninstitutional population 16 years and over, for the State. The second step of the adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates of the civilian noninstitutional population, 14 years and over, within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of the National age-sex-race categories will be virtually equal to the independent population estimates. This second-stage adjustment procedure incorporates changes instituted in January 1982. The nature of these changes is discussed in detail in "Revisions in Current Population Survey Beginning in January 1982," Employment and Earnings, February 1982.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1980 census through the latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in Current Population Reports, Series P-25. For a description of the methodology used in developing the State total, see Report 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Beginning with the January 1982 estimates, the independent national controls used for the age-sex-race groups in the final step of the second-stage ratio adjustment are prepared by carrying forward the April 1, 1980 total population by age, race, and sex, taking account of the subsequent aging of the population, fertility, mortality, and net immigration, and then subtracting the estimate for

the institutional population and Armed Forces. The April 1, 1980 total population was computed by adding together the resident population, consistent with that published in the 1980 census Advance Reports, Series PHC80-V, and the Armed Forces overseas, as compiled from Department of Defence reports. Data on births and deaths between April 1, 1980 and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total, including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas, for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 14 years old and older.

NOTE: The CPS weighting procedure only produces individual weights. No household weights are present on any non-March CPS file. It is recommended that the principal person's weight be used for all tallies by household. The principal person for a household is designated by the Flag 1 in word 18, character 3 of any adult's interview record.

Comparability of CPS From Microdata Files With Published Sources.

Although total estimates of the population will equal published estimates, labor force estimates produced from a microdata file will not be directly comparable or identical with the published nonseasonally adjusted labor force data. The major reason for this is due to a final estimation procedure incorporated into the production of the published nonseasonally adjusted data. This procedure, known as a composite estimator, is a weighted average of two estimates for the current month for any particular item. The first estimate is the two-stage ratio estimate that includes all the estimation steps given above. The second estimate consists of the composite estimate for the preceding month to which has been added an estimate of the change from the preceding month, based on that part of the sample which is common to the two months (about 75 percent). This procedure is primarily used to increase the reliability of estimates of month-to-month change, although other reliability gains are also realized. As noted above, the composite estimation procedure does not affect estimates of the total population.

Another factor also inhibits microdata comparison with published labor force data. This is the seasonal adjustment that is applied to many published statistics. These adjustments are used to adjust for normal seasonal variations to help distinguish the underlying economic situation in month-to-month changes. Shown below are data from January and July 1982 which demonstrate how estimates compiled using the final weights from the microdata file may differ from the published composited estimates, with and without seasonal adjustment. (Refer to Technical Paper 40 for a further description of both the composite estimator and seasonal adjustments.)

	Civilian Noninstitutional Population	Civilian Labor Force	Employed	Unem- ployed	Not In Labor Force	
	Janu	ary 1982 Data	a (000's)			
Final Weights	171,335	108,161	97,928	10,234	63,174	
Composited (Not season-						
ally Adjusted	171,335	108,014	97,831	10,183	63,321	
Composited (Seasonally				•		
Adjusted)	171,335	108,879	99,581	9,298	62,456	· .
	July	1982 Data (0	00's)			
Final Weights	172,364	112,850	101,904	10,946	59,513	
Composited (Not season-				•		
ally Adjusted)	172,364	112,526	101,490	11,036	59,838	
Composited (Seasonally						
Adjusted)	172,364	110,522	99,732	10,790	61,842	

In various months, differences in the sample, questionnaire, and data uses result in the need for additional adjustment procedures to produce what is called a supplement weight. Such adjustments can include, but are not limited to, supplemental noninterview adjustments, inflation of weights due to a restricted supplemental universe (such as only 4 of 8 rotation groups), or controlling to various independent population controls. In some instances, including most October school enrollment supplements, the supplement weight is controlled to and agrees with, in aggregate, the published composited estimates. Regardless of how the supplement weight was produced, when available it should be used in preparing all estimates using data from supplement items. Further documentation covering the use of the supplemental data is included as part of the supplemental documentation.

ATTACHMENT 4

GLOSSARY

CURRENT POPULATION SURVEY

Subject Concepts

Age. Age classification is based on the age of the person at his/her last birthday. The adult universe (i.e., population of marriageable age) is comprised of persons 14 years old and over.

Basic Weight. The constant weight assigned to the sample (inverse of the sampling fraction) which is adjusted to produce the final weight.

Civilian Labor Force. (See Labor Force.)

Class of Worker. This refers to the broad classification of the person's employer. These broad classifications are private, government, self-employed, without pay, and never worked. Private and government workers are considered "wage and salary workers;" this classification scheme includes self-employed, incorporated persons in with "private" workers.

Duration of Unemployment. Duration of unemployment represents the length of time (through the current survey week) during which persons classified as unemployed are continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of two weeks or more during which a person is employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Average duration is an arithmetic mean computed from a distribution by single weeks of unemployment.

Earnings. Earnings data are collected for an individual's primary job during the survey week for one-fourth of the CPS sample. The universe for these data is defined on page 44 of the adult's interview record layout. The data collected include the usual hours worked, whether an individual is paid by the hour, for hourly workers their hourly pay rate, and the individual's usual weekly pay. Separate weights for tallying the earnings data are present on the file.

Education. (See Years of School Completed.)

Employed. (See Labor Force.)

ESR. (Employment Status Recode). This classification is available for each civilian 14 years old and over according to his/her responses to the monthly (basic) labor force items.

Final Weight. Used in tabulating monthly labor force items.

Full-Time Worker. Persons on full-time schedules include persons working 35 hours or more, persons who worked 1-34 hours for noneconomic reasons (e.g., illness) and usually work full-time, and persons "with a job but not at work" who usually work full-time.

Head Versus Householder. Beginning with the 1980 CPS, the Bureau of the Census discontinued the use of the terms "head of household" and "head of family." Instead, the terms "householder" and "family householder" are used.

Highest Grade of School Attended. (See Years of School Completed.)

Hours of Work. Hours of work statistics relate to the actual number of hours worked during the survey week. For example, a person who usually works 40 hours a week but who is off on the Veterans Day holiday is reported as working 32 hours even though he is paid for the holiday.

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

Household. A household consists of all the persons who occupy a house, an apartment, or other group of rooms, or a room, which constitutes a housing unit. A group of rooms or a single room is regarded as a housing unit when it is occupied as separate living quarters; that is, when the occupants do not live and eat with any other person in the structure, and when there is direct access from the outside or through a common hall.

Householder. The householder refers to the person (or one of the persons) in whose name the housing unit is owned or rented (maintained) or, if there is no such person, any adult member, excluding roomers, boarders, or paid employees. If the house is owned or rented jointly by a married couple, the householder may be either the husband or the wife. The person designated as the householder is the "reference person" to whom the relationship of all other household members, if any, is recorded.

Currently, the CPS edit recodes the relationship to reference person (householder) entries back into the relationship to head configuration before editing the data. Work is underway to incorporate the relationship to reference data into the basic CPS edit. Until such time as the revised edit is completed, all data appearing on CPS files are edited using the relationship to head configuration.

Industry, Occupation, and Class of Worker. Industry, occupation, and class of Worker (I & O) always apply to the same job. For the employed, current job is the job held in the reference week (the week before the survey). Persons with two or more jobs are classified in the job at which they worked the most hours during the reference week. The unemployed are classified according to their latest full-time civilian job lasting two or more weeks or by the job (either full-time or part-time) from which they were laid off. The I & O questions are also asked of persons not in the labor force who are in the fourth and eighth months in sample and who have worked in the last five years. For detailed information on I & O of multiple job holders, see the May supplement to the CPS.

Job Seekers. All unemployed persons who made specific efforts to find a job sometime during the 4-week period preceding the survey week.

Keeping House. Persons are classified as keeping house if they engage in their own housework. This is one of the "not in labor force" classifications—employment status recode (ESR) = 4.

Labor Force. The civilian labor force includes all civilians classified as employed or unemployed. The file includes labor force data for civilians age 14 and over. However, the official definition of the civilian labor force is age 16 and over.

- Employed. Employed persons comprise (1) all civilians who, during 1. the survey week, do any work at all as paid employees or in their own business or profession, or on their own farm, or who work 15 hours or more as unpaid workers on a farm or in a business operated by a member of the family; and (2) all those who have jobs but who are not working because of illness, bad weather, vacation, or Labor-Management dispute, or because they are taking time off for personal reasons, whether or not they are seeking other jobs. These persons would have an Employment Status Recode (ESR) of 1 or 2 respectively in word 19, character 1 of each individual's record which designated "at work" and "with a job, but not at work." Each employed person is counted only once. Those persons who held more than one job are counted in the job at which they worked the greatest number of hours during the survey If they worked an equal number of hours at more than one job, they are counted at the job they held the longest.
- 2. Unemployed. Unemployed persons are those civilians who, during the survey week, have no employment but are available for work, and (1) have engaged in any specific job seeking activity within the past 4 weeks such as registering at a public or private employment office, meeting with prospective employers, checking with friends or relatives, placing or answering advertisements, writing letters of application, or being on a union or professional register; (2) are waiting to be called back to a job from which they had been laid off; or (3) are waiting to report to a new wage or salary job within 30 days. These persons would have an ESR code of 3 in word 19, character 1 of each individual's record. The unemployed includes job leavers, job losers, new job entrants, and job reentrants.
 - a. <u>Job Leavers</u>. Persons who quit or otherwise terminate their employment voluntarily and immediately begin looking for work.
 - b. <u>Job Losers</u>. Persons whose employment ends involuntarily, who immediately begin looking for work, and those persons who are already on layoff.
 - c. New Job Entrants. Persons who never worked at a fulltime job lasting two weeks or longer.
 - d. Job Reentrants. Persons who previously worked at a full-time job lasting two weeks or longer but are out of the labor force prior to beginning to look for work.

The word: character locations used to define these components of the unemployed are as follows: (All must be ESR=3)

Job Loser or Leaver (must be checked in sequence shown below)

- IF: WD 10:4 thru 11:4 = any entry of 1 and WD 11:5=1 and WD 12:5=1 or 2, then Loser (Lost job)
- IF: WD 10:4 thru 11:4 = any entry of 1 and WD 11:5=2 and WD 12:5=1 or 2, then Leaver (left job)
- IF: WD 10:4 thru 11:4 # any entry of 1 and WD 10:1=6, then
 Loser (temporary layoff)
- IF: WD 10:4 thru 11:4 # any entry of 1 and WD 10:1=7, then
 Loser (indefinite layoff)
- IF: WD 10:4 thru 11:4 \(\neq \) any entry of 1 and 10:1=5 and 11:5=1 and 12:5=1 or 2, then Loser (New job to begin within 30 days)
- IF: WD 10:4 thru 11:4 # any entry of 1 and 10:1=5 and 11:5=2 and 12:5=1 or 2, then Leaver (New job to begin within 30 days)

New Entrants and Reentrants (Exclusive of Job Losers or Leavers)

- IF: Not job loser or leaver and WD 12:5=1 or 2, then Reentrant
- IF: Not job loser or leaver and WD 12:5=3 or 4, then New Entrant
- 3. Not in Labor Force. All civilians 14 years old and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home housework," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes, for the most part, retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week is an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for three previous months and would not be in for the subsequent month.

These items are asked in question 24; see the questionnaire facsimile. Such persons have an ESR code of 4-7 in word 19, character 1 of each individual's record.

Finally, it should be noted that the unemployment rate represents the number of persons unemployed as a percent of the civilian labor force 16 years old and over. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, etc. The job loser, job leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force 16 years old and over; the sum of the rates for the four groups thus equals the total unemployment rate.

Layoff. A person who is unemployed but expects to be called back to a specific job. If he/she expects to be called back within 30 days, it is considered a temporary layoff; otherwise, it is an indefinite layoff.

Looking for Work. A person who is trying to get work or trying to establish a business or profession.

Marital Status. The marital status classification identifies three major categories: single (never married), married, and widowed or divorced. These terms refer to the marital status at the time of enumeration.

The category "married" is further divided into "married, civilian spouse present," "married, Air Force spouse present," and "married, spouse absent." A person is classified as "married, spouse present" if the husband or wife is reported as a member of the household even though he or she may be temporarily absent on business or on vacation, visiting, in a hospital, etc., at the time of the enumeration. Persons reported as separated are those with legal separations, those living apart with intentions of obtaining a divorce, and other persons permanently or temporarily estranged from their spouses because of marital discord and are included in the "married, spouse absent" category.

Month-In-Sample. The term is defined as the number of times a unit is interviewed. Each unit is interviewed eight times during the life of the sample.

Never Worked. A person who has never held a full-time civilian job lasting two consecutive weeks or more.

Nonrelative of Head With No Own Relatives in Household. A nonrelative of the head who has no relative(s) of his/her own in the household. This category includes such nonrelatives as a foster child, a ward, a lodger, a servant, or a hired hand, who has no relatives of his/her own living with him/her in the household.

Nonrelative of Head With Own Relatives (Including Spouse) in Household. Any household member who is not related to the head but has relatives of his/her own in the household; for example, a lodger, his/her spouse, and their son.

Other Relative of Head. Any relative of the head other than his wife; for example, child, father, mother, grandson, daughter-in-law, etc.

Part-Time, Economic Reasons. The file includes slack work, material shortages, repairs to plant or equipment, start or termination of job during the week, and inability to find full-time work. (See also Full-Time Worker.)

Part-Time, Other (Noneconomic) Reasons. The file includes labor dispute, bad weather, own illness, vacation, demands of home housework, school, no desire for full-time work, and full-time worker only during peak season.

<u>Part-Time</u> <u>Work.</u> Persons who work between 1 and 34 hours are designated as working "part-time" in the current job held during the reference week.

Race. The population is divided into three groups on the basis of race: White, Black, and "Other races." The last category includes Indians, Japanese, Chinese, and any other race except White and Black. In most of the published tables, "Other Races" are shown in combination with the Black population.

Reentrants. Persons who previously worked at a full-time job lasting two weeks or longer but who are out of the labor force prior to beginning to look for work.

School. A person who spent most of his time during the survey week attending any kind of public or private school, including trade or vocational schools in which students receive no compensation in money or kind.

<u>Self-Employed</u>. Self-employed persons are those who work for profit or fees in their own business, profession or trade, or operate a farm.

Spanish Origin. Persons of Spanish origin in this file are determined on the basis of a question, "What is the origin or descent of each person in this household?", that asked for self-identification of the person's origin or descent. Respondents are 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, are those who indicated that their origin was Mexican-American, Chicano, Mexican, Puerto Rican, Cuban, Central or Scuth American, or other Spanish.

Unable to Work. A person is classified as unable to work because of long-term physical or mental illness, lasting six months or longer.

Unemployed. (See Labor Force.)

Unpaid Family Workers. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by birth or marriage.

<u>Veteran Status</u>. If a male served at any time during the four major wars of this century, the code for the most recent wartime service is entered. The following codes are used:

- 1 Vietnam era
- 2 Korean
- 3 WWI
- 4 WWII
- 5 Other Service
- 6 Nonveteran

Wage and Salary Workers. Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a governmental unit.

Workers. (See Labor Force--Employed.)

Years of School Completed. Data on years of school completed can be derived from the combination of answers to questions concerning the highest grade of school attended by the person and whether or not that grade is finished. Educational attainment applies only to progress in "regular" school. Such schools include graded public, private, and parochial elementary and high schools (both junior and senior high), colleges, universities, and professional schools, whether day schools or night schools. Thus, regular schooling is that which may advance a person toward an elementary school certificate or high school diploma, or a college, university, or professional school degree. Schooling in other than regular schools is counted only if the credits obtained are regarded as transferable to a school in the regular school system.

GLOSSARY

CURRENT POPULATION SURVEY

Geographic Concepts

Geographic Division. An area composed of contiguous States, with Alaska and Hawaii also included in one of the divisions. (A State is one of the 51 major political units in the United States.) The nine geographic divisions have been largely unchanged for the presentation of summary statistics since the 1910 census.

Regions. There are four regions: Northeast, North Central, West, and South. States and divisions within regions are presented below.

NORTHEAST REGION

New England Division

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Middle Atlantic Division

New Jersey New York Pennsylvania

NORTH CENTRAL REGION

East North Central Division

Illinois Indiana Michigan Ohio Wisconsin

West North Central Division

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

WEST REGION

Mountain Division

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Pacific Division

Alaska California Hawaii Oregon Washington

SOUTH REGION

East South Central Division

West South Central Division

Alabama Kentucky Mississippi Tennessee Arkansas Louisiana Oklahoma Texas

South Atlantic Division

Delaware
District of Columbia
Florida
Georgia
Maryland
North Carolina
South Carolina
Virginia
West Virginia

ATTACHMENT 5

NOTE TO USERS

There are several record layouts comprising the September 1983 Current Population Survey technical documentation. Record layouts illustrating basic data collected comprise Attachments 5 and 6 for interviewed households, Attachment 7 for noninterviewed Type A households, and Attachment 8 for noninterviewed Type B or C households (see items 14 and 15 on the questionnaire for examples of each type). The record layout(s) for supplemental data collected then follows.

Interview and Noninterview Record Layouts. Record layouts are similar for both interviewed and noninterviewed households. Geographic data are provided for both types of records, but employment figures are furnished only for interviewed households. For noninterviewed households, these corresponding character positions are blank or padded. However, in word 7, characters 1 and 2, interview records show data for item 20, whether the household member worked last week and range of hours worked; noninterview Type A records show race of head and reason for noninterview; noninterview Types B and C records show reason for noninterview.

Records for households for which no interviews were obtained are located at the beginning of each identified geographic area. These noninterview records, having the same record length as an interviewed person's record, occasionally contain codes or numerical values that fall within a valid range of values but are analytically meaningless since these records do not represent actual person records. These records are identified by having a numerical code of "2" or "3" in word 1, character 1 of each new record. To eliminate these records and prevent the inadvertant analysis of "non-person" records, data users should select only those cases identified by a numerical code of "1" (representing an interview record) in the first column of each record.

Universe Restrictions. Users should note the universe restrictions when accessing data for each variable. This is necessary because records for persons who are not in universe for a specific variable may have meaningless data in that field.

Calculating Location of Data Within a Word. In the record layout, location of data is indicated by character position within a word. Each word signifies six character positions on the tape. To determine the location of specific data, calculate the number of positions allocated for all previous words; then, to that figure, add the character location (1-6) specified within the designated word. For example, data for major activity last week (Attachment 5, page 12) corresponds to word 9, character 1. Multiplying the number of previous words by the number of character positions per word equals 48 positions allocated for data. Thus, the first character of word 9 is located in position 49.

- 8 Number of previous words
- x 6 Number of character positions per word
 - 48 Number of positions allocated for data
- + 1 Character position within designated word
 - 49 Location of data for word 9, character 1

To determine the location of data reflecting the reason a respondent works less than 35 hours a week (word 9, characters 5-6), repeat the above calculations except substitute a "5" (noting character position within word) in place of the "1". Calculations show that the first character of this item begins in character position 53.

New Occupation, Industry Codes in Current Population Survey

In January 1983, the Current Population Survey (CPS), the Nation's source of monthly employment data, underwent a major change. The survey switched to the 1980 census industry and occupation (I/O) classification system from the 1970 I/O system, in use since 1972. This article describes the conversion process and tells you how to get copies of the conversion factors.

The 1983 CPS microdata files are the first files to include the new codes. (So far files for January, March, April, and September have been released.) All files hereafter will contain these codes.

If you are comparing present and past CPS files, you'll have little trouble with the new industry codes. The new classification is based on the 1972 standard industrial classification system and is generally comparable to the system used in the CPS before January 1983. It will not be so simple, however, to use the new occupation codes.

New Occupation Codes Affect Comparability

The new occupation classification evolved from the 1980 standard occupation classification system that was developed through extensive study and deliberation by a Federal interagency committee. While the new system for occupation makes the CPS comparable to the 1980 census and other data sets, it breaks the continuity

of any time series based on CPS occupational data.

Differences between the old and new systems can be found at all levels. Such commonly cited identifiers as blue/white collar workers, craft workers, professional and technical workers, and operative occupations have been eliminated from the new system and replaced by new categories.

Some categories that seem to represent the same occupations in the two systems are substantially different because of conceptual changes. For example the 1970 census counted 712.000 "accountants" but when the 1970 data were adjusted to the 1980 classification, the figure for the 1980 category "accountants and auditors" was only 646,000. About half of the reclassified cases went to a new category called 'other financial officers." In this case and in many others, use of the 1980 occupation classification system precludes direct comparison to previous years' CPS occupation data.

Any Way to Preserve Continuity?

The Bureau of Labor Staistics, the principal sponsor of the CPS, requires year-toyear comparisons and therefore asked the Bureau to develop a methodology that provides such a capability.

As a result, we coded a 20percent sample of CPS records for each of 6 months in 1982, using the new occupation codes. We then compared the resulting data with the already available 1970-coded data and derived a set of factors that converted each 1970 census code into its 1980 equivalent.

For example, 69 percent of the 1970 category "counter clerks, except food" remained in the major group "administrative support occupations, including clericals," while the remaining 31 percent were classified as workers in "sales occupations." In all, 55 detailed occupation categories reflect splits like this.

Users who need to achieve occupational data comparability between past and present CPS microdata tape files will need to use conversion factors.

Several Limitations in Making Conversions

The process for determining the conversion factors was not without its problems. The coders who assigned the 1980 codes to the CPS sample were not fully trained under the new system, nor were they subjected to the same rigorous quality control measures normally associated with the CPS clerical operation. In addition, reliability of the conversion factors decreases when a relatively small number of records are affected. Reliability also declines as the number of equivalent 1980 categories into which a 1970 occupation category may be classified increases.

As a result, users should apply the conversion factors only in producing aggregates for the major 1980 occupation categories (such as sales occupations) and broad crosstallies such as "total employed."

Estimates also become less reliable when you apply the conversion factors to data for relatively small population subgroups—such as Blacks, Hispanics, and specific age groups.

The occupational classifications are very similar to those used in 1980 census products (see the June 1983 Data User News), but were designed specifically for use with the CPS files.

Conversion Factors Available

Customer Services is selling the nine-page list of conversion factors used for the occupation codes in the CPS. list contains each 1970 detailed occupation category and the 1980 major occupation category (or categories with percentages for each) into which it should be converted. It shows which detailed occupation categories belong to the 13 major occupation categories. This list can be used to make conversions in microdata files or in data aggregated by 1970 detailed codes.

Entitled *CPS Occupation Categories: Detailed 1970 and Major 1980 Classifications, the conversion factors cost \$5 and are available from Customer Services (301/763-4100).

Technical questions regarding the limitations of the conversion factors and the guidelines on data presentation should be directed to the Labor Force Statistics Branch of the Bureau's Population Division at 301/763-5144.

ATTACHMENT 6

CURRENT POPULATION SURVEY ADULT INTERVIEW RECORD LAYOUT

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This position is filled for all records on this file. Adults are filled as listed above. (0-13 years old) are plugged "2". Noninterviews are plugged "1" as a household indicator. Children

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Page 22

Description No. of errors charged to Enumerator SMSA Non SMSA Not Identifiable
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	Starting with January, 1983, "Postal" workers were moved from "Public Administration" and placed under "Transportation", "Railroads and railway express" were included with "Other transportation" Starting in January, 1983, "Public Adminstrati includes the category "Armed Forces" which is restricted to unemployed persons who reported one of the military services as being their last job.	Major
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Goods-producing industries
Agricultural production
Agricultural services

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3/1 Construction Hanufacturing Durable goods

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Detailed Industry (Con't)

Clv. Labor Force

Universe

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Description

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Manufacturing

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3/ Febricated metals (incl. 2

not upoc. motal)
Hackinery, exc. elect.
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Other transportation oquipment Instruments

Aircraft Automobiles

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	Ronson not at work or hours at work		Characteristic Manufacturing (Con't)
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Married, Armed Force spouse			•••	
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no own relatives in household		•	•	
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with own relatives in household			•	
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Other relative of reference person				
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tives in household		s are the code:		-
Reference Person with other rela-	•	Ο -		
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	Personal Transcription Items	Unedited		•
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FADDING

Edited Earnings Items (outgoing rotations only)

Earnings per week 000-99	Eligible	1250 (Edited; computed) 2/ Earnings per week	- 	
Earnings per hour 0000-999 (2 implied decimal places)	1250 (Edited) = 1	125C (Edited) - Earnings per hour?	5-6 1-2	149 and
Yes	tiligible	1250 (Edited) - Paid by hour?	ح	
Hours worked 90-9	Eligible	125A (Edited) - Usual hours worked per week?	2-J	
Not eligible Eligible	۸۰۲	Eligibility Flag 1/	-	, 99
Two implied decimal spaces, right justified, space filled	Eligible for Earnings 1/ and Ethnicity = Spanish	Earnings Weight for Spanish	2	$\frac{47}{40}$ and
Two impiled decimal places, right justified, space filled	Ellyible for Earnings 1/ and Race = Black	Earnings Weight for Diack	2	$\frac{45}{46}$ and $\frac{1}{1}$ ALL
Two implied decimal places, right justified, space filled	Eligible for Earnings 1/	Earnings Weight for ALL Naces	WL	43 and

2/- for hourly workers, computed 25A x 25C value appears here. For weekly workers, edited 25D value appears here. For weekly workers, edited 25D value appears here.

If outgoing rotation and ESR 1 or 2 and edited Item 23E is Government (wd. 15, ch. 3=2)

1/- One of the following conditions must be met for a person to be in the universe:
(1) If outgoing rotation (wd. 1, ch. 2=4 or 8) and ESR 1 or 2 (wd. 19, ch. 1=1 or 2) and edited item 23! is Private (wd. 15, ch. 3=1) and unedited item 23E is blank, private, or government (wd. 53, ch. 67!

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t250 (Edited) - Usual Heekly	123F (Edited) Interviewer Check Item	125 (Edited) Interviewer Check Item	1250 Allocation Flag	125C Allocation Flag	1250 Allocation Flag	125A Allocation Flag	PADDING	Characteristic
kly <u>3</u> /	NLL	ESR 1 or 2 and 23E = P, F, S, or L	Etigibie	1250 (Edited) = 1	Eligible	l'Ifyible	•	Universe
Heekly Earnings	(Not in Universe) Entry (or NA) in 120A and P, F, S, or L in 123E Entry (or NA) in 121H and P, F, S, or L in 123E	(Not in universe) Month-in-sample 1, 2, 3, 5, 6, or 7 Month-in-sample 4 or 8	1250 not allocated 1250 allocated	125C not allocated 125C allocated	1250 not allocated 1250 allocated	125A not allocated 125A allocated		Description
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^{13/} Reported 250 value appears here for an hourly worker. If 250 was Not reported for an hourly worker, the 250 x 250 computed value appears here. This field is blank for weekly workers. This field is used for 250 x 250 computed value appears here. Inbulation purposes for hourly workers.

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PADDING	•	Item 28		Item 28	• •			_	•				·.	:	Item 27			Item 26	
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				÷														<u> 6</u>	

Note Items 26-28 are included on each person's record.

^{1-20 1-}January, April, July, and October only. Padding all other months.

Word

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Description

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2 Item 23E-Class of Worker (Edited) Item 23E-Class of Worker (Edited & recoded) Nonagriculture Private Wage & Salary Same as 123E Same as above 111 Local Government
Self-Employed-Inc.
Self-Employed-Uninc. State Government Without Pay State Government Private (incl. S-E,Inc.) Federal Government Never worked Without Pay Federal Government Private Not in Universe Never worked Self-Employed-Uninc In Universe Local Government

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.* .			Natural scientists
•			Health assessment & treatment
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			Canyers & judges
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	***************************************		ommod) t
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	•		Supervisors

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ATTACIMENT A				DATE 020183	PAGE 52
WORD CHAR.	CHARACTERISTIC		UNIVERSE	DESCRIPTION	VALUES
62 4-5	Detailed Occupation (cont'd)	•	* *		3
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				_	linoving 38
	-			Construction Taborers Freight, stock & material	l handlers il
			•	Other handlers, equip. clabners, halpers & laborers	clianers, 42
		•		Farming, forestry & fishing	9 93 93
				Farm workers & related	44

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	Detniled Industry	TOTAL CHARACTERISTIC	literranse en state de la		•
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Goods-producing industries	. 1	DESCRIPTION			
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Service-producing industries

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Retail trade

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Public administration

Health serv., exc. hospitals Educational services Social services Other professional serv. Forestry & fisheries

Justice, public order

Armed Forces

internal affairs
Other public administrated

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Admin. of human resource

END OF BASIC CPS RECORD

ATTACHMENT 7

CURRENT POPULATION SURVEY

(BEGINNING JANUARY 1983)
FOR STANDARD TAPE COPIES

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	ု ဆ ု	1-1	1-6	4-6	ယ	2	-	Char.
	Region (From M.S.T.)	•	Household ID Number		Blank	Month in Sample (Recoded from Month and Rotation)	Record type	Characteristic
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Edited household items & recodes and Geographic Identifiers & recodes are transferred from the Principal Person's record to all children in the Household.

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Characteristic Universe Description 5-6 State (1st digit of State Code is Division Code) (From M.S.T.) (Con't) Heat South Central Division Arkansas Louisians (M.1shoma Texas Hountsina Idaho Wyoming Colorado New Heatco Arizona Utah Hevada Pacific Division Heatlington Oregon California Alaska Ilawaii			•	u	Hord
tt of State All Mest South Central D Arkansas Louislana Oklahoma Texas Hountain Division Honlana Idoho New Mexico Arizona Utah Nevada Pacific Division Hashington Oregon California Alaska				5-6	Char.
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7	3-4	SMSA Rankings (Con't) (From M.S.T.)	SMSA' 8	Indianapolis, Ind. San Jose, Calif. New Orleans, La. Tamps-St. Petersburg, Fla.
				Sacramento, Calif. Fort Worth, Texas Birmingham, Ala.
				Albany-Schenectady-Troy,
				Norfolk-Portsmouth, Va. Akron, Ohlo Gary-Hammond-East Chicago, Ind.
				Greensboro-Winston-Salem- High Point, N.G.
-	<u> </u>	Item 1 - INTERVIEWER CHECK	A1	Blank or Impossible Only GFS-1 for household First GFS-1 of cont.
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Char. Characteristic Universe Description 1 Land Usage (Recode) (Edited using Urban/haral Gode from H.S.T. and GPS-1 Document Liens Ja. and JB-new in Feb. 76) Recode reflects "colu" Farm Definition: 2-3 Item 1 - TYPE OF LIVING All House, apt., flat Universe Qualifiers (Recode) 4 Universe Qualifiers (Recode) 5 Universe Qualifiers (Recode) 6 Universe Qualifiers (Recode) 6 Universe Qualifiers (Recode) 6 Universe Qualifiers (Recode) 7 Universe Qualifiers (Recode) 8 Universe Qualifiers (Recode) 9 Universe Qualifiers (Recode) 1 Universe Qualifiers (Recode) 2 Universe Qualifiers (Recode) 3 Universe Qualifiers (Recode) 4 Universe Qualifiers (Recode) 4 Uni		•.		• 1	•	Hord
sage (Recode) (Edited All Nonfarm (PS-1 Document And Description) and GPS-1 Document In Recode reflects Farm Perintion. - TYPE OF LIVING All House, apt., flat House, apt.,	L			۸ ت		Char.
Monfarm All Honfarm Nonfarm	'New' Farm Definition (Nacoda) Effective February 1976. (Edited using Urban/Aural Code from M.S.T. and GPS-1 Document Items 5a. and 5b.)			EX	Land Usage (Recode) (Edited using Urban/hural Code from M.S.T. and CPS-1 Document Items 5a. and 5b-new in Feb. 76) Recode reflects "old" Farm Definition.	Characteristic
Description arm 10 acres	•		TIV	111	Universe	
Description arm 10 acres						
	٧ĺ٨	Unit not permanent in trans hotel, motel, etc. Tent or trailer site Other not HU		Housing Unit House, apt., flat HU in nontransient hotel, etc. HU, permanent, in trans. hotel, motel, etc.	VIA	Description
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Page 11

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		110			V.11	M1		01-13 Years)	Ghild (0-13 Years)	۸11	00.104.110
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	or more children in i	Child in Household			10			Q	Other relative of head (includes own child/brother sister/other relative) Non-relative-own relatives in household Non-relative-no own relatives in household	8	Jescription .
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non-interview records or principal person indicator on interview records.)			•	
=	Children 0-13 years	FLAG	u	••
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5	•. W .	Central City Status Code Dlank	TTV	Central City Dalance of SMSA Non SMSA Not Identifiable 3 milliont
		reflecting 1970 Gensus Population)		Not Identifiable

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PADDING	thesis are the codes for adults. Note: These codes may not be consistent if used in conjunction with adult's relationship to head.	Item 18B - Relationship To Reference Person (FOSDIC) Note: The codes in paren-	Item 18B-Relationship to Head of household-expanded-[Edited using Head's and child's Relationship to Reference Person)
		Unedited Personal Transcription Item o Child (0-13 years old)	Child (0-13 years old)
	Other Relative of Ref. Person Non-relative w/own relatives Non-relative no own relatives (9)	Blank Own Child 1 (5)	Own Child Brother/Sister 2 Other relative 3 Non-relative-own relatives in household Non-relatives-no own relatives in household 5

Characteristic

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PADDING	Item 28	Item 28					Item 27	•	Item 26	
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	Total Number of Household under 14 years of ageGirls (Unedited)	Total Number of Household under 14 years of age-Boys (Unedited)					Total Family Income (Unedited)		Tenure (Unedited)	Unedited Basic CPS Transcription Items 1/
	VIJ <u>5</u> /	1 A112/					111	•	110	ion Items
	Number of Girls No entry	Number of Boys No entry	\$50,000 -74,999 \$75,000 and Over No Entry	\$25,000 -29,999 \$30,000 -34,999 \$35,000 -39,999 \$40,000 -49,999	000 -17 500 -19 000 -24	\$ 7,500 - 9,999 \$10,000 -12,499 \$12,500 -14,999	1 75	No cash rent No entry	Owned or being bought	Ī
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Note Items 26-28 are included on each person's record.

^{12 17} January, April, July, and October only. Padding all other months. -END OF BASIC CPS RECORD-

ATTACHMENT 8 CURRENT POPULATION SURVEY

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			•		t
Page	•	(BEGINNING JANUARY 1982)	ent B	Attachment B	
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	=	NONINTERVIEW TYPE A RECORD LAYOUT)	

			•			Word Char.	Att
5 Division (From M.S.T.)	4 Region (From M.S.T.)	Household ID Number 1-6 (Word 1; Character 5 will always be blank)	3 Blank	2 Month in Sample (Recoded from Month and Rotation)	Record Type	ar, Characteristic	Attachment B
AII	A11	AII		A11	All	Universe	(BEGINNING JANOHNI 1982)
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central	Northeast North Central South West				Noninterview Type A	Description	
1) Region 1 2) Region 2 4) Region 2 5 6 Region 3 7	- 22			1- 8	2		Page 1

Word	Char.	Characteristic	Universe	Description	
ယ	5-6	State (1st digit of State Code is Division Code) (From M.S.T.)	All	New England Division Maine New Hampshire	321
				Vermont Massachusetts Rhode Island Connecticut	555
				Middle Atlantic Division New York New Jersey Pennsylvania	21 22 23
				East North Central Division Ohio Indiana Illinois Michigan Wisconsin	33 33 34 33 33 35 4 35 35 35 35 35 35 35 35 35 35 35 35 35

West North Central Division
Minnesota
Iowa
Missouri
North Dakota
South Dakota
Nebraska
Kansas

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Characteristic

Universe

Description

1-2		5-6	Char.
State Rankings (From M.S.T.)	Code is Division Code) (From M.S.T.) (Con't)	State (1st digit of State	Characteristic
All		All	Universe
California New York	Washington Oregon California Alaska Ilawaii	Pacific Division	Description
1970 Ranking 01 02	91 93 95 95		

Kentucky Connecticut

Iowa South Carolina

Nichigan
New Jersey
Florida
Massachusetts
Indiana
North Carolina
Missouri
Virginia
Georgia
Wisconsin
Tennessee
Maryland
Minnesota
Louisiana
Alabama
Washington

Ohio

Pennsylvania

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			SMSA Rankings (From M.S.T.)	•														(From M.S.T.)	State Rankings (Con't)	Characteristic
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Philadelphia, PaN.J. Detroit, Mich.	alif. icago, Ill.	==	Not an SMSA and all	Alaska	Vermont	De laware	South Dakota	1 dano Montana	New Hampshire	aii	Maine Rhode Island	New Mexico	; Nebraska Utah	West Virginia	Arkansas	Oregon	MISSISSIPPI	Kansas	Oklahoma	Description
04 05	02	20	1970 Ranking	5 <u>1</u>	49 49	47	45 46	44	42	40	39 39	37	36	34	<u>က</u> လ <u>ယ</u>	<u>3</u>	3 C	30 28	27	

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Characteristic

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SMSA Rankings (From M.S.T.) (Con't)

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29	Ontario, Calif.		
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•	-Santa A		
18	Seattle-Everett, Wash.		
17	Dallas, Texas		
16	Minneapolis-St. Paul, Minn.		
15	Newark, N.J.		
14	Houston, Texas		
٦ س	Cleveland, Ohio		
12	Baltimore, Md.		
=	St. Louis, MoIll.		
10	Pittsburgh, Pa.		
09	Nassau-Suffolk, N.Y.		
08			
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806	San Francisco-Oakland, Calif.	SMSA's	
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Item 13 - TYPE INTERVIEW	Item 12 - LINE NO. H'HLD RESP	Item 10 - INTERVIEWER CODE	Blank		Item 1 - INTERVIEWER CHECK ITEM			SMSA Rankings (Con't) (From M.S.T.)	Characteristic
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Noninterview	Blank or Impossible Non H'hld Resp.	Blank or Impossible in any digit		Second CPS-1 of cont. household Third, fourth, etc. CPS-1	Blank or Impossible Only CPS-1 for household First CPS-1 of cont. household	Ind. Greensboro-Winston-Salem High Point, N.C.	Albany-schenectady-troy, N.T. Norfolk-Portsmouth, Va. Akron, Ohio	Fort Worth, Texas Birmingham, Ala.	Description
-	1-6 .7	-NA, or ADD-M99 (Excluding I)		ωœ	N - 1	53 57	48 49	44	106

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Item 4 - TYPE OF LIVING QUARTERS (Recode)	Land Usage (Recode) (Edited using Urban/Rural Code from M.S.T. and CPS-1 Document Items 5a. and 5b-new in Feb. 76) Recode reflects "old" Farm Definition.	PADDING Blank	Item 14 - REASON	PADDING Item 14 - RACE OF HEAD	Item 11 - DATE COMPLETED	Characteristic
A11	A11		AII	All	All	Universe
Housing Unit House, apt., flat HU in nontransient hotel, HU, permanent, in trans. hotel, motel, etc. HU in rooming house Mobile home or Trailer HU not specified above	Nonfarm Farm≥ 10 acres Farm < 10 acres		No one home Temporarily absent Refused Other - Occ.	White Black Other	Day of Month	Description
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20			through 19	ဖ				&	Word
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Central City Status Code	SMSA Status Code	PADDING Blank	Blank	PADDING JRCERR	Blank	Blank	Fill Final Weight	Year - Last Digit	Month	B Characteristic
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END OF BASIC CPS RECORD

64

CURRENT POPULATION SURVEY

NONINTERVIEW TYPE B-C RECORD LAYOUT FOR STANDARD TAPE COPIES

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ı 10	1-6	Household ID Number (Word 1; Character 5 will always be blank)	A11		
•	۔	Region (From M.S.T.)	A11	Northeast North Central South West	-004
	CT	Division (From M.S.T.)	All	New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain	1) Region 1 2) Region 2 4) Region 2 5 6) Region 3 7) Region 4

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Mountain Division Montana Idaho Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	West South Central Division Arkansas Louisiana Oklahoma Texas	East South Central Division Kentucky Tennessee Alabama Mississippi	ginia rolina rolina	South Atlantic Division Delaware Maryland District of Columbia	Description
81 82 83 84 85 86 87	71 72 73	61 62 63	55 55 56 59	55 53	

			4 1-2 State Rankings (From M.S.T.) All	5-6 State (1st digit of State Code is Division Code) (From M.S.T.) (Con't)	Word Char. Characteristic Universe
Alabama 21 Washington 22 Kentucky 23 Connecticut 24 Iowa 25 South Carolina 26	Missouri Virginia 14 Virginia 15 Georgia Wisconsin 16 Tennessee 17 Maryland Minnesota 19 Louisiana	linois to chigan Chiga	California California New York Pennsylvania Texas	Pacific Division Washington 91 Oregon California 93 Alaska Hawaii	Description

Description Oklahoma Ransas Mississippi Colorado Oregon Arkansas Arizona Arizona West Virginia New Mexico Maine Rhode Island Hawaii District of Columbia New Hampshire Idaho Montana South Dakota North Dakota Delaware Nevada Vermont
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Item 4 - TYPE OF LIVING QUARTERS (Recode)	Land Usage (Recode) (Edited using Urban/Rural Code from M.S.T. and CPS-1 Document Items 5a. and 5b-new in Feb. 76) Recode reflects "old" Farm Definition.	Blank	PADDING	Characteristic	
A11	All			Universe	
Housing Unit House, apt., flat House, apt., flat HU in nontransient hotel, etc. HU, permanent, in trans. hotel, motel, etc. HU in rooming house Mobile home or Trailer	Nonfarm Farm ≥ 10 acres Farm < 10 acres			Description	
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preaker sneet)	Work Unit Number (From	Document Count (Within Work Unit)	Household Indicator	PADDING	Item 9 - HOUSEHOLD NUMBER (Unedited)	Blank	Rural Code from M.S.T. and CPS-1 Document Items 5a. and 5b.)	~ ~ p		Item 4 - TYPE OF LIVING QUARTERS (Recode) (Con't)	Characteristic
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IT Breaker was missing	001				Blank 1-8			Nonfarm Farm≥ 10 acres Farm < 10 acres	boarding house Unit not permanent in trans. hotel, motel, etc. Tent or trailer site Other not HU	Other Unit Otrs. not HU in rooming or	Description
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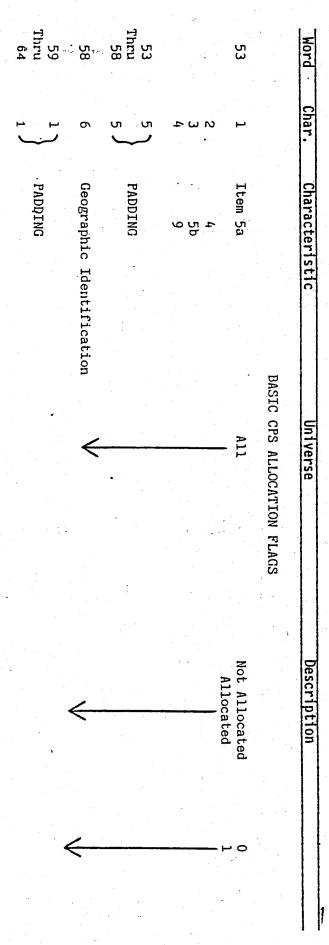
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END OF BASIC CPS RECORD

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SEPTEMBER 1983 IMMUNIZATION SURVEY SUPPLEMENT RECORD LAYOUT

PUBLIC USE FILE

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Had Polio vaccine by mouth?	Had F1u Shot? Sept. I, 1983-Aug. 31, 1983	Has Chronic Heart condition?	Has AsthmaBronchitis?	llas Chronic Kidney Disease?	Have Diabetes?	Characteristics Univ
Adults 14-19 . & Children	All	Adults 14+	Adults 14+	Adults 14+	Adults 14+	Universe ps 2 & 6)
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Yes No Don't Know NA	Yes No Don't Know NA	Yes: No Don't Know NA	Yes No Don't Know NA	Yes No Don't Know NA	Yes No Don't Know NA	Description
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Had Red Measles?		How many DTP Shots?	Had DTP Shots?		How many times Polio by mouth in 12 months?		How many mouth?	Characteristics
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Had Red Measles Shot in past 12 months? Had Three-day Measles? Had Three-day Measles in past 12 months? Had Three-day Measles Shots?	Had Red Measles in past 12 months?	Characteristics
Adults 14-19 and Children Adults 14-19 Adults 14-19 and Children With Yes in Item 41 Adults 14-19 and Children With Yes in Item 43 Adults 14-19 and Children Adults 14-19 and Children Adults 14-19 and Children Adults 14-19 and Children	Adults 14-19 and Children With Yes in Item 39	Universe
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ord Ghar.	1 t cm	Characteristics Had Three-day Measles Shots in past 12 months?	Universe Adults 14-19 and Children
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6	48	Had Mumps Vaccine?	Adults 14-19 and Children
	49	Had Mumps in past 12 months?	Adults 14-19 and Children
ν.	50	Age of this person	Item 48 Children 0-13
c	5]	Enrolled in Licensed day care?	Children 0-13

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	Parent Self Other Relative Nonrelative Not Available	Yes No Not Available	Yes	Description

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ATTACHMENT 11 Questionnaire Facsimile

INTERVIEWER CHECK ITEM Only CPS-1 far nousehold	FORM CPS-1	U.S. DEPARTMENT OF COMMERCE Bureau of the Census		
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Third, igurth, and 5th CPS-1	Form Approved - O.M.B. No. 0607-0049	Fosdic 26.1:1	PSU SEGME	ENT SERIAL
LINE NO. OF H'HOLD RESP.				
NON H'HOLD RESPONDENT(Specify and Send Intercomm)				
INTERVIEW ANY ENTRY OTHER THAN \ Y65 \ NEVER WORKED IN ITEMS 23A—E in this CPS—1 NO NONINTERVIEW				
TYPE A				
TYPEC				
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TELEPHON 'Mork this cases only	box for office "re	lephone hold"
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Population

Survey

September 1983

Pace

FILL TRANSCRIPTION ITEMS 18A-K IN ALL HOUSEHOLDS

	<u> </u>			FIRST CHILD		-]!		FIRST ARMED				
18A. LINE	188. RELATIONSHIP TO REF. PERS.	18C. PAR'S LINE NO.	18D.	18E. SEX	181.	44. Has had the three-day measles during the past 12 months?	1	(Fill only in inter					
NO.	Own child		80	Male	ORIGIN	Yes 2 No 3 DK 3	18A. LINE	188. RELATION		PARS	18D.	18E. MARITA	
3.3	Brother/Sister		1 1		- i i i i i i i i i i i i i i i i i i i		NO.	Reference Person	n WITH	LINE NO.		Married-civi	
2 6	Other rel, of	3 2	3	18H, RACE	8 8	45. Has ever had an injection or shot agains the three-day meades, also known as	d 3	Other relative Reference Person		2.2		Married-	
3.0	Ref. Person	3 3	3	1. White	3 3	Rubella or German messles?	3 :		s in h' hld		: :	Armed For	
	Person with	_ 3	5	3. Amer. Ind.	2	Yes No 1 (Skip to 47)	3 :	Husband	:	1 5	1 2	Married-	
:	OWN relatives in household	📕 હ	3	Aleut, Eskimo	3		4 .	Wife				spouse abse	nt
-	Non-rel, of Ref.	None	3	4. Asian or		46. Has had an injection or shot against the three-day measles during the past		Own child		2.	. :	separated).	:
	PerNO OWN reis in H.H	:	3	Pac. Isl. 5. Other	= 9	12 months?		Brother/Sister			4 /	Widowed	:
	· · · · · · · · · · · · · · · · · · ·					Yes : No : DK :]]]	Other rel. of Ref	Person :		: .	Divorced Separated	
-	receive influenza vacc ng the period September		J9. Has	ever had the red i wn as the eight day n	measies, aisi neasies?	47. Has had mumps within the past 12 months?		Non-rel, of Ref. WITH OWN r	Person -	: 1	•	Never married	
Aug	ust 31, 19837		Ye	s : No : /	(Skip to 41	Yes > No : OK .		in nousehold		None			
Yes	No 5	ok :	L	OK ? I	(SRIP 10 41)	48. Has ever had an injection or shot against		Non-rel, of Ref. with NO OW	N	-		-	
34. Has .	ever had policy vaccine	by mouth?		had the red mess past 12 months?	des during	the mumps?		retatives in ho	ousencia _				
Yes	· · · · · ·			s : No :	פא :	Yes No 1 (Skip to 50)	18F.	18G. SEX	18H.	181.		18J. RACE	18K.
	E OK : 1	(Skip to 37)		ever had an inje		49. Haz had an injection or shot against the	SPOUSE		HIGHEST	GRAD	E LETEDI		ORIGIN
	many times has ever	nad :	shot	against the red meas	sies, aiso	mumps during the past 12 months?	. :	Female 2	ATTENDED	Yes	-	1. White	1 : :
polic	o vaccine by mouth?	Dr		wn as the eight day n		Yes No DK]] : :		EHC	No	:	2. Black	1 3 3
26		DK	1	: No 1 ≀ DK ↑ \	(Skip to 43)	50. INTERVIEWER CHECK ITEM		_			1	3. Amer.	1 : 5
	many times during the p had polic vaccine by n		-	had an injection	or shore	Child is 3-5 yrs. old (Ask 51)	-		1 3 3 5			Indian, Aleut,	
	1 . W 🔭	DK .	agair	nst the red measles d		Child is 6-13 vrs. old (Next child or fill 52, as	1			1.		Eskimo 3	
	ever had any shots age		past	12 months?		appropriate)				r l	.	4. Asian or Pac Isl.	:
	theria, tetanus, and whoo is DTP?	oing cough,	Yes	s D No D	DK T	51. Has been enrolled in a licensed day care facility at any time during the period				1.	İ	5. Other	1
Yes		(Skip to 39)	43. Has	ever had the thr	ee-day	September 1, 1382 -August 31, 1983?	None		None	1.	-	•	
	ו אם 🛲	וצע פז קואני		sies, aiso known as R man measies?	lubella or	Yes 7 No 7 DK		-]-	İ		- 1		
38. How	many OTP shots nas	ever had?	1					•					
. :	19. 1 - 3 [*]	DK .		DK 1	(Skip to 45)	If this is last child, fill household page item 52	L						<u> </u>
·····											1		
18A.	ten oci attoucus		,	SECOND CHILD									
LINE	18B. RELATIONSHIP		l ton	toe eev	101	Ad the had the three day manufer during		S	ECOND ARME	D FORCE	S MEMR	ER	
	TO REF. PERS.	18C. PAR'S LINE NO.	18D. AGE	18E. SEX	181. ORIGIN	44. Has had the three-day measins during the past 12 months?	(4	S If more than 2 AF	ECOND ARME persons in house				ent.)
NO.	TG REF. PERS.	LINE NO.	AGE 3.5	18E. SEX Male Female	ORIGIN O O		18A.	188. RELATION	persons in house ISHIP TO	hold, use o	18D.		
	Own child	LINE NO.	AGE	Male Female	ORIGIN O O I I	the past 12 months?	18A. LINE	188. RELATION REFERENCE	persons in house ISHIP TO CE PERS.	18C. PAR'S LINE	ontinuati	18E. MARITA Married—civili	L STATUS
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Any person(s) 0-19 (4sk 53-54) 26.	ERVIEWER TRANSCRIPTION ITEMS F TENURE (Transcribe from Control Card Item 9) Owned or being bought 0	ill Items on first CPS-I of interviewed househol 27A. INTERVIEWER CHECK IT (Rotation Number) First digit of Segment Nume 3.45,8 (Fill 278)	ЕМ	NOTES:	
53. Did refer to an immunization record, for example, a private physician's record, health department record, or military record, to answer any of the immunization questions for children 0–19 years of age? Yes No	No cash rent	C 1,2,7, or 8 (Transcribe	5, 7, 9, and 11)		
54. INTERVIEWER CHECK ITEM Who responded to supplement items for children 0—19 in this nousehold? Parent		2 Yes (Skip to 270) 2 No (Fill 27C) 27C. Telephone Available (Transcribe from C.C. item 30 2 Yes (Fill 270) 3 No (End telephone transcribe			419
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Unacte to work (Sing to 24), Use any image and interest a	### ### ### ### ### ### ### ### ### ##
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Signature Sign	Notning (Sino to 24), Other (Saecify in notes, e.g., CETA, union or prof. register, etc.). Personal, lamily (Incl. pregnancy) or school. 258, is paid by the hour on this job? Yes (Go to 25C) Yes
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Trist week) 2. DESCRIPTION OF JOB OR BUSINESS	"never worked.") atherwise, end questions.)
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B. What kind of business or industry is this? (For example: TV and radio mfg., retail shoe store, State	
C. What kind of work was doing? (For example: electrical engineer, stock clerk, typist, farmer.)	2 CT 2 TG compressions among the control of the con
and the state of t	A STATE government employee. S 23F) (iGo to 25 at top of
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D. What were 's most important activities or duties at this job? (For example: types, keeps account	A STATE government emologue. S 23F) (IGo to 25 at too of Page) Self-emol. in CVN bus, crof. practice, or farm in item 218
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1. 3. 4. 5. 7 or 3	į
Ves No C OK : LEAD IN: This month we are asking some additional questions about certain diseases and illnesses and protection from them. 29. Does have diapetes? Yes No Oon't know: 30. Coes have chronic kidney disease? Yes No OK: 42. Has had an injection or shot against the red measles, also known as the eight day measles? Yes No OK: 42. Has had an injection or shot against the red measles during the pagt 12 months? Yes No OK: 43. Has ever had the three-day measles, also known as Rubella or German measles? Yes No C Skip to 43) 44. Has had an injection or shot against the red measles during the pagt 12 months? Yes No C Skip to 43) 45. Has ever had the three-day measles, also known as Rubella or German measles? Yes No C Skip to 43)	
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29. Does have diabetes? Yes : No : Oon't know : 20. Does have chronic kidney disease? Yes : No : OK : Yes : No : OK : OK : Yes : No : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : OK : Yes : No : OK : Yes : No : OK : OK : Yes : No : OK : Yes : No : OK : OK : Yes : No :	
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Yes No. 9on't know: 30. Coes have chronic kidney disease? Yes No OK: 42. Hei had an injection or shot against the red measles during the pagt 12 months? Yes No OK: 13. Does have astrina (accust), emphysema (pause), tuberculosis (pause) or chronic bronchitis? Yes No OK: 43. Has ever had the three-day measles, also known as Rubella or German measles? Yes No OK: 43. Has ever had the three-day measles, also known as Rubella or German measles? Yes No OK: 43. Has ever had the three-day measles, also known as Rubella or German measles?	
30. Goes have chronic kidney disease? Yes No OK: 11. Does have astnma (souse), emphysema (souse), tuberculosis (souse) or chronic bronchis? Yes No OK: 12. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 13. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 14. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months? Yes No OK: 15. Heis had an injection or shot against the red measles during the page 12 months?	
Yes No DK: 31. Does have astrima (pause), emphysema (pause), tuberculosis (pause) or chronic bronchitis? Yes No DK 33. Has ever had the three-day measles, also known as Rubella or German measles? Yes No DK 34. Has ever had the three-day measles, also known as Rubella or German measles? Yes No DK 35. No DK 36. (Ship to 55)	I
31. Does have astrima (acuse), emphysema (pause), tuberculosis (pause) or chronic bronchisis? Yes No DK	
31. Does have assima (aguss), emphysema (pauss), tuperculosis (pauss) or chronic bronchitis? Yes No DK Yes No DK (Ship to 45)	- 1
Yes No Sking to DK Yes No Sking to 15 No C (Sking to 45)	
Yes No : (Ship to -5)	- 1
No (Ship to 45)	
32. Has ever been told by a doctor that he/she had a chronic heart	
condition such as a heart attack (pause), a rheumatic heart condition 44. Has had the three-day measles during the past 12 months?	į.
(Pause), nigh blood pressure (pause), or hardening of the arteries?	
Yes No No DK	
33. Oid receive influenze vaccine (pause), during the period 45. Has ever had an injection or shot against the three-day messles.	İ
September 1, 1982 — August 31, 1983? also known as Rubella or German measles?	
Yes No ○ OK ○ (Skip to ≠7)	. !
33A. INTERVIEWER CHECK ITEM 45 Mas had an intertion or their various transfer or the same of the same	- 1
33A. INTERVIEWER CHECK ITEM 48. Has had an injection or shot against the three-day measles during This person is 14–19 years old (Ask item 34) the past 12 months?	
All others (Skip to item 494) Yes No DK	•
47. Has ever nad polio vaccine by mouth? 47. Has had mumps within the past 12 months?	-
Ves : No (Skip to 37) Yes No : OK :	
15. How many times has ever had polito vaccine by mouth? 48. Has ever had an injection or shot against the mumos?	
Yes No (Ship to DK - (Ship to 1841)	. 1
1947	
16. How many times during the past 12 months has had polic vaccine by mouth?	i
DK Inepast 14 months?	
37. Has ever had any shots against diphtheria, tetanus and	
whooging cough, that is DTP?	
Yes No (Ship to DK (Ship to 39) Is this the last it hold member 14+ years of age?	
Yes (Fill 498) No (Go to next person)	
8. How many OTP shors has ever had? 498. INTERVIEWER CHECK ITEM	
Are there any children 0–13 years of age in this h'hold? DX Yes 7 (Ship to item 33 No /Ship to item 52 or	
Yes (Skip to item 33 No (Skip to item 52 on on page 2) household page 3)	.

ATTACHMENT 12

UNWEIGHTED AND WEIGHTED COUNTS

TOTAL INTERVIEWS	UMIEIGHTED	HEIGHTED
WHITE MALE		
<14	13889	19876
14+ FEMALE	50083	7498.6
<14 14+	13164 55376	18827 81938
BLACK MALE		, Section
<14 14+ FEMALE	2230 5025	3700 9002
<14 14+	2235 6515	3639 11039
OTHER MALE		
<14 14+ FENALE	830 1951	970 2389
<14 14+	803 2057	946 2443
TOTAL RECORDS	UNNEIGHTED	WEIGHTED
TOT RECOPDS INTERVIEWS <14	167419 154161 33154	229715 229715
TYPE A TYPE B/C	121007 2349 10909	47918 181797 0
		•

Attachment 13

Source and Reliability of the Estimates National Immunization Survey, September 1983

SOURCE OF DATA

The estimates in this report are based on data obtained in September of 1983 in three-fourths sample (i.e., 6 out of 8 rotation groups) of the Current Population Survey (CPS) of the Bureau of the Census.

The monthly CPS deals mainly with labor force data for the civilian noninstitutional population. Questions relating to labor force participation are asked about each member 14 years old and over in each sample household. In September 1983, additional questions were asked relating to immunization.

The present CPS sample was initially selected from the 1970 census files and is continually updated to reflect new construction. The monthly CPS sample is spread over 629 areas with coverage in each of the 50 states and the District of Columbia. The CPS sample areas are comprised of 1,148 counties, independent cities, and minor civil divisions in the nation. From this sample, approximately 60,500 occupied households were eligible for interview. Of this number, about 2,500 occupied units were visited but interviews were not obtained because the occupants were not found at home after repeated calls or were unavailable for some other reason.

The estimation procedure used in this survey involves the inflation of the weighted sample results to independent estimates of the total civilian noninstitutional population of the United States by age, race and sex. These independent estimates are based on statistics from the decennial censuses; statistics on births, deaths, immigration and emigration; and statistics on the strength of the Armed Forces.

RELIABILITY OF THE ESTIMATES

Since the estimates in this report are based on a sample, they may differ somewhat from the figures that would have been obtained had a complete census been taken using the same questionnaires, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey — sampling and nonsampling. The standard errors provided for this report primarily 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 full extent of the nonsampling error is unknown. Consequently, particular care should be exercised in the interpretation of figures based on a relatively small number of cases or on small differences between estimates.

Nonsampling Variability

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all units within the sample (undercoverage).

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage, as compared to the level of the 1980 decennial census, is about 7 percent. It is known that CPS undercoverage varies with age, sex and race. Generally, undercoverage is larger for males than for females and larger for Blacks and other races than for Whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

For additional information on nonsampling error including the possible impact on CPS data when known, refer to Statistical Policy Working Paper 3, An Error Profile: Employment as Measured by the Current Population Survey, Office of Federal Statistical Policy and Standards, U.S. Department of Commerce, 1978 and Technical Paper 40, The Current Population Survey: Design and Methodology, Bureau of the Census, U.S. Department of Commerce.

Sampling Variability

The standard errors given in the following tables are primarily measures of sampling variability, that is, of the variation that occurred by chance because a sample rather than the entire population was surveyed. The sample estimate and its estimated standard error enable one to construct confidence intervals, ranges that would include the average result of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and if an estimate and its estimated standard error were calculated from each sample, then:

- 1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
- 2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples.
- 3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average result of all possible samples.

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

Note When Using Small Estimates

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon the size of the percentage and the size of the base of the percentage. 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.

Particular care should be exercised in the interpretation of estimated percentages or estimated numbers based on a relatively small number of cases or on small differences between estimates.

Standard Error Tables and Their Use

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. Therefore, instead of providing an individual standard error for each estimate, generalized sets of standard errors are provided for various types of characteristics. As a result, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

The figures in Tables A through C provide approximations to standard errors of estimated numbers and estimated percentages. For standard errors of estimated numbers and percentages for poverty data use tables A or B as footnoted. In all the standard error tables, standard errors for intermediate values not shown may be approximated by interpolation. Standard errors of estimated numbers for age groups covering 11 to 14 years are obtained by interpolating between column (2) and column (3) of table A; standard errors of estimated percentages for those age groups are obtained by interpolating between table B and table C.

Illustration of the Use of Tables of Standard Errors

Suppose that there were 712,000 persons, aged 1-19, in the Middle Atlantic Division who had received an influenza vaccine during the twelve months before September 1983. From Column 2 of Table A, the standard error of an estimate of this size is found to be approximately 73,000. Consequently, the 68 percent confidence interval for number of persons aged 1-19 in the Middle Atlantic Division who had received an influenza vaccine during the twelve months before September 1983 is from 639,000 to 785,000. 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 68 percent of all possible samples. Similarly, we could conclude with 95 percent confidence that in the twelve months before September 1983, the number of persons aged 1-19 in the Middle Atlantic Division who had received an influenza vaccine is from 566,000 to 858,000.

Also, suppose that of the 33,000,000 persons aged 10 or less, 4.0 percent had received an influenza vaccine during the twelve months before September 1983. Table C shows the standard error of 4.0 percent on a base of 33,000,000 to be approximately 0.2 percent. Consequently, the 68 percent confidence interval for the percentage of persons aged 10 or less who had an influenza vaccine during the twelve months before September 1983 is from 3.8 to 4.2 and the 95 percent confidence interval is from 3.6 to 4.4.

Also, suppose that of the 10,000,000 persons aged 11-24, 5 percent had received an influenza vaccine during the twelve months before September 1983.

As mentioned before, standard errors of estimated percentages for age groups covering 11 to 24 years are obtained by interpolating between Table B and Table C. Table B shows the standard error of 5 percent on a base of 10,000,000 to be 0.6 percent and Table C shows this number to be 0.4 percent. By interpolating between Table B and C (i.e., 0.6 and 0.4), the standard error of 5 percent on a base of 10,000,000 persons aged 11-24 would be approximately 0.5 percent. Consequently, the 68 percent confidence interval of the percentage of persons aged 11-24 who had an influenza vaccine during the twelve months before September 1983 is from 4.5 to 5.5 and the 95 confidence interval is from 4.0 to 6.0.

Standard Error of a Difference

For a difference between two sample estimates, the standard error is approximately equal to

$$\sigma(x-y) = \sqrt{\frac{\sigma^2 + \sigma^2}{x}}$$

where σ_X and σ_Y are the standard errors of the estimates x and y; the estimates can be of numbers, percents, ratios, etc. This will represent the actual standard errors quite accurately for the difference between two estimates of the same characteristic in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive (negative) correlation between the two characteristics, the formula will overestimate (underestimate) the true standard error.

Illustration of the Computation of the Standard Error of an Estimated Difference

Suppose that 66.0 percent of the 11,000,000 white children, aged 1-4 years, had ever received oral polio vaccine 3 or more times. For nonwhite children the percentage is 37.0 of 3,000,000. The apparent difference between the percentages of white and nonwhite children is 29.0 percent. Table C shows the standard error of 66.0 percent on a base of 11,000,000 to be approximately 0.8 percent, and the standard error of 37.0 percent on a base of 3,000,000 is 1.5 percent.

Thus, the standard error on the estimated difference of 29.0 percent is approximately

$$\sigma_{x-y} = \sqrt{0.8^2 + 1.5^2} = 1.7$$

This means that the 68 percent confidence interval for the difference between the percent of white and nonwhite children aged 1-4 years who had ever received oral polio vaccine 3 or more times is from 27.3 to 30.7, and the 95 percent confidence interval is from 25.6 to 32.4. Since the 95 percent confidence interval does not include zero, we can conclude with 95 percent confidence that the percentage of white children aged 1-4 years who had ever received oral polio vaccine 3 or more times is larger than that of nonwhite children.

Table A

Standard Errors of Estimated Numbers of Persons I/

(Numbers in thousands)

	Standar	i Error 2/
Size of Estimate (I)	 Age Groups Covering 15 or More Years (2)	Age Groups Covering 10 or Fewer Years (3)
250	44	26
500	62	37
1,000	87	52
2,500	136	80
.5,000	189	108
10,000	257	140
25,000	358	141

(X) Not Applicable.

For poverty data, use standard errors in column 2 only.

Standard errors for age groups covering II to 14 years are obtained by interpolating between column (2) and column (5). For estimates larger than 50,000,000, multiply estimate by 0.007 to get

3/ the standard error.

Table B

Standard Errors of Estimated Percentages of Persons 1/
Age Groups Covering 15 or More Years 2/

Base of Estimated			Estima	ited Percent	age		
Percentage (thousands)	1 or 99	2 or 98	5 or 95	10 or 90	20 or 80	35 or 65	50
500	1.2	1.7	2.7	3.7	4.9	5.9	6.2
1,000	0.9	1.2	1.9	2.6	3.5	4.2	4.4
2,500	0.6	0.8	1.2	1.7	2.2	2.6	2.8
5,000	0.4	0.5	0.9	1.2	1.6	1.9	2.0
10,000	0.3	0.4	0.6	0.8	1.1	1.3	1.4
25,000	0.2	0.2	0.4	0.5	0.7	0.8	0.9
50,000	0.12	0.2	0.3	0.4	0.5	0.6	0.6
75,000	0.10	0.14	0.2.	0.3	0.4	0.5	0.5
100,000	0.09	0.12	0.2	0.3	0.4	0.4	0.41

- 1/ For estimated percentages for poverty data, this table of standard errors should be used.
- 2/ Standard errors of estimated percentages for age groups covering 11 to 14 years are obtained by interpolating between table B and table C.

Table C

Standard Errors of Estimated Percentages of Persons Age Groups Covering 10 or Fewer Years $\frac{1}{2}$

Base of Estimated Percentage			Estimat	ed Percent	age		
(thousands)	1 or 99	2 or 98	5 or 95	10 or 90	20 or 80	35 or 65	50.
500 1,000 2,500 5,000 10,000 25,000 35,000	0.7 0.5 0.3 0.2 0.2 0.10 0.09	1.0 0.7 0.5 0.3 0.2 0.15 0.12	1.5 1.1 0.7 0.5 0.4/ 0.2 0.2	2.I 1.6 1.0 0.7 0.5 0.3	2.8 2.1 1.3 0.9 0.7 0.4 0.4	3.4 2.5 1.6 1.1 0.8 0.5 0.4	3.5 2.6 1.7 1.2 0.8 0.5

Note: Use table B for standard errors of estimated percentages for poverty data.

Standard errors of estimated percentages for age groups covering II to 14 years are obtained by interpolating between table B and table C.



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census

Washington, D.C. 20233

Current Population Survey, September 1983

User Note No. 1

The attachments listed below showing 1980 census industry and occupation codes are to be added to your copy of the documentation. These codes are contained in word 63, character 2 through word 64, character 1 on the adult record.

Attachment 14 1980 Census of Population Industry Classification System

Attachment 15 1980 Census of Population Occupation Classification System

1980 CENSUS OF POPULATION INDUSTRY CLASSIFICATION SYSTEM

(Numbers in parentheses are the 1972 SIC code equivalents 1/)

Census Code	
code	AGRICULTURE, FORESTRY, AND FISHERIES
010 (A) 011 020 021 030 031	Agricultural production, crops (01) Agricultural production, livestock (02) Agricultural services, except horticultural (07, except 078) Horticultural services (078) Forestry (08) Fishing, hunting, and trapping (09)
	MINING
040 041 042 050	Metal mining (10) Coal mining (11, 12) Crude petroleum and natural gas extraction (13) Nonmetallic mining and quarrying, except fuel (14)
060 (B)	CONSTRUCTION (15, 16, 17)
	MANUFACTURING Nondurable Goods
100 101 102 110 111 112 120 121 122 130 132 140 141 142 150	Food and kindred products Meat products (201) Dairy products (202) Canned and preserved fruits and vegetables (203) Grain mill products (204) Bakery products (205) Sugar and confectionery products (206) Beverage industries (208) Miscellaneous food preparations and kindred products (207, 209) Not specified food industries Tobacco manufactures (21) Textile mill products Knitting mills (225) Dyeing and finishing textiles, except wool and knit goods (226) Floor coverings, except hard surface (227) Yarn, thread, and fabric mills (221-224, 228) Miscellaneous textile mill products (229)

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

MANUFACTURING-Continued

Nondurable goods-Continued

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

Durable Goods

		Lumber and wood products, except furniture
230		Logging (241)
231		Sawmills, planing mills, and millwork (242, 243)
232	•	Wood buildings and mobile homes (245)
241		Miscellaneous wood products (244, 249)
242		Furniture and fixtures (25)
•		Stone, clay, glass, and concrete products
250		Glass and glass products (321-323)
251		Cement, concrete, gypsum, and plaster products (324, 327)
252		Structural clay products (325)
261		Pottery and related products (326)
262	*	Miscellaneous nonmetallic mineral and stone products (328, 329).
	:	Metal industries
270		Blast furnaces, steelworks, rolling and finishing mills (331)
271		Iron and steel foundries (332)
272		Primary aluminum industries (3334, part 334, 3353-3355, 3361)

MANUFACTURING-Continued

Durable goods-Continued

280	Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 339)
281	Cutlery, handtools, and other hardware (342)
282	Fabricated structural metal products (344)
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301	Not specified metal industries
301	Machinery, except electrical
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312	
312 320	Construction and material handling machines (353)
321	Metalworking machinery (354)
321 322	Office and accounting machines (357, except 3573)
331	Electronic computing equipment (3573)
	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332	Not specified machinery
340	Electrical machinery, equipment, and supplies
	Household appliances (363)
341	Radio, T.V., and communication equipment (365, 366)
342	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
35 0	Not specified electrical machinery, equipment, and supplies
	Transportation equipment
351	Motor vehicles and motor vehicle equipment (371)
352	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
	Professional and photographic equipment, and watches
371	Scientific and controlling instruments (381, 382)
372	Optical and health services supplies (383, 384, 385)
380	Photographic equipment and supplies (386)
381	Watches, clocks, and clockwork operated devices (387)
382	Not specified professional equipment
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 exc. 394)
392	Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

400		ransportation Railroads (40)			
401	•	Bus service and urba	n transit	(41, except	412)
402		Taxicab service (412	<u>'</u>)		
410	•	Trucking service (42			

Census Code	TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES-Continued
411 412 420 421 422 432 440 441 442	Transportation (continued) Warehousing and storage (422) U.S. Postal Service (43) Water transportation (44) Air transportation (45) Pipe lines, except natural gas (46) Services incidental to transportation (47) Communications Radio and television broadcasting (483) Telephone (wire and radio) (481) Telegraph and miscellaneous communication services (482, 489) Utilities and sanitary services
460 461 462 470 471 472	Electric light and power (491) Gas and steam supply systems (492, 496) Electric and gas, and other combinations (493) Water supply and irrigation (494, 497) Sanitary services (495) Not specified utilities WHOLESALE TRADE
500 501 502 510 511 512 521 522 530 531 532	Durable Goods Motor vehicles and equipment (501) Furniture and home furnishings (502) Lumber and construction materials (503) Sporting goods, toys, and hobby goods (504) Metals and minerals, except petroleum (505) Electrical goods (506) Hardware, plumbing and heating supplies (507) Not specified electrical and hardware products Machinery, equipment, and supplies (508) Scrap and waste materials (5093) Miscellaneous wholesale, durable goods (5094, 5099)
540 541 542 550 551 552 560 561 562 571	Nondurable Goods Paper and paper products (511) Drugs, chemicals and allied products (512, 516) Apparel, fabrics, and notions (513) Groceries and related products (514) Farm products - raw materials (515) Petroleum products (517) Alcoholic beverages (518) Farm supplies (5191) Miscellaneous wholesale, nondurable goods (5194, 5198, 5199) Not specified wholesale trade

Census Code	RETAIL TRADE
580	Lumber and building material retailing (521, 523) Hardware stores (525) Retail nurseries and garden stores (526) Mobile home dealers (527) Department stores (531) Variety stores (533) Miscellaneous general merchandise stores (539) Grocery stores (541) Dairy products stores (545) Retail bakeries (546) Food stores, n.e.c. (542, 543, 544, 549) Motor vehicle dealers (551, 552) Auto and home supply stores (553) Gasoline service stations (554) Miscellaneous vehicle dealers (555, 556, 557, 559) Apparel and accessory stores, except shoe (56, except 566) Shoe stores (566)
632 640 641 (F) 642 650 651 652 660 661 662 670 671 672 681 682 691	Furniture and home furnishings stores (571) Household appliances, TV, and radio stores (572, 573) Eating and drinking places (58) Drug stores (591) Liquor stores (592) Sporting goods, bicycles, and hobby stores (5941, 5945, 5946) Book and stationery stores (5942, 5943) Jewelry stores (5944) Sewing, needlework and piece goods stores (5949) Mail order houses (5961) Vending machine operators (5962) Direct selling establishments (5963) Fuel and ice dealers (598) Retail florists (5992) Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999) Not specified retail trade
	FINANCE, INSURANCE, AND REAL ESTATE
700 (G) 701 702 710 711 (H) 712	Banking (60) Savings and loan associations (612) Credit agencies, n.e.c. (61, except 612) Security, commodity brokerage, and investment companies (62, 67) Insurance (63, 64) Real estate, including real estate-insurance-law offices (65, 66)
	BUSINESS AND REPAIR SERVICES
721 722 730 731 732	Advertising (731) Services to dwellings and other buildings (734) Commercial research, development, and testing labs (7391, 7397) Personnel supply services (736) Business management and consulting services (7392)

Census Code	BUSINESS AND REPAIR SERVICES (continued)
740 741 742 750 751 752 760	Computer and data processing services (737) Detective and protective services (7393) Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399) Automotive services, except repair (751, 752, 754) Automotive repair shops (753) Electrical repair shops (762, 7694) Miscellaneous repair services (763, 764, 7692, 7699)
	PERSONAL SERVICES
761 (J) 762 770 771 772 780 781 782 790 791	Private households (88) Hotels and motels (701) Lodging places, except hotels and motels (702, 703, 704) Laundry, cleaning, and garment services (721) Beauty shops (723) Barber shops (724) Funeral service and crematories (726) Shoe repair shops (725) Dressmaking shops (part 729) Miscellaneous personal services (722, part 729)
	ENTERTAINMENT AND RECREATION SERVICES
800 801 802	Theaters and motion pictures (78, 792) Bowling alleys, billiard and pool parlors (793) Miscellaneous entertainment and recreation services (791, 794, 799)
	PROFESSIONAL AND RELATED SERVICES
812 820 821 822 830 831 (K) 832 840 841 842 (L) 850 (M) 851 852 860 861 862 870 871 872	Offices of physicians (801, 803) Offices of dentists (802) Offices of chiropractors (8041) Offices of optometrists (8042) Offices of health practitioners, n.e.c. (8049) Hospitals (806) Nursing and personal care facilities (805) Health services, n.e.c. (807, 808, 809) Legal services (81) Elementary and secondary schools (821) Colleges and universities (822) Business, trade, and vocational schools (824) Libraries (823) Educational services, n.e.c. (829) Job training and vocational rehabilitation services (833) Child day care services (835) Residential care facilities, without nursing (836) Social services, n.e.c. (832, 839) Museums, art galleries, and zoos (84)

Census Code	PROFESSIONAL AND RELATED SERVICES (continued)
880 881 882 890 891 892	Religious organizations (866) Membership organizations (861-865, 869) Engineering, architectural, and surveying services (891) Accounting, auditing, and bookkeeping services (893) Noncommercial educational and scientific research (892) Miscellaneous professional and related services (899)
	PUBLIC ADMINISTRATION
900 901 910 921 922 930 931 932	Executive and legislative offices (911-913) General government, n.e.c. (919) Justice, public order, and safety (92) Public finance, taxation, and monetary policy (93) Administration of human resources programs (94) Administration of environmental quality and housing program. Administration of economic programs (96) National security and international affairs (97)
991	Member of the Armed Forces

Attachment 15

1980 CENSUS OF POPULATION OCCUPATION CLASSIFICATION SYSTEM

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

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

1980 CODE	Executive, Administrative, and Managerial Occupations
003 004 005 006 007	Legislators (111) Chief executives and general administrators, public administration (112) Administrators and officials, public administration (1132-1139) Administrators, protective services (1131) Financial management (122)
007	Financial managers (122) Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Managers, properties and real estate (1353)
017 018	Postmasters and mail superintendents (1344)
019	Funeral directors (pt 1359) Managers and administrators p. c. (121, 126, 127, 120, 120, 120, 120, 120, 120, 120, 120
013	Managers and administrators, n.e.c. (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
	Management Related Occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029 033	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449) Business and promotion arents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, exc. construction (1473)
037	Management related occupations, n.e.c. (149)
•	
	Professional Specialty Occupations
043 044	Engineers, Architects, and Surveyors Architects (161) Engineers Aerospace (1622)

Engineers, Architects, and Surveyors (continued)

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Engineers (continued)
 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)
             Mechanical (1635)
 057
 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)
           Agricultural and food scientists (1853)
077
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)
880
          Podiatrists (283)
089
          Health diagnosing practitioners, n.e.c. (289)
        Health Assessment and Treating Occupations
095
          Registered nurses (29)
096
          Pharmacists (301)
097
          Dietitians (302)
          Therapists
098
            Inhalation therapists (3031)
099
            Occupational therapists (3032)
103
            Physical therapists (3033)
104
            Speech therapists (3034)
105
            Therapists, n.e.c. (3039)
106
          Physicians' assistants (304)
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Teachers, Postsecondary
           Earth, environmental, and marine science teachers (2212)
 113
           Biological science teachers (2213)
 114
           Chemistry teachers (2214)
 115
           Physics teachers (2215)
 116
           Natural science teachers, n.e.c. (2216)
 117
           Psychology teachers (2217)
 118
           Economics teachers (2218)
 119
           History teachers (2222)
 123
           Political science teachers (2223)
 124
           Sociology teachers (2224)
 125
           Social science teachers, n.e.c. (2225)
 126
           Engineering teachers (2226)
 127
           Mathematical science teachers (2227)
 128
           Computer science teachers (2228)
 129
           Medical science teachers (2231)
 133
           Health specialties teachers (2232)
 134
           Business, commerce, and marketing teachers (2233)
 135
           Agriculture and forestry teachers (2234)
 136
           Art, drama, and music teachers (2235)
 137
           Physical education teachers (2236)
 138
            Education teachers (2237)
 139
            English teachers (2238)
 143
            Foreign language teachers (2242)
 144
            Law teachers (2243)
 145
            Social work teachers (2244)
 146
            Theology teachers (2245)
 147
            Trade and industrial teachers (2246)
 148
            Home economics teachers (2247)
 149
            Teachers, postsecondary, n.e.c. (2249)
 153
            Postsecondary teachers, subject not specified
 154
          Teachers, Except Postsecondary
            Teachers, prekindergarten and kindergarten (231)
  155
            Teachers, elementary school (232)
N(156)
            Teachers, secondary school (233)
P(157)
            Teachers, special education (235)
  158
            Teachers, n.e.c. (236, 239)
  159
          Counselors, educational and vocational (24)
  163
          Librarians, Archivists, and Curators
            Librarians (251)
  164
            Archivists and curators (252)
  165
          Social Scientists and Urban Planners
            Economists (1912)
  166
            Psychologists (1915)
  167
            Sociologists (1916) 🦟
  168
            Social scientists, n.e.c. (1913, 1914, 1919)
  169
            Urban planners (192)
  173
          Social, Recreation, and Religious Workers
            Social workers (2032)
  174
            Recreation workers (2033)
  175.
                                                                       155
            Clergy (2042)
  176
            Religious workers, n.e.c. (2049)
  177
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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)
            Painters, sculptors, craft-artists, and artist printmakers (325)
 188
 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)
           Health record technologists and technicians (364)
 205
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)
Mechanical engineering technicians (3713)
215
216
             Engineering technicians, n.e.c. (3719)
217
             Drafting occupations (372)
218
             Surveying and mapping technicians (373)
           Science Technicians
223
            Biological technicians (382)
224
             Chemical technicians (3831)
225/
             Science technicians, n.e.c. (3832, 3833, 384, 389)
          Technicians; Except Health, Engineering, and Science
226
            Airplane pilots and navigators (825)
227
            Air traffic controllers (392)
228
            Broadcast equipment operators (393)
229
            Computer programmers (3971, 3972)
233
            Tool programmers, numerical control (3974)
234
            Legal assistants (396)
235
            Technicians, n.e.c. (399)
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156

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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)
              Sales workers, apparel (4346)
  264
  265
              Sales workers, shoes (4351)
              Sales workers, furniture and home furnishings (4348)
  266
  267
              Sales workers; radio, TV, hi-fi, and appliances (4343, 4352)
  268
              Sales workers, hardware and building supplies (4353)
  269
              Sales workers, parts (4367)
  274
              Sales workers, other commodities (4345, 4347, 4354, 4356, 4359,
                  4362, 4369)
  275
              Sales counter clerks (4363)
Q(276)
              Cashiers (4364)
  277.
              Street and door-to-door sales workers (4366)
  278
              News vendors (4365)
            Sales Related Occupations
  283
              Demonstrators, promoters and models, sales (445)
  284
              Auctioneers (447)
  285
              Sales support occupations, n.e.c. (444, 446, 449)
                Administrative Support Occupations, Including Clerical
            Supervisors, Administrative Support Occupations
  303
              Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
  304
              Supervisors, computer equipment operators (4512)
  305
              Supervisors, financial records processing (4521)
  306
              Chief communications operators (4523)
  307
              Supervisors; distribution, scheduling, and adjusting clerks
                (4522, 4524-4528)
            Computer Equipment Operators
  308
              Computer operators (4612)
  309
              Peripheral equipment operators (4613)
            Secretaries, Stenographers, and Typists
R(313)
              Secretaries (4622)
  314
              Stenographers (4623)
  315
              Typists (4624)
            Information Clerks
  316
              Interviewers (4642)
  317
              Hotel clerks (4643)
 318
              Transportation ticket and reservation agents (4644)
 319
              Receptionists (4645)
                                                                            157
  323
              Information clerks, n.e.c. (4649)
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Records Processing Occupations, Except Financial
  325
              Classified-ad clerks (4662)
  326
              Correspondence clerks (4663)
  327
              Order clerks (4664)
  328
              Personnel clerks, except payroll and timekeeping (4692)
  329
              Library clerks (4694)
  335
              File clerks (4696)
  336
             -Records clerks (4699)
            Financial Records Processing Occupations
S(337)
              Bookkeepers, accounting, and auditing clerks (4712)
  338
              Payroll and timekeeping clerks (4713)
 339
              Billing clerks (4715)
 343
              Cost and rate clerks (4716)
 344
              Billing, posting, and calculating machine operators (4718)
           Duplicating, Mail and Other Office Machine Operators
 345
             Duplicating machine operators (4722)
 346
             Mail preparing and paper handling machine operators (4723)
 347
              Office machine operators, n.e.c. (4729)
           Communications Equipment Operators
 348
             Telephone operators (4732)
 349
             Telegraphers (4733)
 353
             Communications equipment operators, n.e.c. (4739)
           Mail and Message Distributing Occupations
 354
             Postal clerks, exc. mail carriers (4742)
 355
             Mail carriers, postal service (4743)
 356
             Mail clerks, exc. postal service (4744)
 357
             Messengers (4745)
           Material Recording, Scheduling, and Distributing Clerks
 359
             Dispatchers (4751)
 363
             Production coordinators (4752)
 364
             Traffic, shipping, and receiving clerks (4753)
 365
             Stock and inventory clerks (4754)
 366
             Meter readers (4755)
 368
             Weighers, measurers, and checkers (4756)
 369
             Samplers (4757)
 373
             Expediters (4758)
374
             Material recording, scheduling, and distributing clerks, n.e.c. (4759)
           Adjusters and Investigators
375
             Insurance adjusters, examiners, and investigators (4782)
376
             Investigators and adjusters, except insurance (4783)
377
             Eligibility clerks, social welfare (4784)
378
             Bill and account collectors (4786)
           Miscellaneous Administrative Support Occupations
             General office clerks (463)
379
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)
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SERVICE OCCUPATIONS

	Private Household Occupations
403	Launderers and ironers (503)
404	Cooks, private household (504)
405	Housekeepers and butlers (505)
406	Child care workers, private household (506)
T(407)	Private household cleaners and servants (502, 507, 509)
1 (407)	HAVALE 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)
147	Police and Detectives
418	Police and detectives, public service (5132)
423	Sheriffs bailiffs, and other law enforcement officers (5134)
424	
424	Correctional institution officers (5133)
400	Guards
425	Crossing guards (5142)
426	Guards and police, exc. public service (5144)
427	Protective service occupations, n.e.c. (5149)
*	
	Service Occupations, Except Protective and Household
	Food Preparation and Service Occupations
433	Supervisors, food preparation and service occupations (5211)
434	Bartenders (5212)
U(435)	Waiters and waitresses (5213)
436	Cooks, except short order (5214)
437	
the state of the s	Short-order cooks (5215)
438	Food counter, fountain and related occupations (5216)
439	Kitchen workers, food preparation (5217)
443	Waiters'/waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
	Health Service Occupations
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
	Cleaning and Building Service Occupations, except Household
448	Supervisors, cleaning and building service workers (5241)
449	Maids and housemen (5242, 5249)
V (453)	lanitons and elegance (5242)
	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)
•	

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Personal Service Occupations (continued)
   459
               Attendants, amusement and recreation facilities (5254)
               Guides (5255)
Ushers (5256)
   463
   464
   465
               Public transportation attendants (5257)
   466
               Baggage porters and bellhops (5262)
   467
               Welfare service aides (5263)
   468
              -Child care workers, except private household (5264)
   469
               Personal service occupations, n.e.c. (5258, 5269)
                     FARMING, FORESTRY, AND FISHING OCCUPATIONS
             Farm Operators and Managers
W(473)
               Farmers, except horticultural (5512-5514)
               Horticultural specialty farmers (5515)
   474
  475
               Managers, farms, except horticultural (5522-5524)
  476
               Managers, horticultural specialty farms (5525)
             Other Agricultural and Related Occupations
               Farm Occupations, Except Managerial
  477
                 Supervisors, farm workers (5611)
  479
                 Farm workers (5612-5617)
  483
                 Marine life cultivation workers (5618)
  484
                 Nursery workers (5619)
               Related Agricultural Occupations
  485
                 Supervisors, related agricultural occupations (5621)
  486
                 Groundskeepers and gardeners, except farm (5622)
  487
                 Animal caretakers, except farm (5624)
  488
                 Graders and sorters, agricultural products (5625)
  489
                 Inspectors, agricultural products (5627)
            Forestry and Logging Occupations
  494
              Supervisors, forestry, and logging workers (571)
  495
              Forestry workers, except logging (572)
  496
              Timber cutting and logging occupations (573, 579)
            Fishers, Hunters, and Trappers
  497
              Captains and other officers, fishing vessels (pt 8241)
  498
              Fishers (583)
  499
              Hunters and trappers (584)
               PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS
          Mechanics and Repairers
  503
            Supervisors, mechanics and repairers (60)
            Mechanics and Repairers, Except Supervisors
              Vehicle and Mobile Equipment Mechanics and Repairers
X(505)
                Automobile mechanics (pt-6111)
  506
                  Automobile mechanic apprentices (pt 6111)
  507
                Bus, truck, and stationary engine mechanics (6112)
  508
                Aircraft engine mechanics (6113)
  509
                Small engine repairers (6114)
  514
                Automobile body and related repairers (6115)
  515
                Aircraft mechanics, exc. engine (6116)
                                                                                 160
  516
                Heavy equipment mechanics (6117)
  517
                Farm equipment mechanics (6118)
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Mechanics and Repairers Except Supervisors (continued)
             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)
               Miscellaneous electrical and electronic equipment repairers (6152, 6159)
   533
  534
            Heating, air conditioning, and refrigeration mechanics (6161
            Miscellaneous Mechanics and Repairers
  535
               Camera, watch, and musical instrument repairers (6171, 6172)
               Locksmiths and safe repairers (6173)
  536
  538
               Office machine repairers (6174)
  539
              Mechanical controls and valve repairers (6175)
  543
              Elevator installers and repairers (6176)
  544
              Millwrights (6178)
              Specified mechanics and repairers, n.e.c. (6177, 6179)
  547
  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)
            Supervisors; plumbers, pipefitters, and steamfitters (6316)
  557
            Supervisors, n.e.c. (6311, 6318)
  558
          Construction Trades, Except Supervisors
  563
            Brickmasons and stonemasons (pt 6412, pt 6413)
  564
              Brickmason and stonemason apprentices (pt 6412, pt 6413)
  565
            Tile setters, hard and soft (6414, pt 6462)
  566
            Carpet installers (pt 6462)
Y(567)
            Carpenters (pt 6422)
  569
              Carpenter apprentices (pt 6422)
 573
            Drywall installers (6424)
 575
            Electricians (pt 6432)
 576
              Electrician apprentices (pt 6432)
 577
            Electrical power installers and repairers (6433)
           Painters, construction and maintenance (6442)
 579
 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)
                                                                                  161
           Construction trades, n.e.c. (6467, 6475, 6476, 6479)
 599
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Extractive Occupations
 613
           Supervisors, extractive occupations (632)
 614
           Drillers, oil well (652)
 615
           Explosives workers (653)
 616
           Mining machine operators (654)
 617
           Mining occupations, n.e.c. (656)
         Precision Production Occupations
 633
           Supervisors, production occupations (67, 71)
           Precision Metal Working Occupations
             Tool and die makers (pt 6811)
 634
 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
 645
             Patternmakers and model makers, metal (6817)
 646
             Lay-out workers (6821)
 647
             Precious stones and metals workers (Jewelers) (6822, 6866)
 649
             Engravers, metal (6823)
 653
             Sheet metal workers (pt 6824)
654
               Sheet metal worker apprentices (pt 6824)
655
             Miscellaneous precision metal workers (6829)
           Precision Woodworking Occupations
656
             Patternmakers and model makers, wood (6831)
657
             Cabinet makers and bench carpenters (6832)
658
             Furniture and wood finishers (6835)
659
             Miscellaneous precision woodworkers (6839)
          Precision Textile, Apparel, and Furnishings Machine Workers
666
             Dressmakers (pt 6852, pt 7752)
667
             Tailors (pt 6852)
668
             Upholsterers (6853)
669
             Shoe repairers (6854)
673
             Apparel and fabric patternmakers (6856)
674
            Miscellaneous precision apparel and fabric workers (6859, pt 7752)
          Precision Workers, Assorted Materials
675
            Hand molders and shapers, except jewelers (6861)
676
             Patternmakers, lay-out workers, and cutters (6862)
677
            Optical goods workers (6864, pt 7477, pt 7677)
678
            Dental laboratory and medical appliance technicians (6865)
679
            Bookbinders (6844)
683
            Electrical and electronic equipment assemblers (6867)
684
            Miscellaneous precision workers, n.e.c. (6869)
          Precision Food Production Occupations
-686
            Butchers and meat cutters (6871)
687
            Bakers (6872)
688
            Food batchmakers (6873, 6879)
          Precision Inspectors, Testers, and Related Workers
689
            Inspectors, testers, and graders (6881, 828)
693
            Adjusters and calibrators (6882)
          Plant and System Operators
```

694		Water and sewage treatment plant operators (691)
695		Power plant operators (pt 693)
696		Stationary engineers (pt 693, 7668)
699	• . •	Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

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Machine Operators, Assemblers, and Inspectors
      Machine Operators and Tenders, except Precision
        Metal working and Plastic Working Machine Operators
           Lathe and turning machine set-up operators (7312)
703
           Lathe and turning machine operators (7512)
704
           Milling and planing machine operators (7313, 7513)
705
           Punching and stamping press machine operators (7314, 7317, 7514, 7517)
706
           Rolling machine operators (7316, 7516)
707
           Drilling and boring machine operators (7318, 7518)
708
           Grinding, abrading, buffing, and polishing machine operators
709
              (7322, 7324, 7522)
           Forging machine operators (7319, 7519)
713
           Numerical control machine operators (7326)
714
           Miscellaneous metal, plastic, stone, and glass working machine operators
715
              (7329, 7529)
         Fabricating machine operators, n.e.c. (7339, 7539)
717
         Metal and Plastic Processing Machine Operators
           Molding and casting machine operators (7315, 7342, 7515, 7542)
719
           Metal plating machine operators (7343, 7543)
723
           Heat treating equipment operators (7344, 7544)
724
           Miscellaneous metal and plastic processing machine operators (7349, 7549)
725
         Woodworking Machine Operators
           Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632
726
           Sawing machine operators (7433, 7633)
727
           Shaping and joining machine operators (7435, 7635)
728
           Nailing and tacking machine operators (7636)
729
           Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
733
         Printing Machine Operators
           Printing machine operators (7443, 7643)
734
           Photoengravers and lithographers (6842, 7444, 7644)
735
           Typesetters and compositors (6841, 7642)
736
           Miscellaneous printing machine operators (6849, 7449, 7649)
737
         Textile, Apparel, and Furnishings Machine Operators
           Winding and twisting machine operators (7451, 7651)
738
           Knitting, looping, taping, and weaving machine operators (7452, 7652)
739
           Textile cutting machine operators (7654)
743
           Textile sewing machine operators (7655)
744
           Shoe machine operators (7656)
745
           Pressing machine operators (7657)
747
           Laundering and dry cleaning machine operators (6855, 7658)
748
           Miscellaneous textile machine operators (7459, 7659)
749
         Machine Operators, Assorted Materials
           Cementing and gluing machine operators (7661)
753
                                                                             : 53
           Packaging and filling machine operators (7462, 7662)
754
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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)
               Machine Operators, Assorted Materials (continued)
  763
                 Roasting and baking machine operators, food (7472, 7672)
  764
                 Washing, cleaning, and pickling machine operators (7673)
  765
                 Folding machine operators (7474, 7674)
  766
                 Furnace, kiln, and oven operators, exc. food (7675)
  768
                 Crushing and grinding machine operators (pt 7477, pt 7677)
  769
                 Slicing and cutting machine operators (7478, 7678)
  773
                 Motion picture projectionists (pt 7479)
  774
                 Photographic process machine operators (6863, 6868, 7671)
  777
                 Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
  779
                 Machine operators, not specified
            Fabricators, Assemblers, and Hand Working Occupations
  783
              Welders and cutters (7332, 7532, 7714)
  784
              Solderers and brazers (7333, 7533, 7717)
  785
              Assemblers (772, 774)
  786
              Hand cutting and trimming occupations (7753)
  787
              Hand molding, casting, and forming occupations (7754, 7755)
  789
              Hand painting, coating, and decorating occupations (7756)
  793
              Hand engraving and printing occupations (7757)
  794
              Hand grinding and polishing occupations (7758)
  795
              Miscellaneous hand working occupations (7759)
            Production Inspectors, Testers, Samplers, and Weighers
  796
              Production inspectors, checkers, and examiners (782, 787)
  797
              Production testers (783)
  798
              Production samplers and weighers (784)
  799
              Graders and sorters, exc. agricultural (785)
                Transportation and Material Moving Occupations
            Motor Vehicle Operators
  803
              Supervisors, motor vehicle operators (8111)
Z(804)
              Truck drivers, heavy (8212, 8213)
Truck drivers, light (8214)
  805
 806
              Driver-sales workers (8218)
 808
              Bus drivers (8215)
              Taxicab drivers and chauffeurs (8216)
 809
 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)
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