CURRENT POPULATION SURVEY, OCTOBER 1984 SCHOOL ENROLLMENT

TECHNICAL DOCUMENTATION

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NOTE

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



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census Washington, D.C. 20233

CURRENT POPULATION SURVEY, OCTOBER 1984 SCHOOL ENROLLMENT

USER NOTE NO. 1

During the period April 1984 through June 1985, the Bureau of the Census is systematically introducing a new sample design for the Current Population Survey (CPS) based on the results of the 1980 Decennial Census. During this phase—in period, CPS estimates are being made from two distinct sample designs; i.e., the old 1970 sample design and the new 1980 design. While most CPS estimates have been unaffected by this mixed sample, metropolitan/nonmetropolitan estimates and certain other CPS geographic estimates have been affected.

The causes of this increase in variability of geographic estimates are differences in coverage between the two designs and the different metropolitan definitions used in the selection process of each sample design. The old design used April 1, 1970 metropolitan definitions in its sample selection while the selection of the new design used anticipated June 30, 1983 metropolitan definitions. This situation is exacerbated by the fact that the mix of the designs (that is, the percent of each design in sample) changes during the phase-in period as more new design households are introduced. Even though the data from the new design have been recoded to reflect the 1970 metropolitan definitions, the net result of the different definitions in combination with differences in coverage between the two designs is an increase in the variability of estimates using geographic data during this period. Due to this, the Bureau recommends that users exercise extreme caution when analyzing any tabulations or comparisons using the below listed variables during this phase-in period. Also note that files containing data collected after the CPS microdata files are revised to reflect the redesign will be coded to reflect the June 30, 1984 metropolitan definitions, thus precluding comparisons of such data with geographic data collected during or before the phase-in period.

Variable	April 84-June 85 Non-Match Files Location	March 1985 Location
Farm/Wonfarm SMSA Rankings (44	Word 8, Chars. 1+4 Word 4, Chars. 3-4	Character H-56 Characters H-43-48
Individual SMSA's) SMSA STATUS Code	Word 26, Char. 1 Word 26, Char. 2	Character H-49 Character H-50
Central City Status Code SMSA Size	Word 26, Char. 4	Character H-51

See the May 1984 issue of the Bureau of Labor Statistics' issue of Employment and Earnings or call Donna Kostanich on (301) 763-2653 for further information regarding CPS sample redesign.

Redesign of the Sample for the Current Population Survey

*Kathleen P. Creighton and Robert Wilkinson

The Current Population Survey (CPS), sponsored by the Bureau of Labor Statistics and conducted by the Bureau of the Census, is a sample survey conducted monthly to obtain reliable estimates of labor force characteristics of the population of working age.

Since the inception of the CPS in 1940, the sample has been redesigned several times, most recently in the early 1970's, to upgrade the quality and reliability of the data and to meet changing data needs. Beginning in April 1984, the current design is being phased out through a series of changes that will be completed in July 1985. This article discusses the scope and nature of these changes and their impact upon the survey methodology and the estimates derived from the CPS.

There are three important reasons for redesigning the CPS at this time: (1) To make use of data from the 1980 census in order to update the sampling frame, as is done after every decennial census; (2) to take advantage of recent research findings to improve the efficiency and quality of the survey; and (3) to meet the increased need for State data. Improved estimation procedures will also be introduced as an adjunct to the redesign.

New design objectives

The CPS is a monthly probability sample based on a stratified sampling scheme. In the first stage of sampling, primary sampling units (PSU's) are selected. These PSU's correspond to substate areas, usually counties or groups of counties, and are grouped into clusters called strata. Within each stratum, a single PSU is chosen for the sample, with probability proportional to its population as of the most recent decennial census. This PSU represents the entire stratum from which it was selected. In the case of strata consisting of only one PSU, the PSU is chosen with certainty.

At the time it was put into place, the current (1970) design was intended to provide reliable national estimates of labor force characteristics. Strata were defined within four regions of the United States, with many strata crossing State boundaries. Beginning in the mid-1970's, more accurate estimates of State labor force

* Kathleen P. Creighton is a Supervisory Survey Statistician in the Demographic Surveys Division and Robert Wilkinson is a Mathematical Statistician in the Statistical Methods Division, Bureau of the Census. data were needed. Because the national design was unable to provide these estimates at the desired level of reliability for all States, additional sample areas were selected to achieve this goal. Although the resulting sample design was an efficient solution to a short-term problem, it was not the best design for producing both State and national estimates.

The redesign provides the first opportunity to increase efficiency for State data. The first step, as recommended by the National Commission on Employment and Unemployment Statistics, is to introduce a "State-based" design. All strata are defined within State boundaries, and the sample is allocated among the States to produce State and national estimates with the required reliability while keeping total sample size to a mininum. Improved reliability of State data will be achieved with about the same sample size as in the 1970 design. A byproduct of the increased reliability for State estimates will be gains in accuracy for data on persons of Hispanic origin as well.

Specific goals for the new design include:

- Maintaining the same reliability as the 1970 design on national monthly estimates of levels and changes for the labor force by major characteristics.
- 2. Reducing the coefficient of variation (CV) for annual State estimates of the total number of unemployed persons to 8 percent, at a 6-percent unemployment rate, and
- 3. Reducing the CV for monthly State estimates of the total number of unemployed persons in the 11 largest States (California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas) to 8 percent, assuming a 6-percent unemployment rate.

In addition to meeting the changing survey objectives, the new design uses the 1980 decennial census as the main sampling frame. This use of more recent information in forming and selecting the new PSU's improves the efficiency of the design.

'National Commission on Employment and Unemployment Statistics, Counting the Labor Force (Washington, D.C., U.S. Government Printing Office, Labor Day 1979). pp. 128-29.

The efficiency and quality of the new design will also be enhanced by incorporating the findings of research conducted since the 1970 design was implemented. For example, improved procedures were used in stratifying the sample.²

Finally, improved estimation procedures will be introduced into the CPS in January 1985. Although incidental to the redesign process, these changes will increase the reliability of estimates obtained when the new design is in place.

Phase-in of the new design

The phase-in of the new design will take place in two waves. The first will involve "continuing" areas, those selected in both the old and new design. The sampling frame in these areas is being updated beginning in April 1984 and continuing through July 1985. Ninety percent of the entire sample is in "continuing" areas.

The second wave involves changing the areas selected for sampling. From November 1984 through June 1985, some areas newly selected will gradually replace some selected in the old design but not in the new one. Sample households selected from address lists obtained from the 1980 census will replace households selected from the 1970 census lists and from permits for new residential construction issued since 1970.

The redesigned sample will contain 729 out of a total of 1,973 geographic areas in the United States. In the 1970 design, 629 areas were chosen to represent the 1,924 areas into which the country was divided. The areas used in the 1970 and 1980 designs are not completely comparable because many of the sample areas were redefined for 1980. This redefinition was carried out for a number of reasons. Primary among these was the shift from a sample designed to produce national estimates to one designed to produce both State and national estimates. In addition, some sampling areas were redefined to correspond to the new metropolitan area definitions, and others were redefined to improve efficiency in field operations, as explained later.

In both the 1970 and 1980 designs, the sample is divided into eight approximately equal rotation groups. The 1980 CPS design uses the same rotation pattern as the 1970 design, in which a rotation group is interviewed for 4 consecutive months, temporarily leaves the sample for 8 months, and then returns for 4 more consecutive months before retiring permanently from the CPS (after a total of eight interviews).

Continuing areas. From April 1984 through July 1985, the new CPS design will be phased in for continuing

areas one rotation group at a time. This consists of gradually replacing sample materials selected from the 1970 census-based frame with materials selected from the 1980 census-based frame. This gradual phase-in minimizes effects on the continuity of the CPS data series. In the replacement process, sample sizes within individual areas may change, but the total sample size for the survey will remain about the same. Each month from April through July 1984, an additional rotation group of the new sample will be phased in. By July 1984, half the sample in continuing areas will be obtained from the new design. Due to the rotation pattern, this proportion will not change between July 1984 and April 1985. Then, from April through July 1985, the old design sample will again be replaced by the new design sample at the rate of one rotation group per month. In July 1985, the phase-in of the new sample will be complete. This pattern is depicted in table 1.

New sample areas. In November 1984, the new sample areas will begin to replace the outgoing areas. The effects of this change are expected to be minor, because the sample in new and outgoing areas accounts for only about 10 percent of the national estimate. As shown in table 1, from November 1984 through February 1985, the new areas will be introduced at the rate of one rotation group per month. From March through June 1985, two rotation groups in the new areas will be phased in each month. One of these will replace a retiring rotation group from the old design, and the other will replace a rotation group from the old design that would otherwise have returned to the sample for its fifth interview. For this reason, the normal rotation pattern in these areas will not be preserved during this period. The replacement of outgoing areas with new areas will be completed

Table 1. Rotation group redesign scheme

Year		ng PSU's ercent)		ent PSU's ercent)	Overall percent of households
and month	New sample rotations	Old sample rotations	New sample rotations	Old sample rotations	on 1980 design
1984: Apr May June July Aug Sept Dot Nov Dec.	1 2 3 4 4 4 4 4	7 6 5 4 4 4 4 4	0 0 0 0 0 0 1 2	8 8 8 8 8 8 8 7 6	11.0 22.0 33.0 44.0 44.0 44.0 45.5 47.0
1985: Jan Feb Mar Apr May June July	4 4 5 6 7 8	4 4 3 2 1 0	3 4 5 6 7 8 8	5 4 3 2 1 0	48.5 50.0 51.0 64.0 77.5 89.0 100.0

² Some of the technical changes being made in the sample design and estimation procedures are described in detail by Gary M. Shapiro in "Planned Improvements in the Redesign of Census Bureau Demographic Surveys as the Result of Research," Proceedings of the Section on Survey Research Methods of the American Statistical Association, 1982, pp. 193-98.

in June 1985, one month before the phase-in of continuing areas is completed.

As the new areas are phased in, the weighting factors used in computing estimates must be updated to account for the change in areas included in the sample. These factors include the noninterview adjustment and the first-stage estimation procedure. (See the Explanatory Notes for descriptions of these procedures.) These updated factors will be introduced into the estimation process at the same rate as the new sample areas are introduced into the sample.

Effects of the changeover

Field operations. Because new areas will be phased into the sample and some old areas will be dropped, increased hiring and training of the interviewing staff, as well as some dismissals, will be required during this time period. To minimize the possible impact of an influx of inexperienced interviewers into the CPS program, training of interviewers for new areas will include a 3-month period during which they will be given assignments but their work will be excluded from the actual estimates. By the fourth month, they will have completed 3 months of trial interviewing, a 3-day classroom training session, and 4 months of home study. At this point, the data collected from the new interviewers' assignments will be included in the monthly estimates.

Efforts also will be made to maintain the experienced staff of interviewers who will be affected by the phase-out of certain sample areas, either by offering work in adjacent, continuing sample areas or by offering work on other programs. In any event, these interviewers will be notified in advance of the phase-out of their sample areas. Their work during this period will be closely monitored to avoid any adverse impact that their anticipation of termination may have on the data.

A consequence of the redesign is the introduction of new sample forms and control cards for use in the 1980 sample areas. Since the basic labor force questionnaire will remain unchanged, changes to these other forms will have no impact on the actual labor force data.

Continuity of data series. Two aspects of introducing the new CPS design have the potential of affecting published estimates. These are the temporary disruption of the rotation pattern from March through June 1985 for a comparatively small portion of the overall sample and the actual change in sample areas. In addition, the concurrent improvements in the estimation procedure and the use of updated definitions of metropolitan areas, both planned for January 1985, will have some effect on CPS data series.

Labor force estimates in the CPS are affected by changes in the rotation pattern because of a relationship between the number of times a rotation group has been interviewed and the expected value of the estimate obtained from the group. Normally, the eight rotation groups contributing to the published estimate are evenly distributed in terms of the number of times they have been in the sample, from one through eight. However, when the new areas are phased in at the rate of two rotation groups at a time, this even distribution by time in sample is lost. For example, in March 1985, two rotation groups will be in sample for the first time and none for the fifth time. Since published CPS estimates represent averages of the eight rotation group estimates, a change in the time-in-sample distribution from 1 month to another will cause a difference between the overall estimates for those months, even though the actual value of the characteristic being estimated may not have changed at all. Similarly, this effect might mask real differences between estimates. The Bureau of the Census and BLS have examined the potential effects of this disruption to the rotation pattern on major published estimates and expect them to be negligible.

In addition to the temporary phase-in effect discussed above, the new design may produce some small permanent differences, particularly in State estimates. These differences are the result of restratifying the sampling frame within each State for the 1980 design, selecting a different set of sample PSU's to represent each State, and adjusting the weighting factors to reflect this change. These differences may appear to be discontinuities in the CPS data series but are in fact manifestations of between-PSU variation. The most notable estimate likely to be affected by the change in sample areas is agricultural employment, but the effect is expected to be small.

The introduction of new sample areas also will cause a slight increase in the variance of year-to-year change estimates published in 1985 and 1986. This is because the overlapping sample between CPS estimates for the same month, 1 year apart, will decrease from the usual 50 percent to a mininum of 45 percent. The decrease in the sample overlap occurs in equal increments, beginning in March 1985. The minimum overlap of 45 percent occurs from June through October 1985, after which the overlay increases in equal increments to 50 percent in February 1986. For characteristics concentrated in areas represented by new and outgoing PSU's, this increase in the variation of year-to-year change estimates will be larger. The sample changes will have no effect on the variance of month-to-month change estimates.

As indicated earlier, improvements in the estimation procedures are being introduced, quite apart from the redesign itself, effective with data for January 1985. These improvements—involving the second-stage ratio adjustment and composite estimation procedures—are expected to increase the accuracy of the estimates. They may be noticed as slight differences in the published estimates at the time of introduction in January 1985.

Finally, changes in the definitions of metropolitan areas, discussed in detail below, will increase the CPS estimates of metropolitan populations at both the State and national levels and, correspondingly, decrease the nonmetropolitan area population.

Metropolitan areas. Most of the known impact on estimates during and after the sample redesign will be the result of changing from 1970 to 1980 geographic definitions. The sample based on the 1980 design will incorporate the geographic definitions from the 1980 census, while the sample based on the 1970 design will continue to incorporate 1970 census definitions. To minimize the impact on these estimates and to insure that the entire sample reflects consistent area definitions, the 1980 definitions will be converted to 1970 equivalent designations through December 1984. For example, if a 1980 sample area is inside a metropolitan area based on 1980 census data but outside a metropolitan area based on 1970 census data, it would be considerred nonmetropolitan until the change is made to the new geographic definitions in January 1985. At that time, the reverse of this geographic conversion will occur. The geographic information for the remaining sample selected from the 1970 sampling frame will be converted to reflect the new definitions.

The geographic conversions described above should have little or no impact on the national metropolitan-nonmetropolitan estimates through the third quarter of this year. Some variability in the data for the subsequent three quarters will occur as new sample areas are phased in and old areas are phased out.

Another feature associated with the introduction of updated geographic definitions into the CPS is the use of new terminology for metropolitan areas—Metropolitan Statistical Areas (MSA's), Consolidated Metropolitan Statistical Areas (CMSA's), and Primary Metropolitan Statistical Areas (PMSA's). These terms replace the 1970

terms, Standard Metropolitan Statistical Areas (SMSA's) and Standard Consolidated Statistical Areas (SCA's). An MSA stands alone and is not closely associated with other metropolitan areas. MSA's typically are surrounded by nonmetropolitan counties and have either a city or an urbanized area with a population of a least 50,000 and a total population of at least 100,000. If an area has a population of more than 1 million and meets certain other requirements, it is termed a CMSA. CMSA's consist of major components called PMSA's.'

In January 1985, 1980 census geographic definitions will be used for the entire sample, and the 1983 metropolitan-nonmetropolitan area designations based on 1980 census results will be introduced. This will affect the quarterly published estimates of the metropolitan population, since the number of metropolitan areas increased from 243 under 1970 definitions to 318 areas under 1983 definitions. After completion of the sample phase-in, estimates of the total metropolitan population will be approximately 20 million higher than at present because of the use of the new definitions for metropolitan areas. The impact on CPS data for specific metropolitan areas—which, except for New York and Los Angeles, are published on an annual average basis—will vary according to how each is affected by any 1983 redefinition.

Some geographic classifications, however, cannot be readily converted to 1970 (or 1980) equivalents. These include poverty and nonpoverty areas and urban and rural areas. Since 1974, quarterly and annual estimates for poverty and nonpoverty areas based on 1970 census definitions have been a regular feature of this publication; as indicated in table A-69 of the April 1984 issue, publication of these data is being suspended until the fourth quarter of 1985, at which time all data will be based on the new design.

³ A complete listing of 1983 MSA's, CMSA's and, PMSA's is available in the Office of Management and Budget Release 83-20.

ATTACHMENT 1

ABSTRACT

Current Population Survey, October 1984:
School Enrollment [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]
1986.

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:

Data are provided on labor force activity for the week prior to the survey. 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.

The file also contains information on school enrollment that includes the following items: current grade attending at a public or private school, whether attending college full— or part-time at a 2— or 4-year institution, year last attended a regular school, year graduated from high school, noncollegiate postsecondary enrollment, living arrangement for college students, and computer ownership and usage.

GEOGRAPHIC COVERAGE:

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

TECHNICAL DESCRIPTION:

FILE STRUCTURE: Rectangular.

FILE SIZE: 165,490 logical records; 690 character logical record length.

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

REFERENCE MATERIALS:

"Current Population Survey, October 1984: School Enrollment 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) (out of print). Describes in detail the sample design and survey procedures used as well as accuracy of estimates and sampling errors. Reference copies should be available from most public libraries or Federal Depository Libraries. It also is available on microfiche and microfiche paperprints from Customer Services, Data User Services Division (Microfiche), Bureau of the Census, Washington, D.C. 20233. [2 microfiche - \$5; 179 pages (paperprints) - \$33.] Make checks payable to Commerce-Census.

RELATED PRINTED REPORTS:

Bureau of the Census. <u>Current Population Reports</u>. "School Enrollment-Social and Economic Characteristics of Students: October 1984" (Advance Report). Available from the U.S. Government Printing Office, Washington, D.C. 20402. S/N 003-001-90803-4, \$1.

A separate report, "Computer Use in the United States, 1984", will be released in late 1986 in the P-23 series. Check the Monthly Product Announcement (MPA) or call Data User Services Division, Customer Services at (301) 763-4100 for ordering information.

Bureau of Labor Statistics. <u>Employment and Earnings</u>, November 1984. The employment information in Section A of this publication is derived from the Current Population Survey, October 1984. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price: \$3.75.

Bureau of Labor Statistics. <u>Employment and Earnings</u>, February 1985. "Changes in Estimation Procedure in the Current Population Survey Beginning in January 1985" on page 15. 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 Customer Services order form for tapes on the following page. The following technical options are available at a cost of \$140 per reel.

					<u>Reels</u>	Cost
9	track,	1600 bpi	(EBCDIC or	r ASCII)	3	\$420
9	track,	6250 bpi	(EBCDIC or	r ASCII)	1	\$140

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ATTACHMENT 2

OVERVIEW: SCHOOL ENROLLMENT SURVEY

I. General

The October 1984 Survey of School Enrollment was conducted as a supplement to that month's Current Population Survey (CPS), a monthly survey of approximately 58,000 interviewed households across the Nation. Interviews were conducted during the period of October 15-20. (Attachment 13 is a facsimile of the supplement document containing the school enrollment questions.) See "Overview - Current Population Survey" (Attachment 3) for a description of the CPS; the following describes the Survey of School Enrollment supplement.

II. Data Collection

Interviewers were provided with a 1 1/2 hour homestudy introducing the supplement. Interviewers also participated in a one—day group training session which covered the supplement, basic CPS, and other related topics.

A minimum of the first five questionnaires submitted by each interviewer were carefully reviewed by the office staff. Interviewers were informed immediately of any errors that were uncovered. The manual edit of the questionnaires was discontinued only after the interviewer demonstrated satisfactory knowledge of the supplement.

The school enrollment questions were asked of all children (items 55-58) and adults (items 29-33) 14 years old and over. Continuing education and previous year's enrollment were asked of all adults (items 38 and 39). Additionally, for those attending college or university, living arrangement questions were asked (items 34-37). Non-high school graduates, age 14-24, were asked year last attended high school (item 42) and high school graduates (age 14+) were asked year of graduation (item 43).

New this year were questions regarding direct or hand's—on use of computers with typewriter—like keyboards. Items 44 and 45 were asked once of the household respondent and transcribed for other adults. Computer usage items (items 46—54) were asked of all adults and items 59—62 were asked of children 3 to 13 years of age.

III. Data Processing

The data processing involved editing and weighting the October supplement data. Each process is described below.

A. Computer Edits of Basic School Enrollment and Computer Usage Items

The data processing involved a consistency edit of all basic school enrollment items (items 29-43 and 55-58) and allocation of missing entries in items 30, 31, 32, 33 and 39 through "hot deck" matrices based on selected characteristics. Computer usage items were edited to ensure consistency between item responses and missing values were assigned, for a few items, based on known entries. However, no further allocations were made for missing values in these items.

B. Weighting

In various months, differences in the sample, questionnaire, and data uses result in the need for additional procedures to produce a "supplement weight". For the October school enrollment supplement, the adult records are controlled to and agree with, in aggregate, published, composited (but not seasonally adjusted) October 1984 CPS labor force estimates (e.g., employed, unemployed, not in labor force, etc.). Children's records retain the "basic CPS weight" which reflects controlling to age, race, sex, and Hispanic independent estimates made to the children's records. The supplement weight should be used in preparing all estimates using data from the supplement items. In addition, the revised basic weight, which is provided to enable users to bridge basic CPS data for 1984 forward (due to changes in the population estimates and compositing formula, see sec. V.), has also been controlled to the composited labor force estimates to provide the user the additional ability to bridge supplemental data forward.

The values and universes for each variable are defined in the supplement record—layouts (Attachments 11 and 12).

IV. October 1984 Survey of School Enrollment Supplement Computer File

The October 1984 CPS/Survey of School Enrollment file consists of two parts: the CPS labor force data and the school enrollment and computer usage data for the persons described in part II above.

A. CPS Labor Force Data

The October 1984 CPS file contains 165,490 records. Basic CPS labor force data are contained in words 1 through 80, characters 1-6; and the supplement data are contained in words 81 through 90. (Words 91-115 are padding).

1) Interviewed 14+ Person's Records

Attachment 6 shows the locations and definitions of variables available in words 1 through 80, characters 1-6 for persons 14 years old or older who were interviewed in the October 1984 CPS.

Interviewed 14+ person records will have a code 1 record type in word 1, character 1.

2) Children's Records

Attachment 7 shows the locations and definitions of variables available in words 1 through 80, characters 1-6 for persons 0-13 years of age. Children's records will have a code 5 record type in word 1, character 1.

3) Type A Noninterview Records

Attachment 8 shows the locations and definitions for variables available in words 1 through 80, characters 1—6 for CPS Type A noninterview records. These records represent households which

were eligible for the October CPS interview but were not interviewed because no one was home, household members were temporarily absent, etc. Type A noninterview records will have a code 2 record type in word 1, character 1.

4) Type B/C Noninterview Records

Attachment 9 shows the locations and definitions for variables available for Type B/C noninterviews records. Type B/C noninterview records represent sample addresses which were determined to be ineligible for the CPS by virture of being vacant, demolished, nonresidential, etc. Type B/C noninterview records will have a code 3 record type in word 1, character 1.

5) Armed Forces Records

Attachment 10 shows the locations and definitions for variables available in words 1 through 80, characters 1-6 for persons 14 years or over in the Armed Forces whose household information was transcribed from the CPS Control Card. 14+ persons in the Armed Services will have a code 4 record type in word 1, character 1.

B. October 1984 Survey of School Enrollment Supplement Data

The October supplement data are contained in words 81 character 2 through word 94 character 6. Note, supplement data are available for adult and children's records. Supplement weights are only available for adult records. No supplement data are available for other record types.

IV. Records from the October 1984 CPS/Survey of School Enrollment Supplement File

A. Tallying CPS Labor Force Estimates

A user wishing to access only the basic CPS portion of the record (words 1-80) for the full CPS sample must first determine the record type as follows:

1)	Interviewed Adults	WORD 1, CHARACTER	1=1
2)	Type A Noninterview	WORD 1, CHARACTER	1=2
3)	Type B/C Noninterview	WORD 1, CHARACTER	1=3
4)	Armed Forces Records	WORD 1, CHARACTER	1=4
5)	Children Records	WORD 1, CHARACTER	1=5

As described in Section III.A. above, use the appropriate record layout depending on which records are selected. Use the CPS final weight in words 21 and 22, characters 1—6 when tallying CPS labor force estimates.

B. Tallying Supplemental Estimates

Refer to section III.B.

Changes In Estimation Procedure in the Current Population Survey Beginning in January 1985

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Beginning with data for January 1985, changes in the estimation procedure are being incorporated in the Current Population Survey, the monthly sample survey of households conducted for the BLS by the Bureau of the Census, from which a wealth of data on the labor force, employment, and unemployment is obtained. Included in these changes is the introduction of population controls for data on Hispanics which results in major revisions for this group. This article explains the reason for changing the procedure, describes the differences between the old and new procedures, and discusses the effect of the changes on the estimates and on their historical comparability. Further detail can be found under "Estimating Methods" in the Household Data section of the Explanatory Notes at the back of this publication.

Reason for change

The estimation procedure involves weighting the data collected for each person in the CPS sample to arrive at estimates for the total civilian population and its components. Changes in the procedure were called for by the implementation of a new sample design, scheduled for completion by July 1985, which will improve efficiency in collecting State data and make use of 1980, rather than 1970 census data as the main sampling frame. To increase the reliability of the estimates based on the new sample, nearly all phases of the estimation procedure have been changed. Most of the changes were incorporated in the January 1985 data; others will be introduced gradually.

Specific changes

Although there remain five basic steps in the estimation procedure (see table I); changes have been introduced in each step.

Basic weight. The basic weight is the number of population housing units represented by the sample and is the inverse of the probability of selection of a unit for the sample. Gradually, as the new sample design has been phased in, new probabilities of selection are replacing the old probabilities of selection. The new sample is, in general, a State self-weighting sample; i.e., the probability of selection is the same for each person in a

 Deborah A Fenstermaker is a mathematical statistician in the Statistical Methods Division of the Bureau of the Census. State. The probabilities of selection for the old design varied considerably more, attributable to the several expansions of the sample since 1976. Occasionally, however, the probability of selection for the new sample will still differ among sample areas in a State. This is the case in New York and California because of specific sub-State reliability requirements. In other States, differing probabilities of selection were chosen to ensure an acceptable interviewer workload, to reduce interviewing costs, and to improve estimates of the Hispanic population. In some instances, the probability of selection is adjusted to reflect subsampling of unusually large housing units or certain special universes.

Noninterview adjustment. The next step in the estimating procedure is to adjust the basic weight to account for eligible housing units for which an interview could not be completed—the "noninterview adjustment." This adjustment is performed within clusters which contain one or more sample areas. As of January 1985, a new noninterview adjustment procedure was implemented.

In the old procedure, clusters were primarily classified by Standard Metropolitan Statistical Area (SMSA) status. Clusters only contained sample areas within the same State, and each cluster was partitioned into 24 race/residence/month-in-sample cells. The new noninterview adjustment redefines the clusters and cells within clusters is addition to simplifying the collapsing procedure. The major change involves the formation of new clusters. The primary classifier used in defining clusters is Metropolitan Statistical Arca (MSA) status and size. In general, sample areas belonging to MSA's of the same (or similar) size are in the same cluster. Clusters are not necessarily comprised of sample areas from the same State. The number of cells within a cluster has been reduced from 24 to 2. Cells within MSA clusters are now "central city" and "balance of the MSA"; for non-MSA clusters, cells are "urban" and "rural." Month in sample and race have been dropped as classifiers. Previously, small cell sizes made it necessary to combine cells to insure that each cell had a sufficient number of sample cases. Modifying the cells within a cluster reduces the need for this collapsing.

First-stage ratio adjustment. A first-stage ratio adjustment is then applied to reduce the contribution to the variance that results from not including all geographic

A description of the scope and nature of the CPS redesign and phase-in appears in "Redesign of the Sample for the Current Population Survey," Employment and Earnings, May 1984, pp. 7-10.

areas in the sample. The old design used a two-step procedure at this first stage, consisting of a regional adjustment with six race-residence categories and a State adjustment with race categories of black and non-black. The new design uses only a one-step adjustment—at the State level (with race categories of black and non-black). Regional factors are not used since they tend to increase the variance on some State estimates and improve national estimates very little for the new design. Both the old and the new first-stage ratios are based on 1980 census data. These new first-stage factors are being phased in with the new areas which have entered the sample since November 1984.

Second-stage ratio adjustment. A second-stage ratio adjustment is made to further reduce variance on sample estimates by adjusting for CPS undercoverage of a number of age-sex-race groups of the population. The control totals for this procedure are independently derived census-based estimates of the population.

Both the adjustment procedure and the way the independent population controls are derived have changed. Previously, the second-stage procedure was performed in two steps. First, the sample estimates were
adjusted for each State and the District of Columbia to
an independent control for the population 16 years and
over by month in sample. The second step was an adjustment to nationwide independent population
estimates by month in sample within 32 age-sex groups
for black and non-black persons. The entire secondstage adjustment procedure was iterated six times to ensure that the sample estimates of population for both
State and national age-sex-race categories were virtually
equal to the independent population control totals.

Beginning in January 1985, an intermediate step has been introduced in the second-stage ratio adjustment process to improve estimates for the Hispanic population, and the last step has expanded controls for the non-black population. The first step remains as it was in the old procedure. Then an adjustment is performed at the national level by month in sample within eight agesex cells for Hispanic and non-Hispanic persons. The third step has also been changed (from the old second step) in that it is now a national adjustment by month in sample within the white, black, and other races categories. There are 32 age-sex groups for both white and black and six age-sex groups for the other races category. There will continue to be six iterations of the entire three-step, second-stage procedure. Use of these new or expanded population controls will stabilize estimates of the Hispanic and white populations.

Previously, the only post-censal figures for the size of the Hispanic population came from the CPs itself (i.e., the old procedure did not have a separate population control for Hispanics). These figures proved to be too low relative to the census and not stable over time. The new CPs procedure for Hispanics makes use of independent post-censal estimates of the Hispanic population as control totals to solve these problems.

The independent estimates of the Hispanic population were developed by updating the 1980 census count of persons of Hispanic origin by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths and emigrants. The estimation methodology attempts to integrate data on change in the Hispanic population from a number of data sources in order to overcome some deficiencies in the usual sources of vital statistics. Hispanic deaths are estimated using the Spanish-surname population and Spanish-surname deaths by age and sex from Texas and California, States with well over half of the Hispanic population in 1980. Data for immigrants by age and sex from Hispanic countries are obtained from the Immigration and Naturalization Service; data for refugees are obtained from the Office of Refugee Resettlement. A more detailed description of the data and methods used to produce post-censal estimates of the Hispanic population will appear in a forthcoming report by the Bureau of the Census in its Current Population Reports series (P-25).

The procedure for obtaining the independent total (age-sex-race) population controls used in the second-stage ratio estimation reflects the resumption of the use of the "inflation-deflation" method, described in the "Estimating Methods" section of the Explanatory Notes. This method was used prior to January 1982 but was temporarily discontinued when population controls based on the 1980 census were introduced. The inflation-deflation method preserves the actual pattern of population change over time in any age group through the following series of steps.

First, the most recent census count is inflated to include an estimate of the census undercount by age, sex, and race. This inflated population count is carried forward each month by accounting for births, deaths, and net migration. These post-censal estimates are then deflated to the census level to reflect the patterns of the net undercount of the most recent census by age, sex, and race. Because an estimate of the undercount is first added and then subtracted, the size of each race-sex group is unaffected by the inflation-deflation procedure. Similarly, the final estimate is affected only by the age structure of the undercount, not the level. This feature of the procedure is important, since the exact amount of undercount in the 1980 census remains unknown.

The composite estimator. As the final stage of the estimation process, a composite estimator is applied, primarily to improve estimates of monthly change by taking advantage of the 75 percent of the total sample that continues from the previous month. The old composite estimator was a weighted average of two estimators which took into account data from the current month and earlier months. These two estimators were: (1) A weighted estimator of levels, using all of the current month's data, and (2) an estimator con-

sisting of the previous month's composite estimator plus a difference estimator using the sample common to both months. Beginning with data for January 1985, a new composite estimator has been introduced. As before, both State and national estimates are formed using the same composite estimator. The new composite estimator is an extension of the old composite; i.e., a term has been added. The new term is an estimator of the net difference between the incoming and continuing parts of the current month's sample. The new estimator has the advantage of reducing annual average variances while having little or no effect on monthly and month-to-month change variances. It is also closer to the level obtained after the first- and second-stage adjustments.

Effect of new procedure on national estimates

To measure the effects of the new procedure on national estimates, annual average data for 1984 were prepared following the new procedure; these are compared with the estimates produced by the old method in table 2. The difference columns indicate some of the net effects. With a few exceptions, the most common effect was a very small increase in the estimates of unemployment and the unemployment rate.

Total national estimates of labor force characteristics are affected only slightly by these procedural changes. The total civilian noninstitutional population estimate was decreased for 1984, but by only 59,000. The total civilian employment level was essentially unchanged, while both the total level and rate of unemployment rose by a small amount (the total unemployment level and

rate increased by 60,000 and .05 percentage point, respectively.)

Although the new procedure had almost no effect on 1984 annual averages for the white civilian noninstitutional population estimate, it did raise the level considerably in January 1985 from the December 1984 level. White population estimates will be more stable in the future as a result of these changes. The black civilian noninstitutional population estimate was decreased by only 22,000 on an annual average basis, and other labor force estimates for blacks were virtually unchanged. The greatest impact of these changes is for estimates of Hispanics; this is a direct consequence of using Hispanic controls in the estimation procedure. The civilian noninstitutional population of persons of Hispanic origin increased by 1.3 million (about 13 percent) on the 1984 annual average. Levels of Hispanic employment and unemployment increased by 790,000 and 102,000, respectively.

The changes in the CPS discussed above will have an effect on the historical comparability of labor force data. CPS estimates beginning in 1985 can be expected to differ from those for earlier years by more than the amount that can be attributed to actual changes. For most characteristics, however, these differences in levels should be negligible; as indicated earlier, there were virtually no differences in total population and labor force aggregates when December 1984 estimates were calculated by the new procedure, and thus the December 1984-January 1985 changes were essentially unaffected by these adjustments. However, because of the extensive adjustments for Hispanics, these estimates are being revised back to January 1980 to the extent possible.

Table 1. Summary of old and new estimation procedures used in the Current Population Survey

Estimation step	Old procedure	New procedure
Basic weight	Unsupplemented States: One probability of selection used for every sample area. Supplemented States: Probabilities of selection vary by sample area. Probabilities of selection may differ slightly within sample area.	With some exceptions, most States are self-weighting i.e., one probability of selection for each sample area.
Noninterview adjustment	Adjustment applied within clusters of sample areas contained within the State by 24 race/residence/month-in-sample cells.	Adjustment applied within clusters of sample areas, not necessarily within the State, by 2 residence cells.
First-stage ratio adjustment	Two steps: a. Regional factors calculated for 6 race/residence cells. b. State factors calculated for black/non-black.	One step: a. Same as step b in old procedure.
Second-stage ratio adjustment	Two steps, both by month in sample: a. Factors calculated for total population 16 years and over by State. b. Factors calculated at national level for persons 16 years and over by black, non-black, and age-sex	Three steps, each by month in sample: a. Same as step a in old procedure. b. Factors calculated at national level for persons 16
	catagories.	years and over by Hispanic, non-Hispanic, and age- sex categories. C. Factors calculated at national level for persons 16 years and over by white, black, other, and age-sex categories.
Composite estimator	$Y_t = (1-K) X_t + K (Y_{t-1} + d_{t,t-1})$ K = .5	$Y_t = (1-K) X_t + K (Y_{t-1} + d_{t,t-1}) + A d_t$ A = .2, K = .4
	where: Y t is the composite estimator for month t.	
	X _t is the Horvitz-Thompson estimator for month current month's data).	t (i.e., a weighted estimator of levels using all of the
	Y ₁₋₁ is the composite estimator for month t-1. d _{1,1-1} is an estimator of the difference between level	
		s for month t and month t-1 based on the sample com-
	dt is an estimator of the net difference between of the current month's sample.	veen levels for the incoming and continuing parts

Table 2. Population and labor force estimates by sex, age, race, and Hispanic origin, using old and new estimation procedure, 1984 annual averages

(Numbers in thousands)

	<u> </u>	Total			White		1	Black			Hispanic or	gin
Category	Old pro- cedure	Cedure Pro- New	Differ- ence'	cednte bto- Ord	New pro- cedure	Difter- ence	cednie bio- Oig	New pro- cedure	Differ- ence'	Old pro- cedure	Dem Dro-	Differ- ence
Civilian noninstitutional population												
Total, 16 years and over	176,383	176.324	-59	152,347	152,362	15	19,348	19,326	-22	9,881	11,164	1,283
and over	83,606 7,386	83,554 7,411	-52 25	72,723 6,113	72,723 6,113	0	8,654 . 1,056		-22 21	4,659 552	5,471 617	812 65
20 years and over Women, 16 years	78,219	76,144	-75	66,610	68,611	1	7,599		-43	4,107	4,854	747
and over	92,777 7,348	92,770 7,392	-7 44	79,624 6,034	79,637 6,060	13 26	10,693 1,106	10,694 1,125	1 19	5,221 565	5,692 617	471 52
Over Civilian	85,429	85,377	-52	73,590	73,578	-12	9,569	9,569	-20	4,656	5,075	419
employment Total, 16 years and				1								
Men, 16 years and over	105,005	104,999	-6	92,120	92,170	50	10,119	10,104	-15	5,679	6,469	790
16 to 19 years . 20 years and	3,322	3,350	-73 28	52,462 3,001	52,440 3,018	-22 17	5,123 252	5,098 262	-25 10	3,359 217	3.950 242	591 25
Women, 16 years and over	55,769	55,668	-101	49,461	49,422	-39	4,871	4,836	-35	3,142	3,708	566
16 to 19 years . 20 years and	45,915 3,122	45,981 3,146	66 24	39,659 2,835	39,730 2,854	71 19	4,995 222	5,006 227	11 5	2,320 185	2,519 202	199 17
Over Unemployment	42,793	42,835	42	36,823	36,876	53	4,773	4,779	6	2,135	2,317	182
otal, 16 years and over	8,539	8,599	60	6,372	6,431	59	1,914	1,920	6	676	778	102
and over	4,744 812	4,75 6 826	12 14	3,600 608	3,629 617	29 9	1,003 188	987 193	-16 5	390 70	464 82	74 12
Women, 16 years	3,932	3,931	-1	2,992	3,013	21	815	. 795	-20	320	382	62
and over	3,794 687	3,843 703	49 16	2,772 508	2,801 517	29 9	911 165	933 172	22 7	286 54	314 60	28 6
over Unemployment	3,107	3,139	32	2,264	2,285	21	747	761	14	232	254	22
rate otal, 16 years and					,							
Men, 16 years	7.52	7.57	.05	6.47	6.52	.05	15.91	15.97	.06	10.64	10.74	.10
and over	7.43 19.64	7.46 19.78	.14	6 42 16.85	6.47 16.97	.05	16.37 42.73	16.22 42.42	15 31	10.40 24.39	10.51 25.31	.11 .92
over Women, 16 years and over	6.59	6.60	.01	5.70	5.75	.04	14.33	• 14.12	22	9.24	9.34	.10
16 to 19 years . 20 years and	7.63 18.04	7.71	.08	6.53 15.20	6.59 15.34	.05 .14	15.42 42.64	15.71 43.11	.28 .47	10.97 22.59	11.08 22.90	.11 .31
over	6.77	6:83	.06	5.79	5.83	.04	13.53	13.74	.20	9.80	9.88	.08
labor force tal, 16 years and		.	\								.	
den, 16 years and over	62,839	62,726	-113	53,855	53,761	-94	7,315	7,302	-13	3,526	3,917	391
16 to 19 years .	19,771 3,252	19,780 3,235	-17	16,661 - 2,504	16,654 2,478	-7 -26	2,528 616	2,547 622	19 6	910 265	1,057	147 28
over	16,518 43,068	16,545	27	14,157	14,176	19	1,913	1,925	12	645	764	119
16 to 19 years . 20 years and	3,539	42,946 3,543	-122 4	37,193 2,691	37,106 2,689	-87 -2	4,787 719	4,755 726	-32 7	2,615 326	2,859 355	244 29
over	39,529	39,403	-126	34,503	34,417	-86	4,069	4,029	-40	2,289	2,504	215

¹ Differences are estimates based on the new procedure minus those based on the the old procedure calculated using unrounded values.

NOTE: Detail for the above race and Hispanic-origin groups will not add to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

ATTACHMENT 3

OVERVIEW--CURRENT POPULATION SURVEY

Introduction

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 <u>Current Population Reports</u>, 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, \$71.00 per year; Population Estimates and Projections, (P-25), \$25.00 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 <u>Bureau of the Census Catalog</u>, the <u>Monthly Product Announcement (MPA)</u>, and in the 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, Midwest, South, and West), and second, for each of the 46 States which contains 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. The regional adjustment is performed by metropolitan-nonmetropolitan 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 civilian 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. second-stage adjustment procedure incorporates changes instituted in January 1982. The nature of these changes is discussed in detail in "Revisions in the 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 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 Defense reports. Data on

births and deaths between April 1, 1980 and the estimate data 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 Board. 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. 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. 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	
	Jar	nuary 1982 Dat	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	
	Jul	ly 1982 Data (000'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.

GLOSSARY

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.

- 1. Employed. Employed persons comprise (1) all civilians who, during 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. Job Leavers. Persons who quit or otherwise terminate their employment voluntarily and immediately begin looking for work.
 - b. Job Losers. 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 # 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.

Part-Time Work. 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.

Self-Employed. 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 South American, or other Spanish.

<u>Unable</u> to <u>Work</u>. 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

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, Midwest (formerly North Central), $\frac{1}{2}$ West, and South. States and divisions within regions are presented below.

NORTHEAST REGION

New England Division

Middle Atlantic Division

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

New Jersey New York Pennsylvania

MIDWEST REGION

East North Central Division

West North Central Division

Illinois Indiana Michigan Ohio Wisconsin Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

WEST REGION

Mountain Division

Pacific Division

Arizona Colorado Idaho Montana Nevada Utah Wyoming Alaska California Hawaii Oregon Washington

^{1/} The Midwest Region was designated as the North Central Region until June 1984.

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

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 <u>no interviews</u> 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 <u>code of "2" or "3" in word 1, character 1</u> 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.

Calculating Location of Data Within a Word. In the record layout, location of data is indicated by character position within a word. Each work 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 6, 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 positions 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 this item occupies character positions 53 and 54.

SUM EX
PUPULATION
CURRENT

ADULT INTERVIEW RECORD LAYOUT
FOR STANDARU TAPE COPIES
(Beginning January 1984)

Attachment

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MST: Master Segment Tape; supplies all geographic identifiers for CPS data.

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	Description	Dlank or Impossible Yes No	Mank or Impossible 194 hours 1-34 hours 35-48 hours	Dlunk or Impossible Yes No	Blank or Impossible Yes No	Diank of Impossible Unit is in continuing rotation Unit is in departing	rocactor
			2				
	Universe	ALT	VI	117	11 1	ÁÌÀ.	•
•	1.1 c	iddo any work r WEEK?	INFERVIENER CHFCF.	tem 21 - Didhave a job or business from which he was temporarily absent or on layoff LAST WEEK?	for work during the past h weeks?	interviener check	
	Characteristi	1tem 20 - Dic at all 1AST	1tem 2011 - 1	11cm 21 - Dic business fro temporarily 1ayoff 1ASF	for work delay	item 24 - IN	Dlank
	Char.	1	20	n	3	w ,	•
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Attachment A

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1	1	e de la companie de mangar e desper e la companie de la companie d					Personal angularies or a construction of the second		-
	Description	2,3	flat 01. nsient hotel, 02	motel, in trans. motel, etc. coming house bome or Trailer specified above of	ot MV in rooming or 07 up house:: 07 upermanent in trans. 08 motel, etc. 08 trailer site 09 trailer site 10	2,3		the second of the second secon	
	Descr	Nonfarm Farm	o, apt., n nontra	ill, permanent, in tran hotel, motel, etc. III in rooming house Hobile home or Trailer III not specified above Other Unit.	Qtrs. not MV in rooming or boarding house: Unit not permanent in tran hotel; motel; etc. Tent or trailer sits Other hot MV	Nonfatm Farm		en mentember klades han brap dich von bie	
	Universe	A11	<u> </u>			,	-more-	entre and the second of the se	A section of the second of the
	Character 1stic	Land Usage (Recode) (Edited using Urban/Rural Code from M.S.T. and CPS-1 Document Items 5a. and 2b-new in Feb. 76) Recode reflects "old" Farm Definition. (Effective April 1984: Reflects	TVIHO			*New' Farm Derinttion (Recode) Effective February 1976. (Edited using Urban/Maral Code from M.S.T. and CPS-1 bocument Items 5a. and 5b.)		And the same of th	
	Char.		2-3		•				
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E (Attaclment A	() - () -	lh vern	Ingo 12 Description	
- 1	Char.	Unincteritude	AND THE STATE OF T		
	· -		••		
	 ••	item 9 - Housench number	ALA	4-1	Ę
		item 19 (Recode) - Waltware, doing most of 1AST with (Wolor Activity)?	v	Morking Mith a Job Looking House School Unitin Other (Incl., Retired) 7	
	2-3	Item 20A - How many hours didwork LAST WHE at	rsn 1	Number of Hours	66-10
		item 20G - Does, USUALIT work 35 hours or more a week at this job?	ESH 1 & Item 20A less than 35 hours	No S. 1.	
		Item 200 - Renoon lens than 35 hours & week (Rocoded)	ESH 1 & Item 20A lens then 35 hours	Sinck work Directol shortogo Finnt or machine requir Her Job blarted during week Joh termlinded during week Could find only jort—timo work Holiday (Legal or Heligious) of Indoor diapato On vacather On vacather On vacation Too huny with house, school, etc. Did not want full—timo work Pull—time work week under 35 hours Other reason	92028 822551 ZZ ZZ
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Char.	Churneterial.le	Universe	Description
-	ILem 21A - Mry wasabsent from work IAST WEFK?	ESR 2	Om Mocallon Ind weather Infor dispute
		esn J	Hew job to begin within 30 days Temporary Inyoff (under 30 days) Indefinite Inyoff (30 days or nor no definite
			recall date)
TV .	Item 2111 - Ingelling wages or neinry for any of the time off IAST WEEK?	ESR 2	res No Self employed
17	11cm 21G - Doesvatually work 35 hours or more a week of this Job?	ESTR 2	Tes No
	Hem 22A - What hasbeen doing in the last & weeks to find work?		
	Hothods used - through word 11:4. Checked with public employment oceney.	id. Hultiple entries are possible. FSR 3 Fall Falry	e possibie. Dienk Entry
*	Checked with private employment agency.	l est 3	Dibnk Entry

Page 13

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	NJ P	G: .	U F	:-	.	. 10	100 -	•	Char.	Attachment A
	looking for work) Item 220 - Hasbeen looking for Tuil-time or part-time work?	Item 220 - Hecks unemployed (New Job startling in 30 days)	then 22B - My dldstort looking for work?	Other	Hothing	Placed or inswered ails.	Checked with triends or relatives.	Item 22A - Methoda (Con't) Checked with employer directly.	Characteristic	
-more-	esn)	esh 3	Except inyoff in Item 21A. coden 6 & 7	rsn j	esh 4-7	ESR J	ESII 3	ह्या ३	UNIVERSE	
	Full Part	Number of Weeks	Lost job Quit job Left school Wanted temporory work Other	Illonk Fastr y	Hank Fatey	Illank Patry	Illank Bater	Dlank Potry	01,000 3	leact lation
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Poge 15	Description	Yeo No	Alroady had a job Temporary Almess	Coing to achool	In Last 5 years Baforo Last 5 years Wover worked full-time 2 Neeks or more	Within past 12 months 1 up to 2 years ago 2 up to 3 years ago 3 up to 4 years ago: 4 up to 5 years ago 5 or nore years ago Nover worked
	Universe	S NEST	ESR 3 & Yes in Digit 1	ESH 17	ESR 3 Re-entrants to labor Force New entrants to labor Force	ESR 4-7 and Bonth in Sample is 4 or 8 (Departing rotations)
inger der Howels	Characteristic	Item 226 - Digit 1 - Is there ony renson whycould not take a job LAST WEBX?	Item 22E - Digit 2 - Is there any reason whycould not take a job 1AST WEEK?		item 22F - When didinst. work of a full-time job br business lasting 2 consecutive weeks or more? (Recoded)	Item 24A - When did., Jast work for jay at a regular job or business, either full- or part-time?
ح	lint.			:		
Attachmen	Hord C	12				

	Page 16	#	achool re ted eass east							
		Description	Fersonal, family or school Health Relicement or old age Seasonal job completed Sjack work or business conditions Temporary nonseasonal job completed Unsatisfactory work arrangements	Yes Blo Bon't Know			Dienk Bitry	Blank Entry	Mank Fatry	Mark Entry
		Universe	ESH 4-7 and 1-5 in Item 24A	ESR h-7 and Month in Sample is for 8 (Departing rotations)	er i	Reserves through 15:1. Hultiple entries possible.	item 24c	1 tren 240 In 1 or 2	11cm 2/0 1s 1 or 2	11.cm 2hC 13 1 or 2
			Jeavo	want a full-	ire the Jookling for	15:1. muttple	avolintie or area	y work	actionity.	too roung or
			then 2/10 - My didleave tint Job?	item 246 - Doenwant a regular job now, other full-or part-time?	item 24D - Wort are the reasons is not looking for work?	Reasons Unrough	Belleves no work available	Couldn't flint any work	Locks incessory ochooling, training, skills or experience	Employers Unink too Joing or too old
•		ment A	Clar	₩			· • • • • • • • • • • • • • • • • • • •	==	**	
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Universe		1tem 246 1s 1 or 2	Item 240	Iten 24C is 1 or 2	iten 24.6 In 1 or 2	Iten 21,0 to 1 or 2	11cm 21c	1 ten 2/c	ESR 4-7 and Month in Sample 1s 4 or 8 (Deporting rotations).	-0.10M-
Charneteristic	11cm 2/10 - Rensons (Cot't)	Other personal handless in Finting Job	Can't arrange child care	Fainlly responsibilities	In school or other training	111 health, physical	Other	Imit Know	Item 2/E - DoesIntend to Jook for work of any kind in the next 12 months?	
Char.			**************************************	Ð	-	40	•	-pak	· ·N	
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ingo 10:	d 3 3 4 nor Horar worked 5				5	# # # # # # # # # # # # # # # # # # #
logor lo	Fritnto Government. Soff employed Mithout por Merer worked or fi					Head with other relatives (incl. wife) in hourehold Head with no other relatives
Universe	ESR 1 or 2 ESR 1-7, ESR 1-7, Sample 18 A or 0 & 11em 24A	د. آ-	•		ar vidosnina	
10			\$1		NUMBER	UMBER A
Characteriatic	ttem 236 - Ginen of vorker (Filted and Recoded).	DLANK	eet Ma	BLANK	79 v - CINE	19a - Line 10b - Relat
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Description		Married, civilian spouse present Married. Armed Force spouse	present Married, spouse absent (incl. separated) Widowed or divorced Never Married	White Black Other	Male Female	Vietnam Era Korcan War World War II :	World War I Other Service Nouveteran
Universe	V11	А11		, M1	A11	Males	
Characteristic	Item 18D - AGE	Item 18E - MARITAL STATUS (Recode)		Item 18J - RACE (Recode)	Item 18g - SEK	Item 18G - VETERAN STATUS	
Char.	1-2	· .		• / • / • ·	πυ	9	
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10	Item 181 - GHADE COMPLETED	A11	790 490 701
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Ģ	Item 26-Interview Check Item: This person is	A11	16–24 Years of Age All Others
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	-	Esit - Employment Status Recode (Lest Work)	, AJJ.	Employed	Horking Hith Jobs not not work 2	
			.	Unsmployed	Looking 3	
	• .		· · · · ·	Not In Invor Force	flourit 4 School 5 School 6 6	•
	Q	Item 26BIsenrolled in Item 26A1=1 school as a full-time or part time student?	Item 26A1=1		Cothor (Included Notified) (Full-time 2	
	n	ntor for principal n of boundhold	/I rw		No Tob	
	9-4	Browmont Court (MUhln Vork Unit)	А1		(4.6-1ph	E.
	t-1	Work Walt Humber (From Broaker Shool)	· VI)		16 throught and phinology 911.	911 Analymi
	4-5	tionth	A11		01-12	2
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21 & 22	TTV	Flunt Wolghb	, T.CV		Two Uniorateod Bookmat Finces. (Alght Justified, space fill -01)	
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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.

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Page 23					664-000 644-000	•	3		∺ ∾′	7-3	 ~	Dlank			
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	Characteriatic	PADUTHG		Padding	Blank	PADDING	Blank	SHSA Status Code	Gentral City Status Code	81 ank	SMSA Stze (From M.S.T	reflecting 1970 Gensus Population)	ota, il po	基 基件	Approximate the second of the
nt.	Char. Ch	1-6 PA	LOTOLOGIC MARIE	1-3 PA			H-6	1	2	n 0	· ·	- 			
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e e	Giorocteristic	Naco-Sex Recode		Agri. Wage and Salory	Intor Force status	Full time or Pm		Experienced Labor Employment Status	Household relationship	. :.				
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Attachment A	**************************************	Universe	Description
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9	CIVILIAN LAUOI FOLCE		In Universe
	Unemployed	ALI	Not in Universe
8	Unemployed 15 weeks,	VIV.	Hot in Universe 0 In Universe 1
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-	Full Time Labor Force	A11	Not in Universe In Universe
N.	tooking for full time	Įtv.	Not in Universe In Universe
<u>۔</u> ق	Wage and salary worker	11V	not in Universe
	Employed persons	ATI	Not in Universe In Universe
(FX)	Employed persons (Excluding form worker & Private Hihld	, 11V	Not in Universe In Universe
. ~	Experienced Indor Force	VII	Not in Universe In Universe
	Full time experienced labor	γп	Not in Universe in Universe
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Description	11.11	Employed Pull Line Hork Looking for Full Time Hork			•							1 action)		Lens Unn 25 years								
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*		Marital status by activity Age 18	₹	Activity Single KSP KSA MID/Di School 10 21 32 43 Other 11 22 33 44 Not 16-21 years old - 00

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. 63	. 63 2-4	Item 23B	Item 238 - INDUSTRY (1980 Edited)	Same as 123E (Exc. Hever Horkad)	3-digit Industry Coda	010-991
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. 64	164 2-6	PADDING				

data. Individuals interested in family data or replicating BLS's family data should use the characteristics character 4 through word 18 character, 3), but are not necessarily identical. The choice of which data set to use depends on the user's needs. Those desiring comparability with most of BLS's published data or attempting to duplicate the Phase II population controls should use the basic CPS edit characteristics since these characteristics are used in the basic CPS weighting. The new family edit does change These demographic sex for some individuals; hence, some population cells may not equal the controls tailled using the new characteristics are usually consistent with those produced by the basic CPS edit (found in word 16 The data appearing in words 65 through 80 are the result of the new demographic edit. produced by the new demographic edit.

PAGE 56	UNIVERSE DESCRIPTION	All Line Number 01-39	PERSON All Reference Person with other	Reference Person with no other relatives in household	Hosband Wite Own Child	Brother/Sister 7 Other relative of reference	Hon-relative of reference person - with our relatives	Non-relative of reference person - no own relatives in household	All Hone			 Divorced 5 Separated 6 Never married 7	Ali Hone Spouse's line number 01-39	
(Interview Adults)	CHARACTERISTIC	Item 18A - LIME NUMBER	Item 188 - RELATIONSHIP TO REFERENCE PERSON						tem 18C - PARENT'S LINE RUBER	ADD 1110 Tem 180 - AGE	Tem 18E - HARITAL STATUS	e get ∀	Tem 18F - SPOUSE'S LINE NUMBER	
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es,	FAHILY TYPE		ALL	Subtemily Rember Primary Englyidual Related Subtemily	02-39 3
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69 1-4	PADDING			Spousa Child Other Relative(Primary Family only)	inme
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			Stift-Employed Hith Mane and Salary Workers Husband, Wife or Reference Person Hot Self-Employed Other Houselold Hember Self-Employed With Hade and Salary Workers Only	oyed 5
a J	USUAL FULL-THEZPART-THE STATUS OF PRIHARY FAHILY EARHERS	V	Not in Primary Family No Earners All Earners Full Time Some Full Time, Some Part Time All Earners Part Time	DHNMS
en .	LADDR FORCE AND EARLIER STATUS (HALE) OF HUSDAND OF PRINARY FANILY OR HALE HOUSEHOLDER	#	Hot in Primary Family/No Hale Employed Earner Self Employed Hithout Pay Unemployed Not in Labor Force Armed forces	o mu ma mo
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ın	MARBER OF EARHERS IN PRIMARY FAVILY	YIT YES	Not in Primary Family No Earners 1-0 Earners 9+ Earners	00-10 00-10

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• u	MARBER OF OUR CHILOREN LESS THAN 18 IN PRIMARY FAMILY	1	Not in Primary Family No Children 2 Children 3 Children 4 Children 5 Children 6 Children 6 Children 7 Children 6 Children 7 Children	ひょまなん ちゅ とのぐ
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TTACHHENT A	(Interview Adults)	.*		PAGE 62
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74 5-6	РАВДИЯ			
75 1-6 76 1-6	FANTLY HEIGHT	Ϋ́ΙΓ	The Implied Decimal Pinces, Right Justified Space Filled (01)	
77 1-2	HQUSEIIOLD SIZE	Att	Number of Persons in Household	01-39
9-10 5-16	HANDER OF FAMILIES IN MOUSEMOLD	ALL	Number of families	61-00
78 1-6 79 1-6	FUILY EARNINGS HEIGHT	1115=4, 0	Two Implied Decimal Places, Right Jusiffed, Space Filled (01)	
80 1-2	PADDING		•	
80 3-6	TOTAL HEEKLY FAHILY EARHINGS	#18=4,8	Hot in Primary Fomily Usual Heekly Family Earnings	Blank B000-9999
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-End of Basic CPS Record-

CURRENT POPULATION SURVEY

CHILDREN'S INTERVIEW RECORD LAYOUT (BEGINNING JANUARY 1984) FOR STANDARD TAPE COPIES

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	9-1	fiousehold ID Number		•		
	1-3					
		Region (From M.S.T.)	1 8	Northeast North Central South	2 2 3 3 3 3	

Note: 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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73	٠.	KANBER OF UNEHPLOYED IN PRIMARY FANTLY	IN PRIHARY FAHILY	ALL	Hot in Primary Family Ho Unemployed 1-8 Unemployed 9+ Unemployed	0-1-6
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ÁTTACIIME	ENT E	(Interview Children)			PAGE 21
MORO CL	HÁR.	WORD CHAR. CHARACTERISTIC	UNIVERSE	DESCRIPTION	VALUES
74 5-6		PADDING			
75 1.	• •	PANILY WEIGHT	ALL	Two Implied Decimal Places, Right Justified , Space Filled (01)	
76 1-6	• •	HOUSEHOLD SIZE	Aut	Number of Persons in Household	01-39
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NONINTERVIEW TYPE A RECORD LAYOUT CURRENT POPULATION SURVEY

FOR STANDARD TAPE COPIES (BEGINNING JANUARY 1984)

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Characteristic	Item 4 - TYPE OF LIVING QUARTERS (Recode) (Con't)	"New" Farm Definition (Recode) Effective February 1976. (Edited using Urban/ Rural Code from M.S.T. and CPS-1 Document Items 5a. and 5b.)	-	Item 9 - HOUSEHOLD NUMBER (Unedited) 4	PADDING	Household Indicator	Document Count (Within Work Unit)	Work Unit Number (From Breaker Sheet)	
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Attachment D

CURRENT POPULATION SURVEY HOMINTERVIEW TYPE B-C RECORD LAYOUT

FOR STANDARD TAPE COPIES

(Beginning January 1984)

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	1.			Mountain Pacific	B) Region 4

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CURRENT POFULATION SURVEY

ARMED FORCE'S INTERVIEW RECORD LAYOUT (BEGINNING JANUARY 1984)

FON STANDAND TAPE COPIES

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		Record type	11V	Interview	ħ
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-		Region (From M.S.T.)	IIV	Northeast North Central South West	-~6

Edited household items & recodes and Geographic Identifiers & recodes are transferred from the Principal Person's record to all children in the Household. Note:

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in the second se							
	•	664-199	001 or A01-99 9 <u>XX</u> Assigned 01-12	6-0	fill -01)	•	· · · •
Pogo 12	Description		If Droaker was missing		Two Understood Decimal Places. (Right justified, space fill -01		
	Universe						- mot'⊕ -
•	Undv	VII	AII	A11	VIT		. *
	Character10(1cd	PADDING Bocument Count (Within Work Unit)	Work Unit Number (From Dreaker Sheet)	rear - Last Digit	rinal Wolght PADDING		
	Character Cha		1-3	9	A11 F1		
	p.ro.	6	o		- 40 E		

Word Char.		Characteristic	Universe	Description	
24, 1-	1-6	PAUDING	• • 44.21		
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9-11	9	Dlank	, , , , , ,		i
1		SMSA Status Code	νττ	SKSA Non SMSA Not Identifiable	
70		Central City Status Code	А11	Control City Balance of SMSA	-00
		Dank	. •	not Identifiable	\ -
4	_	SHSA Size (From M.S.T	νįν	3 ml11font	п с
		reflecting 1970 Census Population)		Not Identifiable	Blank
			V ŠĄS		
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Word Char.		Characteristic	Vrd verse	Description		
3 2 () () ()	115	Item 181 - ETHNICITY (Recode)	πγ	Hextcan American Glitcano Nextcan (Mextcano) Pucrto Rican		
				Guban Gentral or South American Other Spanish All other	. ope	
		idirija e		Do Not Know	0<	
9	IV.	PADDING			\$	
27 1-2		PADDÍNG	7 4	•-		
27 3	. BE.	BLANK	i w is			
- L	- IN	PADDING		•		
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9 49					·	
			. · · · · ·			
		t agente	-more-			

ATTACHINENTD	ATTACHMENT D (AT MED TOT CES)			700
WORD CHAR.	CHARACTERISTIC	UNIVERSE	DESCRIPTION	VALUES
65 1-8	Item 164 - LINE MUNDER	A11	Line Number	01-39
m	I tem 168 - RELATIONSHIP TO REFERENCE PERSON	25CM Å11	Reference Person with other relatives in household Reference Person with no other relatives in household	ଳ ଅଟ
		٠.	Hife Om child Parent Brother/Sister	, o d NO P
			Other relative of reference Non-relative of reference person - with own relatives	. sp. t
			Non-relative of reference berson - no own relatives in household	
a	Item 10C - PARENT'S LINE AUTOER	A11	None Parent's line number	00
6 6 1-2	PADDING Item 100 - AGE	γι	Ace in Years	14-99
10	Item 10E - MARITAL STATUS	IV	Harried-civilian spouse present Harried-Armed forces spouse present Harried-spouse absent (Exclude separated) Midowed Divorced Separated Never married	MN MCMOP
- 4	Item 18F - SPOUSE'S LINE MANBER	A11	Hone Spouse's line number	00 01-39
•	Item 186 - SEX	A11	Hale Female	 80

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MORD CITAR	MORD CHAR, CHARACTERISTIC		UNIVERSE	DESCRIPTION	VALUES
1 19	РАОПИС				
#P.	ATTENDED ATTENDED	Seriou1)	,	Torong TE TE TE TO TO TE TE TE TO TO TE TE TE TO TE	
•	item 161 - GRADE CONPLETED		À11	Yes No	- 2
ın.	Item 103 - RACE		A11	Milte Binck Other	
9	PADDING			•	
₽	FAHILY NAMBER		ALL	tiot a Family tember Primary Family Hember Subfamily Hember	00 01 02-39
. M h	AHLLY TYPE		AĹĹ	Primary Family Primary Individual Related Subiamily Unrelated Subiamily Secondary Individual	HNMEN
•	FAMILY RELATIONSHIP		ALL	Not a Family Hember Reference Person Spousa Child Child	om nm

TACHNENTD	ATTACHHEHTD (Armed Forces)			PAGE 17
MORD CHAR.	CHARACTERISTIC	UNIVERSE	DESCRIPTION	VALUES
		 		· 6
	u tra			
	· · · · · · · · · · · · · · · · · · ·	•		
69 1-4	ADDING			
- 86	LINE NUMBER ALLOCATION FLAG	ALL	No Change	
			Blank to Value Old Value to Hew Value	~ 8
•	RELATIONSHIP TO REFERENCE PERSON ALLOCATION FLAG ALL	ALLOCATION FLAG ALL	No Chande Blank to Value Old Value to New Value	D ≠N
10 1	TARENT'S LINE MANDER ALLOCATION FLAG	ואפ און	No Change Value Allocated	9 N
a)	NGE ALLOCATION FLAG	ALL	No Chance Blank to Value Old Value to New Value	0 = 0
16	HARITAL STATUS ALLCCATION FLAG	VIT VIT	No Chande Blank to Value Old Value to New Value	, o-n
*	SPOUSE'S LINE MUMBER ALLOCATION FLAG	ראפ אור	No Change Value Allocated	6 N
. En	SEX ALLOCATION FLAG	ALL.	No Change Blank to Value Old Value to Hew Value	\$ =0
- Φ	PADOTHE			
11 1	IIGHEST GRADE ATTENDED ALLOCATION FLAG	I FLAG ALL	No Change Blank to Value Old Value to New Value	6 = 8
a	SRADE COMPLETED ALLOCATION FLAG	אוו	No Change Dlank to Velue Old Value to New Value	> ≓N
90	RACE ALLOCATION FLAG	אוו	No Change Black to Velue Old Value to New Value	5 mN
•	DRIGIN ALLOCATION FLAG	Y YELL	No Change Blank to Value Old Value to Hew Value	* > ~ N
thru 72	YADDIHG	18 T.		

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ATTAC	IMENT L	ATTACHHENT DIALMED Forces!				PAGE 18
MORD	CHAR.	CHARACTERISTIC		UNIVERSE	DESCRIPTION	VALUES
72	- ₹	AGE OF PRIMARY FAHILY HOUSEHOLDER	OLDER	ALL .	Not a family Nember < 25 Years Old 25-44 Years Old 95-54 Years Old 55-64 Years Old 65+ Years Old	⇔ ⊶N M⊄ 1V
	- TU A	SIZE OF PRIMARY FAMILY		ALL	Not in Primary Fewily Number Individuals with NO 104:5=1,3	90 81-39
73		PRIMARY FAMILY EARNERS HAGE AND SALARY STATUS	AND SALARY STATUS	ALL	Not in primary Family No One Employed Some Employed Some Employed Nith Mage and Salary Workers Nith Mage and Salary Workers Soll-Employed With Mane and Salary Workers Soll-Employed With Mane and Salary Workers Other Novelpid Nember Self-Employed With Mane and Salary Workers Other Novelpid Nember Self-Employed	oman er om Ac
	· અ	USUAL FULL-TINE/FART-TINE STÅTUS OF PRIMARY FAHILY EARHERS	ATUS	אנו	Hot in Primary Family Ho Earners All Enrores Full Time Some Full Time All Enrores Part Time	5 M N M C
	₩.	LABOR FORCE AND EARNER STATUS (NALE) DE HUSBARD OF PRIVARY FANILY OR NALE HOUSEHOLDER	OR (HALE)	, ALL	Hot in Primary Family/No Hale Employed Enried Self Employed Hithout Pay Unemployed Not in Labor Force Armed Forces	S MENTERS
	•	LABOR FORCE AND EARHER STATUS (FEHALE) OF WIFE OF PRIMARY FAHILY OR FEHALE HOUSEHOLDER	y (FENALE)	VIII	Not in Primary Family/No Female Employed Enrier Self Employed Histout Pay Unremoloyed Not in Labor force Armed Forces	ರ್ಷಾಬಗಳ ಕೊಳ
	. 35 0	NUMBER OF EARHERS IN PRIMARY FAMILY	FAHILY	Att	Not in Primary Family No Enrocra 1-8 Enrocra 9+ Enrocra	

HAR.	HORD CHAR. CHARACTERISTIC		UNIVERSE	DESCRIPTION	VALUES
	KUMBER OF UNEHPLOYED IN PRIMARY FAMILY	T FAHILY	ALL.	Not in Primary Family No Unreployed 1-0 Unreployed 9: Unreployed	00-10-0
·	Houseifold Type		V	Hushand/Wife Primary Family — I Heither Hushand or Wife In Armed Forces Hushand/Wife Primary Family — I Hushand and/or Wife in Armed Forces Umanired Civilian Hale Primary Family Householder Umary Family Householder Family Householder Family Householder Primary Family Household — Reference Person in Armed Forces and Umanifed Frimary Individual Civilian Hale Primary Individual Reference Person in Armed Forces Group Quarters	M N M 4 M 4000 P
·au	NAMBER OF DAM CHILDREN LESS THAN 18 IN PRIMARY FAMILY	A)1 1.6	yt.	No Children I Children 2 Children 3 Children 6 Children 6 Children 7 Children 7 Children 7 Children	
780	PRESENCE OF OWN CHILDREN LESS THAN	TILAN 10	¥tr	No thildren < 18 Years Old All Children 1-17 Years Old All Children 1-17 Years Old All Children 6-13 Years Old All Children 16-17 and 6-13 (No Children 16-17 and 6-13 (No Children 6-13) Children 6-13 (No Children 6-13) Children 6-13 (No Children 6-13) Children 6-13 and 0-5 (No Children 19-17) Children foom all Age Groups	omenen o r o
•	PRINARY FAHELY RELATIONSHIP		Att	Hot in Primary Family Husband Wife Om Child Other Relative Ummarried Reference Person	o mu me in

TTACIMIENT D	ATTACHRENT D (Armed Forces)			PAGE 20
WORD CHAR.	CHARACTERISTIC	MIVERSE	DESCRIPTION	VALUES
74 5-6	PADDING			
75 1-6 76 nd 1-6	FAHILY HEIGHT	YIT VICE	Two Implied Occimal Places, Right Justified , Space Filled (01)	_
77 1-2	HOUSEHOLD SIZE	ALL	Mumber of Persons in Household	01-39
\$-\$	NAMBER OF FAHILIES IN HOUSEHOLD	ALL	Humber of Families	00-39
9-6	PAUDING			
78 1-6 79 ^{md}	FAHILY EARNINGS WEIGHT	M19=4,6	Two Implied Decimal Places, Right Jusified, Space Filled (01)	
80 1-2	PADDING			
₩ •	TOTAL WEEKLY FAHILY EARNINGS	HIS≃4,8	Not in Primary Family Usual Heekly family Earnings	81ank 6006-9999
发展有限的现在分词 医克里斯氏试验检尿病 医克里斯氏试验检尿病 医克里斯氏试验检尿病 医克里斯氏试验检尿病 医克里斯氏试验检尿病 医二氏试验检尿病 医二氏试验尿病 医二氏试验验尿病 医二氏试验验尿病 医二氏试验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验验	使完全的复数形式 计系统系统 医阿拉克氏 医克拉氏 医克拉氏氏试验检尿道试验检尿道试验	END OF ATTACHIENT D M	инивининивининининининин (Ph) of Attacinent () инивинивининининининининининининининини	N N N N N N N N N N N N N N N N N N N

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CURRENT POPULATION SURVEY OCTOBER 1984 EDUCATION SUPPLEMENT ADULT RECORD

...INTERVIEW RECORDS ONLY...

XXXXXX		***************************************		
				EDITED DATA NONBASIC

WORD: 81	CHAR:	2	129	INTERVIEW CHECK ITEM 1 = YES 2 = NO 9 = BLANK I = N.I.U.
WORD: 81	CHAR:	3	138	TAKING COURSES BESIDES COLLEGE 1 = YES 2 = NO 9 = BLANK I = N.I.U.
WORD: 81	CHAR:	4	135	WHILE ATTENDING COLLEGE LIVES 1 = HERE 2 = IN COLLEGE HOUSING 3 = SOMEPLACE ELSE 9 = BLANK I = N.I.U.
WORD: 81	CHAR:	5	136	WITH WHOM DOES LIVE WHILE ATTENDING COLLEGE 1 = WITH PARENTS 2 = WITH SPOUSE OR OWN CHILDREN 3 = WITH OTHER RELATIVES 4 = WITH PERSONS NOT RELATED TO 5 = BY HIMSELF 9 = BLANK I = N.I.U.
WORD: 81	CHAR:	6	137	WHAT TYPE OF LIVING QUARTERS DOES LIVE IN 1 = HOUSE OR APARTMENT OF SCHOOL 2 = DORMITORY 3 = FRATERNITY OR SORORITY 4 = OTHER 9 = BLANK I = N.I.U.
WORD: 82	CHAR:	1	I44	IS THERE A COMPUTER IN THIS HOUSEHOLD 1 = YES 2 = NO 9 = BLANK I = N.I.U.

WORD:	82	CHAR:	2	145	IN WHAT YEAR WAS CONPUTER PURCHASED 1 = 1984 2 = 1983 3 = 1982 4 = 1981 5 = 1980 6 = BEFORE 1980 7 = DON'T KNOW 9 = BLANK I = N.I.U.
WORD:	82	CHAR:	3	I46	INTERVIEWER CHECK ITEM ENTRY IN 20A OR 21B 1 = YES 2 = NO
WORD:	82	CHAR:	4	I47	DOES DIRECTLY USE A COMPUTER AT WORK 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD:	82	CHAR:	5	I48	CHECK ITEM - ENTRY OF YES IN I30 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD:	82	CHAR:	6	I49	DOES DIRECTLY USE A COMPUTER AT SCHOOL 1 = YES 2 = NO 3 = N.A. I = N.I.U.
WORD:	83	CHAR:	1	I50	CHECK ITEM - ENTRY OF YES IN 144 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD:	83	CHAR:	2	I51	DOES DIRECTLY USE A COMPUTER AT HOME 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD:	83	CHAR:	3	I52(A)	HOME - DOES USE COMPUTER FOR 1 = VIDEO GAMES I = N.I.U.
WORD:	83	CHAR:	4	I52(B)	HOME - DOES USE COMPUTER FOR 1 = SCHOOL ASSIGNMENTS 2 = N.I.U.

WORD:	83	CHAR:	5	I52(C)	HOME - DOES USE COMPUTER FOR 1 = HOUSEHOLD RECORD KEEPING, TAXES, ETC 2 = N.I.U.
WORD:	83	CHAR:	6	152(D)	HOME - DOES USE COMPUTER FOR 1 = JOB OR BUSINESS RELATED I = N.I.U.
WORD:	84	CHAR:	1	I52(E)	HOME - DOES USE COMPUTER FOR 1 = WORDPROCESSING 2 = N.I.U.
WORD:	84	CHAR:	2	I52(F)	HOME - DOES USE COMPUTER FOR 1 = LEARNING TO USE COMPUTER 2 = N.I.U.
WORD:	84	CHAR:	3	I52(G)	HOME - DOES USE COMPUTER FOR 1 = OTHER USES NOT LISTED 9 = N.A. IN ALL CATEGORIES I = N.I.U.
WORD:	84	CHAR:	4-5	153	DURING LAST MONTH, DAYS OF USE O1 = 7 DAYS O2 = 6 DAYS O3 = 5 DAYS O4 = 4 DAYS O5 = 3 DAYS O6 = 2 DAYS O7 = 1 DAY O8 = LESS THAN ONCE A WEEK
					O9 = HAS NOT USED IT IN LAST MONTH 10 = DON'T KNOW 99 = N.A. II = N.I.U.
WORD:	84	CHAR:	6	I54	INTERVIEW CHECK ITEM - RESPONDENT 1 = SELF 2 = OTHER 9 = N.A. I = N.I.U.
*****	f		·······························		(CDAIRUD DROCDAM)
****	f	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ENTIFN	(GROWNUP PROGRAM)
WORD:	85	CHAR:	1	130	SCHOOL ENROLLMENT 1 = ATTENDING 2 = NOT ATTENDING I = N.I.U.
WORD:	85	CHAR:	2	I31	PUBLIC OR PRIVATE SCHOOL (I30=1) 1 = PUBLIC 2 = PRIVATE - = N.A. I = N.I.U.

```
WORD: 85
                                     GRADE ATTENDING (130=1)
          CHAR: 3-4
                       I32
                                     NOTE: CODES IN
                                     PARENTHESIS ARE
                                     THE CODES FOR
                                     CHILDREN
                                       01 = E1
                                                 (5)
                                       02 = E2
                                                  (6)
                                       03 = E3
                                                 (7)
                                       04 = E4
                                                 (8)
                                       05 = E5
                                                 (9)
                                       06 = E6
                                                 (10)
                                       07 = E7
                                                 (11)
                                       08 = E8
                                                 (12)
                                       09 = H1
                                                 (13)
                                       10 = H2
                                                 (14)
                                       11 = H3
                                                 (15)
                                       12 = H4
                                                 (16)
                                       13 = C1
                                       14 = C2
                                       15 = C3
                                       16 = C4
                                       17 = C5
                                       18 = C6 +
                                       19 = SPECIAL SCHOOL
                                                              (17)
                                        I = N.I.U.
WORD: 85
           CHAR:
                   5
                       I33
                                     ATTENDING COLLEGE FULL-TIME OR PART-TIME
                                       1 = FULL-TIME
                                       2 = PART-TIME
                                       - = N.A.
                                       I = N.I.U.
WORD: 85
           CHAR:
                       I39
                                     ENROLLED IN REGULAR SCHOOL
                                     OCTOBER 1983
                                       1 = YES
                                       2 = NO
                                       - = N.A.
                                       I = N.I.U.
WORD: 86
           CHAR:
                       I41
                                     INTERVIEW CHECK ITEM
                   1
                                       1 = HIGH SCHOOL GRADUATE
                                       2 = NOT HIGH SCHOOL GRADUATE - 14-24
                                       3 = NOT HIGH SCHOOL GRADUATE 25+
                                       - = N.A.
                                       I = N.I.U.
WORD: 86
                       I42
                                     LAST ATTENDED REG. SCHOOL
           CHAR:
                   2
                                       1 = 1984
                                       2 = 1983
                                       3 = 1982
                                       4 = 1981
                                       5 = 1980
                                       6 = 1979 OR EARLIER
                                       7 = NEVER ATTENDED
```

WORD: 86	CHAR:	3	I43	WHEN GRADUATED FROM H.S. 2 = 1984 3 = 1983 4 = 1982 5 = 1981 6 = 1980 7 = 1979 OR EARLIER I = N.I.U.
WORD: 86	CHAR:	4	I40	INTERVIEWER CHECK ITEM 1 = 14-34 YEARS 2 = 35+ I = N.I.U.
WORD: 86	CHAR:	5	I34	IS THIS A TWO-YEAR OR A FOUR YEAR COLLEGE/UNIVERISTY 1 = 2-YEAR 2 = 4-YEAR I = N.I.U.
WORD: 86	CHAR:	6		PADDING
WORD: 87 THRU WORD: 88	CHAR:	1		OCTOBER SUPPLEMENT WEIGHT
WORD: 89 THRU WORD: 90	CHAR:	1		PADDING
WORD: 91 THRU WORD: 92	CHAR:	1		OCTOBER CPS 1985 BASE REWEIGHT
WORD: 93 THRU	CHAR:	1		OCTOBER SUPPLEMENT REWEIGHT

WORD: 115 CHAR: 6

CURRENT POPULATION SURVEY OCTOBER, 1984 EDUCATION SUPPLEMENT CHILDREN'S SUPPLEMENT

*****			M.1133 (14.14.14.14.14.14.14.14.14.14.14.14.14.1	
*****	***************************************		ED:	ITED NON-BASIC DATA
WORD: 81 THRU	CHAR:	1		PADDING
WORD: 82	CHAR:	5		
WORD: 82	CHAR:	6	I59	DOES DIRECTLY USE COMPUTER AT SCHOOL 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD: 83	CHAR:	1		PADDING
WORD: 83	CHAR:	2	160	DOES DIRECTLY USE COMPUTER AT HOME 1 = YES 2 = NO 9 = N.A. I = N.I.U.
WORD: 83	CHAR:	3	I61(A)	AT HOME USES COMPUTER FOR 1 = VIDEO GAMES I = N.I.U.
WORD: 83	CHAR:	4	I61(B)	AT HOME USES COMPUTER FOR 1 = SCHOOL ASSIGNMENTS I = N.I.U.
WORD: 83 THRU	CHAR:	5		PADDING
WORD: 84	CHAR:	1		
WORD: 84	CHAR:	2	I61(F)	AT HOME USES COMPUTER FOR 1 = LEARNING TO USE COMPUTER I = N.I.U.
WORD: 84	CHAR:	3	I61(G)	AT HOME USES CONPUTER FOR 1 = OTHER USES NOT LISTED ABOVE 9 = N.A. IN ALL CATEGORIES I = N.I.U.

DURING LAST MONTH, AVERAGE DAYS PER WEEK COMPUTER USED AT HOME 01 = 7 DAYS02 = 6 DAYS 03 = 5 DAYS04 = 4 DAYS05 = 3 DAYS06 = 2 DAYS07 = 1 DAY08 = LESS THAN ONCE A WEEK 09 = NOT USED IN LAST MONTH 10 = DON'T KNOW99 = N.A.-- = N.I.U.WORD: 84 CHAR: PADDING 6 ******.... EDITED BASIC DATA ***** ATTENDING OR ENROLLED UNIV: AGE = 3-13WORD: 85 CHAR: 1 I56 IN SCHOOL 1 = YES 2 = NO- = N.I.U.WORD: 85 CHAR: 2 **I57** PUBLIC OR PRIVATE UNIV: 156 = YES SCHOOL 1 = PUBLIC2 = PRIVATE - = N.I.U.WORD: 85 CHAR: 3-4 I58 GRADE OR YEAR UNIV: 156 = YESATTENDING O1 = NURSERY, FULL-DAY O2 = NURSERY, HALF-DAY O3 = KINDERGARTEN, FULL-DAY O4 = KINDERGARTEN, HALF-DAY 05 = E106 = E207 = E308 = E409 = E510 = E611 = E712 = E813 = H114 = H215 = H316 = H417 = SPEC.SCH.--=NA, BLANK

WORD: 84 CHAR: 4-5 I62

WORD: 85	CHAR:	5	155	INTERVIEWER CHECK 1 = O-2 YEARS 2 = 3-13 YEARS
WORD: 85	CHAR:	6		
THRU				PADDING
WORD: 88	CHAR:	6		
WORD: 89 THRU	CHAR:	1		PRINCIPAL PERSONS WEIGHT
WORD: 90	CHAR:	6		
WORD: 91 THRU	CHAR:	1		PADDING
WORD: 115	CHAR:	6		

Questionnaire Facsimile

INTERVIEWER CHECK ITEM	FORM CPS-1	U.S. DEPARTMENT OF COMMERCE Bureau of the Census	CONTROL NUMBER		
Only CPS-1 for household		Bureau or the Census	4		
First CPS-1 of continuation h'hold		AN CHAVEY			
Second CPS-1 of continuation h'hold	current populat	IOM DANAEL			
Third, fourth, and 5th CPS-1	Form Approved - O.M.B. No. 0607-0049	Foedic 26.1:1	PSU	SEGMENT	SERIAL
LINE NO. OF H'HOLD RESP.		•			
NON H'HOLD RESPONDENT					
INTERVIEW ANY ENTRY OTHER THAN (Yes NEVER WORKED IN ITEMS 23A-E in this CPS-1 No NONINTERVIEW TYPE A					•
TYPE B					•
TYPE C					
(SEND INTER COMM)	Curre	NT			
e de la companya de l					
TELEPHONE HOLD (Mark this box for office "telephone hold" cases only)					
		•	•		
		OPULATIO	ON		

Survey

FILL TRANSCRIPTION ITEMS 18A-K IN ALL HOUSEHOLDS.

			FIRST CHILD	7 [FIRST ARMEI	D EODCE	CMEMB		
18A. LINE	188. RELATIONSHIP TO REF. PERS.	18C. PAR'S LINE NO.	58. What grade or year is attending (If nursery or kindergarten, ask if full-day or part-day	,	(Fill only in inte	view household	for perso	o membi ns with ",	er. 4F" in CC item 2	?2.)
NO.	Own child		Kindergarten Elementary or secondary	18A. LINE	188. RELATIO		18C.	18D.	18E. MARITA	AL STATU
	Brother/Sister		Full-day Full-day 6 E1 C E5 C H1 Part-day Part-day E2 C E6 C H2	NO.	REFEREN Reference Perso		PAR'S	AGE	Married-civil	lian
: :	Other rel. of	ι , ε	E3 O E7 O H3	00	Other relative		NO.	İ	spouse pres	ent C
	Ref. Person	3 3	Special School E4 C E8 C H4	11	Reference Perso		1 3 3	3	Married-	
40	Non-rel, of Ref. Person with	5		5 5	1	sin h'hld ⊖	1 2 2	1 I I	Armed For spouse pres	rces Sent ©
5	OWN relatives in household.	6	The next set of questions has to do with's DIRECT or "HANDS ON"	4 4	Husband Wife		3 3	3 3	Married-	
2	Non-rel, of Ref.	?	use of computers with typewriter-like keyboards. These questions do NOT refer to	5	Own child		=	+ +	spouse abse	mt
8	PerNO OWN	None 8	hand-held computers or computer games which do not have a typewriter keyboard.	6 ?	Parent	0	5 5	3 3	separated).	0
9	rels in H.H		59. Does , directly use a computer at school?	8	Brother/Sister Other rel. of Rel			? ?	Widowed	
18D.	18G. SEX	18K.	Yes O	9			- 6	88	Divorced Separated	
AGE	Male	ORIGIN	No O	[]	Non-rel, of Ref. WITH OWN 1	elatives	5	೨೨	Never married	
2 2	Female :	0 0	60. Does directly use a computer at home?		in household Non-ret, of Ref.		None	1		
Ē	18J. RACE	3 E	Yes O (Ask 61)		with NO OW relatives in ho	N	~		_	
3 4	1. White	3 3	No ○ (End questions)		701217403 115 110	Austrialia C	ŀ			
5	3. Amer. Ind.	5	61. At home does use the computer for: (Read categories - Mark all that apply)	18F.	18G. SEX	18H.	181.		18J. RACE	18K.
6	Aleut, Eskimo î	_ 6	Video gemes	SPOUS LINE N		HIGHEST	GRAD	PLETED		ORIGI
é	4. Asian or Pac. Isl. 0	2 3		00		ATTENDED	Yes	- 1	1. White O	0 0
\$	5. Other O	9	School assignments	1 1		EHC	No	0	2. Black O	: I
55 INT	ERVIEWER CHECK ITE	M	Learning to use the computer O	3 3		555			3. Amer.	3 3
Ent	ry in CC Item 18 is:		Other uses not listed above O	9		3 3 3			Indian, Al c ut,	3 4
	0 to 2 ⊜ (Ga 3 to 13 ⊜ (As	to next child)	62. During the last month, on average how many days per week did use the computer	5		5 5			Eskimo O	5
			at home?	7		6 6	+		4. Asian or Pac. Isl. O	9
56. Is	. attending or enrolled in		7 days ○ 2 days ○	8		?			5. Other O	8
1	Yes ○ <i>(As</i> No ⊃ <i>(Sk</i>		6 days ○ 1 day ○ 5 days ○ Less than once a week ○	None		8 None		-	5.0016	9
F7 12	enrolled in public or pri		4 days Q Has not used it	0		0	1			
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LINE NO.	TO REF. PERS. Own child	LINE NO.	SECOND CHILD 58. What grade or year is attending if nursery or kindergarten, ask if full-day or part-day) Nursery Kindergarten Full-day O Full-day O E1 O F5 O H1 C Part-day O Part-day O E2 O E6 O H2 C E3 O E7 O H3 C Special School O E4 O E8 O H4 C The next set of questions has to do with's DIRECT or "HANDS ON" use of computers with typewriter-like keyboards. These questions do NOT refer to hand-held computers or computer games which do not have a typewriter keyboard. 59. Does directly use a computer at school? Yes O No O 60. Does directly use a computer at home? Yes O (Ask 61) No O (End questions) 61. At home does use the computer for: (Reed categories – Mark all that apply) Video games O Learning to use the computer O Other uses not listed above O 62. During the last month, on average how many days per week did use the computer at home? 7 days O 2 days O 6 days O 1 day O 5 days C Less than once a week O	18A. LINE. NO. O I 2 3 4 5 6 7 8 9 18F. SPOUSE NO. O I 2 3 4 5 6 7 8	188. RELATION REFERENCE Reference Person other relatives Husbend	SHIP TO: SHIP TO: SE PERS. WITH In h' hid O with NO O with NO O O O O O O O O O O O O O O O O O O	IBC. PAR'S LINE NO. © 12 2 3 5 5 6 7 6 7 6 7 9 9 None O	18D. AGE CORRESPONDED CORRESPONDED ELETED O O O O O	18J. RACE 1. White 2. Black 3. Amer. Indian, Alskimo Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O	IBK. ORIGIN
18D. AGE 55. INTI Entr	TO REF. PERS. Own child	LINE NO. © 0 1 2 3 3 4 5 6 7 7 None 8 9 18K. ORIGIN © 0 1 1 1 2 3 3 4 5 6 9 9 1 1 1 2 2 3 3 4 5 6 9 1 1 1 2 2 3 3 4 5 6 9 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 1 2 2 3 3 4 5 6 9 1 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 4 5 6 9 1 1 2 2 3 3 3 4 5 6 9 1 2 3 3 3 3 4 5 6 9 1 2 3 3 3 3 4 5 6 9 1 2 3 3 3 3 4 5 6 9 1 2 3 3 3 3 4 5 6 9 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SECOND CHILD 58. What grade or year is attending if nursery or kindergarten, ask if full-day or part-day) Nursery Kindergarten Full-day O Full-day O E1 O F5 O H1 C Part-day O Part-day O E2 O E6 O H2 C E3 O E7 O H3 C Special School O E4 O E8 O H4 C The next set of questions has to do with 's DIRECT or "HANDS ON" use of computers with typewriter-like keyboards. These questions do NOT refer to hand-held computers or computer games which do not have a typewriter keyboard. 59. Does directly use a computer at school? Yes O No O 60. Does directly use a computer at home? Yes O (Ask 61) No O (End questions) 61. At home does use the computer for: (Read categories – Mark all that apply) Video games O School assignments O Learning to use the computer O Other uses not listed above 62. During the last month, on average how many days per week did use the computer at home? 7 days O 2 days O 6 days O 1 day O 5 days C Less than once a week O	18A. LINE. NO. OI 1 2 3 4 5 6 7 8 9 18F. SPOUSE LINE NO. I 2 3 4 5 6 7 8 9	188. RELATION REFERENCE Reference Person other relatives Husbend	SHIP TO: SEPERS. WITH In h' hid O In h' hid N In h' hid O In h' hid N In h' hid N In h' hid N In h' hid N In h' hid N In h' hid N In h' hid N In h' hid N In h' hid N In h' hi	IBC. PAR'S LINE NO. © 12 2 3 5 5 6 7 6 7 6 7 9 9 None O	18D. AGE CORRESPONDED CORRESPONDED ELETED O O O O O	18J. RACE 1. White 2. Black 3. Amer. Indian, Alskimo Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O Asian or Pac. Isi, O	LESTATUS ian ent C ses ent C 18K. ORIGIN C D 18K. ORIGIN C D 2 C 3 C 5 C 7 S

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CURRENT POPULATION FORMCPS:	SURYET Second CPS	of continuation h'hild 0	items on this Yellov	c.C.	10101		: : : : : : : : : : : : : : : :	; ; ; ; ;	
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33,000,000,000,000			OTHER UNI	. =	Sa. LAND USAGE	B. PSU NC	7. SEGMENT NO.	8. SERIAL	9.HOUSE HOLD
10. INTERVIÈWER CODE A B C D E F G H J K L M			uarters not	•	Urban 3				NO.
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Non. h'hld. resp.(Specify) (Send Inter California Interviewed Households O	iomm	e (Describe below) O			Less than \$1000 O	2 ? ? 8 8 8 9 9 9	3888	? ? 8 8 9 9	8
13. TYPE INTERVIEW			NONINTERVIE		<u> </u>				(Go to 10)
Noninterview	TYPE A	TYPE			C (Send Inter Con	nm)	SEASON	AL STATUS	
Personal Tel. — regular O	14. (Mark remon and mce.)	15.	. \			, 10	3. This unit is int	ended for occ	upency:
Tel caliback O	REASON RACE	Vacant — regular	l i sui	Demolished	o	1	Yeer round		ill HVS If U in Item 4,
ICR filled O	No one home O	Temp. occ. by persons with	/ .07	House or tra	iler moved O		By migratory wor		Fill Item 17
	Temporarily		(🔳	Outside segn	nent	=	Seesonally	0 1	below if HU in Item 4)
	9-4		1 .	business (or storage	(Omit 17	. This unit is into	inded for occ	upancy:
	Refused O Black	to temp. business or sto.	,	1		(16-17)	Summers only		renscribe
	Other Occ. O All other (Occ. by Armed Force members or persons und	der 14 ○ \(\frac{\(\cappa\) \(\text{i6}\)—17)	Built after A	pril 1, 1970	1 !	Winters only	o ie	s instructed in back of ontrol Card.
	below)	Unoccupied tent site or tra Permit granted,		Built after A	pril 1, 1980	1	Other (Describe be	tow) O	ontror Cara,
	\	Other (Specify below)	1	Unused line of sheet			/		
	,	Other (specify balau)	9 /	Other (Descri	be below) O		<i>,</i>		
TRANSCRIPTION ITEMS FILL ON FIRST CPS-1 of Int	terviewed households			 	*********				
27. TENURE (Transcribe from cc item 9(yellow) or item 10 (white) Owned or being bought	NQTES:								
Rented									
No cash rent									
28. TOTAL FAMILY INCOME (Transcribe from cc item 33 (yellow) or item 29 (white	,,,,								
AD ED IO MO	"								
BO FO JO NO CO GO KO		~~~~~~~~~~~~~~~							
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REMINDER		******							
Fill items 18A-18K on pages 2, 5, 7, 9, and 11.									
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8-20-84

18. LINE NUMBER	20. Did do any work at all	21. (If J in 19, skip to 21A.)	22. (If LK in 19. Skip to 22A.)	24. INTERVIEWER CHECK ITEM (Rotation number)	
	LAST WEEK, not counting work around the house?	Did have a job or business from which he/she	Has been looking for work during the past 4 weeks?	First digit of SEGMENT number is:	25. INTERVIEWER CHECK ITEM
19. What was doing most	(Note: If farm or business	was temporarily absent or		1, 2, 3, 5, 6 or 7 (Skip to 26)	(Rotation number)
of LAST WEEK -	operator in hh., ask about	on leyoff LAST WEEK?	Yes No . (Go to 24)	4 or 8 (Go to 24A)	First digit of SEGMENT number is:
Working Keeping house	ر unpaid work.)		22A. What has been doing in the last	/	<u> </u>
Going to school	Yes No (Go to 21)	Yes No (Go to 22)	4 weeks to find work? (Mark ell	24A. When did lest work for pay at a	1, 2, 3, 5, 6 or 7 (Skip to 26) 4 or 8 (Go to 25A)
or something else?		21A. Why was absent from	methods used; do not read list.)	regular job or business, either full-or	4010 (00 10 25 %)
	20A. How many hours	work LAST WEEK?	1	part-time?	25A. How many hours
Working (Skip to 20A)WK	did work		Checked with —	Within past 12 months	per week does
With a job but not at work J	LAST WEEK at all jobs?	Own illness C	Dub employ, agency 🙃	1 up to 2 years ago	USUALLY 1 1
Looking for workLK	at air jouri		pvt. employ, agency ©	2 up to 3 years ago (Go to 248)	work at this job?
Keeping house	208. INTERVIEWER	On vacation	1	3 up to 4 years ago	
Going to school S Unable to work (Skip to 24)U	CHECK ITEM	Bad weather	employer directly C	5 or more years ago	
Retired	49 (Skip to	bau weather	friends or relatives C	(Skip to	5.6
Other (Specify)OT	item 23)	Labor dispute	Placed or answered ads		<u> </u>
	1-34 . (Go to 9 5		Nothing (Skip to 24)	24B. Why did leave that job?	■ 8 8
	20C) L	New job to begin (Skip to	Other (Specify in notes, e.g.,	Personal, family (Incl. pregnancy) or school	e e :
	35-48 C (Go to 20D)	within 30 days 3 228 and		1	
	20D. Did lose any time or	Temporary levoff		HealthC	258. Is paid by the hour on this job?
	take any time off LAST	(Under 30 days)	228. Why did start looking	Retirement or old age	1
	WEEK for any reason	<i>l</i> -	for work? Was it because lost	Seasonal job completed	Yes □ (Go to 25C) No □ (Skip to 25D)
	such as illness, holiday	Indefinite layoff (Skip	or quit a job at that time (pause)	Seasoner job compreted	160 5 (SAMP 10 25D)
200 0 110114117	or slack work?	or no def. recall \ 22C3)	or was there some other reason?	Slack work or business conditions	25C. How much
20C. Does USUALLY work 35 hours or more a week at this job?	, v 2 H	date)	Lost job	Temporary	does Dollars Cents
incore or incore a week at this job!	Yes O How many hours did take off? ,	Other (Specify)	Quit job O	nonsessonal job completed Unsatisfactory work	sern 00 00
Yes O What is the remon	· · · · · · · · · · · · · · · · · · ·	*	Left school O Wanted temporary work	arrangements (Hours, pey, etc.)	perhour? II II
worked less then			Other (Specify in notes)	Other 0	33 33
35 hours LAST WEEK	(Correct 20A If lost time	218. Is getting weges or		24C. Doec want a regular job now, either full- or part-time?	00 00
No C What is the resson	not elready deducted;	salary for any of the time	22C. 1) How many weeks Ø Ø	either full- or pert-time?	\$ 655 55
USUALLY works	If 20A reduced below 35,	off LAST WEEK?	hasbeen looking I I	Yes (Go to 24D)	66 56
less than 35 hours	correct 20B and fill 20C;	Yes	for work? 2 8	Maybe — it depends □ . V	7 2 2 2 1
a week?	otherwise, skip to 23.)	İ	2) How many weeks ago a. a.	(Specify in notes)	🔳 ବ୍ର ବ୍ୟ
(Merk the appropriate reason)	No O 7	No	did start looking 5 5	Don't know O ((Skip to 24E)	1
	20E. Did work any overtime	Self-employed C	for work? G G	24D. What are the reasons , is not	(Ash 25D)
Slack work	or at more then one job	l <u></u>	2.7	looking for work?	25D. How much does
Material shortage	LAST WEEK?	21C. Does usually work	3) How many weeks ago 88	(Mark <u>each</u> reason mentioned)	USUALLY com
1		35 hours or more a week	waslaid off? 99	Believes no work available in line of work or area	per week at this
Plant or machine repair ©	Yes O How many extra hours didwork	at this job?	220. Has , been looking for full-time	available in line of work or area Couldn't find any work	job BEFORE COO
New job started during week	<i>y</i>	Yes O	or pert-time work?		deductions?
Job terminated during week. , , 5		!	Full C Part C	Lacks nec. schooling, training, skills or experience	overtime pay, 3 3 3
Could find only part-time work	(Correct 20A and 208 as	No O	22E, is there any reason why could	Employers	commissions.
	necessary if extra hours	-	not take a job LAST WEEK?	think too young or too old O	or tips usually 5 3 5
Holiday (Legal or religious)	not already included and skip to 23.)	(Skip to 23 and enter job	Yes C Already has a job C	Other pers. handicap in finding job.	received. 5 6 5
Labor dispute	No C	held last week)	Temporary illness O		, -
Bad weather	_	. •	Going to school C	Can't arrange <u>child care</u>	
1	(Skip to 23)	1	No C (Other (Specify in notes) C	• Family responsibilities	
Own illness	O INDUSTRY	OCCUPATION	22F, When did last work at a	• In school or other training	25E. On this job, is a member
On vacation	FORAL	30 NO .	full-time job or business lesting 2 consecutive weeks or more?	• Ill health, physical disability	of a labor union or of an
Too busy with housework,	I III B.C.	II PC	Within last 12 months (Specify)		employee association similar
school personal bus., etc	E SEECS	2 8 0 0	(Month)	Other (Specify in notes)	to a union?
Did not want full-time work C	0 33 D A	333 A 5 444 S 3	One to five years ago	Don't know	Ves □ (Ship to 26) No □ (Ask 25F)
Full-time work week under 35 hours	\$ 55 F G	- 555 T 0	More than 5 years ago	24E. Does intend to look for work	140 C (MAR 43F)
Other reason (Specify).	66 60	666 U C	Never worked	of any kind in the next 12 months?	25F. On this job, is covered
	O 22 H3	??? V O	full-time 2 wks. or more O Never worked at all O	Yes	by a union or employee
	<mark>N</mark> ୫୫.၂୯	୫୨୫ ୪ ୦	(SKIP to 23. If layoff entered in 21 A,	it depends (Specify in notes)	association contract?
,	P 99 KC	୭୭୭ x ଦ୍	enter job, either full or part time, from	No ೨	Yes C I a see
(Skip to 23 and enter job worked	L O	Y 3	which laid off. Else enter lest full time job lesting 2 weeks or more, or	Don't know	Yes C (Go to 26)
at last week)	Ref. C M C	Ref. 0 Z 0	"never worked.")	otherwise, skip to 26)	
23. DESCRIPTION OF JOB OR BUSI	NESS		· · · · · · · · · · · · · · · · · · ·		
23A. For whom did work? (Name	of company, business, organization	or other employer.)	23E. Was this person		23F. INTERVIEWER
			An employee of PRIV		CHECK ITEM
				for wages, salary or comm P	Entry (or NA)
238. What kind of business or industry	y is this? (For example: TV and radio	o mfg., retail shoe store, State Labor	The second secon	nent employee	in item 20A
1				t employee	(Go to 25 at top of
23C. What kind of work was doing			A LOCAL governmen	t employeeL C	Entry (or NA) (Page)
	? (For example: electrical ennineer	stock clerk, typist, farmer.)			
1	7 (For example: electrical engineer	. stock clerk, typist, farmer.)	Self-empl. in OWN but	s., prof. practice, or farm	in item 21B C
	? (For example: electrical engineer	stock clerk, typist, farmer.)	Self-empl. in OWN but	s., prof. practice, or farm	in item 218
23D. What were's most important	activities or duties at this job? (Fo	· · · · · · · · · · · · · · · · · · ·	Is the business inc	orporated? NoSE	
23D. What were's most important sells cars, operates printing press, i	activities or duties at this job? (Fo	· · · · · · · · · · · · · · · · · · ·	Is the business incodes, files, Working WITHOUT P	s. prof. practice, or farm orporated? Yes I No	

.

18A.	188. RELATIONSHIP	18C.	18D. AGE	18E. MARITAL STATUS	18F.	18G. SEX AND	18H, HIGHEST	Π,		
LINE	TO REFERENCE PERSON	PARENT'S		Married - civilian	SPOUSE'S	VETERAN STATUS	GRADE	101 00400	T	7
NO.	Reference Person WiTH	LINE	_	spouse present	LINE	Male (Also Mark	ATTENDED	181. GRADE	18J. RACE	18K. ORIGIN
	ather relatives in household 😊	NUMBER		Married -Armed Forces	NUMBER	Vet. Status)	EHC	33	1, White,	7 3
3	Reference Person with	9 4	- 57	spouse present	3	Vietnam Era		Yes	2. Black	
1 : :	NO other relatives in household ©		1		1 :	Korean War		No :		3. 8
33	Husband	. a :	2 S 3 S	Married - spouse absent	ε :	World War II	5 3		3. Amer, Indian,	2.3
1 1	Own child	3 3 5-	3 3	(Exclude separated))	ء ق	World War I	· + + +		Aleut.Eskimo 🔾	÷
3	Parent	5	5 5	Widowed,		Other Service 🔾			4. Asian or	5
	Brother/Sister	5	3 3	Divorced		Nonveteran	3.7	ĺ	Pacific Isl	G
2	Other rel. of Ref. Person	?	2 2		l	Familia 2	- None	1	5. Other	?
÷	Non-rei, of Ref. Person WITH	8	8 8	Separated	l	Female	7 0]		8
5	OWN relatives in household O	, ç	ବ ଓ	Never married · · · · · · · · ·						ا ت
	Non-rel, of Ref. Person with	None			None		1			
	NO OWN relatives in household O	3			· ·			. =		
	ERVIEWER CHECK ITEM	35. While	attending coil	age does live	LEAD IN	: The next set of questions has	to do with's DIR	ECT or	L	
	<i>nscribe from control card Item 18)</i> This person is		riere	5 (Skip to 37)		S ON" use of computers with t				
1	16-24 years of age (Ask 26A)		In coilege hou	sing ○ \ ^(SAIP to 37)		estions do NOT refer to hand-h		nputer		
	All others O (End Questions)	-	Someolace els	1 O (Ash 36)	gernes wi	hich do not have a typewriter k	eyboard.			•
26A.///	'School' in 19, Varify) Is attending or	┥		, , , , , , , , , , , , , , , , , , ,	NOTE: A	Ask items 44 & 45 once of first	respondent in househ	eld.		
eni	rolled in a high school, college, or university	36. With	whom does	live while attending college?	Transcrib	se directly for following respon	dents and begin with	46.		
	ark "Yes" if currently on holiday or seasonal tation. Mark "No" for summer vacation).		With parents .	o - ₁	44. 18	there a computer in this house	hold?			
1	Yes ○ (Verify) > No ○ (End Question			r own children 🔿 📗		Yes O (Ash 45)				
1.	ita o (rum) ito o (zna questra	"		stives (Skip to 38)	' [3] '	No C (Fill 46)		ļ		
1	High School O			not related to O	\ \	 				
j .	Callege or Univ. O (Ask 268)	IL	By himself	o '	151	what year was the computer o		ŀ		
268 Is	enrolled in school as a full-time	37. Whet	type of living	quarters does live in while	$N^{-\mu}$	f more than one, answer for the i	most recent.)	1.0		
	part-time student?	atten	ding school?	_	N-	1984 D 1981 C	Before 1980	1		
	Full time O	-	House or apar		N	1983 C 1980 C	Don't know			
Part time O END QUESTIONS		1		by the school O	N	1 982 3		- 1		
PEMINI	DER: ASK THE L.F. ITEMS FOR ALL H.	=	Freternity or s		AR CHE	CK ITEM: Entry in item 20A o	218 /Washing as w	***		
	RS BEFORE ASKING THE SUPPLEMENT		Other		40. CHE		# 41B (Working Gr W	un e /00/		- 1
						Yes O (Ask 47) No O (Skip to 4	ه ا	1		
	SUPPLEMENT QUESTIONS	38. (Besid	des those colle	pe courses) is taking		110 0 13419104	~, 			
29. INT	ERVIEWER CHECK ITEM			for personal development, for		directly use a computer at	work?			· i
1	nscribe from Item 26 A)			al job skills, or courses for general	1	Yes C		1		
enjoyment or fo			edit towerd a degree certificate		No C					
1	No. C Skip to 38	or all		e correspondence courses)		·				
		_		Yes O	48. CHE	CK ITEM: Entry of "Yes" in 3	O (Enrolled in school))]-		-
30. ls	attending or enrolled in school?			140 0		Yes 🔾 (Ask 49)				
	Yes (Ash 31)	39. Was .	attending o	r enrolled in a regular school or		No C (Skip to S	0)			
	No O (Ship to 38)	coile	e in October 1	963, that is, October of last year?	49. Does	directly use a computer at	school?			
31. ls	. enrolled in public or private school?			Yes C		Yes C		1		
	Public C			No O		No O				
	Private O									
		40. INTE	RVIEWER CH	ECK ITEM	50. CHE	CK ITEM: Entry of "Yes" in 4	4 (Computer in house	hold)		
	it grade or year is attending?		-	-34 C (FIII 41)		Yes C (Ask 51)		ł.		-
	E2 E3 E4 E5 E6 E7 E8	.	Age 35	O (Skip to 44)	L	No C (Fill 54)				1
1	0 0 0 0 0 0 (Skip to 3)	·	B) ((E) (F)	SECULATION	51. Does	directly use a computer at	home?			-
H1	H2 H3 H4		RVIEWER CH			Yes 3 (Ash 52)		1		
) 5	○ ○ ○ (Ship to 39)	(A)	High School (No 3 (Fill 54)]
	co co o, or co		Card Item 23	4" and "Yes" in Control a and 23b OR entry of	52 At he	ome does , use the computer	for (Dand catanonia	- merè		
1	C2 C3 C4 C5 C8+	1		Control Card Item 23a) 🔘 (Skip	all the	ar apply)	IN . (News College/165	774		
1	c c o o o	(8)	Not High Sch	ool Graduate to 43		so Games	Wordprocessing	- I		
	in item 26B skip to item 34 otherwise ask	1	Age 1424	○ (Ask 42)			Learning to use			İ
item 33	y		Age 25+	C (Skip to 44)	Hou	sehold record	the computer.			
Spe	ecial School (Specify type and skip to 3	n			k	eeping, taxes, etc.	Other uses			
	/ 42.		42. In what CALENDAR year did last attend			Job or business not listed above				
1		regul	ar school?	••		efated activities				j
			1984 0	1980		ng the last month, on average ho	w many days per we	ek		İ
33. is	attending college full-time or pert-time?		1963 © 1962 ©	1979 of earlier		use the computer at home?				1
Fu	di-time 🗇 💢 🚃		1982 C	Never attended		7 days 3 days	Less than once a	week .		-
Pa	rt-time 0		,	(Skip to 44)		6 days 2 days .	Has not used it	.		1
34 10 00	nis a two-year college or a four-year college	43 in par	at CALENDA	R year did graduate from high	7	5 days 1 day	in the last mor			1
1	niversity?	school		· · · · · · · · · · · · · · · · · · ·		4 davs	Don't know	··· ·		
1	2-year college		1984 J	1981	54. INTE	RVIEWER CHECK ITEM		If th	his is the last person 14+	years of
	(community or junior college)		1983 3	1980		responded to supplement items	29-53		in the household go to p	
1	4-year college or university		1982 🔾	1979 or earlier		Seif			riplete items 55–62 as ap	
		1			1	Other		for	any children 0-13 year	s old.

UNWEIGHTED AND WEIGHTED COUNTS

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UNNEIGHTED	WEIGHTED (1000'S)
•	
13757 49545	19832 75938
	18834
54346	82762
	·
0055	3717 9234
6516	3654 11279
764 1962	933 2479
	903
2096	265 6
UNNEIGHTED	WEIGHTED
165490 151832	232222
32427 119405	47874 184348
689	771
10438	ŏ
	13757 49545 12875 54346 2200 4940 2107 6516 764 1962 724 2096 UNWEIGHTED 165490 151832 32427 119405 689 2531