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## ABSTRACT

This report focuses on individual financial support networks which supplenent the incomes of persons who live in different households. It irtroduces a new data set from the Survey of Income and Program Participation (SIPP). Information was collected in a supplement to the SIPP conducted between January and April 1985 in about 17,000 households. Statistics cover persons of 18 years and over who were regularly making cash fayments for the support of persons living in another household during 1985. Results indicated that the likelihood of providing and receivina financial assistance is determined by the life cycle status of both providers and recipients, while the amount of payment is determined by the financial resources of the providers. It was also reported that: (J) the most frequent causes ror financial need among nonhousehold members are marital disruption and aging; (2) fanilies vary more in their abilities to pay than in their reasons for eupporting nonhousehold family members; (3) child support makes up 11 percent of the annual family income of women who receive it. The report includes 27 charts and 3 tables. Appendices provide an overview of the SIPP program, definitions, specifications of sources and reliability of estimates, dısclissions of data, findings of a loglinear regression analysis, and facsimiles of SIPP questıonnaires. (RH)

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# Who's Helping Out? <br> Support Networks Among American Families 

## INTRODUCTION

American families are generally nuclear and economically self-sufficient. Not all households, however, are able to maintain financial independence. Divorce produces individuals and family units needing financial assistance; parents sometimes need support from their children for medical or housing expenses; and young adults sometimes need financial help from their parents to establish independent households and begin their own families. Information on the sources and amounts of this support is important in order to estimate the degree of financial depencency American families snare with each other.

This report focuses on the individual financial support networks which supplement the incomes of persons living in different households. Information in this report was collected in a supplement to the Survey of Income and Program Participation (SIPP) conducted between January 1985 and April 1985, in approximately 17,000 interviewed households in the Nation. Statistics are presented for persons 18 years and over in 1985 who were regularly making cash payments for the support of persons not living with them in their households. Responses to the questions in this SIPP supplement refer to the 12-month period prior to the interview date. Even though most of the payments for support arrangements occurred in 1984, the SIPP reference date of 1985 is used to indicate the year in which the survey was conducted.

## HIGHLIGHTS

(Note the figures in parentheses show the 90 -percent confidence interval for the estimate.)

In 1985, approximately 6.3 ( $\pm 0.3$ ) million persons ( $3.7( \pm 0.1$ ) percent of the population 18 years old and over) provided financial support for about $9.9( \pm 0.4)$ million persons not living in the household with them (table A); of those receiving such support, about 2.9 ( $\pm$ 0.2 ) million were adults and 7.1 ( $\pm 0.4$ ) milion were children. Of the 6.3 million providers, $63( \pm 2.7)$ percent supported only children, while $31( \pm 2.5)$ percent supported only adults; only 6 ( $\pm 1.3$ ) percent assisted both children and adults. Twenty-eight ( $\pm 2.5$ ) percent supported 2 persons, while 12 ( $\pm 1.8$ ) percent supnorted 3 or more persons outside their household, for $R I C^{\text {erage }}$ of $1.58( \pm 0.11)$ persons each.

Table A. Persons Providing and Receiving Financial Support, by Relationship to Provider
(Nonhousehold members Numbers in thousands)

| Subject |  | Number | Percent |
| :---: | :---: | :---: | :---: |
| All persons, 18 years old and over |  | 171,290 | 1000 |
| Persons providing suppe $t$ | $\ldots$ | 6,275 | 37 |
| Persons providing support .. | . | 6,275 | 100.0 |
| For children only ${ }^{\prime}$... | - | 3,959 | 631 |
| For adults only |  | 1,949 | 31.1 |
| For both chirdren and adults | - | 366 | 5.8 |
| Persons receiving support |  | 9,914 | 100.0 |
| Children ${ }^{1}$. . |  | 7,050 | 71.1 |
| Adults ${ }^{2}$ |  | 2.864 | 28.9 |
| Parents. |  | 918 | 9.3 |
| Spouse |  | 202 | 20 |
| Ex-spouse. |  | 412 | 4.2 |
| Child 21 years and over. |  | 495 | 50 |
| Other relative . | - | 568 | 5.7 |
| Nonrelative |  | 130 | 13 |
| Not ascertained ${ }^{3}$. | . . | 138 | 1.4 |

[^2]The average amount of support provided was $\$ 3,006$ ( $\pm \$ 272$ ) annually or approximately 8 ( $\pm 0.9$ ) per.ent of the provider's family income (table B). The average payment made by the $4.3( \pm 0.3)$ million providers supporting children cutside their households was $\$ 2,607$ ( $\pm \$ 181$ ) annually, compared with $\$ 3,276$ ( $\pm \$ 600$ ) annually for the 2.3 ( $\pm 0.2$ ) million providers supporting adults. For both groups of recipients these payments averaged approximately $8( \pm 1.1)$ percent of the provider's family income. The relatively few providers who supported both children and adults made considerably higher annual payments: $\$ 8,387( \pm 1,859)$, approximately $19( \pm 6.1)$ percent of the providers' family incomes.

In aggregate terms, financial support provided to persons outside the household otaled $\$ 18.9$ ( $\pm 2.0$ ) billion, of which $\$ 11.3( \pm 1.1)$ billion was for the support of children and $\$ 7.6( \pm 1.5)$ billion was for the support of adults (table C).

Age and sex. The majority ( 63 percent) of persons supporting someone outside their households were young adults 25 to 44 years old; about one-fourth (28

## Table B. Annual FInanclal Support Provided and Annualized Family Income of Persons Providing Support for Nonhousehold Children and Aduits

| Type of person supportec | $\begin{gathered} \text { Total } \\ \text { (thous) } \end{gathered}$ | Amount of support |  | Family income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean | Standard error | Mean | Standard error |
| Al' roviders ... ...... | 6,275 |  |  |  |  |
| Provider supports children Supports only children | 6,275 4,326 | $\begin{array}{r}\text { 3,006 } \\ \mathbf{2 , 6 0 7} \\ \hline\end{array}$ | $\$ 170$ 113 | $\begin{array}{r}\text { \$37,830 } \\ 34,260 \\ \\ \hline\end{array}$ | $\$ 1,656$ 1,808 |
| Supports only children .. | 3,959 | 2,441 | 106 | 33,403 |  |
| Provider supporis adults. Supports only adults | 2,316 | 3,276 | 375 | 45,399 | 3,064 |
|  | 1,949 | 3,144 | 419 | 45753 | 3,452 |
| Provider supports both children and adults ... .. .. | 366 | 8,387 | 1,16< | 43,518 | 6,196 |

percent) were 45 to 64 years old; few were either under 25 years old (3 percent) or over 65 jears ( 7 percent).

- The age distribution of the providers reflects their likelihood of having extended family ties and potential recipients of financial assistance. For example, 83 percent of providers 25 to 44 years old supported children (table C). Providers 45 to 64 years old were about as likely to support children ( 44 perc^nt) as to support adults ( 50 percent), and aithou rey are sandwiched between dependent generations, few (7 percent) supported both adults and children at the same time (table D). Among older providers E5 years and over, 94 percent supported adults.
- The majority of providers were men (84 percent) (table D) and most of them supported children only ( 69 percent). In comparison, only 33 percent of female providers supported children oniy.
- Men also provided greater amounts of support; their payments averaged $\$ 3,198$, or 8 percent of their
family incomes. In contrast, women's payments averaged $\$ 1,987$, or 5 percent of their nily incomes (table 1A).

Family and marital status. The vast majority ( 85 percent) of persons giving financial assistance to someone iiving outside their household also maintain a household tnemselves or were spousps of househ.olders (table D).

- Of all adults receiving assistance, about a third were parents of their providers, a small proportion ( 7 percent) were current spouses living outside the household, and 15 percent were former spouses (table 2).
- Persons who were separated or divorced made the highest average support payments: $\$ 4,868$ and $\$ 3,290$, respectively, compared with married providers, who on average made support payments of $\$ 2,610$; ne $\because$ ermarried providers made the smallest support payments, $\$ 1,690$ (tabia 1A).
- Sixty-one percent ( 2.0 million) of currently married (spouse present) providers supported children under 21 years, with average payments of $\$ 2,430$, while 42

Table C. Persons Providing Support, Average and Aggregate Amounts of Payment, by fige of Provider
and Type of Reciplent

| Type of recipient and amount of payment |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |

[^3]Table D. Selected Characteristics of Persons Supporting Nonhousehold Members, by Type of Person Supported
(Numbers in thousands)

'Includes married, spouse absent.
${ }^{2}$ Includes persons who were on layoff or looking for work at least 1 week last month.
${ }^{3}$ Excludes persons with no family income
percent ( 1.4 million) supported adults, with an average payment of $\$ 2,655$ (tables 1 B and 1 C ); 87 percent of divorced providers suppurted minor children $(\$ 2,901)$ and 22 percent supported adults. ${ }^{1}$

Race. About 16 percent of providers were either Black or of races other than White; these groups constituted 14 percent of the total adult population. About 5 percent of all providers were Hispanic, the same proportion as in 0 ult population (table D).

- While the levels of annual payments were lower for Blacks and for persons of other races $(\$ 2,100)$ as compared with Whites ( $\$ 3,183$ ), their payments as a percentage of annual family income were similar: 9 percent for Blacks and 8 percent fcr Whites.

[^4]
## DEFINITIONS AND POPULATION COVERAGE

Support paymont as used in this report means only regular cash payments made to someone living outside the respondent's household during the 12 -month period prior to the interview. These payments include courtordered alimony and support payments for women and children, other reguiar voluntary cash payments to children and ex-spouses, and lump-sum payments to any others living outside the provider's household.
Excluded from consideration here are cash gifts and cesh transfers for educational expenses to own children living temporarily away from home at school, and noncash transactions such as food, clothing, or services to individuals, however important they may have been to the recipients. ${ }^{2}$
Information on payments made jointly by more than one individual in a household (e.g., a husband and a wife supporting the wife's mother) was collected and tabulated for only one provider and all payments were attributed to a single provider. While this joint-payment tabulation avoids double-counting payments, it dues produce an underestimate of the actual number of persons contributing to the support of nollhousehold persons. However, an overestimate of the number of recipients may occur where joint payments are made to an individual by two or more persons who are living in separate households (e.g., a brother and sister living apart and jointly supporting an elderly parent). Similarly, pryments received jointly by parents living together are counied as being paid to only one individual and are so shown in the tables.

Detailed data on relationship to the provider were collected only for the first two mentioned adults in the survey (see questionnaire in appendix $F$ ), resulting in an estimated 138,000 adult recipients for whom no relationship data were obtained.

Children of providers in this report refers to the sons and daughters under 21 years of age of the provider. Adults include parents, spouses and ex-spouses, the provider's own children 21 years old and over, and all other relatives and nonrelatives for whom financial support was regularly provided. For expository purposes, individuals not defined as "children" are collectively called "acults" although an unknown number of persons under 21 years of age may be included if they were not the provider's own children (e.g. nephews, grandchildren).

In amailion, the proportion of people in any specific population group providing financial support is influenced by the number of persons who potentially may

[^5]need support and who are related to the respondent in the suney. For example, single (never married) and elderly people will not have as many children or older parents to support as will middle-aged, divorced persons. Therefore, data showing the incidence and amount of financial suppoit and the characteristics of the providers and recipients are descriptive in 7ature and are influenced by persons' fertility and marital histories. Moreover, these incidence rates cannot be interpreted as indicative of the degree of concern of individuals for their relatives, ex-relatives, or friends and associates.

## WHO'S being helped-nROFILE OF RECIPIENTS

Aging Baby Boomers will increase the elderly portion of the population, persens 65 years and over, from 12.4 percent in 1988 to 17.3 percent in 2020 . $^{3}$ Looking ahead less thar: 25 years, when the first of the 76 million people born during the Baby Boom (1946-64) begin reaching age 65 and retiring from the labor force, the ratio of the retirement-age population (persons 65 years and over) to the working age population (persons 18 to 64 years old) is projected to increase from about 19 per 100 currently to about 22 per 100 in 2010 (figure 1).

By 2030, when the last of the Baby Boomers born in the 1960's reach age 65, this ratio is projected to increase further to 37 per 100. The large increase in the elaerly means that financially secure households maintained by young workers may need to assume added responsibility for the care of aging parents and other relatives. Because of the increase in the elderly population, the total dependency ratio (which includes both young and old), is also projected to rise from 62 per 100 in 1990 to 75 per 100 by 2030.

A profile of current recipients shows that most recipients are related to their providers: the majority were their children (table E) ${ }^{4}$, while others, such as exspouses, were former members of their providers' households. Although 71 percent of the recipients were children under 21 years of age, they received only 60 percent of the aggregate support, or an average of $\$ 1,600$ each (figure 2). In contrast to the children, adults on average received $\$ 2,649$. Absent or ex-spouses received larger support payments; although they constituted only 6 percent of all recipients, they received 19 percent of aggregate payments, $\$ 3.5$ billion, (table E). ${ }^{5}$

[^6]Figure 1. Number of Dependents per 100 Persons 18 to 64 Years Old: Estimates, 1960-1980, Projections, 1990-2050


Figure 2. Amount of Annual Financlal Support Recelved by Reclplents, by Relationshlp to the Provider


Detalled relationshlp:


Source: table E.

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Table E. Persons Recelving Support and Aggregate Amount of Support Recelved, by Relationshlp to
the Provider

| Relationship to provider | Recipients |  | Aggregate amount recerved |  | Per recipient |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number (the se .) | Percent | Total <br> (mil.) | Percent | Mean | Standard <br> e.or |
| All recipients.... | 8,! 14 | 100.0 | \$18,865 | 100.0 | \$1,903 | \$134 |
| Children. | 7,0:50 | 71.1 | 11,279 | 59.8 | 1,600 | 107 |
| Adults.... | 2,864 | 28.9 | 7,586 | 40.2 | 2,649 | 299 |
| Parents .............. ....... . . . ..... | 918 | 9.3 | 1,363 | 7.2 | 1,484 | 301 |
| Spouse ................. ............ . | 202 | 2.0 | 1,585 | 8.4 | 7,847 | 2,240 |
| Ex-spouse........... . ..... . ........ | 412 | 4.2 | 1,922 | 10.2 | 4,665 | 842 |
| Chiid 21 years and over. ....... . . . . . .. . | 495 | 5.0 | 1,859 | 9.9 | 3,755 | 966 |
| Other relative | 568 | 5.7 | 611 | 32 | 1,076 | 136 |
| Nonrelative . . . . . . . . . . . . . . . . . . . .. . Relationship not ascertained. . | 130 | 1.3 | 98 | 0.5 | (B) | (B) |
| Relationship not ascertained. | 138 | 1.4 | 148 | 08 | (B) | (B) |

B Base too small to show derived estimate.

On average, absent soouses and ex-spouses received abc. 1 \$ $\$ 5,700$ each.

Older children also received a larger share of financial support relative to their numbers, $\$ 3,755$ rach, or 10 percent of the total share of financial support, although thsy accounted for only 5 per ent of all recipients. Pareııs, who were 9 percent of all recipients, received $\$ 1,484$ each, less than any other specified adult relative.

Child reciplents. A majority of the 7.1 million youngsters received financial support from an absent parent because of their parents' separation or divorce (table F). Titis is shown by the large numbers supported by peronts who were either currently separated or divorced or who were currently married but not living with the child they surported ( 3.5 and 3.2 million, respectively).

Men supporing absent children in 1985, 4 million fathers raported supporting 6.7 milion children under 21 years old living outside their households, about 1.66 children far father (table F). As the data profile in table G shows, slightly less than one-half ( 1.8 million) of tinese men were currently married and living with their wife and were responsible for supporting resident family members as well $4 \mathbf{s}$ their children living elsewhere. Threequarters of these men were 25 to 44 years old, an age group for which fatherhood could again be expected, especially for those who had remarried. Jrty-three percent of these fathers had completed 1 or more years of college, and 89 percent reported that they had worked the entire month before the interview.

In a separate module in this same survey (appendix F), data were collected on chiid support payments received by women on behalf of their children. These data do not directly link providers to the specific recipients of that support. Results for women recipients are

[^7]shown in table 3. In general, the numbers of men providing child support and the numbers of women receiving support are consistent, about 4.0 million in each case. ${ }^{5}$ In addition to the number of providers and recipients, the average levels of payments reported are also similar, approximately $\$ 2,550$.

The characteristics of women receiving child support payments, however, ditier significantly irom those of male providers. For example, ot * 29 percent of the women were currently married cunpared with 46 percent for men; 37 percent of these women had completed 1 or more years of college, compared with 43 percent for men. In addition, the family income of women recipients $(\$ 23,545)$ was lower than that of the men providers ( $\$ 33,863$ ). As a result, child support payments represented a greater proportion of the women recipients' family incomes ( 11 percent) than of providers' incomes ( 8 percent).

Men supporting spouses. An estimated 553,000 men provided some regular financial assistance to their ex-wives $(380,000)$ or to their current wives $(173,000)$ living elsewhere (table 2). Approximately S out of avery 10 of these men were currently married with a wife present (table G), and about 6 out of every 10 had completed at least 1 year of ccllege. Support payment3 b. men to wives or ex-wives averaged about $\$ 6,000$ annually; these payments accounted for 11 percent of the men's family income, which averaged $\$ 54,033$ (table H).

[^8]Table F. Persons Providing Support for Nonhousehold Members, by Characterlstics of the Provider and Number of Childran and Adults Recelving Support
(Numbers in thousands)

| Cheracteristic of persons providing support | Providers | Nonmembers supported | Providers supporting children | Children supported | Providers supporting adulls | Adults supported |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total. . . . . . . . . . . . . . . . . . . . . . . . . . . . | 6,275 | 9,914 | 4,325 | 7,050 | 2,316 | 2,864 |
| Reco: White | 5,244 | 8,070 | 3,587 | 5,761 | 1,970 | 2,309 |
| Black | 789 | 1,366 | 639 | 1,131 | 188 | 236 |
| Other | 242 | 477 | 100 | 158 | 158 | 319 |
| Hispanic orgin- |  |  |  |  |  |  |
| Nonhispanic ..... ..... .......... . | 5,940 335 | 9,387 527 | 4,156 169 | 6,752 298 | 2,144 172 | 2,635 |
| Hispanic. . ......... .. . . .. . . ... . | 335 | 527 | 169 | 298 | 172 | 229 |
| Sex: |  |  |  |  |  |  |
| Male. | 5,280 | 8,668 | 4,001 | 6,654 | 1,616 | 2,014 |
| Female. | 995 | 1,246 | 324 | 396 | 700 | 850 |
| Age: |  |  |  |  |  |  |
| 18 to 24 years ...... ... .... ... ...... | 205 | 259 | 180 | 213 5.441 | 39 911 | 45 1,173 |
| 25 to 44 years .......... . ........ . .. | 3,922 | 6,614 | 3,240 | 5,441 1,317 | 911 | 1,173 1201 |
| 45 to 64 years. | 1,735 | 2,519 | 875 | 1,317 78 | $\begin{array}{r}978 \\ \hline 388\end{array}$ | 1201 |
| 65 years and over................... ... | 413 | 523 | 29 | 78 | 388 | 444 |
| Martal status: |  |  |  |  |  |  |
| Married, spouse present .. . ........ ... | 3,242 | 4,835 | 1,986 | 3,159 | 1,365 | 1,677 |
| Separated' . . . . . . . . . | 732 | 1,353 | 553 | 1,039 | 284 | 314 |
| Widowed. | 149 | 214 | 58 | 84 | 91 | 131 |
| Divorced | 1,724 | 2,913 | 1,500 | 2,502 | 371 | 411 |
| Never married | 428 | 598 | 229 | 267 | 205 | 331 |
| Years of school completed |  |  |  |  |  |  |
| Less than high school | 1,181 | 1,818 | 778 | 1,296 | 433 | 522 |
| High school. . . . . . . . . . . . . . . . . . . . . | 2,274 | 3,606 | 1,701 | 2,775 | 686 | 831 |
| College, 1 year or more. ..... . ..... . . | 2,820 | 4,490 | 1,847 | 2,978 | 1,197 | 1,512 |
| Employment status: Worked iull month. | 5,249 | 8,438 | 3,829 | 6,212 | 1,753 | 2,226 |
| Workeri less tilan manth .... . ...... | 85 | 135 | 69 | 99 | 21 | 26 |
| Without a $1 / \mathrm{b}^{2} \ldots$. | 216 | 382 | 191 | 340 | 31 | 43 |
| Not in latior force .... ..... .. .. . .. | 725 | 967 | 237 | 399 | 512 | 569 |
| Family income ${ }^{\text {3 }}$ |  |  |  |  |  |  |
| Under \$15,000. | 1,078 | 1,773 | 809 | 1,419 | 306 | 354 |
| \$15,000 to \$29,999. . . . . . . . . . . . . . . . . . | 2,056 | 3,306 | 1,551 | 2,502 | 639 | 803 |
| \$30,000 to \$44,999. | 1,562 | 2,432 | 1,075 | 1,683 | 595 | 749 |
| \$45,000 and over ... . . . . . . . . . . . . . . . . . | 1,513 | 2,315 | 832 | 1,365 | 768 | 950 |

${ }^{1}$ Includes married, spouse absent.
${ }^{2}$ Includes persons who were on layoff or looking for work at least 1 wiek last month
${ }^{3}$ Excludes persons with no family income.

The SIPP data indicate that in 1985, 84 percent of men providing financial suppori to wives or ex-wives had worked the entire month before the interview. Three-quarters of the men providing spousal support were maintaining their own households, about half of whom lived with other relatives.

Adult reciplents. About 2.9 million adults received financial help from someone outside their households in 1985. As figure 3 shows, 8 out of every 10 of these adult recipients (for whom an exact relationship was ascertained) were currently related to their providers; most were former members of the provider's household. For instance, about one-third of adult recipients were parents of the provider; 7 percent were current spouses

O sewhere, and 15 percent wiore former spouses.

About 1 in 5 recipients was an adult child living outside the parental home who received parental assistance averaging $\$ 3,755$ annually (table H ); a similar proportion was more distantly related to their provider and received only $\$ 1,076$ each (figures 2 and 3 ). Only 5 percent of recipients weie totally unrelated to their benefactors.

Support of parents and older chlldren. The majority ( 64 percent) of parents receiving assistance but living apart from their children received it from their sons (table H). However, the amount of average support payments received by parents ( $\$ 1,484$ ) annually was not significantly different whether provided by sons or
by daughters. Studies of the incidence of unpaid assistance to elderly disabled parents, however, indicate that turs care is likely to be provided by daughters. ${ }^{7}$

Among the 500,000 children 21 years old and over who received financial support from their parents, about 44 percent received support from their mothers (table $H$ ). This is in contrast to the incidence of inancial suppor: received by children under 21 years of age, where only 6 percent of the recipients received help from their mothers (table F). Overall, payments received by older children averaged $\$ 3,755$, compared with $\$ 1,600$ received per child under 21 (table E). Of course, the circurnsterices between these child and adult recipients are vastly different. While children are probably the beneficiaries of court-ordered payments by divorced or separated fathers, children 21 and over are probably recipients of voluntary peyments from either a father or mother or both, who are attempting to maintain consistency in their children's living standards. ${ }^{8}$

[^9]Figure 3. Distribution of Adults Recelving Financlal Support, by Relatlonship to the Provider
(Excludes persons for whom relationship was not ascertaired)


## Tabie G. Selected Characteristics of Men Supporting Children or Wives or Ex-Wives

(Numbers in thousands)

| Characteristic of man providing support | Children | Wives or ex-wives |
| :---: | :---: | :---: |
| Total | 4,001 | 553 |
| Race |  |  |
| White . | 3,363 | 523 |
| Black | 559 | 21 |
| Other . . | 80 | 8 |
| Hispanic or!gin |  |  |
| Non.Hispanic | 3,839 | 530 |
| Hisparic | 162 | 23 |
| Age' |  |  |
| 18 to 24 years | 171 | 10 |
| 25 to 34 years | 1,337 | 71 |
| 35 to 44 years | 1,712 | 163 |
| 45 to 54 years | 585 | 147 |
| 55 to 64 years | 180 | 90 |
| 65 years and over | 16 | 72 |
| Martal status: |  |  |
| Married. wife present | 1,827 | 162 |
| Marned, wite absent | 94 | 96 |
| Separated. | 438 | 124 |
|  | 35 |  |
| Divorced . ..... | 1,415 | 172 |
| Never married | 192 |  |
| Household relationship. |  |  |
| Householder with relatives | 2,006 | 208 |
| Householder without relatives | 1.184 | 209 |
| Child of householder | 325 | 39 |
| All others. | 486 | 96 |
| Years of school completed |  |  |
| Less than high school | 720 | 90 |
| High school ... | 1,549 | 144 |
| College, 1 year or more | 1,733 | 319 |
| Employment status |  |  |
| Worked full month | 3,567 | 465 |
| Worked less than month. | 66 |  |
| Without a job' . . | 174 | 4 |
| Not in labor force | 194 | 83 |
| Family income ${ }^{\text {2 }}$ |  |  |
| Under \$15,000 | 738 | 55 |
| \$15,000 to \$29,999 | 1,430 | 166 |
| \$30,000 to \$44,999 | 1,025 | 128 |
| \$45,000 and over | 750 | 204 |

[^10]Living arrangements of adult recipients. The majority ( 84 percent) of adult recipients of outside financial help lived in private homes, most likely their own; 6 percent lived in nursing homes, and another 10 percent lived in other situations (table I). Most dependent parents also continued to live in private homes ( 83 percent); only 9 percent lived in nursing homes. Approximately one-half ( 48 percent) of all dependent persons living in nursing homes were parents of their providers. However, old people often support other old people: about one-half of all dependent persons in nursing homes received support from persons who were themselves 65 years and over, most likely a noninstitutionalized spouse (table 4).

Table H. Amount of Annual Financial Support Received by Adults and Annualized Family Income of the Provider, by Relationsitip of the Supported Adult to the Provider

'Excludes 138,000 persons for whom relationship was not ascertained

Interestingly, the level of financial support did not vary significantly with the living arrangement of the recipient (table 5). The average amount of financial support for recipients living in private homes was $\$ 2,727$, not statistically different from that received by persons living in nursing homes $(\$ 2,886)$ or in other arrangetents $(\$ 2,644)$. This may be because providers have a limited amount of funds that they are willing and/or able to contribute, and this amount is independent of the recipients' condition or needs.

## WHO'S HELPING OUT-ODDS OF BEING A PROVIDER

The demographic profiles and typical support payments presented so far characterize along a single dimension the 6.3 million individuals providing financial
support to persons living outside their households. Now, the question arises: How likely is a person to volunteer or be asked or legally ordered to provide financial assistance to someone outside his or her home? Also, who are they likely to support and what factors will influence the size of the support payment? These ' questions can best be answered with multivariate statistical techniques that simultaneously assess the effect of many factors that influence both the likelihood of being a provider and the amount of payment.

Overall odds. The first line in table J shows the odds that any person 18 years and over in 1985 will be a provider of financial support to someone living outside his or her household. In this general case, the odds of being a provider are very low: for every one person providing support, there are 26 persons who do not.

Table I. Living Arrangements of Supported Adults, by Family Relationship to the Provider
(Numbers in thousands)


When the results are computed to show the odds of supporting either a child or an adult, the chances fall even lower: 1 to 39 for supporting a child and 1 to 73 for supporting an adult. ${ }^{\circ}$

While the observed distributions establish that the incidence of financial providers in the general population is low, some groups are more likely to be providers than others. Statistics in table J show the relative odds of being a provider for some relevant groups with contrasting sets of characteristics. These relative odds are derived from log-linear regressions which include the following factors: sex, marital status, age, years of school completed, and family income of the respondent (table E-1). That is, they take into account the effects of all these variables simultaneously on the likelihood that a person will be a provider.

The relative odds resulting from this computation clearly indicate that men and persons with marital disruptions are more likely than women and persons neither separated nor divorced to be providers-both by a 6 to 1 ratio. In general, persons 25 to 44 years old are al. It twice as likely to be providers as persons 65 years and over, and so also are persons living in families with incomes over $\$ 45,000$ the upper quartile of family incomes), compared to those living in families with incomes under $\$ 15,000$ (the lowest quartile). Moreover, it appears that persons who have attendeci college are not more likely to be providers to persons outside the household than are high school dropouts.

Because a person's age, marital status, and sex are directly associated with having dependent children, elderly parents, or ex-spouses, these characteristics have a greater bearing on the likelihood of a person being a provider than economic status or education. This suggests that the chances of being a provider are to a large extent independent of one's economic status but increase with age and the accumulation of family obligations. However, socioeconomic factors gain importance in determining the amount of payments.

Children. The second column in table $J$ illustrates the relatively high odds that men and separated/divorced persons face, compared with women and persons neither separated/divorced, in providing financial assistance for a child under age 21. Men are 11 times ${ }^{10}$ more

[^11]likely to be providers for their children living elsewhere than are women, and separated/divorced persons are 6 times more likely to be providers than currently married persons. The table also reveals that age is a very discriminating demographic factor; the odds that a young adult will be a child provider are 31 times as high as for an elderly person-a not unexpected result, as few persons 65 and over have young children.

All adults. Similar to support patterns found for children, men were more likely than women to support adults (by a 3 to 1 ratio) and persons with disrupted marriages were 4 times as likely to support an adult than were single/widowed persons. However, unlike the support patterns for children, elderly persons are twice as likely to support an adult as are persons 25 to 44 years old. A plausible explanation for this difference is that an elderly person's friends, aduit relatives, and parents are also likely to be elderly and, thus, more likely to be in need of financial assistance than the relatives and acquaintances of a young adult.

Family income appears to be more important in determining the likelihood of supporting an adult than a child. The odds that persons with family incomes over $\$ 45,000$ will provide outside support for an adult is 4 times greater than those for persons with family incomes less than $\$ 15,000$; this compares with 2 to 1 odds when the recipient is a child. Since average support payments to adults are considerably higher (by $\$ 1,000$ per recipient) than those to children, it is not surprising that financial assistance to adults more frequently comes from persons with higher family incomes. It also may be that persons in lower income categories having adult relatives or parents in need of assistance offe: nonmonetary assistance, or even take them into their own households, instead of offering financial aid.

Odds of providing parental or spousal support. The last two columns in table J show the odds of being a financial provider for either a parent or spouse/exspouse living outside the household. The overall odds of providing financial support for a parent are very low (1 in 208). Despite these odds, differences are still noted in the likelihood of providing financial assistance to a parent. Persons most likely to be parental providers are men and middle aged persons, rather than women or the ver; young or very old. In addition, persons in families with incomes of $\$ 45,000$ and over are 3 times more likely to be financially supporting their parents than are persons in families with incomes 'נnder $\$ 15,000$.

[^12]Table J. Odds of Providing Financial Support for a Person Living Outside the Provider's Household

| Category | All persons | Type of person supported |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Children | All adults | Parents | Spouse or ex-spouse ${ }^{1}$ |
| Overall odds of providing support ${ }^{2}$. . . .. . .... | 1: 26 | 1. 39 | 1-73 | 1208 | 1. 42 |
| Relative odds of providing support ${ }^{3}$ : <br> Male vs. Female | 61 | 111 | 31 | 21 | 10.1 |
| Separated/divorced vs.- |  |  |  |  |  |
| Single/widowed | 6: 1 | 9. 1 | 4 4 4 | $1 \cdot 1$ 11 | $(X)$ $(X)$ |
| Married, spouse present | 5: 1 | 6: 1 | 41 | 11 |  |
| Married, spouse absent vs.Separated | (X) | (X) | (X) | (X) | 5. 1 |
|  | (X) | (X) | (X) | (X) | 11. 1 |
| Interaction term (Mantal* Sex): <br> Male-sep/dv. vs. male-single/wid | 3. 1 | 4. 1 | 21 | (X) | (X) |
| 25 to 44 years vs. 65 years and oviar .. ... ... | 2: 1 | 31-1 | 12 | 2. 1 | 1: 2 |
| College, 1 or more years vs. less thian high school. | 1: 1 | 1: 1 | 1. 1 | 11 | 1-1 |
| Family income $\$ 45,000+$ vs. $<\mathbf{\$ 1 5 , 0 0 0} \ldots . . . . . .$. | 2: 1 | 2. 1 | 4. 1 | 3. 1 | 8: 1 |

$X$ Term not included in model.
Universe limited to persons separated, divorced, or marned spouse absent, at tume of the interview.
${ }^{2}$ Observed odds based on frequancy of reporting on being a provider for the total population 18 yaars and over.
"Relative odds derived from log-linear regression including all of the above variables plus the marital status" sex interaction term. Odds terms refer to relative odds of one category in a variable being more likely to be a provider than another category.

Source: Relative odds derived from log-linear regression in table E-1.

Although this study shows that in general providing financial support for parents is not a common requirement now, we can expect the odds to increase as the elderly population becomes an increasing share of the adult population.

The final set of provider odds, for the support of a spouse or ex-spouse, can be shown for on'. a subset of the population; the data from this particular SIPP supplement cannot identify all persons with separated or ex-spouses who are potential recipients of financial assistance. In order to evaluate reasonably well the likelihood of proviting spousal support, the universe selected for analysis consisted of currently separated (including married, spouse absent) and divorced persons.

Among the estimated 18.9 million persons in this population, only 442,000 (derived from table 2) reported providing financial support to an absent or ex-spouse. For this group, the overall odds of being a provider were 1 to 42. Men were 10 times more likely to be providers than fermales, as were persons with incomes of $\$ 45,000$ and oisy versus persons with family incomes under $\$ 15,000$.

The log-linear regression analysis also suggests that persons currently married but temporarily absent fróm their spouses are more likely than either separated or - - riced persons to be financial providers. Several ERICions can be cited to account for this finding. It
seems reasonable that temporarily separated spous-es-who have not suffered the ill-feelings accompanying a marital breakup-would be more obliging in providing financial assistance to each other. In fact, the presumption is that these families are still intact.

Secondly, persons currently divorced could have been divorced for many years and may be relieved of all financial responsibilities for spousal support, whereas recently separated persons may be under court order to provide financial assistance. Finally, the ex-spouses of currently divorced persons may have subsequently remarried, thereby releasing the former spouse of any financial obligations.

## SOME PROVIDER PROTOTYPES

To show more clearly how these odds can be interpreted in real life, composite profiles of individuals at various stages of the life cycle are shown in table K to illustrate their expected odds of providing support for either children, adults, or parents. These odds are based on log-linear models previously described; they illustrate the likelihood of being a provider among members of four prototype populations. Because the odds computations in table K reflect the effects of all the characteristics that go into the prototype, not just the effects of a single variable, they provide the more complete picture of a complex, real-life situation than would a simple statistic examining the individual effect of each specific variable.

Youth. Representing this group would be a young single male, 18 to 24 years old, who is a high school graduate and whose income is under $\$ 15,000$ per year. In 1985, an estimated 900,000 men fit this description based on this survey. The chances of any one of these youth providing financial support to someone living outside his household are very small, only about 1 in 200. The reasons are obvious: young people starting out in life have limited financial resources available to them, which restricts their ability to be a provider; they are at a stage in life when their parents are probably not yet old enough to require assistance; and they have yet to begin their own families or households, with all the financial obligations that entails.

Young adulthood. Numbering almost three-quarters of a million are men 25 to 44 years old, currently separated or divorced from their wives, having some college education, and with incomes between $\$ 15,000$ and $\$ 29,999$. This is the Baby-Boom generation, one-half of whose first marriages are predicted to end in divorce. ${ }^{11}$ The odds that men with all these characteristics will provide financial support to someone outside their homes are 1 to 2; these odds reflect not only their current marital situations but their age, education, and modest incomes. Moreover, only a small proportion of the parents of this young adult group are aged, and the odds that 25 - to 44 -year-old sons with the above characteristics are supporting them are correspondingly slight, only 1 to 138.

Maturity. Typifying this segment of the population is the married man with a college ecucation and a family income over $\$ 45,000$. About 3.2 million men fit this description; they are the fathers of the Baby Boom

[^13]ciildren. While the odds that these fathers will be providers for children (orily 1 to 33) are not nearly as high as for the previous group of young adults, they are now beginning to take more responsibility for providing assistance to aging parents.
Old age. The majority of persons 65 years old and over are women. Most women 65 years and over have not completed high school, and about two-thirds of them have family incomes under $\$ 15,000$; many ( 3.4 million) are low income, elderly widows. With these characteristics they are unlikely providers: for every woman in the group who is a provider, 276 are not. More likely they are to be found in the pool of recipients being helped by their children or other ielatives.

In general, these profiles present a kaleidoscope of changing providers and recipients as each group passes through various stages in life, frnm the young man with few present obligations, through all the provider years of young adulthood and maturity, to old age, when providership again becomes unlikely; we see support shift from young children on the part of 25 - to 44 -year-old providers, to assistance to adults and parents by middleand older-aged providers.
As the 21st century approaches and the huge Baby Boom cohorts age, we can expect large changes in the numbers in each age group: young adult and middleaged supporting groups will decline as a proportion of all adults and the dependent aged will become larger. How today's dependent children will fare in future networks will remain unclear until we know more about how many children they will have and the economic circumstances they will experience.

## DECIDING HOW MUCH-DETERMINANTS OF SUPPORT PAYMENTS

Having examined who is likely to be a provider of financial support, a similar analysis of the factors associated with the amount of financial assistance is presented in table L. As with characteristics of providers,

Table K. Illustrative Examples of Odds of Being a Provider for Selected Population Groups

| Characteristic | Youth | Young adulthood | Maturity | Old age |
| :---: | :---: | :---: | :---: | :---: |
| Age (years) . ..... . | 18-24 | 25-44 | 45-64 |  |
| Sex...... .... .. .. | Male | Male | 45-64 Male | $\begin{array}{r} 65+ \\ \text { Female } \end{array}$ |
| Education ..... | High school | Separated/divorced | Currently married | Widowed |
| Family income ...... | < $\$ 15,000$ | College, $1+$ years $\$ 15,000-\$ 29,999$ | $\begin{array}{r}\text { College. } 1+\text { years } \\ \$ 45,000+ \\ \hline\end{array}$ | Less than high school < \$15,000 |
| Odds of providing for- |  |  |  |  |
| Any recipient. . . | 1. 196 |  |  |  |
| Children.. . | 1. 230 | 1. 2 | 1.15 1 1 | 1:276 |
| Adults. . .. | 1993 | 122 | 1.30 | $1 \cdot 7.332$ 1.236 |
| Parents ..... | $1 \cdot 2,473$ | 1138 | 177 | $\begin{array}{r} 1 \cdot 236 \\ 1: 1,088 \end{array}$ |
| Estimated number of persons with characteristics (thous.) ... ..... | 919 |  |  |  |
|  | 919 | 728 | 3,229 | 3,430 |

[^14]the level of support is evaluated using multivariate regression analyses where the level of support is regressed on demographic and economic characteristics of the providers.

The analysis shows that the amount of financial assistance is related to the provider's ability to pay (family income, current marital status) and to the recipient's needs (type of recipient, number being supported). The provider's age, race, and sex were also included as demographic controls in the models. Further, since financial assistance depends in large part on the type of recipient, and since providers generally assist only one type of recipient, assistance is disaggregated to show that paid to children, parents, and spouses or ex-spouses.

The results in table $L$ show that the characteristics of providers that are significantly related to the level of payments are consistent with characteristics selective of providers noted earlier. The results for the total payments regression indicate that whites, males, separated/divorced persons and persons with higher educational attainment provided higher amounts of support. Not surprisingly, famiiy income was positively related to the level of support. Specifical'y, a marginal 1 percent increase in the total family income of the provide,
resulted in a 0.4 -percent incrcase in annual payments. The table also shows that payment levels increase with the number of persons being supported. In contrast to the log-linear analysis where we examined the likelihood of being a provider, the age of the provider did not have a significant effect on the level of assistance.

Similar results are found when the amount of financial assistance to children is examined. The economic and demographic groups most likely to have children in need of assistance are also the groups associated with relatively higl. child support paynents, namely, men with absent children and persons with marital disruptions. Financial support to children increases with the age of the provider, but decreases for the very old. A possible explanation for this curvilinear effect of age on the amount of child support is that the oldest providers have older children, who may de in need of less support.

When payments to adults are examined, the results differ in several respects from results when all payments were considered. In determining the amount of financial assistance to parents, demographic and social characteristics in the model were not statistically significant. Family income was the only consistently significant term positively related to the amount of support for either parents or spouses. This suggests that, since assistance for a parent is likely to be voluntary, the provider's

Table L. Regression Results for Amount of Financial Assistance Provided
(Dependient variable is the logarithm of the amount of financial assistance)

| Vanable | All recipients | Children | Parents | Spouses or ex-spouses |
| :---: | :---: | :---: | :---: | :---: |
| Age..... .. ........ ... . .... . . .. .... ... | $\begin{array}{r} 0.018 \\ (0.019) \end{array}$ | $\begin{gathered} 0102 * * \\ (0029) \end{gathered}$ | $\begin{array}{r} 0.075 \\ (0.078) \end{array}$ | $\begin{array}{r} -0.076 \\ (0.065) \end{array}$ |
| Age squared . ... .. .. .. .. . . ... | $-0.00009$ | -0.001** | -0.0009 $(0.0008)$ | 0.0009 $(0.0006)$ |
|  | (00002) | (0.0003) $0.221 * *$ | $(0.0008)$ 0091 | $(0.0006)$ 0.726 |
| Race (White = 1; All other = 0) . . . | $(0.105)$ | $\begin{array}{r} 0.221 \\ 101: 1) \end{array}$ | (0.329) | (0609) |
| Years of school completed .......... . . . . . . . | $0.043^{* *}$ | $0.032^{*}$ | $\begin{array}{r} 0050 \\ (0.040) \end{array}$ | $\begin{gathered} 0.097^{* *} \\ (0.049) \end{gathered}$ |
| Sex (Male=1; Fenrale =0)........ .. .. . .. .. | $0.507^{\text {t }}$ | $0521 * *$ | 0247 | 0.614 |
|  | $(0$ 109) | (0 157) | (0.267) | $(0493)$ |
| Marital status (Sep/div $=1 ;$ Other $=0$ ) | 0430** | $\begin{array}{r} 0.267^{* *} \\ (0.085) \end{array}$ | $\begin{array}{r} 0105 \\ (0450) \end{array}$ | ( X ) |
| Type of spouse (Spouse=1; Ex-spourse=0) ... | $10082)$ $(X)$ | (0.085) $(X)$ | (X) | $\begin{aligned} & 0489^{*} \\ & (0306) \end{aligned}$ |
| Number of persons supported. . . | $\begin{gathered} 0263 * * \\ (0045) \end{gathered}$ | (X) | $\begin{array}{r} -0121 \\ (0.172) \end{array}$ | $\begin{array}{r} -0120 \\ (0.187) \end{array}$ |
| Number of cinidren supported. . . . . . . . ... .. .. . | (X) | $\begin{array}{r} 0248^{* *} \\ (0.045) \end{array}$ | (X) | (X) |
| Supports children and adults ( $\mathrm{Yes}=1 ; \mathrm{No}=0$ ) | $\begin{array}{r} 0.554^{* *} \\ (0.176) \end{array}$ | $\begin{array}{r} 0225 \\ (0.149) \end{array}$ | $\begin{array}{r} .0434 \\ (0.960) \end{array}$ | $\begin{array}{r} -0.471 \\ (0476) \end{array}$ |
| Log of family income | $\begin{array}{r} 0393^{* *} \\ (0.053) \end{array}$ | $\begin{gathered} 0.413^{*} \\ (0.058) \end{gathered}$ | $\begin{array}{r} 0324^{* *} \\ (0158) \end{array}$ | $\begin{array}{r} 0454 * * \\ (0209) \end{array}$ |
| Constant . . . . . . . . .. ......... . . . . | $\begin{array}{r} 0.986 \\ (0593) \end{array}$ | $\begin{array}{r} -0.427 \\ (0.733) \end{array}$ | $\begin{array}{r} 1.317 \\ (2197) \end{array}$ | $\begin{array}{r} 1.802 \\ (2370) \end{array}$ |
| Number of cases (unweighted). <br> R-squared | 1,190 029 | $\begin{aligned} & 818 \\ & 029 \end{aligned}$ | 156 013 | 117 031 |

[^15]ability to pay becomes the most more important factor in determining the amount of the payment.

Family income is also significant and positively related to the amount of financial support for separated or former spouses. In addition, the educational level of the provider and the type of spouse supported (separated spouse versus an ex-spouse) were significant, the latter variable reflecting the higher initial costs incurred during a recent marital dissolution, rather than support payments for former spouses divorced long ago.

## CONCLUSION

This report introduces a new data set from the SIPP on the presence and prevalence of nonpublic financial networks among U.S. households. The results indicate that the likelihood of providing and receiving financial assistance is determined by the lifecycle status of both providers and recipients, while the amount of payment is more importantly determined by the financial resources
of the providers. Thus, the siuuly reveals that the most frequent causes for financial need among absent household members are marital disruption and the aging process; it also suggests that families vary more in their abilities to pay than in their reasons for supporting outside members.

While information on the importance of outside support to the families and individuals receiving it is limited, the survey does show that child support makes up 11 percent of the annual family income of women receiving this type of rinancial support. Information on the portion of total income that outside support payments contributed to other individuals and family units was not available. Missing also are data on the prevalence of nonfinancial assistance, such as help in performing basic activities and daily chores. Only a study which probes both sides of the support network, assessing and linking providers and recipients, can provide data that will permit evaluation of the full role of informal support networks in coritemporary American society.

Table 1. Annual Financlal Support Provided and Annuallzed Famlly Income of Provider, by Type of Person Supported and Selected Characteristics of the Provider
Part A. All Providers
(Persons in thousands)


[^16]
## Table 1. Annual Financial Support Provided and Annualized Family Income of Provider, by Type of Persons Supported and Selected Characteristicsof Provider-Continued Part B. Providers Supporting Chlidren

(Persons in thousands)

| Charestenstic of provider | Number of providers | Amount of support |  | Annual family income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean | Standard error | Mean | Standard error |
| Total | 4,326 | \$2,607 | \$113 | \$34,260 |  |
| Sex |  |  | \$173 | \$34,260 | \$1,808 |
| Men | 4,001 | 2,694 | 117 |  |  |
| Women | 324 | 2,694 1,545 | 117 | 33,863 39,148 | 1,858 7,395 |
| Age |  |  | 271 | 39,148 | 7.385 |
| 18 to 24 years | 180 | (B) |  |  |  |
| 25 to 44 years | 3,240 | 2,610 | (B) | (B) 32.425 | (8) |
| 45 to 64 years. | 3,240 876 | 2,610 2,882 | 129 267 | 32,425 40,620 | 1,691 3,850 |
| 65 years and over | - 30 | 2,882 (B) | 267 (B) | 40,620 (B) | 3,850 (B) |
| Martal status ${ }^{\text {a }}$ (B) (B) |  |  |  |  |  |
| Marred, spouse present | 1.986 | 2,436 | 133 |  |  |
| Separared' | 553 | 3,063 | 511 | 44,595 30,464 | 3.554 |
| Widowed | 58 | (B) | (B) | 30,464 | 2,739 (B) |
| Divorced | 1.500 | 2,901 | 182 | (B) 24.887 | (B) |
| Never marned | 229 | 1,202 | 156 | 17,259 | 1,859 |
| MEN SUPPORTING CHILDREN |  |  |  |  |  |
| Total | 4,001 | 2,694 | 117 |  |  |
| Supports children and adults | 337 | 4,456 | 635 | 33,863 41,895 | 1,858 |
| Supports children only | 3,664 | 4,456 2,531 | 635 110 | 41,895 33,124 | 6,003 |
| Number of children supported |  |  |  |  |  |
| One child ${ }^{\text {Two children }}$ | 2,113 | 1,876 | 101 | 32,563 | 1,810 |
| Three or more children | 1,374 515 | 3,339 | 207 | 34,531 | 3,105 |
|  |  |  |  |  |  |
| White | 3,363 | 2829 |  |  |  |
| Black |  | 2,829 | 133 | 35,414 | 2,148 |
| Other | 559 | 2,076 | 189 | 23,559 | 1.562 |
| Hispanic ongin <br> Non-Hispanic |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Hispanic | +162 | 2,647 | 120 | 33,975 | 1,925 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 25 to 44 years | - 049 | (8) 2703 | (B) | (B) | (B) |
| 45 to 64 years | 3,049 765 | 2,703 | 136 | 32,912 | 1,787 |
| 65 years and over. | 765 16 | 2,957 | 285 | 37,028 | 3,512 |
|  |  |  |  |  |  |
| Householder O, spouse | 3,190 | 2,632 | 117 |  |  |
| Other relative | 432 | 2,120 | 331 | 35,722 | 2,236 |
| Nonrelative . | 379 | 2,120 | 331 646 | 33,151 | 4,032 |
|  |  |  |  |  |  |
| Marred, spouse present | 1,827 | 2,488 | ;40 |  |  |
| Separated ${ }^{1}$ | 532 | 2,489 | 140 | 43,626 | 3.696 |
| Widowed | 532 35 | 3,129 | 529 | 30,780 | 2,842 |
| Divorced | + 415 | $\begin{array}{r}\text { (B) } \\ \hline\end{array}$ | (B) | (B) | (B) |
| Never married | 1,415 192 | 2.992 | 191 | 24,868 | 1,357 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| High school | 1,549 | 2,492 | 200 | 22,852 | 1.557 |
| College, 1 year or more | 1,733 | 2,492 3,141 | 200 | 31,558 | 3,887 |
|  |  |  |  |  |  |
| Worked full month | 3,567 | 2,817 | 131 | 35,170 | 1.638 |
| Worked less than month | 66 | (B) | (B) | (B) | (B) |
| Without a job ${ }^{2}$ Not in labor force | 174 | (B) | (B) | (B) | (B) |
| Not in labor force | 194 | (B) | (B) | (B) | (B) |
|  |  |  |  |  |  |
| \$15,000 to \$29,999 |  | 1,654 | 159 | 9,636 | 419 |
| \$30,000 to \$44,999 | 1,430 | 2,419 2,907 | 145 | 22,684 | 347 |
| \$45,000 and over . | 1,025 750 | 2,907 | 207 | 36,759 | 449 |
|  | 750 | 3,915 | 414 | 77,681 | 7,815 |

${ }^{2}$ Includes persons who were on layoff or looking for work at least 1 week last month
${ }^{3}$ Excludes persons with no family income

Table. 1. Annual Financlal Support Provided and Annualized Family Income of Provider, by Type of Person Supportec and Selected Characteristics of Provider-Continued
Part C. Providers Supporting Adults
(Persons in thousands)

| Characteristic of provider | Number of providers | Amount of support |  | Annual tamily income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean | Standard error | Mean | Standard error |
| Total | 2,316 | \$3,276 | \$375 | \$45,399 | \$3,064 |
| Child(ren) also supported | 2,366 | 3.977 | 794 | 43,518 | 6,196 |
| Child(ren) also supported Adults only supported | 1.949 | 3,144 | 419 | 45.753 | 3.452 |
| Number of adults supported One person | 1,906 | 3.083 | 412 | 46,000 | 3,604 |
| Two persons | 324 | 3,894 | 948 | 40,579 | 4,451 |
| Three or more persons | 86 | (B) | (B) | (B) | (B) |
| Race. | 1,970 | 3.463 | 428 | 47,391 | 3,505 |
| White | 188 | (B) | (B) | (B) | (B) |
| Other | 158 | (B) | (B) | (B) | (B) |
| Hispanic origin Non-Hispanic | 2,144 | 3,381 | 400 | 46,099 | 3,054 |
| Non-Hispanic Hispanic | 2,172 | (B) | (B) | (B) | (B) |
|  | 1,616 | 3,781 | 492 | 49,424 | 4,124 |
| Female | 700 | 2.109 | 467 | 36,100 | 3,259 |
| Age <br> 18 to 24 years | 39 | (B) | (B) | (B) | (B) |
| 18 to 24 years | 911 | 2.541 | 446 | 41,658 | 4,876 |
| 45 to 64 years | 978 | 3.437 | 432 | 54,835 | 5,297 |
| 65 years and over | 388 | 4,658 | 1.612 | 32,180 | 3,646 |
| Household relationship Householder or spouse | 2,073 | 3,289 | 409 | 47,112 | 3,381 |
| Other relative | 102 | (B) | (B) | (B) | (B) |
| Nonrelative | 141 | (B) | (B) | (B) | (B) |
| Mantal status | 1,365 | 2,655 | 439 | 52,534 | 4,152 |
| Marred, spouse present | 284 | 6,588 | 1,697 | 44,009 | 12,259 |
| Widowed | 91 | (B) | (B) | (B) | (B) |
| Divorced | 371 | 3.554 | 708 | 32,702 | 4,556 |
| Never marned | 205 | 2,188 | 529 | 30,305 | 3,765 |
| Years of school completed | 433 | 1,946 | 490 | 27,865 | 3,275 |
| Less than high school | 686 | 2,149 | 322 | 38,603 | 5,343 |
| College, 1 year or more | 1,197 | 4,402 | 660 | 55,635 | 4,743 |
| Employment status |  |  |  |  |  |
| Worked full month | 1.753 | 3.129 |  | 49.979 (B) | (B) |
| Worked less than month | 21 | (B) | (B) | (B) | (B) |
| Without a job ${ }^{2}$ | 31 | (B) | (B) | 31,708 | 3,70\% |
| Not in labor force | 512 | 3,959 | 1.323 | 31,70 |  |
| Family incoms ${ }^{3}$ Under $\$ 15,000$ | 306 | 1.408 | 306 | 9.938 | 692 |
| \$15,000 to \$29,999 | 639 | 2,477 | 437 | 22,901 | 529 |
| \$30,000 to \$44,999 | 595 | 2,556 | 412 | 37,131 | 573 |
| \$45,000 and over | 768 | $5,2=3$ | 968 | 85,097 | 7,275 |

B Base too small to show derived estimate
Includes married, spouse absent
${ }^{2}$ Includes persons who were on layoff or looking for work at least cne week last month
${ }^{3}$ Excludes persons with no family income

Table 2. Relattonshlp of Adults Supported Outside the Provider's Household, by Selected Characteristics
(Pereons in thousands)


[^17]Table 3. Solected Characteristics of Women Recelving Child Support Payments: 1985
(Persons in thoustends)

| Characteristic of women receiving support payments | Number of women | Arrual child support payments |  | Annualized famty income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Meen | Standard error | Mean | Standard error |
| Women, 18 to 64 years old . . . . . . | 89,602 | (X) | (X) | \$29,925 | \$376 |
| Suppoeed to receive child support. . . . .. . | 5,179 | (X) | (X) | 23,020 | 918 |
| Actually recelved child support . ..... . .. | 4.017 | \$2.506 | \$117 | 23.545 | 1.111 |
| Rece and Hispankc origin. White | 3.406 | 2,682 | 134 | 24.948 | 1.277 |
| Black. . . . . . . . . . . . . . . . . . . . . . . | . 563 | 1.429 | 144 | 15.254 | 1,430 |
| Hispanic origin ${ }^{1}$. ..... . . . | 208 | 2.088 | 435 | 21,224 | 4.981 |
| Age <br> 18 to 24 years old | 301 | 1,450 | 162 | 13.457 | 2.389 |
| 25 to 44 years old | 3.402 | 2,474 | 109 | 23.712 | 1,222 |
| 45 to 64 years old. | 314 | 3.872 | 868 | 31.388 | 4,189 |
| Marital status: | 1.161 | 2.034 | 140 | 37.479 | 3.089 |
| Married. Separated ${ }^{2}$ | $\bigcirc$ | 2.977 | 427 | 16,467 | 1.402 |
| Widowed. | 10 | (B) | (B) | (B) | (B) |
| Divorced . . ... . | 1.901 | 2.860 | 167 | 18,974 | 958 |
| Never married . | 268 | 908 | 137 | 13.659 | 2.441 |
| Years of school rompleted: Less than high school | 726 | 1,737 | 150 | 15,942 | 1.594 |
| High school . . . . . | 1,817 | 2,266 | 124 | 21.080 | 1.004 |
| College: 1 to 3 years . | 1.045 | 2,865 | 320 | 28.090 | 3,364 |
| 4 or more years . . . . . . | 428 | 3.957 | 441 | 35.812 | 3,175 |
| Employment status: <br> In labor force | 3.177 | 2.530 | 136 | 25,535 | 1.320 |
| With a job .. . . . . . . . . . . . . . . | 2.904 | 2.558 | 145 | 26,908 | 1.412 |
| Worked all weeks last month. . . . . . | 2.764 | 2.608 | 150 | 27.356 | 1.468 |
| Worked part of last month. . | 140 | (B) | (B) | (B) | (B) |
| Witnout a joo, lookng ior wotk, un layoil | 272 | 2.292 | 371 | 10.920 | 1,837 |
| Not in labor force . . . . . . . . . . | 840 | 2.419 | 223 | 16,015 | 1.840 |
| Frequency of payments' Regular | 3.126 | 2,891 | 141 | 23.963 | 1.317 |
| Regular <br> Occasional | + 457 | 1,409 | 187 | 22.841 | 2.524 |
| Seldom | 387 | 946 | 182 | 20,707 | 3.146 |
| Never .. . . . . . . . | 46 | (B) | (B) | (B) | (B) |
| Type of agreement. |  |  |  | 23.614 | 1.720 |
| Voluntary agreement. | 1.064 2.718 | 2,870 2,420 | 212 148 | 23,614 24,296 | 1.477 |
| Court-ordered <br> Other | 2.718 235 | 2,420 1,854 | 148 | 24,296 14.537 | 1,477 2,356 |
| Payments received. |  | 2.874 | 185 | 26,912 | 1,944 |
| Directly from father . . | 1,599 | 2.219 | 154 | 21.517 | 973 |
| Through a court . . . . . | 252 | 1,206 | 187 | 9.575 | 1,875 |
| Some other method . . . . | 73 | (B) | (B) | (B) | (B) |

X Not applicable
B Base too small to show derived measures
'Persons of Hispanic origin may be of any race
${ }^{2}$ includes marred, spouse absent
Source: SIPF Wave 5. 1984 panel topical module on child support

Table 4. Living Arrangements of 'dults Supported Outside the Provider's Household, by Relationship

'Includes 138,000 persons for whom relationship was not ascertained
${ }^{2}$ Inctudes , 'arned, spouse absent.
includes persons on layoff or looking for work at least one week last menth
${ }^{4}$ Excludes persons with no famly income

Table 5. Annual FInancial Suppori Recelved by Adults and Annualized Family Income of the Providers, by Living Arrangement of Person Recelving Support
(Persons in thousands)

| Residence of persor | ving support | Number of adults supported ${ }^{1}$ | Amount of support recerved |  | Amount of family income |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Mean | Standard error | Mean | Stiandard error |
| Total |  |  | \$2,728 |  |  |  |
| In private home |  | 2,294 | 2,728 2,727 | $\mathbf{3} 11$ 301 | \$44,873 | $\$ 2,688$ |
| In nursing home. Other arrangement |  | 2,294 | 2,727 | , 301 | 47,467 27,332 | 3,087 $\mathbf{5 , 9 8 2}$ |
| Other arrangement |  | 265 | 2.644 | 1.702 | 27,300 34,500 | $\begin{aligned} & 5,962 \\ & 4,814 \end{aligned}$ |

[^18]
# Appendix A. Overview of the SIPP Program 

## BACKCiROUND

The Survey of Income and Program Participation (SIPP) provides a major expansion in the kind and amount of information available to analyze the economic situation of households and persons in the United States. The information supplied by this survey is expected to provide a better understanding of the level and changes in the level of well-being of the population and of how economic situations are related to the demographic and social characteristics of individuals. The data collected in SIPP will be especially useful in studying Federal transfer programs, estimating program cost and effectiveness, and assessing the effect of proposed changes in program regulations and benefit levels. Analysis of other important national issues such as tax reform, Social Security program costs, and national health insurance can be expanded and refined, based on the information from this new survey.
The first interviews in the SIPP took place in October 1983, nearly 8 years after the research and developmental phase, the Income Survey Development Program (ISDP), was initiated by the Department of Health, Education, and Welfare, in 1975. Between 1975 and 1980 extensive research was undertaken to design and test new procedures for collecting income and related socioeconomic data on a subannual basis and in a longitudinal framework. Much of the work centered around four experimental field tests that were conducted in collaboration with the Bureau of the Census to examine different concepts, procedures, questionnaires, and recall periods. Two of the tests were restricted to a small number of geographic sites; the othar two were nationwide. In itie first netionivide test, the 1978 Research Panel, approximatei, 2,000 ', ouseholds were interviewed. Because of the relatively small number of interviews, controlled experimental comparisons of altematives were not possible; however, the panel did demonstrate that many new ideas and methods were feasible. It also laid a foundation for the largest and most complex test: the 1979 Research Panel. This panel consisted of a nationally representative sample of 8,200 households and provided a vehicle for feasibility tests and controlled experiments of alternative design features.

In the fall of 1981, virtually all funding for ISDP research and planning of the continuing SIPP progiam was deleted from the budget of the Social Security O linistration. The loss of funding for fiscal year 1982
brought all work on the new survey to a halt. In fiscal year 1983, however, money for initiation of the new survey was allotted in the budget of the Bureau of the Census. Work began almost immediately in preparation for the survey start in October 1983. The design of the questionnaire for the first interview was similar in structure to that used in the 1979 ISDP panel study with two important exceptions. First, the reference period for the questions was extended from 3 months to 4 months in order to reduce the number of interviews and, therefore, lower costs. Second, the questions covering labor force activity were expanded in order to provide estimates that were closer, on a conceptual basis, to those derived from the Current Population Survey (CPS). The design also incorporated a number of other modifications resulting from experience with the : 979 pilot study.

## SURVEY CONTENT

There are three basic elements contained in the overall design of the survey content. The first is a control card that serves several important functions. The control card is used to record basic social and demographic characteristics for each person in the household at the time of the initial interview. Because households are interviewed a total of 8 or 9 times, the card is also used to record changes in charactenstics such as age, educational attainment, and merital status and to record the dates when persons enter or leave tha household. Finally, during each interview, information on each source of income received and the name of each job or business is transcribed to the card so that this information can be used in the updating process in subsequent interviews.

The second major element of the survey content is the core portion of the questionnaire. The core questions are repeated at each interview and cover labor force activity, the types and amounts of income received during the 4 -month reference period, and participation status in various programs. Some of the important elements of labor force activity are recorded separately for each weekr the period. Income recipiency and amounts are r6uurded on a monthly basis with the exception of amounts of property income (interest, dividends, rent, etc.). Data for these types are recorded as totals for the 4 -month period. The core also contains questions covering attendance in postsecondary schools,
private health insurance coverage, public or subsidized rental housing, low-income energy assistance, and school breakiast and lunch participation.

The third major elamerit is the various supplements or topical modules that will be included during selected househoid visits. The topical modules cover areas that need not be examined every 4 months. Certain of these topical modules are corisidered to be so important that they are viewed as an integral part of the overall survey. Other topical modules have more specific and more limited purposes. No topical mndules were included in the first or second waves of S! ${ }^{3}$ during the first year of the survey. (See the following section on sample design and table A-1 for a definition of the term "weve.") ine third wave topical module covergd (1) educat .tainment, ??) work history, and (3) health cha -uteristics (including disability). The fourth wave topical module covered (1) assets and liabilities, (2) pension plan coverage, and (3) housing characteristics. The fifth wave topical module covared (1) child care, ( 9 ) child support agreements, (3) support for nonhousehuid n, 3 Inbers, (4) program participation history, and (5) reasons for not working. The sixth wave topical module covered (1) earnings and benefits, (2) property income and taxes, and (3) education and training.

## SAMPLE DESIGN

The SIPP sample design for the 1984 panel consists of about 26,000 housing units selected to represent the noninstitutional population of the United States. (See appendix C for more details on the proceciures used to select the sample.) About 20,900 of these were occupied and eligible for interview. Table A-1 shows the sample dэsign for the first panel of SIPP. Each household in the sample was scheduled to be interviewed at 4 -month intervals over a period of $21 / 2$ years beginning in October 1983. The reference period for the questions is the 4 -month period preceding the interview. For example, households interviewed in October 1983 were asked questions for the months June, July, August, and September. This household was interviewed again in February 1984 for the October through January period. The sample households within a given panel are divided into four subsamples of nearly equal size. These subsamples are called rotation groups and one rotation group is interviewed each month. In general, one cycle of four interviows covering the entire sample, using the same questionnaire: is called a wave. This ciesign was chosen because it provides a smooth and steady work load for data collection and processing.
A new panel of smaller size was introduced in February 1985 and has been introduced in February of each succeeding year. This overlapping design provides a larger sample size trom which cross-sectional estimates can be made. The overlap also enhances the
survey's ability to measure change by lowering the standard errors on differences between estimates for two points in time.

## SURVEY OPERATIONS

Data collection operations are managed through the Census Bureau's 12 permanent regional offices. A staff of interviewers assigned to SIPP conduct interviews by personal visit each month with most interviewing completed during the first 2 weeks of that month. Completed questionnaires are transmitted to the regional offices where they undergo an extensive clerical edit before being entered into the Bureau's SIPP data processing system. Upon entering this processing system the data are subjected to a detailed computer edit. Errors identified in this phase are corrected and computer processing continues.

Two of the major steps of computer processing are the assignment of weights to each sample person and imputation for missing survey responses. The weighting procedures assure that SIPP estimates of the number of persons agree with independent estimates of the population within specified age, race, and sex categories. The procedures also assure close correspondence with monthly CPS estimates of households. In almost all cases, a surve; nonresponse is assigned a vatue in the imputation phase if processing. The imputation for missing responses 's based on procedures generally referred to as the "hot deck" approach. This approacti, assigns values for nonresponses from sample persons who did provide responses and who have characteristics similar to those of the nonrespondents.

The longitudinal design of SIPP dictates that all persons 15 years old and over present as household members at the time of the first interview be part cf the survey throughout the entire 2-1/2 year period. To meet this goal, the survey collects information useful in locating persons who move In addition, field procedures were establishod that allow for the transfer of sample cases between regional offices. Persons moving within a 100 -mile radius of an original sampling area (a county or group of counties) are followed and continue with the normal personal interviews a! 4-month intervals. Those moving to a new residence that falls outside the 100 -mile radius of any SIPP sampling area are interviewed by telephone. The geographic areas defined by these rules contain more than 95 percent of the U.S. population.

Because most types of analysis using SIPP data will be dependent not on data for indiviguals but on groups of individuals (households, families, etc.), provisions were made to interview all "new" persons living with criginal sample persons (those interviewed in the first wave). These new sample persons entering the survey through contact with original sample persons are considered as part of the sample only while residing with the original sample person.

Table A-1. Design of filirst SIPP Pand

| Rotation | Wave | Interview moith | Reference months |
| :---: | :---: | :---: | :---: |
| 1 | 1 | Oct. 83 | June, July, Aug., Sept. (83) |
| 2 | 1 | Nov. 83 | July, Aug., Sept., Oct. (83) |
| 3 | 1 | Dec. 83 | Aug., Sept., Oct., Nov. (83) |
| 4 | 1 | Jan. 84 | Sept., Oct., Nov., Dec. (83) |
| 1 | 2 | Feb. 84 | Oct., Nov., Dec. (83), Jan. (84) |
| 2 | 2 | March 84 | Nov., Dec. (83), Jan., Feb. (84) |
| 3 | 2 | April 84 | Dec. (83), Jan., Feb., March (84) |
| 4 | 3 | May 84 | Jan., Feb., March, April (84) |
| 1 | 3 | June 84 | Feb., March, Aprl, May (84) |
| 2 | 3 | July 84 | March, April, May, June (84) |
| 3 | 3 | Aug. 84 | April, May, June, July (84) |
| 4 | 4 | Sept. 84 | May, June, July, Aug. (84) |
| 1 | 4 | Oct. 84 | June, July, Aug., Sept. (84) |
| 2 | 4 | Nov. 84 | July, Aug., Sept., Oct. (84) |
| 3 | 4 | Dec. 84 | Aug., Sept., Oct., Nov. (84) |
| 4 | 5 | Jan. 85 | Sept., Oct., Ncr., Dec. (84) |
| 1 | 5 | Feb. 85 | Oct., Nov., Dec. (84), Jan. (85) |
| 2 | 5 | March 85 | Nov., Dec. (84), Jan., Feb. (85) |
| 3 | 5 | April 85 | Dec. (84), Jan., Feb., March (85) |
| 4 | 6 | May 85 | Jan., Feb., March, April (85) |
| 1 | 6 | June 85 | Feb., March, April, May (85) |
| 2 | 6 | July 85 | March, April, May, June (85) |
| 3 | 6 | Aug. 85 | April, May, June, July (85) |
| 4 | 7 | Sept. 85 | May, June, July, Aug. (85) |
| 1 | 7 | Oct. 85 | June, July, Aug., Sept. (85) |
| 2 | 7 | Nov. 85 | July, Aug., Sept., Oct. (85) |
| 3 | 7 | Dec. 85 | Aug., Sept., Oct., Nov. (e5) |
| 4 | 8 | Jan. 86 | Sept., Oct., Nov., Dec. (85) |
| 1 | 8 | Feb. 86 | Oct., Nov., Dec. (85), Jan. (86) |
| 2 | 8 | March 86 | Nov., Dec. (85), Ja'n., Feb. (86) |
| 3 | 8 | April 86 | Dec. (85), Jan., Feld., March (86) |
| 4 | 9 | May 86 | Jan., Feb., March, April (86) |
| 1 | 9 | June 86 | Feb., March, April, May (86) |
| 2 | 9 | July 86 | March, April, May, June (86) |
| 3 | 9 | Aug. 86 | April, May, June, July (86) |

# Appendix B. Definitions and Explanations 

Population coverage. The estimates in this report are restricted to the civilian noninstitutional population of the United States and members of the Armed Forces living off post or with their families on post. The estimutes exclude persons in group quarters.

Age. The age of the person is based on the age of the person at his last birthday. The adult population in this report comprises persons 18 years old and over.

Race. The population is divided into three groups on the basis of race: White, Black, and "other races." The last category includes American indians, Asian/Pacific Islanders, and any other race except White and Black.

Hispanle origin. Persons of Hispanic origin were determined on the basis of a question that asked for selfidentification of the person's origin or descent. Fiespondents were asked to select their origin (or the origin of some other household member) from a "flashcard" listing ethnic origins. Hispanics were those who indicated that their origin was Mexican, Puerto Rican, Cuban, Central or South American, or some other Spanish origin. It should be noted that Hispanics may be of ary race.

Marital status. The marital status classification identifes four major categories: never married, married, widowed, and divorced. These terms refer to the marital status at the time of the enumeration.

The category "married" is further divided into "married, spouse present," "separated," and "other married, spouse absent." A person was classified as "married, spouse present" if the husband or wife was reported as a member of the household, even though he or she may have been temporarily absent on business or on vacation, visiting, in a hospital, etc., at the time of the enumeration. Persons reported as separated included those with legal separations, those living apart with intentions of obtaining a divorce, and other persons permanently or temporarily separated because of marital discord. The group "other married, spouse absent" includes married persons living apart because either the husband or wife was employed and living at a considerable distance from home, was serving away from home in the Armed Forces, had moved to another area,
O I a different place of residence for any other ERICi except separation as defined above.

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

A household includes the related family members and all the unrelated persons, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone in a housing unit, or a group of unrelated persons sharing a housing unit as partners, is also counted as a household. The count of households excludes group quarters.

Family. A family is a group of two persons or more (one of whom is the householder) related by birth, marriage, or adoption and residing together; all such persons (including related subfamily members) are considered as members of orie family.

Provider. As used in this report, "provider" refers to a person 18 years old and over who in 1985 made regular cash payments for the support, full or partial, of one or more persons not living with them in their household.

Reciplent. Persons identified in the survey as regularly receiving financial assistance (in any amount) from someone not living in the household with them. Recipients can be of any age, they may maintain their own ramily, be parents or other relatives of their provider, or unrelated to the person providing the support.

Children. The term "children" in this report refers to the sons and daughters under 21 years old of a provider.

Adults. The complementary category "adults" includes parents, spouses and ex-spouses, own children 21 years and over, and all other relatives and nonrelatives for whom financial support was regularly provided regardless of age.

Support payment. The phrase "support payinent" in this report refers to regular cash payments during the 12-month period prior to the interview made to someone living outside the provider's household. These payments include court-ordered alimony, as well as voluntary regular cash payments to ex-spouses and children,
including assistance with living expenses for children 21 and over no longer living in the parental home, as well as payment for support of individual foster children, e.g. foster parent plans for the support of children living overseas. In the survey, payments were recorded in dollar amounts and shown in the tables as annual amounts.

Not included in support payments are cash gifts and cash transfers for educational expenses to own children living temporarily away from home at scnool, and noncash assistance, such as food, clothing, or other services to individuals.

Living arrangement. For the first two persons identified as recipients of outside support, a question was inclued asking whether during the past 12 months the person had lived in a private home or apartment, a nursing home, or someplace else.

With a job. Persons are classified as "with a job" during the period if, during the 4-month reference period, either (a) they worked as paid employees or worked in their own business or profession or on their own farm or worked without pay in a far"y business or farm or (b) were tomporarily absent from work either with or without pay. In general, the word "job" implies an arrangement for regular work for pay where payment is in cash wages or salaries, at piece rates, in tips, by commission, or in kind (meals, living quart?rs, supplies received). In this report, "job" also includes self-employment at a business, professional practice, or farm. A business is defined as an activity that involves the use of machinery or equipment in which money has been invested or an activity requiring an office or "place of business" or an activity that requires advertising. Payment may be in the form of profits or fees.

The Surrent Population Survey (CPS), the official source of 'abor force statistics for the Nation, uses the same defirition for a job or business. The term "with a job," however, should not be confused with the term "employed" as used in the CPS. In SIPP, "with a job" includes those who were temporarily absent from a job because of layoff and those waiting to begin a new job in 30 days; in the CPS these persons are not considered employed, but are classified as "unemployed."

Looking for work. Persons who "looked for work" during the entire period are those who (a) were without a job during dt least 1 week during the 4 -month reference period, (b) tried to get work or establish a business or profession and (c) were available to accept a jub. Examples of jobseeking activities are (1) registering at a public or private employment office, (2) meeting with prospective employers, (3) investigating possibilities for starting a professional practice or opening a business, (4) placing or answoring advertisments, (5) writing letters of application, (6) being on a professional register, IC (7) asking friends or relatives.

In addition, persons were on "layoff" during the 4-month reference period if they were "with a job" but "absent without pay" from that job for at least 1 full week during that period, and they responded that their main reason for being absent from their job o- business was "layoff." In this report, the figures for persons "on layoff" also include a small number of persons who responded that they were waiting to report to a new wage and salary job that was to begin within 30 days.
In labor force. The phrase "in the labor force" as used in this report includer all persons with a job (as defined above) and those looking for work or on layoff from a job for at least 1 week during the 4 -month reference period. Conversely, those persons "with no labor force activity" had no job, were not on layoff from a job and made no effort to find a job during the entire 4-month reference period.

Famlly Income. Family money income represents the total money income of all members of the family. Family money income in this report is limited to money income before payment of Federal, State, local, or Social Security taxes and before any other types of deductions such as union dues and Medicare premiums. Total income is the sum of the amounts received from wages, salaries, self-emplo;'ment income (including losses), Social Security, Supplemental Security income, public assistance, interest, dividends, rent, veterans' payments, unemployment and workers' compensations, and any other source ef money income which was regularly received.
Annuallzed family Income. The average monthly family income received from all sources by all members of the family for the 4 -month month period prior to the interview was computed. This monthly average was then multiplied by 12 to give the annualized family income shown in the tables of this report.
Years of school completed. Data on years of school completed in this report are derived from the combination of arsswers to questions concerning the highest grade of school attended by the person and whether or not that grade was completed. The following categories used in this report are based on the number of years of school completed: not a ligh school graduate (less than 12 years); high school graduate ( 12 years); college 1 to 3 years ( 13 through 15 years); and college, 4 or more years (16 or more years of school completed).
Symbols. A dash ( - ) represents zero or a number which rounds to zero; "B" means that the base is too small to show the derived measure (less than 200,000 persons); NA means not available, and X means not applicable.
Rounding of estimates. Individual numbers are rounded to the nearest thousand without being adjusted to group totals, which are independently rounded. Derived measures are based on unrounded numbers when possible; otherwise, they are based on the rounded numbers.

# Appendix C. Source and Reliability of Estimates 

## SOURCE OF DATA

The data were collected during the fifth wave of the 1984 panel of the Survey of Income and Program Participation (SIPP). The SIPP universe is the noninstitutionalized resident population of persons living in the United States. ${ }^{1}$ However, this report excludes information collected from the farm population and persons living in group quarters.

The 1984 panel SIPP sample is located in 174 areas comprising 450 ccunties (isrduding one partlal county) and independent cities. Within these areas, the bulk of the sample consisted of clusters of 2 to 4 living quarters, systematically selected from lists of addresses prepared for the 1970 decennial census. A small sample of living quarters bullt after the 1970 decennial census was also selected.

Approximately 26,000 living quarters were designated for the sample. For Wave 1, interviews were obtained from the occupants of about 19,900 of the designated living quarters. Most of the remaining 6,100 living quarters were found to be vacant, demolished, converted to nonresidential use, or otherwise ineligible for the survey. However, approximately 1,000 of the 6,100 living quarters were not interviewed because the occupants refused to be interviewed, could not be found at home, were temporarily absent, or were otherwise unavallable. Thus occupants of about 95 percent of all eliglble living quarters participated in Wave 1 of the survey.

For the subsequent waves, only original sample persons (those interviewed in the first wave) and persons llving with them were eligible to be interviewed. With certain restrictions, original sample persons were to be followed if they moved io a new address. All noninterviewed households from Wave 1 were automatically designated as noninterviews for all subsequent

[^19]waves. When original sample persons moved without leaving forwarding addresses, moved to remote parts of the country, or refused to be interviewed, additional noninterviews resulted.

Noninterviews. Tabulations in this report weie drawn from interviews conducted from January through April 1985. Table C-1 summarizes information on nonresponse for the interview months in which the data used to produce this report were collected.

Table C-1. Household Sample Size, by Month and Interview Status

| Month | Eliglble | Interviowed |  | Nonresponse rate (\%) |
| :---: | :---: | :---: | :---: | :---: |
| January 1985 | 5600 | 4700 | 900 | *16 |
| Februaly 1985. | 5600 | 4700 | 1000 | 17 |
| March 1985**. | 4600 | 3800 | 800 | 18 |
| April 1985 | 4700 | 3800 | 900 | 18 |

* Due to rounding of all numbers at 100 , there are some inconsistencies. The percentage wae calculated using unrounded numbers.
** Starting in March 1985, a sample cut was implemented for budgetary reasons.

Some respondents do not respond to some of the questions. Therefore, the overall nonresponse rate for some items such as amount of support provided is higher than the nonresponse rates in tabic C -1. (See appendix D.)

Estimation. The estimation procedure used to derive SIPP person weights involved several stages of weight adjustments. In the first wave, each person received a base weight equal to the inverse of his/ her probability of selection. For each subsequent interview, each person recelved a base weight that accounted for following movers.

A noninterview adjustment factor was applied to the weight of every occupant of interviewer households to account for households which were eligitle for the sample but were not interviewed. (Individual nonresponse within partially interviewed households was treated with imputation. No special adjus!ment was made for noninterviews in group quarters.) A factor was applied to each interviewed person's weight to account for the SIPP sample areas not having the same population distribution as the strata from which they were selected.

An additional stage of adjustment to persons' weights was perfomied to reduce the mean squars errors of the sample 6 stimates by ratio adjusting SIPP sample estimates to monthly Current Population Survey (CPS) estimates ${ }^{2}$ of the civilian (and some military) noninstitutional population of the United States by age, race, sex, type of householder (married, single with relatives, single without relatives), and relationshif to householder (spouse or other). The CPS estimates were themselves brought into agreement with estimates from the 1980 decennial census which were adjusted to reflect births, deaths, immigration, emigration, and changes in the Armed Forces since 1980. Also, an adjustment was made so that a husband and wife withiri the same household were assigned equal weights.

## RELIABILITY OF ESTIMATES

SIPP estimates in this report are based on a sample; they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same questionnaire, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey: ronsampling and sampling. The magnitude of SIPP sampling error can be estimated, but this is not true of nonsampling error. Found below are descriptions of sources of SIPP nonsampling error, followed by a discussion of sampling error, its estimation, and its use in data analysis.

Nonsampling variability. Nonsampling errors can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional dificulties, differences in the interpretation of questior.s, inability or unwillingness on the part of the respondents to provide correct information, inability to recall ir !ormation, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, biases resulting from the differing recall periods caused by the rotation pattern used and failure to represent all units within the universe (undercoverage). Quality control and edit procedures were used to reduce errors made by respondents, coders and interviewers.

Undercoverage in SIPP results from missed living quarters and missed persons within sample households. It is known that undercoverage varies with age, race, and sex. Generally, undercoverage is larger for males than for females and larger for Blacks than for non-Blacks. Ratio estimation to independent age-racesex population controls partially corrects for the bias due to survey undercoverage. How:aver, biases exist in

[^20]the estimates to the extent that persons in missed thouseholds or missed persons in interviewed households have different characteristics than the interviewed persons in the same age-race-sex grup. Further, the independent population controls used have not been adjusted for undercoverage in the decennial census.

The Bureau has used complex techniques to adjust the weights for nonresponse, but the success of these techniques in avoiding bias is unknown.

Comparability with other estimates Caution should be exercised when comparing data from this report with data from earlier SIPP publications or with data from other surveys. The comparability problems are raused by sources such as the seasonal pattems for many characteristics, different nonsampling errors, and by different concepts and procedures in other surveys

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

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

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

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

Hypothesis testing. Standard errors may also be used for hypothesis testing, a procedure for distinguishing between population parameters using sample estimatos. The most common types of hypotheses iested are 1) the population parameters are identical versus 2) they are different. Tests may be performed at various levels
of significance, where a level of significance is the probability of concluding that the parameters are different when, in fict, they are identical.

All statements of comparison in the report have passed a hypothesis test at the 0.10 level of significance or better. Therefore, for most differences cited in the report, the estimated absolute difference between parameters is greater than 1.6 the standard emror of the difference ference.

To perform the most common test, compute the difference $X_{A}-X$, where $X_{A}$ and $X_{B}$ are sample estimates of the parameters of interest. A later section explains how to derive an estimate of the standard error of the difference $X_{A}-X_{B}$. Let that standard error be $s_{\text {DIFF }}$. If $X_{A}-X_{B}$ is between -1.6 times $s_{\text {DIFF }}$ and +1.6 times $s_{\text {DIFF }}$, no conclusion about the parameters is justified at the 10 percent significance level. If, however, $X_{A}-X_{B}$ is smaller than -1.6 times $s_{\text {DIFF }}$ or larger than H. 6 times $\mathrm{s}_{\text {DIFF }}$, the observed difference is significant at the 10 percent level. In this event, it is commonly accepted pract ce to say that the parameters are different. Of course, sometimes this conclusion will be wrong. When the parameters are, in fact, the same, there is a 10 percent chance of concluding that they are different.

Note when using smal estimates. Summary measures (such as percent distributions) are shown in the report only when the base is 200,000 or greater. Because of the large standard errors involved, there is little chance that summary measures would reveal useful information when computed on a smaller base. Estimated numbers are shown, however, even though the relacive standard errors of these numbers are larger thari those for the corresponding percentages. These smaller estimates are provided primarily to permit such conniunations of the categories as serve each user's needs. Also, care must be taken in the interpretation of small differences. For instance, in case of a borderline difference, even a smail amount of nonsampling error can lead to a wro. . decision about the hypotheses, thus distorting a seeming'y valid hypothesis test.

Standard error parameters and tables and their use. Most SIPP estimates have greater standard errors than those obtained through a simple random sample because clusters of liwing quarters are sampled for SIPP. To derivo standard errors that would be applicable to a wide variety of estimates and could be preparsd at a moderate cost, a number of approximations were required. Estimates with similar standard error behavior were grouped together and two parameters (denoted " 9 " and " L ") were developed to approximate the standard error behavior of each group of estimates. These " $a$ " and " $b$ " parameters are used in estimating staridard errors and van. hu. type of estimate and by subgroup to which the ERIC L- ers to be used for estimates in this report

The " $a$ " and " $b$ " parameters may be used to calculate the standard error for estimated numbers and percentages. Because the actual standard error behavior was not identical for all estimates within a group, the standard errors computed from these parameters provide an indication of the order of magnitude of the standard error for any specific estimate. Methods for using these parameters for computation of approximate standard errors are given in the following sections.

For those users who wish further simplification, we have also provided general standard errors in tables C-2 and C-3. Note that these standard errors must be adjusted by an "f $f$ " factor from table C-4. The standard errors resulting from this simplified approach are less accurate. Methods for using these parameters and tables for computation of standard errors are given in the following sections.

Table C-2 Standard Errors of Estimated Numbers of Persons
(Numbers in thousands)

| Stze of estimate | Standard error |
| :---: | :---: |
| 200 | 38 |
| 300 | 47 |
| 600 | 66 |
| 1,000 | 86 |
| 2,000 | 120 |
| 5,000 | 189 |
| 8,000 | 237 |
| 11,000 | 276 |
| 12,000 | 298 |
| 15,100 | 318 |
| 17,070 | 336 |
| 22,000 | 376 |
| 26,000 | 404 |
| 30,000 | 428 |
| 50,000 | 512 |
| 80,000 | 562 |
| 100,000. | 555 |
| 130,000. | 482 |
| 135,000 | 461 |
| 150,000 | 372 |
| 160,000 | 281 |

Standard errors of estimated numbers. The approximate standard error, $\mathrm{S}_{\mathrm{x}}$, of an estimated number of persons can be obtained in two ways. N...d that neither method should be applied to dollar values.

It may be obtained by use of the formula

$$
\begin{equation*}
S_{x}=\text { is } \tag{1}
\end{equation*}
$$

where $f$ is the appropriate " $f$ " factor from table C-4, and $\mathbf{s}$ is the standard error on the estimate obtained by interpolation from table C -2. Alternatively, $\mathrm{S}_{\mathrm{x}}$ may be approximated by the formula

## Table C3. Standard Errors of Estimated Percentages of Persons

| Base of estimated percertage (theusands) | Estimated percentage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 81 or r 99 | 2 or 98 | 5 or 95 | 10 or 90 | 25 or 75 | 50 |
| 200. | 1.9 | 2.7 | 4.2 | 5.8 | 8.3 |  |
| 600. | 1.6 | 2.2 | 3.4 | 4.7 | 6.8 | 15.8 12.9 |
| 1,000 | 1.1 0.86 | 1.6 | 2.4 | 3.2 | 6.8 4.8 | 12.9 9.1 |
| 2,000. | 0.86 | 1.2 | 1.9 | 2.6 | 3.7 | 9.1 7.1 |
| 5,000. | 0.60 0.38 | 0.85 | 1.3 | 1.8 | 2.6 | 5.0 |
| 8,000 | 0.38 0.30 | 0.54 0.43 | 0.84 | 1.2 | 1.7 | 3.2 |
| 11,000. | 0.30 | 0.43 0.36 | 0.66 | 0.91 | 1.3 | 2.6 |
| 13,000. | 0.36 0.24 | 0.36 0.33 | 0.56 | 0.78 | 1.1 | 2.1 |
| 17,000. | 0.24 0.21 | 0.33 0.29 | 0.52 | 0.72 | 1.0 | 2.0 |
| 22,000. | 0.21 0.18 | 0.29 0.26 | 0.45 | 0.63 | 0.90 | 1.7 |
| 26,000 | 0.18 0.17 | 0.26 0.24 | 0.40 | 0.55 | 0.80 | 1.5 |
| 30,000. | 0.18 0.16 | 0.24 0.22 | 0.37 | 0.51 | 0.73 | 1.4 |
| 50,000. | 0.17 0.12 | 0.22 0.17 | 0.34 | 0.47 | 0.68 | 1.3 |
| 80,000. | 0.12 0.10 | 0.17 0.13 | 0.26 | 0.36 | 0.53 | 1.0 |
| 100,000 | 0.10 0.09 | 0.13 0.12 | 0.21 | 0.29 | 0.42 | 0.79 |
| 130,000. | 0.09 0.08 | 0.12 0.11 | 0.19 0.16 | 0.26 | 0.37 | 0.71 |
| 220,000 . . . . . . . | 0.08 0.06 | 0.11 0.08 | 0.16 0.13 | 0.23 0.17 | 0.33 | 0.62 |
|  |  | 0.08 | 0.13 | 0.17 | 0.25 | 0.48 |

$$
\begin{equation*}
S_{x}=\sqrt{a x^{2}+b x} \tag{}
\end{equation*}
$$

from which the standard errors in table C-2 were calculated. Here $x$ is the size of the estimate and " $a$ " and " b " are the parameters associated with the particular type of characteristic being estimated. Use of formula 2 will provide more accurate results than the use of formula 1 above.

Illustration. SIPP estimates from text table B of this report show that $1,949,000$ people provide support for adults only. The appropriate " $a$ " and " $b$ " parameters and " f " factor from table $\mathrm{C}-4$ and the appropriate general standard error from table $\mathrm{C}-2$ are

$$
a=-0.000431, b=7,390, f=1.00, s=118,000
$$

Using formula 1, the approximate standard error is $1.00 \times 118,000=118,000$ and using formula 2 , the approximate standard error is $\sqrt{(-0.0000431)(1,949,000)^{2}+(7,390)(1,949,000)}=119,000$

The 90 -percent confidence interval as shown by the data is from $1,758,600$ to $2,213,400$. Therefore, a conclusion that the average estimate derived from all possible sarnples lies within a range computed in this way would be correct for roughly 90 percent of all samples.

Standard error of a mean. A mean is defined here to be the average quantity of some tiem (other than persons, families, or households) per person, family, or household. For example, it could be the average monthly household income of females age 25 to 34 . The standand error of a mean can be approximated by formula (3) How. Because of tie approximations used in develop9 formula (3), an estimate of the standard error of the
mean obtained from that formula will generally underestimate the true standard error. The formula used to estimate the standard error of a misan x is

$$
\begin{equation*}
S_{x}=\sqrt{\frac{b}{y} s^{2}} \tag{3}
\end{equation*}
$$

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

The estimated population variance, $\mathrm{S}^{2}$, is given by the formula:

$$
S^{2}=\sum_{i=1}^{c} p_{1} x_{1}^{2}-x^{2}
$$

where it is assumed that each person or other unit was placed in one of $c$ groups: $p$ is the estimated proportion of group $i_{;} X_{1}=\left(Z_{1.1}+Z_{i}\right) / 2$ where $Z_{t-1}$ and $Z_{1}$ are the lower and upper interval boundaries, respectively, for group i. The value $x_{1}$ is assumed to be the most representative value for the characteristic of interest in group i. If group c is open-ended, i.e., no upper interval boundary exists, then an approximate value for $x_{c}$ is

## Table C-4. SIPP Generalized Variance Parameters

| Persons | a | b | f factor |
| :--- | ---: | ---: | ---: |
| Total or White $\ldots \ldots \ldots \ldots \ldots \ldots$ | -0.0000431 | 7,390 | 1.00 |
| Black $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ | -0.0002628 | 5,106 | 0.83 |
|  |  |  |  |

$$
\begin{equation*}
x_{c}=\frac{3}{2} z_{c \cdot 1} \tag{0}
\end{equation*}
$$

Simenderd errors of estimated percentages. The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. When the numerator and denominator of the percentage have different parameters, use the parameter (and appropriate factor) of the numerator. If proportions are presented instead of percentages, note that the standard error of a proportion is equal to the standard error of the corresponding percentage divided by 100.

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

For the percentage of persons, the approximate standard error, $S_{(x, p)}$, of the estimated percentage p can be obtained by the formula

$$
\begin{equation*}
S_{(x, p)}=\mathrm{fs} \tag{4}
\end{equation*}
$$

In this formula, $f$ is the appropriate " $f$ " factor from table C-4 and $s$ is the standard error on the estimate from table C-3. Alternatively, $S_{(x . p)}$ it may be approximated by the formula

$$
\begin{equation*}
S_{(x, p)}=\sqrt{\frac{b}{x} p(100-p)} \tag{5}
\end{equation*}
$$

from which the standard errors in table C-3 were calculated. Here $x$ is the size of the subclass of persons which is the base of the percentage, $p$ is the percentage ( $0<p<100$ ), and $b$ is the ' $b$ ' parameter associated with the characteristic in the l!unerator. Use of this formula will give mure enceicice results than use of formula 4 above.

For percentages of money, a more complicated formula is required. A percentage of money will usually be estimated in one of two ways. It may be the ratio of twn aggregates:
$P_{M}=\frac{X_{A}}{X_{N}}$
or it may be the ratio of two means with an adjustment 1 ". 3 int bases: FERIC $x_{A} / x_{k}$
where $X_{A}$ and $X_{N}$ are aggregate money figures, $X_{A}$ and $X_{\mathrm{N}}$ are meen money figures, and $p_{A}$ is the estimated number in group A divided by the estimated number in group N. In elther case, we estimate the standard error as

$$
\begin{equation*}
s_{M}=\sqrt{\left[\frac{p_{A} x_{A}}{x_{N}}\right]\left[\left(\frac{\beta_{g}}{p_{A}}\right)^{2}+\left(\frac{\beta_{A}}{x_{A}}\right)^{2}+\left(\frac{\beta_{B}}{x_{N}}\right)^{2}\right]} \tag{6}
\end{equation*}
$$

where $s_{p}$ is the standard error of $p_{A}, s_{A}$ is the standard error of $X_{A}$ and $s_{B}$ is the standard error of $X_{N}$. To calculate $s_{p}$, use formula (5). The stan+iard errors of $x_{N}$ and $x_{A}$ may be calculated using formula (3).

It should be noted that there is frequently some correlation between the characteristics estimaced by $p_{A}$, $X_{N}$, and $X_{A}$. If these corralations are positive, then formula (6) will tend to overestimate the true standard error; If they are negative, underestimates will tend to result.

Illustration. Text table A shows that an estimated 28.9 percent of persons who receive support are adults. Using formula 4 with the " $f$ " facior from table C-4 and the appropriate standard error from table C-3, the appropriate standard error is
$S_{(x, p)}=1.00 \times 1.3 \%=1.3 \%$.
Using formula 5 with the " $b$ " parameter from table C-4, the approximate standard error is

$$
S_{(x, p)}=\sqrt{\frac{7,390}{9,914,000} 28.9 \%(100 \%-28.9 \%)=1.2 \%}
$$

Consequently, the 90-percent confidence interval as shown by these data is from 27.0 to 30.8 percent.

Standard error of a difference. The standard error of a difference between two sample estimates is approximately equal to

$$
\begin{equation*}
S_{(x-y)}=\sqrt{S_{x}^{2}+S_{y}^{2}} \tag{7}
\end{equation*}
$$

where $S_{x}$ and $S_{y}$ are the standard errors of the estimates $x$ and $y$.

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

Illustration. Using text table A, 9.3 percent of the adults who receive support are the parents of the provider and 4.2 percent of the adults who receive support are the ex-spouses of the provider. The standard errors for these percentages are computed using formula 5 , to be

Arultom Provinanty Enc
0.8 and 0.2 percent. Assuming that these two estimates are not correlated, the standard error of the estimated difference -' 5.1 percentage points is

$$
S_{(x \cdot y)}=\sqrt{(0.8 \%)^{2}+(0.3 \%)^{2}}=0.7 \%
$$

The 90-percent confidence interval is from 4.0 to 6.2 percentage points. Since this interval does not contain zero, we conclude that the difference is significant at the 10-percent level.

Standard errors of ratios of means. The standard error for a ratio of means is approximated by:

$$
\begin{equation*}
S_{(x / y)}=\sqrt{\left(\frac{x}{y}\right)^{2}\left[\left(\frac{S_{y}}{y}\right)^{2}+\left(\frac{S_{x}}{x}\right)^{2}\right]} \tag{8}
\end{equation*}
$$

where $x$ and $y$ are the means, and $s_{x}$ and $s_{y}$ are their associated standard errors. Formula 8 assumes that the means are not correlated. If the correlation between the population means estimated by $x$ and $y$ are actually positive (negative), then this procedure will tend to produce overestimates (underestimates) of the true standard error tor the ratio of means.

## Appendix D. Data Quality

Two principal determinants of the quality of data collected in household surveys are the magnitude of the imputed responses and the accuracy of the responses that are provided. This appendix provides information on the imputation rates for items in the "Support for Nonhousehold Members" module in the Survey of Income and Program Participation, covers some of the problems encountered in collecting financial assistance data for children of the respondents, and evaluates the quality of spousal support payments from SIPP.

Imputed responses refer either to missing responses for specific questions or "items" in the questionnaire or to responses rejected in the editing procedure because of improbable or inconsistent answers. An example of the latter is a never-married respondent who reports making support payments to an ex-spouse.

The estimates in this report are produced after all items have been edited and imputed whenever necessary. Missing or uiconsistent responses to specific questions are assigned a value in the imputation phase of the data processing operation. The procedure used to assign or impute most responses for missing or inconsistent data for SIPP is commonly referred to as the "hot deck" imputation method. This process assigns item values reported in the survey by respondents to nonrespondents. The respondent from whom the value is taken is called the "donor." Values from donors are assigned by controlling for demogradhic and economic data available for both donors and nonrespondents. The control variables used for this module's items generally included the respondent's age, sex, race, marital status, and monthly household income.

Imputation rates. Imputation rates for this supplement (items 18a-18j in the questionnaire shown in appendix F) are shown in table D-1. For all adult respondents age 18 years and over, the imputation rates are calculated by dividing the number of missing or inconsistent responses by the total number of responses that should have been provided based on ine pattern of responses to prior questions.

In general, the level of imputation for support questions concerning children of the respondent under age 21 was about 5 to 6 percent. Imputation of items related to the support of adults was also quite low for the first mentioned adult (4 percent), but quite high for any uent mentioned adults (17 percent). The impuERICates on the amount of financial support provided

Table D-1. Imputation Rates for Items on Support for Nonhousehold Members

| Question : | Unweighted number of cases | Percent of responses imputed |
| :---: | :---: | :---: |
| 18a. Were support payments made to someone outside the household?. | 33,449 | 3.7 |
| 18b. Were any payments made for children under 21 ? | 1,201 | 5.3 |
| 18 c . Number of children payments made to $\qquad$ | 830 | 6.0 |
| 18d. Amount of child support | 830 | 65 |
| 18e. Among persons supporting children are payments made to support others? | 830 | 6.0 |
| 18f. How many other persons supported? | 437 | 4.6 |
| 18 g Relationship of first person supported. <br> Relationship of second person supported | 437 75 | 3.7 17.3 |
| 18h Living arr. of first person supported Living arr. of second person supported. | 437 75 | 4.3 17.3 |
| 18. Amount of support for first person Amount of support for second person | 437 75 | 12.6 28.0 |
| 18j. Amount of support for all other persons. | 16 | 43.8 |

for children ( 6.5 percent) was lower than the rates for the adult support items (from 12.6 to 43.8 percent).

An evaluation of the quality of the responses in SIPP is limited because of the general lack of data sets on interhousehold income transfer at the national level. Wherever appropriate in the text of this report, comparisons have been made with Current Population Survey estimates, statistics from the Internal Revenue Service, and relevant modules on spousal support in SIPP to evaluate the level and amount of child and spousal support payments.

Definltional problems. Estimates of the incidence and amount of payments made to children under 21 years of age presented speciz: problems. Ideally, the survey sought to record financial payments made to children living outside the household, including, but not limited to child support payments resulting from a divorce or separation. The phrase "child support," however, has a
very specific connotation in American society, usually implying some legal obligation to make payments.

Interviewers were instructed to explain to the respondents that child support was also to include payments of a voluntary nature, i.e., a couple helping out their child with his or her living expenses. As discussed in the text, estimates of child support (in its broadest sense) paid by men were almost identical to the incidence of child support (in its narrowest sense) recelved by women from children of absent fathers fabout 4,000,000 male providers and female recipients). This implies that SIPP estimates of the number of males providing any other type of financial assistance to their children living elsewhere, not resulting solely from a marital disruption, is probably ICN and that there may have been some confusion on the part of the respondents in interpreting the phrase child support. Subsequent modules beginning with the 1988 SIPP panel will attempt to furthur clarify the semantical problems associated with the collection of these data.

Comparisons among surveys. Data on payments from men in support of children and spouses or ex-spouses from the SIPP, and on support payments received by women from the SIPP and from the Curren: ?opulation Survey (CFS) are presented in table D-ć. The SIPP collected information on payments made by men in a supplement to the fifth interview of the 1984 panel. Information on child support and alimony payments received by women was collected in each interview of SIPP and additional information on child support agreements with absent fathers was collected in the fifth interview supplement. The CPS collected information on the receipt by women of support payments for children and spouses or ex-spouses in the March-April

1984 and March-April 1886 interviews of CPS. The SIPP data reported by men providers of child support and alimony and those reported by women recipients are consistent. The number of men who reported supported payments for children ( 4.0 million) and the level of payments ( $\$ 2,694$ annually were approximately the same as the number and level of child support payments reported by women recipients ( 4.0 million and $\$ 2,506$, respectively).

Data frc.n the CPS provide a complementary profile of mothers receiving child support and alimony payments during calendar year 1985. In table D-2, CPS data on recipients of child support and alimony are compared to SIPP data on the number and amount of support provided by men for children and separated or divorced spouses. While there are some conceptual and methodological differences between these surveys, in general the CPS and SIPP results are consistent. The CPS estimates a lower number of women receiving child support ( 3.0 million in 1983 and 3.2 million in 1985) than the SIPP estimate for men providing financial support for children ( 4.0 million). This is in part because the CPS has a more restrictive universe: women 18 years and over receiving payments from the most recent divorce or separation and never-married women receiving child support. The CPS estimate excludes from the universe women receiving child support other than from the most recent divorce or separation and women who were never married at the time their children were born and who later married. The SIPP universe, however, includes all men providing support for children regardless of whether the women recipients have remarried more than one time; it also includes fil,ancial assistance to children under 21 years of age.

Table D-2. Annual Financlal Support Payments and Family Income, by Type of Provider and Reciplent (SIPP Wave 51984 Panel and March-April 1984 and March-April 1986 Current Population Survey (Cres). Amounts ir: constent 1984 doilars)

| Type of provider and recipient | Number of parsons (thous.) | Amount paid |  | Family income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean | Standard error | Mean | Standard error |
| Men Making Support Paymenta, SIPP 1984 |  |  |  |  |  |
| Payments for child support. Payments to separated or ex.wives | $\begin{array}{r} 4,001 \\ 553 \end{array}$ | $\begin{array}{r} \$ 2,694 \\ 5,999 \end{array}$ | $\begin{array}{r} \$ 117 \\ 994 \end{array}$ | $\begin{array}{r} \$ 33,1363 \\ 54,633 \end{array}$ | $\begin{array}{r} \$ 1,858 \\ 8,413 \end{array}$ |
| Women Recelving Support Payments, SIPP 1984 |  |  |  |  |  |
| Payments for child support. | 4,017 | 2,506 | 117 | 23,545 | 1,111 |
| Women Recelving Support Payments, CPS 1963 |  |  |  |  |  |
| Payments of child support . . . . . . . . . . . . . . . . . . . . . . <br> Payments from separated or ex-spouses . . . . . . . . . . . | $\begin{array}{r} 3,037 \\ 608 \end{array}$ | $\begin{aligned} & 2,441 \\ & 4,145 \end{aligned}$ | $\begin{aligned} & 101 \\ & 345 \end{aligned}$ | $\begin{array}{r} 24,351 \\ (\mathrm{NA}) \end{array}$ | $\begin{array}{r} 544 \\ \text { (NA) } \end{array}$ |
| Women Recelving Support Payments, CPS 1885 |  |  |  |  |  |
| Payments for child support. <br> Payments from separated or ex-spouses . . . . . . . . . . . | $\begin{array}{r} 3,243 \\ 616 \end{array}$ | $\begin{aligned} & 2,138 \\ & 3,604 \end{aligned}$ | $\begin{array}{r} 59 \\ 284 \end{array}$ | $\begin{array}{r} 25,482 \\ \text { (NA) } \end{array}$ | $\begin{array}{r} 567 \\ \text { (NA) } \end{array}$ |

## NA Not available.

Source: SIPP Wave 5, 1984 Panel and Current Population Reports, Series P-23, Nos. 148 and 152.

In addition to the number of providers, the ievel of parments are also consistent between the surveys. In SIPP, providers reported average payments of $\$ 2,690$, compared with $\$ 2,441$ in 1983 and $\$ 2,138$ in 1985 reported by wor in in CPS. The SIPP estimate is larger because slipport in CPS is more a money income concept than an expenditure concept as in SIPP. Therefore, the SIPP estimate inciujes support payments which do not go directly to an ex-spouse (such as home mortgage or car payments) which are not counted in the CPS estimate.

Data in table D-2 show that an estimated 553,000 men provided some regular financial assistance to their ex-wives u. to their current wives living in another household. Corrnsponding statistics from the CPS indicate that $608,00 \mathrm{a}$ and 616,000 women received alimony or maintenance payments during calendar years 1983 and 1985, numbers not statistically different from the SIPP estimate. However, support payments by men to wives or ex-wives averaged $\$ 5,999$ in SIPP, which are statistically different from the $\$ 4,145$ and $\$ 3,60$ :s estimates from the CPS for 1983 and 1985.

## Appendix E. Loglinear Regressions

Loglinear regression analysis was employed in this report to estimate the odds that a person will provide
financial assistance to a person living outside his or her household. The results of this analysis are shown in tables $\mathrm{E}-1$ and $\mathrm{E}-3$.

Table E-1. Log of Odds of Providing Financial Support for a Nonhousehold Member: 1985

| Factors in model | All recipients | Relationship to provider |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ow child | All adults | Parent | Spouse or ex-spouse' |
| Constant. ...... | $\begin{array}{r} *-3.783 \\ (0.120) \end{array}$ | $\begin{array}{r} *-5046 \\ (0.255) \end{array}$ | $\begin{array}{r} *-4594 \\ (0206) \end{array}$ | $\begin{array}{r} \because-5.989 \\ (0373) \end{array}$ | $\begin{gathered} *-3.483 \\ (0485) \end{gathered}$ |
| SEX (Fermale) <br> Male | $\begin{gathered} " 0867 \\ (0.093) \end{gathered}$ | $\begin{aligned} & * 1.207 \\ & (0147) \end{aligned}$ | $\begin{aligned} & ">0488 \\ & (0123) \end{aligned}$ | $\begin{gathered} \circ \\ \hline 0330 \\ (0166) \end{gathered}$ | $\begin{aligned} & * 1.128 \\ & (0.344) \end{aligned}$ |
| AGE (18-24) 25 to 44 years. | $\begin{array}{r} * 0.677 \\ (0.125) \end{array}$ | $\begin{gathered} * 1.376 \\ (0241) \end{gathered}$ | $\begin{array}{r} 0129 \\ (0.232) \end{array}$ | $\begin{aligned} & * 0768 \\ & (0.382) \end{aligned}$ | $\begin{array}{r} .0228 \\ (0.503) \end{array}$ |
| 45 to 64 years. ... ..... . ........ . . | $\begin{array}{r} 0319 \\ (0.140) \end{array}$ | $\begin{gathered} * 446 \\ (0259) \end{gathered}$ | $\begin{aligned} & * 0.777 \\ & (0234) \end{aligned}$ | $\begin{gathered} * 0915 \\ (0404) \end{gathered}$ | $\begin{array}{r} 0282 \\ (0.502) \end{array}$ |
| 65 years and over . . . . . . . .. ... ... | $\begin{gathered} -0211 \\ (0.197) \end{gathered}$ | $\begin{array}{r} \because-2070 \\ (0627) \end{array}$ | $\begin{array}{r} \circ \\ 0.876 \\ (0266) \end{array}$ | $\begin{array}{r} 0128 \\ (0545) \end{array}$ | $\begin{array}{r} 0.565 \\ (0.628) \end{array}$ |
| :AARITAL STAFIJS (Single/widowed) |  |  |  |  | 3** ${ }^{2}$. |
| Married, spouse pissent . . .. . .... | $\begin{gathered} "-0427 \\ (0117) \end{gathered}$ | $\begin{array}{rr} * & -0447 \\ (0 & 189) \end{array}$ | $\begin{array}{r} \because-0451 \\ (0154) \end{array}$ | $\begin{array}{r} -0126 \\ (0253) \end{array}$ | $\begin{array}{r} 3 * * 1.344 \\ (0.395) \end{array}$ |
| Divorced/separated ${ }^{4}$. . . . ... ..... ..... .. | $\begin{array}{r} * 1.117 \\ (0.135) \end{array}$ | $\begin{array}{r} * 1318 \\ (0203) \end{array}$ | $\begin{aligned} & * 0.874 \\ & (0181) \end{aligned}$ | $\begin{array}{r} .0014 \\ (0.360) \end{array}$ | $\begin{aligned} & 5.0278 \\ & (0.348) \end{aligned}$ |
| YEARS OF SCHOOL COMPLETED (Less than high school) |  |  |  |  |  |
| High school. . . . . . . . . . . . . . . . . | $\begin{array}{r} 0093 \\ (0.090) \end{array}$ | $\begin{array}{r} -0008 \\ (0110) \end{array}$ | $\begin{gathered} * \\ * \\ (01331 \end{gathered}$ | $\begin{array}{r} 0202 \\ (0236) \end{array}$ | $\begin{gathered} 0.394 \\ (0326) \end{gathered}$ |
| College, 1 year or more . ........... | $\begin{array}{r} 0028 \\ (0089) \end{array}$ | $\begin{gathered} 0083 \\ 0 \\ (0) 107) \end{gathered}$ | $\begin{gathered} -0109 \\ -(0146) \end{gathered}$ | $\begin{array}{r} 0054 \\ (0236) \end{array}$ | $\begin{array}{r} -0.230 \\ (0360) \end{array}$ |
| FAMILY INCOME ( $<\$ 15,000$ ) <br> $\$ 15,000$ to $\$ 29,999$ | $\begin{array}{r} -0.079 \\ (0.099) \end{array}$ | $\begin{array}{r} -0025 \\ (0119) \end{array}$ | $\begin{array}{r} .0144 \\ (0.163) \end{array}$ | $\begin{array}{r} -0076 \\ (0271) \end{array}$ | $\begin{array}{r} 0.055 \\ (0358) \end{array}$ |
| \$30,000 to \$44,999 . . . . . . . . . . . . . . . . ... | $\begin{array}{r} 0.168 \\ (0.109) \end{array}$ | $\begin{array}{r} 0129 \\ (0.132) \end{array}$ | $\begin{gathered} * 0291 \\ (0170) \end{gathered}$ | $\begin{array}{r} 0287 \\ (0277) \end{array}$ | $\begin{array}{r} 0.071 \\ (04 E 6) \end{array}$ |
| \$45,000 and over. . . . . . . . . . . . . . . . . | $\begin{array}{r} 0.375 \\ (0116) \end{array}$ | $\begin{array}{r} 0195 \\ (0.149) \end{array}$ | $\begin{array}{r} 0620 \\ (0168) \end{array}$ | $\begin{aligned} & 00474 \\ & (0280) \end{aligned}$ | $\begin{gathered} * \\ (0.963 \\ (0423) \end{gathered}$ |
| marital status * SEx <br> (Male*Single/widowed). |  |  |  | (X) | (X) |
| Male * marriad, spouse present .... ............ | $\begin{array}{r} -0061 \\ (0.111) \end{array}$ | $\begin{array}{r} 0.065 \\ (0182) \end{array}$ | $\begin{array}{r} -0.132 \\ (0145) \end{array}$ |  |  |
| Male * separated * r rced . . . . . . . . . . . . . . . | $\begin{array}{r} +0577 \\ (0.130) \end{array}$ | $\begin{array}{r} * 0603 \\ (0197) \end{array}$ | $\begin{aligned} & * 0.286 \\ & (0175) \end{aligned}$ |  |  |
| Liksllhood $\mathrm{X}^{2}$. | 4561 | 308.2 | 311.6 | 1863 | 1666 |
| Dugrees of freedom. | 274 | 274 | 274 | 276 | 276 |
| Numher of cases (unweighted) . . . . . . . . . . . . . . . | 33,032 | 33,032 | 33,032 | 33,032 | 3,461 |

Note: Individual categories following factor headings indicate reference category in the model Cases were first weighte to preserve sampling frame but then divided by the average weight of providers in the sample to estimate the logits and the standard errors Standard errors were then adjusted to compensate for survey design effects.
.. Reference category. - Statistically signficant at the 90 -percent confidence level. "Statistically significant at the 95 -percent confidence level. X Term omitted from model.
'Universe limited to persons who were married, spouse absent, separated, or divorced at the time of the interview
${ }^{2} 5$ ~ apousal support models, reference group is divorced persons.
ppousal support modal, this layit refers to married, spouse absent.
LRmennern upsusal support model, this iogit referc to separated persons.

## Table E-2. Illustrative Example for Procedure to Derive Composite Odds for Providing Support for a Nonhousehold Member



Loglinear regression analysis is a form of multivariate analysis where the dependent variable, in this case whether or not a person is a provider, assumes a dichotomous or yes $/$ no value. The resulting coefficients or logits represent the logarithm of the odds of being a provider versus not being a provider relative to other population groups. The standard errors of the logits are shown in parenthesis under each logit and have been adjusted upwards by a factor of 1.97 to account for the complex sample design of the SIPP (the loglinear regression results shown in this report were derived from the statistical routine in SPSS-X). The observations used in the loglinear models were first weighted up to national totals (each respondent in the sample represensed about 5,100 persons) to preserve the sampling design of the survey and then divided by this average weight in order to evaluate the significance of the results based on the actual number of persons responding in the survey sample.

The "odds" of being a provider are derived by calculating the antilog of the logits shown in table E-1. The difference between any two characteristic categores indicate how much more likely one particular group
is to be a provider to a nonhousehold member than another group. For example, the first regression in table E-1 shows the results of the Inglinear regressions for the likelihood of providing support for wy person not a member of the respondent's household. The logit for separated/divorced persons is 1.117 , while for married persons it is -0.427 , indicating it is more likely that a person who is currently separated or divorced will Le providing outside assistance than a persian currently married. ${ }^{1}$

The relative odds of a person being a provider given he or she is saparated/divorced vs married is simply the antilog of the difference between the two categories [( 1.117 )- $(-0.427)=1.544$ ], resulting in odds of about 4.7 to 1 . Similarly, an examination of the relative likelihood of being a provider by educational level results in relative odds of about 1:1 between high school craduates and college educated respondents, suggesting that neither is more likely to be a provider than the other.
Composite odds. The analytical capabilities of the loglinear regression permit the derivation of composite or overall odds for a person with an array of various characteristics by computing the antilog of the surf of all the appropriate logits (including the constant term in the regression). For example, the likelihood of being a provider for the illustrative "young adulthood" profile developed in the text (table L; was obtained by summing the appropriate logits based on the characteristics in the profile (table E-2), and taking the antilog of that summed result. The antilog of -0.596 is 0.551 resulting in odds of 1 to $1.8[(1.0 / 0.551)=1.8]$
These odds are interpreted as follows: for every person with these composite characteristics in the overall population providing financial support for a nonhousehold member, there are estimated to be 1.8 persons, with the same characteristics, who are not providing such support.

[^21]Table E-3. Likelihood-Ratio Chl-Square Terms for Provider Models for a Nontousehold Member: 1985

 R actors in model

[^22] in he baseline model presents then dix table E-1. The terni $M^{*} S$ has been included in the final model in addition to the independent factors $M$ and he baseline model presents the overall chi-square term for the crosstabulation before the inclusion of explanatory factors.

Assessing the relative Importance of factors in logilnear models. Table E-3 presents the likelihoodratio chi-square terms for the loglinear models shown in table E-1. These chi-square terms illustrate the variation in the model with the baseline model including no independent factors which explain the overall variation. As subsequent factors are added to the basic crosstabulation, reductions in the chi-square term indicate the relative importance of different factors in explaining the variation in the model.

For example, the first column of chi-square terms in table E-3 indicates that the baseline model for the "all recipients" loglinear regression has a chi-square value of 2,453.2. In evaluating the relative importance of the individual factors, one can readily see that the sex (S) of the respondent accounts for a greater reduction in the chi-square term from the baseline model $(1,724.4)$ than
the educational attainment (E) of the respondent (only $2,389.1$ ), indicating that the respondent's sex is more likely to eccount for differences in the likelihood of being a provider than his educational attainment. One can also see that the addition of the interaction term, $M^{*} S$, to the model offers further explanatory power to the model for the (1) all recipients, (2) own child, and (3) all adults regressions, but nothing to the parental or spousal provider regressions.

The final model, including the marital status*sex inter action term, was used for illustrative purposes in this report. With the exception of the "all recipients" logistic regression, all regressions provided a fit with $p>0.05$. While additional terms could be added to improve the fit of the model, examination of the resulting parametors indicated the basic inalysis was not altered by these further additions to the selected "final" model.

## Appendix F. Facsimiles of SIPP Questionnaires

## Support for Nonhousehold Members Questions



Welfare History and Child Support Questions

| Section 5 -- TOPICAL MODULE8 (Continued) |  |
| :---: | :---: |
| Patt - welfant history and child support |  |
| CHE CK <br> HFM : |  |
| 4a. Theoe moxt quevtions are about cortain tovernment programe. | ! |
|  |  |
| b. For how long has . . . been authorized to recelve food tutampe? |  |
| C. Bealdes thile period of time, heve there beon eny other timen when . . . was euthortied to recolve food stampo? |  |
| 6a. Het ... ever applied for the Faderal Government'A Food Stamp Progrem? |  |
| b. Hac ... over been authortzed to recelve tood stampo? | 10070  <br>  ${ }^{\square}$ Yes <br>  ${ }^{2} \mathrm{No}-$ SKIP to Check Item $T 7$ |
| 6a. When did . . . firmi stert recelving food stampe? |  |
| b. For how long did . . . reculve food stampe that firet time? |  |
| C. How many times in elf heve there been when. . . was euthorked to recelve food stamps? | Pin $\square$ Times |
| CHI CK Is a designated parant or guardien of <br> ITEM J ) childran under 18 who live in this housahold? |  |
| CHECK ITEM I $\%$ Is "AFDC" ISS? |  |
| 7a. For how long hes . . been receiving AFDC (ADC)? | 710\% $\square$ Yeers <br>  $\square$ $\square$ Months <br> 1094 $\times$ |
| b. Borlden thle period of time, heve there been eny other times when . . . recelved A FDC (ADC)? | $\begin{aligned} & 1 \square \text { Yes - SKIP to 9a } \\ & 2 \square \text { No - SKIP to Check hem T9 } \end{aligned}$ |
| 8a. Hat... over applied for benofhe from the program Called AFDC - Ald to Familles With Dopondent Children (or ADC)? | $\square$ Yes No - SKIP to Check Item T9 |
| b. Het . . . over recelved AFDC (ADC) beneftit? |  |
| 9a. Whan did . . . first start receiving AFDC (ADC) benefte? |  |
| b. For how long did . . . recelve AFDC (ADC)? | (16) $\square$ Years $\qquad$ <br> 1101 $\square$ Months <br> (110) $\square$ |

## Welfare History and Child Support Questions-Continued



## Welfare History and Child Support Questions-Continued




[^0]:    * Reproductions supplied by EDRS àre the best that can be made from the original cocument.

[^1]:    For sale by Superinte.ident of Documents, U.S. Government Printing Office, Washington, DC 20402

[^2]:    ${ }^{4}$ Refers only to sons and daughters under 21 years of age
    ${ }^{2}$ includes persons under 21 years old who are not own children of the provider
    ${ }^{3}$ Refers to jersons supported for whom no relationship data were obtaned Information was collected only for first two mentioned adults

[^3]:    B Base too small to show derived estimate.
    ${ }^{1}$ Components add to more than total because some persons provide support to both children and adults
    ${ }^{2}$ Support payments tabulated individually for children and adults.

[^4]:    ${ }^{1}$ Percentages add to more than 100 percent because some persons provide support for both children and adults.

[^5]:    ${ }^{2}$ The degree of unpaid assistance to the elderly is quite substantial as documenteo from recent data from the 1982 Long-Term Care Survey. It is estimated that in 1982, 22 million persons were providing unpaid assistance to 1.6 million elderly persons (Robyn Stone, Gail L. Cafferata, and Judith Sangl, "Caregivers of the Frall Elderly: A National Protile," The Gerontologist, Vol 27, No. 5 (1987), 1. 616-626.)

[^6]:    ${ }^{3}$ U S Bureau of the Census, Current Population Reports, Series P-25. No 952, Projections of the Population of the United States, by Age, Sex, and Race 1983 to 2080
    "An additional 495,000 children 21 years old and over also received financial support from their parents (table E)
    ${ }^{5}$ Absent spouses include couples temporarily not living together in addition to those with a legal separation Estimates from the Internal Revenue Service indicate for tax returns filed in 1984, 693,000 returns

[^7]:    claimed alimony payments as adjustments to ircome, totaling $\$ 3,850$ million (Internal Revenue Service, Statistics of income 1984, Individ0 Income Tax Returns, Publication 1304, table 1.3).

[^8]:    ${ }^{\circ}$ The Current Population Survey (CPS) estimated that 3.2 million women received child support payments during calendar year 1985, lower than the SIPP estimate of 4.0 million women. There are, However, differences in the universe of women covered ty these surveys. The SIFP estimate covers all women 18 years of age and older wito recaived child support payments. The CPS covered a more limited universe which excluded (a) women receiving child support payments for childran from other than the most recent marriage (separation) or divorce, and (b) women receiving child support payments for children born when they were never married but who later niarried. Data from the March-April 1986 CPS sire reported in U.S Bureau of the Census, Current Population Reports, Series P-23. No
    152. Chld Support end Alimony: 1985. 152. Child Eupport and Alimony: 1985.

[^9]:    ${ }^{7}$ See Stone, Cafferata, and Sangl, op.cit.
    ${ }^{8}$ It should be remembered that payments contnbuted jointly by parents living together in a household are attributed to the parent first interviewed in the household This could affect the distribution of parental identification and bias the results in favor of the person listed first in the household in a marned-couple family, which is usually the husband

[^10]:    'Includes persons who were on layoff or looking for work at least 1 week last month
    ${ }^{2}$ Excludes persons with no family income

[^11]:    ${ }^{\text {T}}$ These overall odds of being a provider are derived from the ratio of persons providing financial support to persons not providing support. These estimates, found in table A of this report, indicate that there are $8,275,000$ providers relative to $185,015,000$ persons 18 and over who do not provide any financial support to persons living outside their howenolds. The ratio of these two nurnbers $6,275,000 / 165,015,000$ is 0.03803 or 1 to 26. Overall odds for being a provider for children or adults is similarty computed from table $A$. The number of persons supporting parents is 820,000 while the number of separated or divorced persons supporting a spouse or ex-spouse is 442,000 .
    ${ }^{10}$ Data from the March 1985 Current Population Survey show that there were 7 times as many families with children living only with their mothers es lving only with their fathers. (Current Population Reports, oot- P-20, No. 411, table F). Thus, the high odds estimated for

[^12]:    males providing for their children relative to females is only partly explained by the greater number of men with chuldren living in another household.

[^13]:    "Arthur J. Norton and Jeanne E. Moorman, "Current Trend., in Marriage and Divorce Among American Women," Joumal of Marriage and the Famly, Vol 49 (1987), pp 3.14

[^14]:    Note- Numbers of persons in illustrative population groups are derived from the SIPP survey estimates

[^15]:    $X$ Term not included in regression.

    - Statistically significant at the 90 -percent confidence level.
    *"Statistically significant at the 95 -percent confidence level
    Note: Cases were first weighted to preserve sampling frame but then divided by the average weight of providers in the sample to estimate regression coefficients and standard errors. Standard errors were adjustec to compensate for survey design effects. Regression coefficients are ranted for each variable and the standard error coefficients are shown in parenthesis

[^16]:    B Base too small to show derived estumate
    Includes married, spouse absent.
    ${ }^{2}$ includes persons who were on layoff or looking for work at least 1 week last month
    'Excludes persons with no family income.

[^17]:    Excludes 138,000 persons for whom relationship was nol ascertained
    includes married, spouse absent.
    ${ }^{3}$ Includes person who were on layolf or looking for work at least one week last month
    ${ }^{4}$ Excludes persons with no famly income.

[^18]:    'Excludes 138,000 persons for whom relationship was not ascertained

[^19]:    ${ }^{1}$ The noninstitutionalized resident population includes persons liwing in group quarters, such as domitoriee, rooming houses, and religious group dwellings. Crew members of merchant vessels, Armed Forces personnal living in milthary barracks, and institutionalized persons, auch as correctional fachtity inmales and nursing home rouidents, were not ollgidle to be in the survey. Aleo, United States oftizene rebiding abroad were not eligible to be in the eurvey. With cha- - - rlifications, persone who were at least 15 years of age at the

    I Aorviow wore eligible to be interviewed.

[^20]:    TThese special CPS estimates are slightly different from the pudisthed montthy CPS estimates. The dififerences arlse from forcing (3) "unte of husbands to agree with counts of wives.

[^21]:    ${ }^{1}$ The logit for the referencecategory(single/widowed) is derived by obtaining the number that, when added to the logits for the remaining categories, sums to the value 00 .

[^22]:    these factors are shown in appendix table E -1 The tors: S (sex); A (age); $M$ (marital status), $E$ (educational level), $Y$ (family income). Categories

