

UC-32
LBL-18483
c.1



Lawrence Berkeley Laboratory

UNIVERSITY OF CALIFORNIA

RECEIVED
LAWRENCE
BERKELEY LABORATORY

JAN 7 1985

LIBRARY AND
DOCUMENTS SECTION

Computing Division

REPORT A: 1983 ESTIMATED SOCIAL INDICATORS
FOR PLANNING AND EVALUATION - DISTRICT OF COLUMBIA

October 1984

For Reference
Not to be taken from this room



Prepared for the U.S. Department of Energy under Contract DE-AC03-76SF00098

LBL-18483
c.1

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

LBL-18483

**REPORT A:
1983 ESTIMATED SOCIAL INDICATORS
FOR PLANNING AND EVALUATION**

DISTRICT OF COLUMBIA

U.S. Department of Labor
Employment and Training Administration
Region IX
San Francisco, California

Computing Division
Lawrence Berkeley Laboratory
University of California
Berkeley, California, 94720

Prepared for the U.S. Department of Energy
under Contract DE-AC03-76SF00098

Preface

Since 1975, the US Department of Labor's Employment and Training Administration (ETA) in collaboration with the Lawrence Berkeley Laboratory (LBL) has been developing the Labor Market Projections Model (LMPM).

The goal of the LMPM is to provide local planners not only with estimates of current socio-economic conditions, but also with short term demographic forecasts. These estimates and forecasts of the current local labor markets and population statistics are produced using a uniform methodology for the entire nation. Presently the LMPM consists of two independent models. The first model updates the latest decennial census using the most recent March Current Population Survey (CPS) data. The second model uses a refined cohort component model to project population, labor force, and unemployment by race, sex and age.

The first model, upon which this report is based, combines the timeliness of Current Population Survey data with the geographic detail of the decennial census. In brief, current socio-economic indicators at the local level are obtained by updating tables in the 1980 Census of Population using the 1980 CPS data tapes and the most recent (1983) CPS data tapes.

The second model will be used to produce "Report B: 1986 Projected Population, Labor Force and Unemployment" later in the fall of 1984. In developing these reports, ETA and LBL utilized the latest techniques of information management, data retrieval, and computer graphics display to present estimates in an effective, easy-to-use format. The overall approach is to make planning information accessible.

October 1984

Acknowledgements

The Labor Market Projections Model is a joint undertaking of the Employment and Training Administration (ETA), National Office, Washington, D.C., and the Lawrence Berkeley Laboratory (LBL) of the University of California at Berkeley. In the Employment and Training Administration, the work was carried out under the direction of James W. Higgins of the ETA Labor Market Information Division. Walter Postle and Bruce Bargmeyer of the Management Data Systems and Analysis Division, Region IX, San Francisco served as liason between the ETA National Office and LBL.

Work at LBL was under the direction of Carl Quong, Head, Computer Science Research Department, and Harvard Holmes. Esther Schroeder and Linda Wong coordinated the overall systems design and supervised all other aspects of the project. When this project was started in the mid 1970's, the 1970 Census was updated. Bill Hogan wrote the program to tabulate the CPS. This program was later generalized by Esther Schroeder. Programs that had been written by Bob Healey to access and aggregate 1970 Census data were used. Peter Wood wrote the program to update the local 1970 Census data using CPS data. Bill Benson wrote the program to output the results.

This past year, the 1980 Census data became available to replace the 1970 Census data. At the same time, the tables that were being updated were increased in number and modified to better meet the needs of the program planners. The programs to access and aggregate the 1980 Census data were those developed by the 1980 Census Report Project. The updating programs were rewritten by Linda Wong. The programs to generate the reports were written by Esther Schroeder. The formatting and structure of these final reports benefited greatly from all of the work that went into the 1980 Census Report Series.

Jim Woods and Dick Hoff of the ETA Labor Market Information Division were instrumental in starting this project in 1975.

This work was supported by the Office of Health and Environmental Research and the Office of Basic Energy Sciences of the U.S. Department of Energy under Contract No. DE-AC03-76SF00098; and the U.S. Department of Labor under Interagency Agreement No. 06-2063-36.

Table of Contents

| | |
|-----|--|
| i | Preface |
| ii | Acknowledgments |
| iv | Introduction |
| 1 | DISTRICT OF COLUMBIA |
| 11 | SMSA - WASHINGTON DC, DC, MARYLAND, VIRGINIA |
| | Technical Notes |
| T-1 | Introduction |
| T-1 | Footnotes |
| T-3 | Interpretation of Results |
| T-4 | Geographic Areas Covered by Report A |
| T-4 | Census Updating Methodology |
| T-5 | 1980 Census Data |
| T-7 | Current Population Survey |
| T-8 | Data Item Descriptions and Derivations |

Introduction

| | |
|-----------------------------------|--|
| Abstract | Report A, the results of the Census Updates Model, contains current socio-economic indicators. Five tables are presented for each geographic area. These tables, Table 5, Table 11, Table 17, Table 18, and Table 19 correspond to tables in Report 3: Social Indicators for Planning and Evaluation, which have proven to be the most useful for planning and evaluation purposes. All the tables are composed of data for each of the following ethnic and racial groups: Total Population; White, not Hispanic; Black, not Hispanic; Other Races, not Hispanic; and Hispanic, all races. The left half of each page contains original 1980 Census data; the right half of the page contains estimated percentages for 1983. For information on how these percentages should be used, see the "Technical Notes" at the end of this publication. At the state level only, these five tables are repeated with state or regional data from the 1980 and 1983 Current Population Survey (CPS) tapes. The updates for all the following areas in this report are based on these state or regional CPS estimates. |
| Geographic coverage | Areas covered by Report A include: State or State equivalent Standard Metropolitan Statistical Area (SMSA) Job Training Partnership Act (JTPA) Service Delivery Area See "Technical Notes, Geographic Areas Covered by Report A" for details. |
| Race/Hispanic origin | Census data on race and Hispanic origin were obtained through self-identification. Persons of Hispanic origin may be of any race. See also footnote (a) in the Technical Notes. |
| Footnotes | Letters shown in parentheses with labels or titles refer to footnotes beginning on page T-1. Letter-designated footnotes are specific to this report. Numbered footnotes are drawn directly from the Census Bureau's "Technical Documentation" cited below. Footnote numbers in the report follow the same numbering as that publication. |
| Symbols used in tables and charts | The three dot symbol "... " indicates data suppressed by the Census Bureau for zero or small number of individuals, or for complementary suppression. Estimated values for areas with suppression are identified by an "@" symbol. An asterisk "*" indicates data suppressed in the CPS data due to too small a sample size. See Table 20 and the "Technical Notes" at the end of this report for further explanation. |

Report A: Census Updates Model
Table 5: Household and Family Composition

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|--------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Persons | | | | | | | | | | |
| Persons in Households | 606538 | 148031 | 433893 | 8355 | 16259 | 97.48 | 89.10 | 97.56 | * | * |
| Householders | 254032 | 83309 | 160732 | 3596 | 6395 | 39.00 | 47.84 | 33.92 | * | * |
| In family Households | 460955 | 79168 | 364164 | 5723 | 11900 | 72.15 | 46.48 | 80.40 | * | * |
| Householders | 135569 | 29012 | 101729 | 1508 | 3320 | 19.70 | 17.02 | 20.27 | * | * |
| Spouse of Householder | 77094 | 23456 | 50187 | 1397 | 2054 | 11.00 | 13.18 | 9.73 | * | * |
| Child of Householder(7) | 178622 | 19926 | 152989 | 1853 | 3854 | 24.58 | 8.71 | 30.34 | * | * |
| Other Relatives(8) | 53887 | 3960 | 47735 | 563 | 1609 | 12.71 | 4.39 | 15.43 | * | * |
| Nonrelatives(9) | 15803 | 2814 | 11524 | 402 | 1063 | 4.16 | 3.17 | 4.63 | * | * |
| In Nonfamily Households | 145583 | 68863 | 69729 | 2632 | 4359 | 25.33 | 42.63 | 17.17 | * | * |
| Householders | 116463 | 54297 | 59003 | 2088 | 3075 | 18.79 | 30.28 | 13.23 | * | * |
| Nonrelatives(9) | 27120 | 14566 | 10726 | 544 | 1284 | 6.54 | 12.34 | 3.93 | * | * |
| Universe:Families(7) | | | | | | | | | | |
| Total Families | 135569 | 29012 | 101729 | 1508 | 3320 | 100.00 | 100.00 | 100.00 | * | * |
| With Own Children < 18 yrs(c) | 63866 | 9094 | 52633 | 608 | 1531 | 40.73 | 32.98 | 43.55 | * | * |
| Married-Couple Families | 32113 | 7470 | 23311 | 460 | 872 | 20.04 | 29.14 | 16.23 | * | * |
| Female Householder-No Hus | 28154 | 1311 | 26146 | 124 | 573 | 17.20 | 3.33 | 21.33 | * | * |
| Male Householder-No Wife | 3599 | 313 | 3176 | 24 | 86 | 3.49 | 0.51 | 6.00 | * | * |
| With Own Children < 6 yrs(c) | 24423 | 4168 | 19168 | 248 | 639 | 15.16 | 21.57 | 13.55 | * | * |
| Universe:Persons under 18 Years | | | | | | | | | | |
| Persons Under 18 Years | 143355 | 15861 | 122561 | 1521 | 3412 | 100.00 | 100.00 | 100.00 | * | * |
| Both Parents Present | 59655 | 12872 | 44128 | 1022 | 1633 | 38.14 | 69.02 | 30.34 | * | * |
| One Parent Present | 66112 | 2276 | 62224 | 281 | 1331 | 52.59 | 6.75 | 60.36 | * | * |
| Neither Parent Present | 17588 | 713 | 16209 | 218 | 448 | 9.27 | 4.23 | 9.31 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 5: Household and Family Composition
 (continued)

| | 1980 CPS Estimates for Washington D.C. | | | | | 1983 CPS Estimates for Washington D.C. | | | | |
|--|--|--------|--------|-------|----------|--|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Persons | | | | | | | | | | |
| Persons in Households | 601512 | 161044 | 419502 | * | * | 610283 | 161072 | 430540 | * | * |
| Householders | 259027 | 94239 | 156461 | * | * | 251247 | 90126 | 150754 | * | * |
| In family Households | 457801 | 83723 | 356782 | * | * | 452435 | 81607 | 359977 | * | * |
| Householders | 139997 | 32288 | 102676 | * | * | 131213 | 32413 | 95261 | * | * |
| Spouse of Householder | 77892 | 24426 | 49601 | * | * | 71689 | 23484 | 44777 | * | * |
| Child of Householder(7) | 185071 | 22821 | 156235 | * | * | 164238 | 17063 | 144225 | * | * |
| Other Relatives(8) | 44502 | 3851 | 39860 | * | * | 67732 | 7304 | 59997 | * | * |
| Nonrelatives(9) | 10340 | 337 | 8410 | * | * | 17563 | 1344 | 15718 | * | * |
| In Nonfamily Households | 143710 | 77321 | 62721 | * | * | 157848 | 79464 | 70583 | * | * |
| Householders | 119030 | 61950 | 53785 | * | * | 120034 | 57713 | 55493 | * | * |
| Nonrelatives(9) | 24680 | 15370 | 8936 | * | * | 37814 | 21751 | 15070 | * | * |
| Universe:Families(7) | | | | | | | | | | |
| Total Families | 139997 | 32288 | 102676 | * | * | 131213 | 32413 | 95261 | * | * |
| With Own Children < 18 yrs(c) | 65548 | 9055 | 52992 | * | * | 53077 | 9587 | 41370 | * | * |
| Married-Couple Families | 30484 | 6559 | 21855 | * | * | 24451 | 7882 | 14945 | * | * |
| Female Householder-No Hus | 32704 | 1740 | 29741 | * | * | 25686 | 1362 | 23828 | * | * |
| Male Householder-No Wife | 2360 | 756 | 1398 | * | * | 2940 | 343 | 2596 | * | * |
| With Own Children < 6 yrs(c) | 26499 | 4625 | 19813 | * | * | 20901 | 6711 | 13240 | * | * |
| Universe:Persons under 18 Years | | | | | | | | | | |
| Persons Under 18 Years | 139804 | 15657 | 118191 | * | * | 122021 | 14057 | 105421 | * | * |
| Both Parents Present | 55240 | 11551 | 39914 | * | * | 43804 | 12089 | 29721 | * | * |
| One Parent Present | 68892 | 4106 | 63031 | * | * | 67967 | 1198 | 66220 | * | * |
| Neither Parent Present | 15672 | 0 | 15246 | * | * | 10250 | 770 | 9480 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 11: Employed Persons by Major Industry Group
and Class of Worker

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|-------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Employed Civilians 16 Yrs + | | | | | | | | | | |
| Employed Persons | 298107 | 95290 | 187759 | 5051 | 10007 | 100.00 | 100.00 | 100.00 | * | * |
| Agriculture | 814 | 265 | 499 | 21 | 29 | 0.25 | 0.26 | 0.25 | * | * |
| Forestry and Fisheries | 135 | 54 | 81 | 0 | 0 | 0.04 | 0.05 | 0.04 | * | * |
| Mining | 169 | 81 | 88 | 0 | 0 | 0.05 | 0.08 | 0.04 | * | * |
| Construction | 10549 | 1591 | 8503 | 95 | 360 | 2.20 | 1.54 | 3.00 | * | * |
| Manufacturing-Nondurable Goods | 10338 | 3572 | 6429 | 131 | 206 | 1.98 | 1.73 | 2.30 | * | * |
| Manufacturing-Durable Goods | 3136 | 821 | 2195 | 62 | 58 | 0.49 | 0.80 | 0.55 | * | * |
| Transportation/Pub Utilities | 20959 | 3389 | 16938 | 242 | 410 | 13.10 | 6.52 | 15.41 | * | * |
| Wholesale Trade | 4028 | 925 | 2993 | 20 | 90 | 1.99 | 0.90 | 1.99 | * | * |
| Retail Trade | 30777 | 7828 | 20548 | 865 | 1538 | 9.35 | 9.71 | 8.38 | * | * |
| Finance-Insurance-Real Estate | 17302 | 6447 | 9652 | 439 | 764 | 4.03 | 4.54 | 3.70 | * | * |
| Business and Repair | 20595 | 7756 | 11930 | 361 | 548 | 9.08 | 15.02 | 7.15 | * | * |
| Private Household | 6212 | 579 | 4395 | 201 | 1037 | 2.67 | 0.96 | 4.40 | * | * |
| Other Personal Services | 10473 | 1471 | 7554 | 354 | 1094 | 4.34 | 2.85 | 5.35 | * | * |
| Entertainment and Recreation | 3537 | 1385 | 1760 | 79 | 313 | 2.18 | 2.68 | 1.07 | * | * |
| Medical and Health | 22285 | 5011 | 16485 | 281 | 508 | 4.72 | 3.53 | 5.37 | * | * |
| Education | 28376 | 10396 | 16789 | 466 | 725 | 5.93 | 5.03 | 6.75 | * | * |
| Welfare-Religious-Other Prof. | 32101 | 19668 | 10895 | 568 | 970 | 12.46 | 23.71 | 6.23 | * | * |
| Public Administration | 76321 | 24071 | 50027 | 866 | 1357 | 25.10 | 20.09 | 28.01 | * | * |
| Employed Persons | | | | | | | | | | |
| Private Wage and Salary | 164937 | 56381 | 97344 | 3463 | 7749 | 56.20 | 65.84 | 50.17 | * | * |
| Government | 120180 | 31092 | 85846 | 1264 | 1978 | 37.93 | 23.85 | 46.04 | * | * |
| Self-Employed | 12575 | 7691 | 4363 | 269 | 252 | 5.73 | 10.18 | 3.68 | * | * |
| Unpaid Family Worker | 415 | 126 | 208 | 55 | 28 | 0.14 | 0.13 | 0.11 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 11: Employed Persons by Major Industry Group
and Class of Worker
 (continued)

| | 1980 CPS Estimates for Washington D.C. | | | | | 1983 CPS Estimates for Washington D.C. | | | | |
|--|--|--------|--------|-------|----------|--|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Employed Civilians 16 Yrs + | | | | | | | | | | |
| Employed Persons | 299017 | 101521 | 185630 | * | * | 288601 | 101153 | 176946 | * | * |
| Agriculture | 290 | 0 | 290 | * | * | 0 | 0 | 0 | * | * |
| Forestry and Fisheries | 0 | 0 | 0 | * | * | 0 | 0 | 0 | * | * |
| Mining | 0 | 0 | 0 | * | * | 0 | 0 | 0 | * | * |
| Construction | 13640 | 867 | 11805 | * | * | 8791 | 0 | 7923 | * | * |
| Manufacturing-Nondurable Goods | 15853 | 6434 | 9419 | * | * | 9355 | 2929 | 6427 | * | * |
| Manufacturing-Durable Goods | 3092 | 982 | 1932 | * | * | 846 | 0 | 846 | * | * |
| Transportation/Pub Utilities | 12443 | 2129 | 9945 | * | * | 24313 | 6237 | 17227 | * | * |
| Wholesale Trade | 3036 | 0 | 3036 | * | * | 4633 | 603 | 3840 | * | * |
| Retail Trade | 31679 | 7763 | 22923 | * | * | 29723 | 9905 | 17793 | * | * |
| Finance-Insurance-Real Estate | 25111 | 12222 | 11878 | * | * | 18044 | 8865 | 8676 | * | * |
| Business and Repair | 16563 | 5430 | 9669 | * | * | 22543 | 11512 | 11031 | * | * |
| Private Household | 7138 | 288 | 4316 | * | * | 9487 | 490 | 8288 | * | * |
| Other Personal Services | 8922 | 1108 | 6320 | * | * | 11421 | 2280 | 8523 | * | * |
| Entertainment and Recreation | 777 | 281 | 496 | * | * | 1481 | 908 | 573 | * | * |
| Medical and Health | 25481 | 6512 | 18208 | * | * | 16674 | 4718 | 11289 | * | * |
| Education | 33705 | 12895 | 20407 | * | * | 21758 | 5261 | 15617 | * | * |
| Welfare-Religious-Other Prof. | 36456 | 23904 | 12309 | * | * | 43701 | 29659 | 13402 | * | * |
| Public Administration | 64831 | 20708 | 42679 | * | * | 65831 | 17786 | 45491 | * | * |
| Employed Persons | | | | | | | | | | |
| Private Wage and Salary | 172667 | 59585 | 103814 | * | * | 168696 | 65913 | 95832 | * | * |
| Government | 111447 | 32125 | 77258 | * | * | 100858 | 23340 | 74221 | * | * |
| Self-Employed | 14584 | 9494 | 4561 | * | * | 19048 | 11901 | 6893 | * | * |
| Unpaid Family Worker | 317 | 317 | 0 | * | * | 0 | 0 | 0 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 17: Income of Households

| Universe: Households(d) | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|-------------------------|---------------------|-------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Total Households | 254032 | 83309 | 160732 | 3596 | 6395 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$5,000 | 38929 | 6711 | 30592 | 636 | 990 | 10.49 | 6.46 | 12.26 | * | * |
| \$5,000 to \$7,499 | 18289 | 3955 | 13536 | 287 | 511 | 5.57 | 4.55 | 6.06 | * | * |
| \$7,500 to \$9,999 | 20360 | 4946 | 14271 | 406 | 757 | 6.17 | 4.34 | 6.91 | * | * |
| \$10,000 to \$12,499 | 21627 | 5747 | 14871 | 292 | 717 | 6.59 | 3.28 | 8.43 | * | * |
| \$12,500 to \$14,999 | 18765 | 5232 | 12748 | 221 | 584 | 5.78 | 2.98 | 7.47 | * | * |
| \$15,000 to \$17,499 | 18598 | 5676 | 12099 | 273 | 550 | 9.80 | 6.30 | 11.25 | * | * |
| \$17,500 to \$19,999 | 15603 | 5030 | 9876 | 218 | 479 | 4.47 | 4.98 | 3.64 | * | * |
| \$20,000 to \$22,499 | 14747 | 4937 | 9362 | 200 | 248 | 5.74 | 6.05 | 5.64 | * | * |
| \$22,500 to \$24,999 | 10622 | 3724 | 6571 | 115 | 212 | 5.43 | 2.96 | 7.88 | * | * |
| \$25,000 to \$27,499 | 11056 | 3967 | 6747 | 142 | 200 | 3.72 | 6.05 | 2.65 | * | * |
| \$27,500 to \$29,999 | 8213 | 2819 | 5195 | 93 | 106 | 3.67 | 1.61 | 5.96 | * | * |
| \$30,000 to \$34,999 | 14469 | 5983 | 7979 | 204 | 303 | 4.62 | 3.73 | 4.68 | * | * |
| \$35,000 to \$39,999 | 9899 | 4256 | 5308 | 144 | 191 | 6.90 | 6.66 | 6.36 | * | * |
| \$40,000 to \$49,999 | 13173 | 6533 | 6194 | 190 | 256 | 7.17 | 12.00 | 4.35 | * | * |
| \$50,000 or more | 19642 | 13793 | 5383 | 175 | 291 | 13.90 | 26.07 | 6.45 | * | * |

| Universe: Households(d) | 1980 CPS Estimates for Washington D.C. | | | | | 1983 CPS Estimates for Washington D.C. | | | | |
|-------------------------|--|-------|--------|-------|----------|--|-------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Total Households | 259028 | 94238 | 156460 | * | * | 251247 | 90127 | 150753 | * | * |
| Less than \$5,000 | 36545 | 5605 | 29009 | * | * | 24940 | 4526 | 18698 | * | * |
| \$5,000 to \$7,499 | 19044 | 5314 | 12886 | * | * | 14684 | 5124 | 9274 | * | * |
| \$7,500 to \$9,999 | 23950 | 6395 | 16566 | * | * | 18372 | 4705 | 12892 | * | * |
| \$10,000 to \$12,499 | 23895 | 6824 | 16490 | * | * | 18431 | 2934 | 15030 | * | * |
| \$12,500 to \$14,999 | 18935 | 5860 | 11825 | * | * | 14767 | 2641 | 10957 | * | * |
| \$15,000 to \$17,499 | 15386 | 6676 | 8579 | * | * | 20528 | 6217 | 12827 | * | * |
| \$17,500 to \$19,999 | 20248 | 7264 | 11965 | * | * | 14679 | 6036 | 7081 | * | * |
| \$20,000 to \$22,499 | 16601 | 4789 | 11812 | * | * | 16369 | 4920 | 11448 | * | * |
| \$22,500 to \$24,999 | 11822 | 7617 | 4205 | * | * | 15308 | 5083 | 10011 | * | * |
| \$25,000 to \$27,499 | 12774 | 4334 | 8440 | * | * | 10876 | 5541 | 5335 | * | * |
| \$27,500 to \$29,999 | 8914 | 4697 | 4217 | * | * | 10097 | 1838 | 7780 | * | * |
| \$30,000 to \$34,999 | 14692 | 4919 | 9073 | * | * | 11875 | 2574 | 8550 | * | * |
| \$35,000 to \$39,999 | 7070 | 2527 | 4066 | * | * | 12474 | 4313 | 8161 | * | * |
| \$40,000 to \$49,999 | 10625 | 6424 | 4201 | * | * | 14646 | 9901 | 4745 | * | * |
| \$50,000 or more | 18527 | 14993 | 3326 | * | * | 33201 | 23774 | 7964 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 18: Income of Families
and Unrelated Individuals

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|---|---------------------|-------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Total Families | 135589 | 29012 | 101729 | 1508 | 3320 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$2,500 | 7172 | 371 | 6478 | 85 | 240 | 2.95 | 1.66 | 3.11 | * | * |
| \$2,500 to \$4,999 | 8518 | 417 | 7885 | 74 | 142 | 5.30 | 0.69 | 7.07 | * | * |
| \$5,000 to \$7,499 | 8818 | 720 | 7705 | 113 | 278 | 6.58 | 2.29 | 7.91 | * | * |
| \$7,500 to \$9,999 | 9398 | 899 | 8014 | 128 | 357 | 3.47 | 2.07 | 3.93 | * | * |
| \$10,000 to \$12,499 | 10353 | 969 | 8887 | 117 | 400 | 8.39 | 6.29 | 9.51 | * | * |
| \$12,500 to \$14,999 | 9235 | 1024 | 7853 | 88 | 270 | 4.13 | 1.66 | 5.13 | * | * |
| \$15,000 to \$19,999 | 17315 | 2479 | 14074 | 210 | 552 | 13.78 | 4.32 | 15.77 | * | * |
| \$20,000 to \$24,999 | 13974 | 2407 | 11157 | 135 | 275 | 11.44 | 3.91 | 14.47 | * | * |
| \$25,000 to \$29,999 | 11453 | 2123 | 9055 | 129 | 146 | 8.94 | 9.09 | 8.45 | * | * |
| \$30,000 to \$39,999 | 15816 | 4357 | 10916 | 207 | 336 | 12.66 | 15.80 | 12.25 | * | * |
| \$40,000 to \$49,999 | 9218 | 3648 | 5267 | 110 | 193 | 6.90 | 15.40 | 3.82 | * | * |
| \$50,000 or more | 14301 | 9598 | 4460 | 112 | 131 | 15.47 | 36.81 | 8.57 | * | * |
| Universe: Unrelated Individuals 15 + (d) | | | | | | | | | | |
| Total Unrelated Individuals | 183578 | 87311 | 86015 | 3477 | 6775 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$3,000 | 44289 | 17415 | 23908 | 982 | 2004 | 23.85 | 22.64 | 23.91 | * | * |
| \$3,000 to \$4,999 | 18399 | 7454 | 9882 | 342 | 721 | 6.79 | 4.25 | 9.05 | * | * |
| \$5,000 to \$6,999 | 15079 | 6118 | 7835 | 236 | 890 | 6.89 | 7.89 | 5.55 | * | * |
| \$7,000 to \$7,999 | 7550 | 3088 | 3955 | 207 | 300 | 2.07 | 1.76 | 2.27 | * | * |
| \$8,000 to \$8,999 | 7119 | 2957 | 3636 | 143 | 383 | 3.84 | 1.69 | 5.87 | * | * |
| \$9,000 to \$9,999 | 7174 | 2651 | 4144 | 165 | 214 | 3.36 | 2.17 | 4.88 | * | * |
| \$10,000 to \$14,999 | 30187 | 13363 | 15343 | 527 | 954 | 14.41 | 9.19 | 18.91 | * | * |
| \$15,000 to \$24,999 | 33127 | 18587 | 13122 | 594 | 824 | 23.24 | 25.92 | 21.74 | * | * |
| \$25,000 or more | 20654 | 15678 | 4190 | 301 | 485 | 15.73 | 24.49 | 7.83 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 18: Income of Families
and Unrelated Individuals
(continued)

| | 1980 CPS Estimates for Washington D.C. | | | | | 1983 CPS Estimates for Washington D.C. | | | | |
|---|--|-------|--------|-------|----------|--|-------|-------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Total Families | 139996 | 32288 | 102674 | * | * | 131214 | 32412 | 95261 | * | * |
| Less than \$2,500 | 6988 | 683 | 6304 | * | * | 3735 | 947 | 2787 | * | * |
| \$2,500 to \$4,999 | 10223 | 837 | 8796 | * | * | 8257 | 427 | 7621 | * | * |
| \$5,000 to \$7,499 | 7809 | 1334 | 6014 | * | * | 7565 | 1314 | 5985 | * | * |
| \$7,500 to \$9,999 | 13525 | 1340 | 11673 | * | * | 6484 | 952 | 5533 | * | * |
| \$10,000 to \$12,499 | 8831 | 290 | 8139 | * | * | 9296 | 860 | 8436 | * | * |
| \$12,500 to \$14,999 | 11593 | 1598 | 8853 | * | * | 6741 | 469 | 5590 | * | * |
| \$15,000 to \$19,999 | 14926 | 2048 | 12048 | * | * | 15431 | 1103 | 13043 | * | * |
| \$20,000 to \$24,999 | 17028 | 4007 | 13020 | * | * | 18101 | 1792 | 16310 | * | * |
| \$25,000 to \$29,999 | 13306 | 3164 | 10144 | * | * | 13488 | 4188 | 9143 | * | * |
| \$30,000 to \$39,999 | 13969 | 2336 | 10745 | * | * | 14522 | 2618 | 11651 | * | * |
| \$40,000 to \$49,999 | 7009 | 3143 | 3866 | * | * | 6812 | 4101 | 2711 | * | * |
| \$50,000 or more | 14787 | 11508 | 3072 | * | * | 20782 | 13641 | 6471 | * | * |
| Universe: Unrelated Individuals 15 + (d) | | | | | | | | | | |
| Total Unrelated Individuals | 158779 | 83595 | 70488 | * | * | 167404 | 78126 | 80488 | * | * |
| Less than \$3,000 | 16526 | 3875 | 11348 | * | * | 16949 | 4129 | 11312 | * | * |
| \$3,000 to \$4,999 | 16707 | 5299 | 10098 | * | * | 11841 | 2348 | 9214 | * | * |
| \$5,000 to \$6,999 | 15932 | 6705 | 9100 | * | * | 13984 | 7089 | 6420 | * | * |
| \$7,000 to \$7,999 | 7417 | 3065 | 3969 | * | * | 2273 | 1357 | 916 | * | * |
| \$8,000 to \$8,999 | 5680 | 2536 | 2828 | * | * | 5883 | 465 | 4551 | * | * |
| \$9,000 to \$9,999 | 7649 | 4219 | 3269 | * | * | 6916 | 2837 | 3833 | * | * |
| \$10,000 to \$14,999 | 28857 | 14569 | 13801 | * | * | 26445 | 8208 | 16952 | * | * |
| \$15,000 to \$24,999 | 40371 | 27512 | 12539 | * | * | 54387 | 31442 | 20708 | * | * |
| \$25,000 or more | 18640 | 15815 | 3536 | * | * | 28726 | 20251 | 6582 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 19: Selected Poverty Indicators

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|--------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Below Poverty Level(e) | 20507 | 875 | 18882 | 221 | 529 | 17.28 | 4.76 | 21.14 | * | * |
| 100-124 Percent of Poverty | 5451 | 310 | 4856 | 80 | 205 | 4.11 | 1.37 | 4.74 | * | * |
| 125-149 Percent of Poverty | 5594 | 494 | 4807 | 79 | 214 | 5.24 | 1.77 | 5.55 | * | * |
| 150+ Percent of Poverty | 104017 | 27333 | 73184 | 1128 | 2372 | 73.38 | 92.10 | 68.57 | * | * |
| Below Poverty Level | | | | | | | | | | |
| Householder 15-59 Years Old | 17208 | 663 | 15898 | 179 | 470 | 14.91 | 3.75 | 18.62 | * | * |
| Householder 60+ Years Old | 3299 | 212 | 2986 | 42 | 59 | 2.38 | 1.01 | 2.52 | * | * |
| Householder Worked Full Time in 79 | | | | | | | | | | |
| Householder Worked Part Time in 79 | 2793 | 191 | 2499 | 39 | 64 | 2.67 | 0.85 | 3.56 | * | * |
| Householder Did Not Work in 79 | 4632 | 209 | 4139 | 69 | 215 | 4.60 | 0.70 | 6.00 | * | * |
| Householder Did Not Work in 79 | 13082 | 475 | 12244 | 113 | 250 | 10.00 | 3.20 | 11.58 | * | * |
| With Related Children <18 Years(7) | | | | | | | | | | |
| With Related Children <6 Years(c) | 16153 | 459 | 15148 | 149 | 397 | 13.76 | 3.88 | 16.40 | * | * |
| With Related Children <6 Years(c) | 8506 | 238 | 7938 | 65 | 265 | 7.14 | 1.36 | 8.31 | * | * |
| Universe: Persons(11) | | | | | | | | | | |
| Below Poverty Level(e) | 113356 | 13685 | 94960 | 1551 | 3160 | 23.46 | 9.37 | 28.39 | * | * |
| 100-124 Percent of Poverty | 27207 | 3636 | 21911 | 498 | 1162 | 4.96 | 3.96 | 4.95 | * | * |
| 125-149 Percent of Poverty | 27849 | 3635 | 22421 | 514 | 1079 | 4.09 | 4.57 | 4.10 | * | * |
| 150+ Percent of Poverty | 442042 | 130586 | 294649 | 5810 | 10997 | 65.02 | 73.13 | 61.33 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Under 16 Years | 33111 | 545 | 31513 | 269 | 784 | 5.74 | 0.34 | 7.83 | * | * |
| 16-17 Years | 5221 | 138 | 4930 | 63 | 90 | 1.63 | 0.09 | 2.09 | * | * |
| 18-21 Years | 10366 | 2047 | 7742 | 151 | 426 | 3.15 | 1.06 | 3.46 | * | * |
| 22-54 Years | 42317 | 7442 | 32602 | 823 | 1450 | 8.08 | 5.24 | 9.44 | * | * |
| 55-64 Years | 8945 | 961 | 7749 | 80 | 155 | 2.79 | 1.18 | 3.46 | * | * |
| 65 Years and Over | 13396 | 2552 | 10424 | 165 | 255 | 2.07 | 1.46 | 2.11 | * | * |
| 60 Years and Over | | | | | | | | | | |
| In Family Households | 17929 | 2983 | 14401 | 210 | 335 | 3.15 | 1.75 | 3.40 | * | * |
| In Family Households | 6423 | 448 | 5785 | 60 | 130 | 0.81 | 0.29 | 0.93 | * | * |
| In Nonfamily Households | 10739 | 1969 | 8421 | 149 | 200 | 2.22 | 1.09 | 2.43 | * | * |
| Living Alone | 8697 | 1612 | 6811 | 138 | 136 | 1.40 | 0.78 | 1.46 | * | * |
| Universe: Unrelated Individuals 15 Yrs +(d)(11) | | | | | | | | | | |
| Poverty Status Determined | 165302 | 75388 | 81301 | 3052 | 5561 | 100.00 | 100.00 | 100.00 | * | * |
| Below Poverty Level(e) | 38508 | 11511 | 24859 | 787 | 1371 | 27.59 | 16.51 | 37.72 | * | * |
| 15-59 Years Old | 26013 | 8903 | 15344 | 613 | 1153 | 18.68 | 13.92 | 24.91 | * | * |
| 60 Years and Over | 12495 | 2608 | 9515 | 154 | 218 | 8.91 | 2.59 | 12.81 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Worked Full Time in 1979 | 2842 | 797 | 1839 | 66 | 140 | 2.56 | 2.32 | 1.47 | * | * |
| Worked Part Time in 1979 | 11787 | 5714 | 5173 | 300 | 580 | 5.64 | 4.60 | 7.94 | * | * |
| Did Not Work in 1979 | 23899 | 5000 | 17847 | 401 | 651 | 19.39 | 9.59 | 28.31 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 19: Selected Poverty Indicators
 (continued)

| | 1980 CPS Estimates for Washington D.C. | | | | | 1983 CPS Estimates for Washington D.C. | | | | |
|--|--|--------|--------|-------|----------|--|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Below Poverty Level(e) | 21410 | 1258 | 19443 | * | * | 22938 | 1918 | 20524 | * | * |
| 100-124 Percent of Poverty | 6964 | 815 | 6149 | * | * | 6670 | 1012 | 5658 | * | * |
| 125-149 Percent of Poverty | 5151 | 0 | 4811 | * | * | 6128 | 893 | 5235 | * | * |
| 150+ Percent of Poverty | 106472 | 30218 | 72272 | * | * | 95479 | 28589 | 63844 | * | * |
| Below Poverty Level | | | | | | | | | | |
| Householder 15-59 Years Old | 17705 | 1258 | 15738 | * | * | 19537 | 1491 | 17552 | * | * |
| Householder 60+ Years Old | 3705 | 0 | 3705 | * | * | 3399 | 427 | 2972 | * | * |
| Householder Worked Full Time in 79 | 1898 | 326 | 1214 | * | * | 2364 | 434 | 1722 | * | * |
| Householder Worked Part Time in 79 | 3896 | 247 | 3298 | * | * | 5038 | 0 | 4752 | * | * |
| Householder Did Not Work in 79 | 15617 | 683 | 14934 | * | * | 15534 | 1484 | 14050 | * | * |
| With Related Children <18 Years(7) | 16784 | 247 | 15826 | * | * | 18173 | 1491 | 16188 | * | * |
| With Related Children <6 Years(c) | 8990 | 0 | 8889 | * | * | 9586 | 513 | 8797 | * | * |
| Universe: Persons(11) | | | | | | | | | | |
| Below Poverty Level(e) | 100936 | 8350 | 88443 | * | * | 131782 | 9256 | 119146 | * | * |
| 100-124 Percent of Poverty | 31388 | 5108 | 25874 | * | * | 36083 | 9001 | 26344 | * | * |
| 125-149 Percent of Poverty | 26674 | 1248 | 24748 | * | * | 24725 | 4333 | 20392 | * | * |
| 150+ Percent of Poverty | 449189 | 152279 | 281173 | * | * | 416823 | 138045 | 263716 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Under 16 Years | 37991 | 468 | 36625 | * | * | 42262 | 0 | 41469 | * | * |
| 16-17 Years | 4485 | 0 | 4485 | * | * | 9059 | 400 | 8659 | * | * |
| 18-21 Years | 7414 | 1240 | 5799 | * | * | 14462 | 1003 | 13180 | * | * |
| 22-54 Years | 36005 | 4680 | 28455 | * | * | 44145 | 5159 | 37551 | * | * |
| 55-64 Years | 3178 | 357 | 2821 | * | * | 10072 | 1254 | 8818 | * | * |
| 65 Years and Over | 11863 | 1604 | 10259 | * | * | 11762 | 1439 | 9469 | * | * |
| 60 Years and Over | 13940 | 1961 | 11979 | * | * | 15404 | 1867 | 12683 | * | * |
| In Family Households | 6450 | 0 | 6450 | * | * | 5414 | 427 | 4987 | * | * |
| In Nonfamily Households | 7277 | 1748 | 5528 | * | * | 9990 | 1439 | 7696 | * | * |
| Living Alone | 6756 | 1748 | 5008 | * | * | 5428 | 957 | 3615 | * | * |
| Universe: Unrelated Individuals 15 Yrs +(d)(11) | | | | | | | | | | |
| Poverty Status Determined | 158779 | 83596 | 70488 | * | * | 167404 | 78124 | 80489 | * | * |
| Below Poverty Level(e) | 22175 | 5971 | 13998 | * | * | 28324 | 6080 | 20456 | * | * |
| 15-59 Years Old | 14319 | 4010 | 8102 | * | * | 18334 | 4641 | 12759 | * | * |
| 60 Years and Over | 7855 | 1961 | 5894 | * | * | 9990 | 1439 | 7696 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Worked Full Time in 1979 | 1136 | 594 | 542 | * | * | 1855 | 1444 | 411 | * | * |
| Worked Part Time in 1979 | 7387 | 2790 | 2976 | * | * | 6409 | 1444 | 4320 | * | * |
| Did Not Work in 1979 | 13652 | 2587 | 10478 | * | * | 20060 | 3193 | 15726 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 20: Total Population Estimates
Fractions Suppressed in Census Data

1980 Census Data

| | Total | White | Black | Other | Hispanic |
|---------------------------------|--------|--------|--------|--------|----------|
| Total Households | 254032 | 83309 | 160732 | 3596 | 6395 |
| Total Families | 135569 | 29012 | 101729 | 1508 | 3320 |
| Total Persons | 638333 | 166803 | 444808 | 8945 | 17777 |
| Total unsuppressed persons | 638333 | 166803 | 444808 | 8945 | 17777 |
| Percentage unsuppressed persons | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

1980 CPS Data

| | Total | White | Black | Other | Hispanic |
|------------------|--------|--------|--------|-------|----------|
| Total Households | 259027 | 94239 | 156461 | • | • |
| Total Families | 139997 | 32288 | 102876 | • | • |
| Total Persons | 610653 | 166983 | 422705 | • | • |

1983 CPS Data

| | Total | White | Black | Other | Hispanic |
|------------------|--------|--------|--------|-------|----------|
| Total Households | 251247 | 90126 | 150754 | • | • |
| Total Families | 131213 | 32413 | 95261 | • | • |
| Total Persons | 610753 | 161072 | 430540 | • | • |

Data for DISTRICT OF COLUMBIA are based on the following 1 component areas ("+" is plus, "-" is minus):
 + DISTRICT OF COLUMBIA

Report A: Census Updates Model
Table 5: Household and Family Composition

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|---------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Persons | | | | | | | | | | |
| Persons in Households | 2991951 | 1976075 | 826612 | 98366 | 90898 | 98.88 | 97.84 | 97.88 | * | * |
| Householders | 1115399 | 767611 | 290745 | 28596 | 28447 | 35.08 | 35.60 | 32.19 | * | * |
| In family Households | 2541644 | 1657800 | 715219 | 89275 | 79350 | 82.61 | 81.37 | 83.23 | * | * |
| Householders | 760088 | 519114 | 198680 | 21891 | 20403 | 24.09 | 27.22 | 21.28 | * | * |
| Spouse of Householder | 594722 | 443329 | 112121 | 21683 | 17589 | 18.51 | 22.26 | 11.69 | * | * |
| Child of Householder(7) | 994924 | 616893 | 310445 | 36087 | 31499 | 29.86 | 24.09 | 33.09 | * | * |
| Other Relatives(8) | 147284 | 58938 | 74254 | 7551 | 6541 | 7.58 | 5.84 | 12.91 | * | * |
| Nonrelatives(9) | 44626 | 19526 | 19719 | 2063 | 3318 | 2.56 | 1.97 | 4.26 | * | * |
| In Nonfamily Households | 450307 | 318275 | 111393 | 9091 | 11548 | 16.27 | 16.47 | 14.45 | * | * |
| Householders | 355311 | 248497 | 92065 | 6705 | 8044 | 11.57 | 11.55 | 10.76 | * | * |
| Nonrelatives(9) | 94996 | 69778 | 19328 | 2386 | 3504 | 4.70 | 4.93 | 3.69 | * | * |
| Universe:Families(7) | | | | | | | | | | |
| Total Families | 760088 | 519114 | 198680 | 21891 | 20403 | 100.00 | 100.00 | 100.00 | * | * |
| With Own Children < 18 yrs(c) | 412970 | 265382 | 120373 | 14362 | 12833 | 47.86 | 52.99 | 52.53 | * | * |
| Married-Couple Families | 317469 | 227552 | 66807 | 12914 | 10196 | 36.24 | 48.13 | 25.15 | * | * |
| Female Householder-No Hus | 81079 | 30661 | 47090 | 1138 | 2190 | 9.06 | 4.22 | 20.77 | * | * |
| Male Householder-No Wife | 14422 | 7169 | 6476 | 330 | 447 | 2.56 | 0.63 | 6.61 | * | * |
| With Own Children < 6 yrs(c) | 161324 | 100428 | 47915 | 6798 | 6183 | 18.20 | 30.54 | 18.00 | * | * |
| Universe:Persons under 18 Years | | | | | | | | | | |
| Persons Under 18 Years | 822086 | 500264 | 262724 | 31056 | 28042 | 100.00 | 100.00 | 100.00 | * | * |
| Both Parents Present | 596364 | 421389 | 127006 | 26894 | 21075 | 69.49 | 91.26 | 41.89 | * | * |
| One Parent Present | 180464 | 63632 | 109089 | 2647 | 5096 | 26.16 | 5.91 | 50.77 | * | * |
| Neither Parent Present | 45258 | 15243 | 26629 | 1515 | 1871 | 4.35 | 2.83 | 7.34 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 11: Employed Persons by Major Industry Group
and Class of Worker

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|---------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Employed Civilians 18 Yrs + | | | | | | | | | | |
| Employed Persons | 1530954 | 1056184 | 381545 | 47698 | 46529 | 100.00 | 100.00 | 100.00 | * | * |
| Agriculture | 10985 | 9163 | 1557 | 111 | 134 | 0.88 | 0.78 | 0.39 | * | * |
| Forestry and Fisheries | 1202 | 982 | 170 | 22 | 28 | 0.07 | 0.08 | 0.04 | * | * |
| Mining | 1311 | 1059 | 235 | 12 | 5 | 0.08 | 0.09 | 0.06 | * | * |
| Construction | 85687 | 64342 | 16875 | 1794 | 2678 | 3.55 | 5.49 | 2.94 | * | * |
| Manufacturing-Nondurable Goods | 47980 | 32545 | 13085 | 1283 | 1087 | 1.82 | 1.39 | 2.32 | * | * |
| Manufacturing-Durable Goods | 39772 | 30703 | 6048 | 2033 | 990 | 1.23 | 2.62 | 0.75 | * | * |
| Transportation/Pub Utilities | 104299 | 62005 | 38049 | 2029 | 2218 | 12.94 | 10.58 | 17.10 | * | * |
| Wholesale Trade | 34722 | 27071 | 6331 | 653 | 667 | 3.41 | 2.31 | 2.08 | * | * |
| Retail Trade | 208295 | 148641 | 41977 | 10385 | 7292 | 12.57 | 16.24 | 8.45 | * | * |
| Finance-Insurance-Real Estate | 102370 | 74082 | 20052 | 3822 | 4414 | 4.73 | 4.80 | 3.80 | * | * |
| Business and Repair | 111906 | 81613 | 23340 | 3651 | 3302 | 9.79 | 13.93 | 6.91 | * | * |
| Private Household | 14941 | 3950 | 7334 | 705 | 2952 | 1.28 | 0.58 | 3.63 | * | * |
| Other Personal Services | 37674 | 19623 | 11967 | 2567 | 3517 | 3.10 | 3.35 | 4.19 | * | * |
| Entertainment and Recreation | 15884 | 11465 | 3205 | 377 | 837 | 1.95 | 1.96 | 0.96 | * | * |
| Medical and Health | 96172 | 56879 | 32377 | 4126 | 2790 | 4.05 | 3.53 | 5.21 | * | * |
| Education | 135632 | 92658 | 37130 | 3038 | 2806 | 5.63 | 3.95 | 7.37 | * | * |
| Welfare-Religious-Other Prof. | 139347 | 110794 | 20992 | 3705 | 3856 | 10.74 | 11.77 | 5.93 | * | * |
| Public Administration | 342795 | 227609 | 100823 | 7383 | 6980 | 22.38 | 16.74 | 27.88 | * | * |
| Employed Persons | | | | | | | | | | |
| Private Wage and Salary | 916125 | 651335 | 197602 | 32964 | 34224 | 60.54 | 69.03 | 50.20 | * | * |
| Government | 544587 | 346205 | 175782 | 12000 | 10600 | 33.33 | 24.10 | 46.47 | * | * |
| Self-Employed | 67058 | 55308 | 7745 | 2423 | 1582 | 5.92 | 6.64 | 3.22 | * | * |
| Unpaid Family Worker | 3184 | 2336 | 416 | 309 | 123 | 0.21 | 0.22 | 0.11 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 17: Income of Households

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--------------------------------|---------------------|--------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Households(d) | | | | | | | | | | |
| Total Households | 1115399 | 767611 | 290745 | 28598 | 28447 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$5,000 | 81427 | 35295 | 41151 | 2524 | 2457 | 4.50 | 3.57 | 8.69 | * | * |
| \$5,000 to \$7,499 | 47734 | 25029 | 19621 | 1431 | 1653 | 2.98 | 3.02 | 4.63 | * | * |
| \$7,500 to \$9,999 | 56570 | 30492 | 22364 | 1654 | 2060 | 3.52 | 2.81 | 5.70 | * | * |
| \$10,000 to \$12,499 | 70448 | 40202 | 25735 | 2094 | 2417 | 4.40 | 2.41 | 7.88 | * | * |
| \$12,500 to \$14,999 | 65971 | 39423 | 22813 | 1697 | 2038 | 4.17 | 2.36 | 7.04 | * | * |
| \$15,000 to \$17,499 | 73312 | 46554 | 22606 | 1944 | 2208 | 7.92 | 5.43 | 11.07 | * | * |
| \$17,500 to \$19,999 | 66879 | 43990 | 19253 | 1725 | 1911 | 3.93 | 4.58 | 3.73 | * | * |
| \$20,000 to \$22,499 | 72052 | 49505 | 18850 | 1976 | 1721 | 5.76 | 6.37 | 5.99 | * | * |
| \$22,500 to \$24,999 | 59069 | 42208 | 13818 | 1625 | 1420 | 6.20 | 3.53 | 8.72 | * | * |
| \$25,000 to \$27,499 | 62911 | 45281 | 14775 | 1540 | 1315 | 4.34 | 7.25 | 3.08 | * | * |
| \$27,500 to \$29,999 | 51214 | 37504 | 11237 | 1320 | 1153 | 4.70 | 2.25 | 6.79 | * | * |
| \$30,000 to \$34,999 | 98913 | 75002 | 19266 | 2474 | 2171 | 6.48 | 4.92 | 5.95 | * | * |
| \$35,000 to \$39,999 | 76864 | 60401 | 13035 | 1876 | 1572 | 10.99 | 12.91 | 8.23 | * | * |
| \$40,000 to \$49,999 | 106602 | 87777 | 14731 | 2097 | 1997 | 11.91 | 16.95 | 5.45 | * | * |
| \$50,000 or more | 125413 | 108950 | 11490 | 2619 | 2354 | 18.21 | 21.64 | 7.25 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 18: Income of Families
and Unrelated Individuals

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|---|---------------------|--------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Total Families | 760088 | 519114 | 198680 | 21891 | 20403 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$2,500 | 15565 | 4948 | 9219 | 755 | 643 | 1.07 | 1.26 | 2.21 | * | * |
| \$2,500 to \$4,999 | 19156 | 6307 | 11598 | 667 | 584 | 1.99 | 0.59 | 5.20 | * | * |
| \$5,000 to \$7,499 | 23287 | 9640 | 11742 | 941 | 964 | 2.90 | 1.75 | 6.02 | * | * |
| \$7,500 to \$9,999 | 28670 | 12847 | 13564 | 1030 | 1229 | 1.77 | 1.68 | 3.32 | * | * |
| \$10,000 to \$12,499 | 36556 | 17824 | 15812 | 1394 | 1526 | 4.95 | 6.58 | 8.47 | * | * |
| \$12,500 to \$14,999 | 35938 | 18917 | 14566 | 1151 | 1304 | 2.69 | 1.75 | 4.76 | * | * |
| \$15,000 to \$19,999 | 82235 | 48980 | 27832 | 2589 | 2854 | 10.93 | 4.85 | 15.58 | * | * |
| \$20,000 to \$24,999 | 88238 | 59459 | 23596 | 2825 | 2358 | 12.06 | 5.49 | 15.28 | * | * |
| \$25,000 to \$29,999 | 84806 | 60140 | 20270 | 2415 | 1981 | 11.05 | 14.64 | 9.45 | * | * |
| \$30,000 to \$39,999 | 143739 | 109288 | 27374 | 3834 | 3243 | 19.22 | 22.53 | 15.35 | * | * |
| \$40,000 to \$49,999 | 91750 | 75090 | 13094 | 1884 | 1682 | 11.47 | 18.02 | 4.75 | * | * |
| \$50,000 or more | 110148 | 95694 | 10013 | 2406 | 2035 | 19.91 | 20.86 | 9.61 | * | * |
| Universe: Unrelated Individuals 15 + (d) | | | | | | | | | | |
| Total Unrelated Individuals | 534178 | 367256 | 138143 | 11988 | 16811 | 100.00 | 100.00 | 100.00 | * | * |
| Less than \$3,000 | 88547 | 48499 | 32866 | 3023 | 4139 | 15.91 | 15.45 | 19.91 | * | * |
| \$3,000 to \$4,999 | 44618 | 28208 | 13576 | 1043 | 1791 | 5.54 | 3.94 | 7.52 | * | * |
| \$5,000 to \$6,999 | 43370 | 27780 | 12330 | 955 | 2305 | 6.87 | 8.78 | 5.28 | * | * |
| \$7,000 to \$7,999 | 20915 | 13522 | 6075 | 534 | 784 | 1.93 | 1.89 | 2.11 | * | * |
| \$8,000 to \$8,999 | 21442 | 14219 | 5985 | 539 | 699 | 3.89 | 1.99 | 5.85 | * | * |
| \$9,000 to \$9,999 | 21451 | 13559 | 6661 | 525 | 706 | 3.40 | 2.73 | 4.74 | * | * |
| \$10,000 to \$14,999 | 106636 | 73681 | 28045 | 2138 | 2772 | 17.12 | 12.41 | 20.93 | * | * |
| \$15,000 to \$24,999 | 120811 | 91049 | 25032 | 2201 | 2529 | 26.52 | 31.10 | 25.11 | * | * |
| \$25,000 or more | 66388 | 56739 | 7553 | 1010 | 1086 | 17.01 | 21.72 | 8.54 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 19: Selected Poverty Indicators

| | 1980 Census Data(b) | | | | | 1983 Estimated Percentages, by Race based on CPS data from Washington D.C. | | | | |
|--|---------------------|---------|--------|-------|----------|---|--------|--------|-------|----------|
| | Total | White | Black | Other | Hispanic | Total | White | Black | Other | Hispanic |
| Universe: Families(d) | | | | | | | | | | |
| Below Poverty Level(e) | 45492 | 13914 | 27837 | 2007 | 1734 | 7.01 | 4.24 | 16.12 | * | * |
| 100-124 Percent of Poverty | 15849 | 6159 | 8176 | 800 | 714 | 2.18 | 1.53 | 4.13 | * | * |
| 125-149 Percent of Poverty | 17122 | 7460 | 7996 | 812 | 854 | 2.93 | 1.49 | 4.77 | * | * |
| 150+ Percent of Poverty | 681625 | 491581 | 154671 | 18272 | 17101 | 87.88 | 92.74 | 74.97 | * | * |
| Below Poverty Level | | | | | | | | | | |
| Householder 15-59 Years Old | 39232 | 11904 | 23925 | 1842 | 1561 | 6.19 | 3.71 | 14.43 | * | * |
| Householder 60+ Years Old | 6260 | 2010 | 3912 | 165 | 173 | 0.82 | 0.53 | 1.70 | * | * |
| Householder Worked Full Time in 79 | 9057 | 3867 | 4410 | 406 | 374 | 1.54 | 1.05 | 3.17 | * | * |
| Householder Worked Part Time in 79 | 12965 | 4446 | 7084 | 750 | 685 | 2.29 | 0.91 | 5.17 | * | * |
| Householder Did Not Work in 79 | 23470 | 5601 | 16343 | 851 | 675 | 3.18 | 2.28 | 7.79 | * | * |
| With Related Children <18 Years(7) | 35945 | 10182 | 22856 | 1546 | 1361 | 5.59 | 3.88 | 12.84 | * | * |
| With Related Children <6 Years(c) | 19089 | 5202 | 12215 | 926 | 746 | 2.93 | 1.33 | 6.64 | * | * |
| Universe: Persons(11) | | | | | | | | | | |
| Below Poverty Level(e) | 245232 | 86565 | 138019 | 10703 | 9945 | 10.95 | 5.01 | 22.14 | * | * |
| 100-124 Percent of Poverty | 76708 | 32865 | 36666 | 3745 | 3432 | 3.01 | 3.02 | 4.44 | * | * |
| 125-149 Percent of Poverty | 80360 | 35953 | 36489 | 3883 | 4035 | 2.55 | 3.62 | 3.58 | * | * |
| 150+ Percent of Poverty | 2590700 | 1823566 | 613694 | 79909 | 73531 | 82.19 | 86.23 | 68.53 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Under 16 Years | 72640 | 18384 | 48480 | 3124 | 2652 | 2.71 | 0.96 | 6.47 | * | * |
| 16-17 Years | 11277 | 3112 | 7328 | 415 | 422 | 0.76 | 0.16 | 1.67 | * | * |
| 18-21 Years | 24969 | 10922 | 11741 | 1073 | 1233 | 1.63 | 0.48 | 2.82 | * | * |
| 22-54 Years | 96151 | 38390 | 47854 | 5272 | 4635 | 3.95 | 2.30 | 7.44 | * | * |
| 55-64 Years | 16303 | 5780 | 9809 | 340 | 374 | 1.09 | 0.61 | 2.35 | * | * |
| 65 Years and Over | 23892 | 9977 | 12807 | 479 | 629 | 0.79 | 0.49 | 1.39 | * | * |
| 60 Years and Over | 32128 | 12798 | 17864 | 648 | 798 | 1.21 | 0.63 | 2.25 | * | * |
| In Family Households | 12369 | 4006 | 7592 | 412 | 359 | 0.34 | 0.22 | 0.66 | * | * |
| In Nonfamily Households | 18613 | 7866 | 10097 | 235 | 415 | 0.84 | 0.36 | 1.57 | * | * |
| Living Alone | 15328 | 6732 | 8105 | 204 | 287 | 0.54 | 0.28 | 0.93 | * | * |
| Universe: Unrelated Individuals 15 Yrs +(d)(11) | | | | | | | | | | |
| Poverty Status Determined | 495982 | 340675 | 129368 | 11028 | 14911 | 100.00 | 100.00 | 100.00 | * | * |
| Below Poverty Level(e) | 81971 | 41828 | 33573 | 2879 | 3691 | 19.90 | 13.31 | 32.52 | * | * |
| 15-59 Years Old | 60619 | 32643 | 22154 | 2607 | 3215 | 14.74 | 11.30 | 22.79 | * | * |
| 60 Years and Over | 21352 | 9185 | 11419 | 272 | 476 | 5.16 | 2.02 | 9.74 | * | * |
| Below Poverty Level(e) | | | | | | | | | | |
| Worked Full Time in 1979 | 7824 | 4182 | 2871 | 321 | 450 | 2.46 | 2.59 | 1.48 | * | * |
| Worked Part Time in 1979 | 30417 | 19755 | 8054 | 1101 | 1507 | 5.08 | 3.39 | 7.95 | * | * |
| Did Not Work in 1979 | 43730 | 17891 | 22648 | 1457 | 1734 | 12.36 | 7.33 | 23.10 | * | * |

For meaning of symbols, see introduction. For footnotes and definitions, see Technical notes.

Report A: Census Updates Model
Table 20: Total Population Estimates
Fractions Suppressed in Census Data

1980 Census Data

| | Total | White | Black | Other | Hispanic |
|---------------------------------|---------|---------|--------|--------|----------|
| Total Households | 1115399 | 767611 | 290745 | 28596 | 28447 |
| Total Families | 760088 | 519114 | 198680 | 21891 | 20403 |
| Total Persons | 3060922 | 2021230 | 846407 | 99802 | 93483 |
| Total unsuppressed persons | 3060922 | 2021230 | 846407 | 99802 | 93483 |
| Percentage unsuppressed persons | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Data for SMSA - WASHINGTON DC are based on the following 3 component areas ("+" is plus, "-" is minus):
+ WASHINGTON DC SMSA, DC PORT. + WASHINGTON DC SMSA, MD PORT. + WASHINGTON DC SMSA, VA PORT.

Technical Notes

Introduction

Footnotes

Introduction

These Technical Notes provide various types of information necessary for interpretation of data items in Report A. They cite references to more technical and detailed discussions of the methodology underlying the model and of both data sources used by the model - the 1980 census data and the Annual Demographic File of the Current Population Survey (CPS). They also provide footnotes for Report A and describe limitations of the model. The methodology underlying the Census Updates Model is described in detail in "The Labor Market Projections Model - Updating Census with Current Population Survey Data at Lawrence Berkeley Laboratory" by Linda Kwok, August 1980, LBL-11350.

Two major reference publications which describe in detail the 1980 Census are PHC80-R1-A, "Users' Guide Part A. Text, Part B. Glossary" (cited below as the 1980 census "Users' Guide"), and the "Census of Population and Housing, 1980: Summary Tape File 4 Technical Documentation" (cited below as "STF4 Technical Documentation"). The "Users' Guide" provides general information about the census, how data were collected, what questions were asked, etc., and provides an excellent overview of available publications, data, and services. The "STF4 Technical Documentation" provides detailed information about the specific computer files that were used to produce this report. The Glossaries of these Census Bureau publications provide detailed explanations for most of the terms used in this report.

There are two major reference publications which describe the CPS in detail. "The Current Population Survey - Design and Methodology", Technical Paper 40, contains a complete and comprehensive description of the survey design and methodology of the CPS. "Current Population Survey, March 1983 Tape Technical Documentation", prepared by the Data User Services Division, Data Access and Use Staff, contains technical documentation regarding what

is actually on the tape.

The two 1980 Census publications are available in many libraries. They may all be ordered from the following source:

Data User Services Division
Data Access and Use Staff
Bureau of the Census
Washington, D.C. 20233
Telephone: (301) 763-2074

Footnotes

Letter-designated footnotes appearing in the tables describe items that are unique to this report. Numbered footnotes shown in the tables are taken directly from the "STF4 Technical Documentation." Census Bureau footnotes which do not pertain to data items in this report have been omitted.

Footnote (a)

Race/ethnic categories in Report A are taken directly from the Census Bureau, except that the categories "American Indian, Eskimo, and Aleut, Not of Spanish Origin", "Asian and Pacific Islander, Not of Spanish Origin" and "Other (Race, n.e.c), Not of Spanish Origin" have been combined into "Other Races, Not of Spanish Origin".

All Census data were derived from population "A" records and population "B" records of STF4. Data for the following race/ethnic groups were obtained from the population "B" records:

Total Population
White, Not Hispanic
Black, Not Hispanic
Hispanic, All Races

For each data item, the fourth race/ethnic category "Other Races, Not Hispanic" is then calculated as "Total Population" less "White, Not Hispanic", "Black, Not Hispanic" and "Hispanic, All Races". The four race/ethnic categories are

mutually exclusive and exhaustive subsets which add to the total population. If one of the three race/ethnic groups "White, Not of Spanish Origin", "Black, Not of Spanish Origin", or "Hispanic, All Races" is suppressed, the total number of persons in the suppressed group is obtained from the population "A" records. Please see the Section on Data Item Suppression for details on how the suppressed data items are estimated.

Note that "Hispanic" is treated as a "race" category for the purposes of this report, and other racial groups explicitly exclude Hispanic persons.

Footnote (b)

Census data items in this report are taken from STF4, which contains statistical estimates based on sample data from the 1980 census. That is, they are estimates of actual figures that would have resulted if a complete count had been done for the sample questions. Estimates can be expected to vary from the complete-count result because of sampling error. Such variability is relatively small for large counts but large for small counts.

Footnote (c)

"Families with own children under 6 years" includes families who have only children under 6 years old as well as families with children under 6 and also children 6 through 17 years old.

Footnote (d)

Table 5 shows the number of persons in households and family households as components of the total population. The concepts of households, families, unrelated individuals, and persons are summarized below. See also the explanation of different relationships under footnotes (7), (8), and (9) below. For a more complete discussion, see the separate headings in the "STF4 Technical Documentation" Glossary.

Technical Notes Footnotes (continued)

Household - The person or persons occupying a housing unit. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements (except for group quarters).

Householder - The person who was reported in column 1 of the 1980 census questionnaire for the household. This reference person was to be the person or one of the persons in whose name the home was owned or rented. If there was no such person, any adult household member at least 15 years old who was not a roomer, boarder, or paid employee was to be reported in column 1.

Family Household - A household including a family. A family household may also include nonrelatives living with the family.

Nonfamily Household - A household consisting of a person living alone or of a householder living with other unrelated individuals.

Family - Two or more persons, including the householder, who are related by birth, marriage, or adoption, and who live together as one household; all such persons are considered as members of one family. (Persons not in families and not inmates of institutions are classified as unrelated individuals.) If the son/daughter of the person or couple who maintains the household and the son's or daughter's spouse and/or children are members of the household, they are treated as part of the householder's family and referred to as a subfamily. Since subfamily members are counted as part of the householder's family, the number of subfamilies is not included in the count of families per se. A roomer/boarder and his/her spouse or a resident employee and his/her spouse living in are not counted as a family, but as individuals unrelated to the householder. Thus a household can contain only one family for purposes of census tabulations.

Unrelated Individual - An unrelated individual may be (1) a householder living alone or only with

persons not related to him or her, (2) a roomer, boarder, partner, roommate, or resident employee unrelated to the householder, or (3) a group quarters member who is not an inmate of an institution.

Footnote (e)

Families and unrelated individuals are classified with reference to the poverty level by comparing their total 1979 income to an income cutoff or "poverty threshold." The income cutoffs depend upon family size, number of children, and age of the family householder or unrelated individual, as indicated in the table below. Poverty status is determined for all families (and, by implication, all family members). Poverty status is also determined for persons not in families, except for inmates of institutions, members of the Armed Forces living in barracks, college students living in dormitories, and unrelated individuals under 15 years old.

The 1980 census definition of poverty reflects revisions recommended by a Federal interagency committee in 1979 to a definition adopted in 1969. The index is based on the Department of Agriculture's 1961 Economy Food Plan and reflects the different consumption requirements of families based on their size and composition. It was determined from the Department of Agriculture's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; the poverty level for these families was, therefore, set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher in order to compensate for the relatively larger fixed expenses of these smaller households.

The poverty thresholds are updated every year to reflect changes in the Consumer Price Index (CPI). Cutoffs for 1979 income used in poverty statistics in the 1980 census are summarized below. This table does not give the full breakdown by number

of related children, but rather weighted average thresholds. For the full table, see the discussion of "Poverty" in the "STF4 Technical Documentation" Glossary.

| <u>Size of Family Unit</u> | <u>Weighted Avg Thresholds</u> |
|---------------------------------|------------------------------------|
| 1 person (unrelated individual) | \$3,686 |
| under 65 years | 3,774 |
| 65 years and over | 3,479 |
| 2 persons | 4,723 |
| householder under 65 years | 4,876 |
| householder 65 years and over | 4,389 |
| 3 persons | 5,787 |
| 4 persons | 7,412 |
| 5 persons | 8,776 |
| 6 persons | 9,915 |
| 7 persons | 11,237 |
| 8 persons | 12,484 |
| 9 or more persons | 14,812 |

As an example, the average poverty threshold for a family of four can be found in the above table to be \$7,412 in 1979. The actual thresholds range from \$7,382 with three related children under 18 to \$7,605 with one related child under 18 years.

Poverty thresholds are computed on a national basis only. No attempt has been made to adjust these thresholds for regional, State, or other local variations in the cost of living.

The poverty status of a person who is a family member is determined by the family income and its relationship to the appropriate poverty threshold for that family. The poverty status of an unrelated individual is determined by his or her own income in relation to the appropriate poverty threshold. Thus, two unrelated individuals living together may not have the same poverty status.

Households below the poverty level are defined as households in which the total income of the family, or the income of the householder of a nonfamily household, is below the poverty level.

**Technical Notes
Footnotes (continued)
Interpretation of Results**

The incomes of persons in the household other than members of the family, or other than the householder in a nonfamily household, are not taken into account when determining poverty status of a household.

Because the poverty levels currently in use by the Federal Government do not meet all the needs of analysts who use the data, variations of the poverty definition are available in terms of various multiples of the official poverty levels. For example, Table 19 includes several items which pertain to "100%-124% of poverty level", where a family or person had from 1 to 25 percent more 1979 income than the poverty threshold appropriate for the family size, etc.

In order to assess the impact of public assistance and social security payments, there are also several items which show how many individuals or families whose 1979 income was above the appropriate poverty threshold would have been below it had they not had those types of income.

Limitations: The term "poverty" connotes a complex set of economic, social, and psychological conditions. The standard statistical definition provides only estimates of economic poverty based on the receipt of money income before taxes. Excluded from the income concept is a measure of the benefits derived from the receipt of in-kind government transfers, such as food stamps, Medicaid, and public housing; private transfers such as health insurance premiums paid by employers; the value of the services obtained from the ownership of assets, such as owner-occupied housing units; and the receipt of money from the sale of property, withdrawal of bank deposits, gifts and money borrowed.

A comprehensive review of the current poverty definition and its limitations can be found in The Measure of Poverty, U.S. Department of Health, Education, and Welfare, April 1976. See also the discussion of limitations under "Income in 1979" in the "STF4 Technical Documentation" Glossary.

Footnote (7)

A "child of householder" includes any son, daughter, stepchild, or adopted child of the householder. An "own child of householder" is a never-married child under 18 years of age who is a son, daughter, stepchild, or adopted child of the householder. "Related children" include not only own children but also all other family members, regardless of marital status, who are under 18 years old, except the householder or spouse. Foster children are included in the "nonrelative" category.

In subfamilies, an "own child" is a never-married child under 18 years of age who is a son, daughter, stepchild, or adopted child of a mother in a mother-child subfamily, of a father in a father-child subfamily, or of either spouse in a married-couple subfamily.

Footnote (8)

Relatives include householder, spouse, and the questionnaire categories: "Son/daughter," "Brother/sister," "Father/mother," and "Other relative." Tabulations of "Other relatives" include all other categories not explicitly listed.

Footnote (9)

"Nonrelatives" include the questionnaire categories: "Roomer, boarder," "Partner, roommate," "Paid employee," and "Other nonrelative." Tabulations of "Nonrelatives" include all other categories not explicitly listed.

Footnote (11)

Tabulations of poverty status exclude inmates of institutions, persons in military group quarters, and in college dormitories and unrelated individuals under 15 years.

Interpretation of Results

In each row, the model estimates the percent of persons, families or households in a particular race/ethnic group that falls into the category listed at the far left in the row stub. To convert each percent to a number, it must be multiplied by a number representing the universe upon which this particular table or subtable is based. For each subtable, the universe is printed in boldface over the rows to which it applies. Furthermore, in many subtables, the first row corresponds to the universe.

The following example based on the last subtable in Table 5 may make the above clearer. This subtable shows for the population under 18 years of age, how many live with both parents, how many with one parent, and how many with neither parent.

| | Sample Table 5 | | |
|----------------------------|----------------|-------|-------|
| | Total | White | Black |
| Universe: Persons under 18 | | | |
| Persons under 18 | 100.0 | 100.0 | 100.0 |
| Both Parents Pres | 68.5 | 79.4 | 40.8 |
| One Parent Pres | 28.0 | 18.1 | 52.7 |
| Neither Parent Pres | 3.5 | 2.5 | 6.5 |

Thus, in this county, of all the white persons under 18 years of age, 79.4% live with both of their parents, 18.1% live with one of their parents, and 2.5% live with neither parent.

To obtain an estimate of the actual number of white persons under 18 living with one or both of their parents, it is necessary to obtain an estimate of the number of whites under 18 years of age in 1983. One possible source of this number is the Population Projections Model of the LMPM for 1983.

For all substate areas, the five tables in Report A show the 1980 Census data and the Estimated Percentages for 1983. For the state, the five tables

Technical Notes

Interpretation of Results (continued)

Geographic Areas Covered by Report A

Census Updating Methodology

are repeated with 1980 and 1983 state-level CPS data if the updates are based on state-level data, or with 1980 and 1983 CPS data for the Federal Region containing the state if the updates are based upon regional data. The Estimated Percentages for 1983 are based upon changes in these numbers. A comparison of the 1980 and 1983 state or regional-level CPS data will show how complete the CPS coverage is.

Geographic Areas Covered by Report A

The Report A series provides data for government and census geographic areas described below. For a detailed discussion of census geographic areas, including hierarchical relationships, historical comparability, and availability of maps, see Chapter 4 of the 1980 census "Users' Guide" and the "File Description" section of the "STF4 Technical Documentation."

For each state (and the District of Columbia) and the geographic subareas contained in that state, one report is produced generating updates for 1983 based upon state-level data. If desired, the same report can be redone generating updates using regional data.

States

A total of 51 reports present data for the states and the District of Columbia.

Standard Metropolitan Statistical Areas

Updates are done for the 350 Standard Metropolitan Statistical Areas (SMSA's). All SMSA's are made up of one or more counties except in New England, where towns and cities are the basic units. An SMSA is a large population nucleus and nearby communities which have a high degree of economic and social integration with that nucleus. SMSA boundaries may change from year to year. Data are for SMSA's defined in June 1981 by the Office of Management and Budget.

The updates for a particular SMSA are contained

in the report for the state containing that SMSA. For an SMSA that crosses state lines, the updates are contained in the report for the state that contains most of the SMSA.

U.S. by ETA/JTPA Service Delivery Area

Updates are also prepared for the approximately 700 Job Training Partnership Act (JTPA) Service Delivery Areas (SDA's) that are neither states nor SMSA's. Each SDA is a local government with 200,000 or more population, or any consortium of contiguous units of general local government with an aggregate population of 200,000 or more which constitutes a substantial part of a labor market area. In addition, the governor of a state may designate SDA's which constitute a substantial part of a labor market area, without regard to population limits.

Data for some of the SDAs are not immediately available from the Census Bureau. These data were then obtained by aggregating from areas that are available on the STF4 data tapes, such as cities and counties. For information on the estimation procedures used for such areas, please see the special section on "Data Aggregation for Composite Areas".

Census Updating Methodology

These reports provide updated socio-economic characteristics at the local level by using data from the 1980 Census, from the 1980 CPS and from the 1983 CPS (the latest CPS). Before using the estimates, users should understand the assumptions used in developing the numbers and the data characteristics, definitions, and limitations of the two main underlying data sources - the 1980 Census and the CPS.

Relatively current socio-economic indicators at the local level can be obtained by updating census tables using the CPS data. The census has the desired data at the desired geographic level but it is outdated. The CPS is a household sample survey conducted monthly by the Bureau of the Census.

It was designed to produce timely estimates on a sample basis with measured reliability for labor force data monthly for the nation.

The Census Updates model combines the timeliness of the CPS with the geographic detail of the 1980 Census. The basic assumption of the model is that changes at the local level are the same as at the state or regional level. By comparing the CPS estimates for the census year and the target year, it is possible to estimate changes at the state or regional level. This change is then applied to the corresponding tabulation of the census at the local level. The result is an estimate of local conditions in the target year. In summary, for each local area, the 1980 Census data are updated by the CPS updating factors for the state or the region in which the particular area is located.

This procedure depends on a careful comparison of census data items with CPS data items. Considerable study is needed in order to duplicate 1980 Census tabulations with CPS data as the definitions in the two sources are not always the same.

The following procedure is used once for each of the five race/ethnic groups in each geographic area.

- 1) Extract 1980 Census data on the selected socio-economic characteristics.
- 2) Tabulate the 1980 CPS and the most current CPS to obtain tabulations similar to those extracted from the 1980 Census.
- 3) If the entries in a particular group or subtable do not add up to the universe on which the subtable is based, an extra row is added to the table. This row will estimate that portion of the universe for which estimates are not made explicitly. This row is needed for calculation purposes. (See step (7).)
- 4) Convert each entry in the Census and CPS tables to a percent of the universe for that race/ethnic group.

Technical Notes Census Updating Methodology (continued) 1980 Census Data

- 5) For each table entry, calculate the ratio of the percentage of the latest CPS (1983) to the percentage of the 1980 CPS.
- 6) Multiply each entry in the 1980 Census table of percents, by the corresponding ratio as calculated in step (5).
- 7) Normalize the updated percents so that all the entries in each column add up to 100%. This is always possible due to the addition of extra rows in step (3).

For more details on the methodology used, refer to "The Labor Market Projections Model - Updating Census with Current Population Survey Data at Lawrence Berkeley Laboratory" by Linda Kwok, August 1980.

Assumptions of Updating Methodology

The basic assumption of the updating procedure is that the proportion of individuals in a given category changes at the same rate from 1980 to the target year as does the proportion measured by the CPS. In addition to being limited by this restrictive assumption, the updating methodology suffers severely from the limitations of available data.

Problems with Updating Methodology

An obvious criticism to the procedure is that regional and state CPS data are used to update local data from the 1980 Census. In other words, the CPS and Census tables cover different areas. It is unlikely that the local-area change is the same as that of the state or region; however, it may be the best general approximation in the absence of any other data for a given locality.

Since Census and CPS data are of a different nature, differences between Census and CPS definitions do exist for various categories. These discrepancies may affect the validity of the results. However, utmost care has been taken to resolve all inconsistencies in definition and this problem should be small.

Due to the survey nature of the CPS, problems can arise when the underlying sample is small. These problems are more prevalent when state-level data are being used for updating rather than regional data, and also when the smaller race/ethnic groups are being updated. To overcome this, the methodology outlined previously is modified as follows.

- 1) When the CPS does not find anyone in a particular category, a zero cell results. Zero cells in the 1980 CPS tables cause an arithmetic problem of division by zero in the updating procedure. Whenever a zero is encountered, in 1980 or in 1983, the change factor is taken as one. This makes the assumption that this particular category is the same percentage of the universe in the update (1983) as in 1980.
- 2) When the population being sampled in a particular category is quite small, the percentage change that is calculated in step (5) can be unreasonably large. To minimize the impact of very large changes that are due more to sampling variation rather than to changes in the underlying population, bounds have been set for these change factors. Presently, the ratio of the percent of the 1983 data to the percent of the 1980 data can not exceed 2.0 or be less than 0.50. This makes the assumption that when this particular category is compared to the underlying universe, its share or percentage can not increase by more than 100% from 1980 to the update (1983), nor decrease by more than 50%.

In addition to data problems inherent in the CPS, the 1980 Census data have a problem of disclosure suppression in small categories and in small areas. For more information on this problem, please see the following section on Data Item Suppression.

1980 Census Data

It is important to understand the limitations of census data, including both sampling and non-sampling errors. These issues are not covered in these notes but are thoroughly discussed in Chapter 6 of the 1980 census "Users' Guide" and in the "Technical Information" section of the "STF4 Technical Documentation".

Universes for Tables

Each tabulation in census materials is an aggregate summary based on a particular "universe" of individual persons, families, households, or housing units to which data pertain. Knowledge of the universe is crucial to interpretation of each table. Data based on different universes usually cannot be combined.

Data Item Suppression

In order to maintain the confidentiality promised to respondents and required by law, the Census Bureau must make sure that its public data do not disclose information about any individual. Therefore the Bureau suppresses tabulations of characteristics of very small groups of people or housing units. The "STF4 Technical Documentation" describes rules for suppression of sample data, with examples of different types of suppression, and discusses the consequences of ignoring suppression in calculations.

Counts of persons, households and families are never suppressed. In STF4, other data for total population or a specific race/ethnic group appear only if there are 30 or more persons of that category living in the geographic area. Characteristics of households and families are suppressed if there are fewer than ten occupied housing units in the area.

In some cases, complementary suppression is applied to prevent the derivation of suppressed data by subtraction. For instance, if data were available for all race categories except one, the

Technical Notes 1980 Census Data (continued)

suppressed data could easily be derived from the total. When complementary suppression is applied to STF4, data are suppressed from the next smallest race/ethnic category as well as from the smallest race/ethnic category.

Data Aggregation for Composite Areas

This section describes procedures used in estimating data for composite geographic areas composed from standard 1980 Census geographic units in which some data may be suppressed. Estimated data values are identified in the tables by a preceding "e".

The fifth row in Table 20 gives the percent of persons in unsuppressed components of the composite area for each race/ethnic group. For example, the entry in the third column pertains to data items for "Black, not Hispanic". A value of 90% means that data in areas containing ninety percent of the total "Black, not Hispanic" persons were not suppressed. Due to the way in which suppressed data is estimated and aggregated, the size of this percentage is not indicative of how accurate the estimate is. An example in the section "Validity of Estimated Data Values" illustrates this point. Although these numbers are printed mainly for the benefit of the LBL staff, they do show whether or not some of the data has been estimated.

Since the race/ethnic group "Other, not Hispanic" is calculated as Total Population less "White, not Hispanic", "Black, not Hispanic", and "Hispanic, All Races", if suppression occurs in one of these three race/ethnic groups, it also occurs in the race/ethnic group "Other, not Hispanic".

Data Aggregation and Suppression

Conceptually, aggregating data for a composite area is straightforward. Beginning with one of more 1980 Census geographic units, one adds and subtracts data values from the component areas to yield totals for the composite area.

For data involving values which are missing due to suppression, however, simple algebraic addition is not valid. If suppressed data are treated as zeroes, totals will be biased downwards by data suppression in component areas that are formed by addition, and upward by data suppression in component areas that are formed by subtraction.

One way to avoid such bias is to suppress all values which contain any suppressed components, but that wastes information. For example, consider a composite area of three large counties and two smaller places. If data on Hispanics were suppressed in one of the places, all aggregated data for Hispanics would have to be suppressed for the entire composite area even though the proportion of suppressed data is very small.

Estimation Procedure

To provide unbiased estimates of aggregated data containing suppressed components, a procedure is used that is similar to the Census Bureau's substitution of data values for persons and housing units missing in the original data. This procedure depends upon the fact that total population counts can be obtained for each of the race/ethnic groups from the "A" records in STF4B and assumes that the distribution of characteristics of the suppressed race/ethnic group is similar to the distribution of that race/ethnic group in the total population.

If data are suppressed for one of the race/ethnic groups "White, Not Hispanic", "Black, Not Hispanic" or "Hispanic, All Races", the data items for this race/ethnic group and the race/ethnic group "Other, Not Hispanic" are estimated using the following procedure.

- 1) The total number of persons in the suppressed race/ethnic group be determined from Tabulation 13 in the population "A" records. Let this number be S.
- 2) The total number of persons in the race/ethnic group "Other, Not Hispanic"

can also be determined from Tabulation 13 in the population "A" records. Let this number be O.

- 3) Calculate the fraction $F1=S/(S+O)$ as the percentage in the suppressed race/ethnic group.
- 4) Calculate the fraction $F2=O/(S+O)$ as the percentage in the race/ethnic group "Other, Not Hispanic".
- 5) For each data item, subtract the figures for the unsuppressed races from that for the total population. This number, R, is the total in the suppressed race/ethnic group and in the race/ethnic group "Other, Not Hispanic".
- 6) Multiply R by F1 to estimate the data item for the suppressed race/ethnic group. Multiply R by F2 to estimate the data item for the race/ethnic group "Other, Not Hispanic".

Suppression Example

The table below gives hypothetical data for a geographical area. The second column contains the total population which is never suppressed. The third column contains the number of males which is sometimes suppressed.

| Race/Ethnic Group | Total Population | Number of Males |
|----------------------|---------------------|--------------------|
| Total | 5,000 | 2,410 |
| White | 4,800 | 2,300 |
| Black | 25 | |
| Other | 75 | |
| Hispanic | 100 | 46 |

The population "B" records exist for the race/ethnic groups "Total", "White, Not Hispanic", and "Hispanic, All Races". Since there are less than 30 in the race/ethnic group "Black, Not Hispanic", the population "B" record has been suppressed. The procedure described above estimates the number of males in the race/ethnic group "Black, Not Hispanic" and in the race/ethnic group "Other, Not Hispanic" as

**Technical Notes
1980 Census Data (continued)
Current Population Survey**

follows.

- 1) From the population "A" records (shown in the second column), the total number of "Black, Not Hispanic" is $S=25$.
- 2) Similarly, the total number of "Other, Not Hispanic" is $O=75$.
- 3) The fraction in the race/ethnic group "Black, Not Hispanic" is $F1 = 25/(25+75) = 25/100 = 25\%$.
- 4) The fraction in the race/ethnic group "Other, Not Hispanic" is $F2 = 75/(25+75) = 25/100 = 75\%$.
- 5) By subtraction, the total number of males in the combined race/ethnic groups "Black, Not Hispanic" and "Other, Not Hispanic" is $R = 2410 - 2300 - 46 = 64$.
- 6) The number of "Black, Not Hispanic" males is thus estimated as $.25 * 64 = 16$. The number of "Other, Not Hispanic" males is estimated as $.75 * 64 = 48$.

Validity of Estimated Data Values

Validity of data estimated by the procedures outlined above depends on the fractions of suppressed data used in calculations and the degree to which the distribution of race/ethnic groups in the suppressed items is similar to their distribution in the total population. If no component areas are suppressed, there is no additional uncertainty beyond original sampling and non-sampling errors. For aggregated areas with suppression in some components, the amount of suppression can be expressed as the sum of the number of persons in suppressed components divided by the net total persons in the aggregated area.

Since Table 20 shows the percentage of persons unsuppressed in the composite area and not in each piece, it is not possible to infer how accurate the estimates are. The accuracy of the estimates depends upon the fractions used to estimate the suppressed data in each component, rather than on the fraction of unsuppressed persons in the composite area. The following made-up example

illustrates that whether the percentage of unsuppressed persons is close to zero, around 50% or close to 100%, the estimates can be considered very accurate. Unfortunately, the converse is also true; in a different example, the estimates could be highly suspect.

The following example illustrates the aggregation of three counties into one composite area. To simplify matters, only three racial categories are considered, rather than four as in this report. The first three lines contain the total population in each of three racial categories. Although these totals are never suppressed, the detailed characteristics are sometimes suppressed. The detailed characteristics for those racial categories in parentheses have been suppressed.

| Aggregation Example with Suppression | | | | |
|--------------------------------------|-------|-------|-------|-------|
| | Total | White | Black | Other |
| County A | 1000 | (980) | (20) | 0 |
| County B | 1550 | 1000 | 500 | 50 |
| County C | 1000 | 0 | (5) | (995) |
| Total Pop | 3550 | 1980 | 525 | 1045 |
| Unsuppressed Pop | | 1000 | 500 | 50 |
| Percentage Unsupp | | 50.5% | 95.2% | 4.8% |

Since there are fewer than 30 Blacks in County A, this racial category has been suppressed. Due to complimentary suppression, the data on Whites are also suppressed. The detailed characteristics are available only for the total population with no racial breakdown. The estimation procedure estimates the detailed characteristics for the White population as $980/1000 = 98\%$ of the Total. The detailed characteristics for the Blacks are estimated as $20/1000 = 2\%$ of the Total. The estimates for the Whites are probably very good; those for the Blacks are very poor. In County B there is no suppression. County C is similar to County A except that the racial categories involved are different. In this case, the estimates for the Others are probably very good while the estimates for the Blacks are very poor. In this

sample composite area, the estimates for all three racial categories are probably quite good although those for the Blacks are the weakest.

Current Population Survey

The Current Population Survey (CPS) is a household survey conducted monthly to provide estimates of employment, unemployment, and other characteristics of the general labor force, of the population as a whole, and of various subgroups of the population. The CPS was initially designed to produce timely and reliable sample estimates of labor force data at the United States level each month. Expanding needs for additional current data by Government and other users were met by adding questions to the monthly interview and by enlarging the sample size.

The CPS provides a large amount of detail on the economic status and activities of the population. It is the only source of monthly estimates of total employment (farm and nonfarm, self-employed, unpaid workers, wage and salary employees), occupation of workers and industry of employment, number of workers classified by the hours worked, and estimates of total unemployment. The CPS is also a comprehensive source of information on the personal characteristics of the total population such as age, sex, race, marital and family status, veteran status, years of school completed, and Spanish origin.

The March CPS, which is also known as the Annual Demographic File, contains the basic monthly demographic and labor force data described above, plus additional data on work experience, income, and migration.

CPS - Sample

The CPS sample is located in 629 sample areas comprising more than 1,000 counties and independent cities with coverage in every state and in the District of Columbia. Each file reflects interviews for approximately 60,000 households

Technical Notes

Current Population Survey (continued)

Data Item Descriptions and Derivations

containing about 130,000 persons.

The CPS sample is based on the civilian noninstitutional population of the United States. In March of each year supplemental data are gathered for male Armed Forces members residing with their families in civilian housing units or on a military base. The Armed Forces members, however, are not asked the monthly labor force questions or the supplemental questions on work experience. In addition, the March CPS is supplemented with a sample of Spanish households. This results in the addition of about 2,500 households in the March CPS. A more detailed explanation of the CPS sample design is found in "The Current Population Survey: Design and Methodology", Technical Paper 40.

CPS - 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.

CPS - Weights

For all CPS data files, a single weight is prepared and used to compute the monthly labor force estimates. However, the difference in content of the March CPS supplement requires additional weights: a household weight, a family weight, and a March supplement weight. The following paragraphs will briefly describe the construction and use of these weights. Chapter 5 of Technical Paper 40, "The Current Population Survey: Design and Methodology" provides detailed documentation of the weighting procedures for the CPS.

The final weight, which is the product of several adjustments, is used to produce population

estimates for the various items covered in the regular monthly CPS. This weight is constructed from the basic weight for each person, which represents the probability of selection for the survey. The basic weight is adjusted for special sampling situations and failure to obtain interviews from eligible households. A two-stage ratio estimation procedure adjusts the sample population to the known distribution of the entire population. This two-stage ratio estimation process produces factors which are applied to the basic weight (after the special weighting and noninterview adjustments are made) and results in the final weight associated with each record. In summary, the final weight is the product of: 1) the basic weight, 2) adjustments for special weighting, 3) noninterview adjustment, 4) first stage ratio adjustment factor, and 5) second stage ratio adjustment factor.

CPS - Tabulation

In order for the CPS to be used to update the 1980 Census, the CPS must be tabulated to generate tables similar to those in the Census. The CPS is a microdata file where data is recorded on each household interviewed and on each family and person in the household. On the CPS tapes, there is one record per household, one record per family, and one record per person.

CPS - Data Suppression

In the tabulations prepared for the five tables in this report, the CPS results are suppressed for any race/ethnic group with less than 50,000 persons. Comparing 1980 CPS and 1983 CPS results for small populations are apt to show more about differences in sampling rather than in the underlying population.

Data Item Descriptions and Derivations

This section and the following tables describe how data items on which the Census Updates Model depends were derived from Census Bureau items on STF4 tapes and from the 1980 and 1983 CPS

tapes. Most of the numbers derived from 1980 Census data come from single cells of the STF4 tables, while others are computed from an arithmetic operation on two or more cells of the original data. The numbers obtained from the 1980 and 1983 CPS tapes are calculated by tabulating items from individuals records on the CPS data tapes.

Labels for Report A have in most cases been taken directly from STF4 labels used by the Census Bureau. For more precise definition of these terms plus an explanation of how STF4 tabulations were derived from the original census questionnaires, see the "STF4 Technical Documentation" Glossary. For a more general and comprehensive treatment of definitions, limitations, and historical comparability of individual data items, see the 1980 census "Users' Guide Part B. Glossary."

Indentation of a row label indicates that the item is a subset of the item under which it is indented. Percentages which add to 100 or indented items which add up to the item under which they are shown are grouped together with no extra spaces.

To explain the particular data sources on which this report is based, the tables on the following pages identify the tabulations in the 1980 Census from which data items were obtained and the CPS items which were tabulated to replicate the 1980 Census data. The format of the following tables follows that of the tables in the report. Each row item in the following tables corresponds to a row label in Tables 5-19. The second and third columns contain data relating to the 1980 Census, the fourth column contains data relating to the 1980 CPS and the last column contains data relating to the 1983 CPS.

1980 Census Data

To the right of each item label are suppression codes and the computations used to produce the 1980 Census items in this report. These can be used with an STF4 data dictionary to cross check the accuracy and validity of individual data items.

Technical Notes

Data Item Descriptions and Derivations(continued)

algebraic expressions for the derivation of each data item. Data may be suppressed for various reasons, as indicated by the numeric suppression flags defined in the "STF4 Technical Documentation."

In most cases, numeric values were taken directly from single cells of the "Population B" records of Summary Tape File 4. They are identified by tabulation number and subscript (e.g., pb10(1,20)), as in the "STF4 Technical Documentation." In cases where values were calculated from more than one census data item, the following algebraic notation is used: "+" for addition, "-" for subtraction, "/" for division, and "." for sequential addition. For example, pb7(3:5) means pb7(3) plus pb7(4) plus pb7(5).

All Census data for this report came from the "Population B" records of STF4, or from estimated "Population B" records if disclosure suppression occurred. As explained in the STF4 documentation, there are separate "B" records for the total population and each of up to 38 different race/ethnic groups in each geographic area, provided the number of persons in a given group is thirty or more. In the following Census derivations, the race/ethnic codes are not shown explicitly because calculations were identical for the total population and each of the four race/ethnic groups. The five race/ethnic columns were calculated from race/ethnic records having the following codes:

| Code | Race/Ethnic Group |
|------|---------------------|
| 00 | Total Population |
| 24 | White, Not Hispanic |
| 25 | Black, Not Hispanic |
| 19 | Hispanic, All Races |

For each data item, the value for the race/ethnic group "Other Race, Not Hispanic" was calculated by subtracting the data items for the three race/ethnic groups "White, Not Hispanic", "Black, Not Hispanic", and "Hispanic, All Races" from that for the "Total Population".

CPS Data

The two rightmost columns in the following tables contain the derivation of data items from the 1980 CPS and the 1983 CPS respectively. In general, the data items are the same in both the 1980 CPS and the 1983 CPS. Before the items in a particular table can be identified, the universe from which this table was calculated must be defined. For example, the universe may be all persons 16 and over. Thus at the top of the two rightmost columns, the universe for each tabulation of the CPS is defined. Once the universe has been defined, the following item definitions illustrate how this universe is split up among the various table items.

To identify a particular item in the CPS, it is necessary to know the record that it came from - H-household, F-family or P-person - and its position in the record. For example, P110 refers to the variable in character position 110 in the person record, which is age in single years in both 1980 and 1983. This notation is the same as that used in the data dictionary contained in the Technical Documentation.

The notation P52=1,2,3 indicates that the person will be included if on the person record, the data item starting at position 52 is either 1,2 or 3. This could also be expressed as P52=1:3. The notation P110<18 indicates that the item starting at position 110 must be less than 18. Similarly, P110>64 indicates that the item starting at position 110 must be 65 or larger. In some cases, two or more conditions must be met for the household or person to be included in the tabulation. The symbol "&" is used to indicate "and"; the word "or" is used for or.

Data Validation, Errors and Questions

The data and calculations used to produce this report have been thoroughly checked. Nevertheless, undetected errors may still be present due to mis-specification or mis-calculation of derived items, incorrect comparison

of data items from the 1980 Census and the CPS data tapes, selection of geographic areas, or copying of data from the tapes.

If you have questions about an item, please check its derivation below and its definition in the STF4 Technical Documentation and/or the CPS Technical Documentation. If questions still remain, please contact:

Ms. Linda Wong
Mail Stop 50B-3238
Computer Science Research
Lawrence Berkeley Laboratory
Berkeley, California, 94720

This report was done with support from the Department of Energy. Any conclusions or opinions expressed in this report represent solely those of the author(s) and not necessarily those of The Regents of the University of California, the Lawrence Berkeley Laboratory or the Department of Energy.

Reference to a company or product name does not imply approval or recommendation of the product by the University of California or the U.S. Department of Energy to the exclusion of others that may be suitable.

TECHNICAL INFORMATION DEPARTMENT
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA
BERKELEY, CALIFORNIA 94720