
5. UNIT RESPONSE

This chapter describes the unit response rates for the NHES:2001. It includes the rates for the Screener and for each of the three extended interviews, the ECPP interview, the ASPA interview, and the AELL interview.

Definition of Unit Response Rates

A unit response rate is the ratio of the number of units with completed interviews (for example, the units could be telephone numbers, households, or persons) to the number of units sampled and eligible for the interview. In some cases, these rates are easily defined and computed, while in other cases the numerators or denominators of the ratio must be estimated.

For reporting the results from the NHES:2001, the overall unit response rate²⁶ indicates the percentage of possible interviews that were completed taking all survey stages into account, while the unit response rate²⁷ measures the percentage of interviews that were completed for a specific stage of the survey. For example, household members were identified for interviews in a two-stage process. Screener interviews were conducted to enumerate and sample household members, and then questionnaires were administered for the sampled members. If the responding household member failed to complete the first-stage Screener, no members could be sampled for other interviews. Under this design, the unit response rate for the second stage (ECPP, ASPA, or AELL interviews) is the percentage of sampled persons who completed these interviews. The overall unit response rate is the product of the first- and second-stage unit response rates; i.e., the Screener unit response rate multiplied by the extended interview unit response rate.

Unit response rates can be either unweighted or weighted. The unweighted rate, computed using the raw number of cases, provides a useful description of the success of the operational aspects of the survey. The weighted rate, computed by summing the weights (usually the reciprocals of the probability of selecting the units) for both the numerator and denominator, gives a better description of the success of the survey with respect to the sampled population since the weights allow for inference of the sample data (including response status) to the population. Both rates are usually similar unless the probabilities of selection and the unit response rates in the categories with different selection probabilities

²⁶In previous NHES publications, this was referred to as simply the response rate.

²⁷In previous NHES publications, this was referred to as the completion rate.

vary considerably. All of the unit response rates discussed in this chapter are weighted unless noted specifically in the text, since the main purpose of this chapter is to describe the success of the survey with respect to the survey population.

Screener Unit Response Rates

The first panel of table 5-1 shows the disposition of the 179,211 telephone numbers that were in the final sample for the NHES:2001. The three major categories of response status are those identified as numbers for residential households, those identified as nonresidential numbers (primarily nonworking and business telephone numbers), and those numbers that, despite numerous attempts, could not be identified as residential or nonresidential.

Table 5-1. Number of telephone numbers dialed, by residential status and weighted and unweighted Screener unit response rates: NHES:2001

Screener response category	Number	Percentage of all numbers	Percentage of residential numbers
Total	179,211	100.0	
Identified as residential			100.0
Responded.....	48,385	27.0	72.5
Did not respond.....	18,309	10.2	27.5
Identified as nonresidential	95,147	53.1	†
Unknown residential status	17,370	9.7	†
Estimated screener unit response rates ¹		Weighted rate (percent) ¹	Unweighted rate (percent) ¹
Survival analysis unit response rate		69.2	67.6
Business office method unit response rate		67.5	65.6
CASRO unit response rate		67.0	65.5
Conservative unit response rate		60.5	57.6
Liberal unit response rate		73.2	72.6

† Not applicable.

¹ All of the unit response rates use the weighted number of responding households (for weighted rates) or the unweighted number of responding households (for unweighted rates) as the numerator. The denominators vary but are all estimated totals. For the survival analysis method unit response rate, the proportion of unknown residential status numbers included in the denominator was estimated using survival analysis methods that incorporate information about the cases (including listed status, interviewers' coding of answering machine call results, and the number of call attempts the telephone number received). For the estimated unit response rate using the business office method, the proportion of unknown residential status numbers included in the denominator was based upon the proportion identified in checks with telephone business offices. For the CASRO (Council of American Survey Research Organizations) unit response rate, the proportion of unknown residential status numbers included in the denominator was based upon the residency rate for the numbers with known residential status. For the conservative unit response rate, all of the unknown residential status numbers were included. For the liberal unit response rate, none of the unknown residential status numbers was included.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

About 37 percent of the telephone numbers were identified as residential through contact with the households. This percentage is lower than that reported for previous NHES studies.²⁸ Assuming that 27.9 percent of the telephone numbers with unresolved residential status were residential (discussed below), the total estimated percentage of numbers that were residential is 46 percent.²⁹

The percentage of telephone numbers with unknown residential status was about 10 percent—higher than the 8 percent found in the NHES:1999, the 6 percent found in the NHES:1995 and the NHES:1996, and the 3 to 5 percent found in previous NHES studies. Virtually all of the unknown residential status numbers were called 14 times or more as in previous NHES studies (see chapter 4 for more details on this issue), with the exception of no answer cases, which were subsampled for refielding. As a result, the percentage in this category is not the result of fewer calls to the numbers than in previous NHES studies. In the NHES:2001, 10,325 of the telephone numbers with unknown residential status were no answer numbers that were not refiled after seven calls, instead a subsample of one-third of the no answer numbers was refiled.³⁰ Even if all no answer cases had been refiled, the percentage of telephone numbers with unknown residential status would have been about 8 percent. Piekarski, Kaplan, and Prestegaard (1999) describe changes in the telephone system that are related to the increase in the proportion of telephone numbers with unresolved residency status, including factors related to the competition for local exchange service in the market. They note that while the number of telephone households increased only 11 percent from 1988 to 1998, the number of telephone numbers that could be dialed in a telephone survey³¹ increased by 80 percent. Even accounting for the increase in the number of households with more than one telephone number and the increased demand for business telephone numbers, many of these newly created numbers are not assigned to any user.

The lower panel of table 5-1 shows five estimated unit response rates for the Screener based upon different assumptions about the telephone numbers with unknown residential status. Each of these rates is described below, along with the rationale for its use. Each of these approaches uses the same numerator, the number of households (weighted or unweighted, for the weighted and unweighted rates, respectively) that completed the Screener. Variability in the estimates arises because it is not possible to identify precisely the residential status for each telephone number. The difference among the rates is in the allocation of the numbers in the unknown residential status category that is used in the calculation of

²⁸In the NHES:1999, about 43 percent of all sampled telephone numbers were identified as residential.

²⁹This estimated residency rate is a weighted estimate.

³⁰See chapter 4 for further information about the refielding of cases.

³¹The number of telephone numbers that could be dialed is the number of prefixes (area code and first three digits of the telephone number) that are assigned for POTS (plain old telephone service) multiplied by 10,000.

the denominator of the unit response rate. The numbers estimated to be residential according to each method are shown in table 5-2.

The survival approach uses information about cases for which no answer was obtained in the estimation of their residency rate. Specifically, the listed status, interviewers' codings of answering machine call attempts, and the total number of call attempts are used in the estimation of the residency rate based on survival analysis methods. Estimates based on the survival method suggest that 27.9 percent of telephone numbers with unresolved residency status in the NHES:2001 are residential. Therefore, the denominator of the unit response rate based on the survival method is all the telephone numbers that were known to be residences plus 27.9 percent of the numbers with an unresolved residential status. The estimated Screener unit response rate based on the survival method is 69 percent. If the raw count of telephone numbers was not weighted, the Screener unit response rate using the survival method would have been 68 percent. Because the survival method uses more information about the telephone numbers and their call histories, it is a more accurate approach for estimating unit response rates in RDD surveys. See Brick, Montaquila, and Scheuren (2002) for further details about the survival method.

The business office method derives its name from the technique used to estimate the denominator of the rate. A random sample of 350 telephone numbers with unresolved residency status were selected in the NHES:1995 and the numbers were classified by local telephone companies. The telephone companies were asked to first classify the numbers as working or not working. The companies were asked to further identify working numbers as residential or business numbers. As a result of this process, it was estimated that 40.5 percent of the numbers were residential. This percentage is nearly identical to the result from a study conducted at the end of the NHES:1991. Therefore, the denominator of the unit response rate based on the business office method is all the telephone numbers that were known to be residences plus 40.5 percent of the numbers with an unresolved residential status. The estimated Screener unit response rate using the business office method is 68 percent. Some research suggests that the business office approach may be inaccurate due to the reporting practices of the phone companies (Shapiro et al. 1995).

The other three unit response rates shown in table 5-1 were computed by allocating different proportions of the numbers with unknown residency status into the residential category. The CASRO (Council of American Survey Research Organizations) rate is computed by allocating the numbers with unknown residential status in the same proportion observed in the numbers with known residential status, which, in the NHES:2001, was 44.2 percent (table 5-2). Evidence from the business office method described above suggests that the residency rate for numbers with unknown residential status is lower

than implied by the CASRO rate calculation. Therefore, the CASRO rate is not recommended for unit response rate calculations for the NHES. The CASRO rate is 67 percent.

Table 5-2. Number and percentage of telephone numbers with unknown residential status assumed to be residential under each of the methods of estimating unit response rates: NHES:2001

Method of estimating unit response rates	Number	Percent
Total phone numbers with unknown residential status	17,370	100.0
Total assumed to be residential using survival method	4,846	27.9
Total assumed to be residential using business office method	7,035	40.5
Total assumed to be residential using CASRO method	7,681	44.2
Total assumed to be residential using conservative method	17,370	100.0
Total assumed to be residential using liberal method	0	0.0

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

The conservative and liberal unit response rates define the lower and upper bounds of the unit response rate. The conservative unit response rate is computed assuming that all of the numbers with unknown residential status are actually residential numbers. The conservative unit response rate is 61 percent. The liberal rate is computed assuming that all of the numbers with unknown residential status are actually nonresidential. The liberal unit response rate is 73 percent. As noted above, the variability in the estimates arises because it is not possible to identify precisely the residential status for each telephone number. For the remainder of the report, a Screener unit response rate of 69 percent, based on the survival method, will be cited.

The overall NHES:2001 Screener unit response rate of 69 percent is lower than the 74 percent Screener unit response rate attained in the NHES:1999 and nearly the same as the 70 percent attained in the NHES:1996. In the NHES:1999, adults were enumerated during the screening interview only in a subsample of the households. This approach was similar to that used in the NHES:1991 and in the NHES:1995. By comparison, full household enumeration was used in the NHES:1996. A methodological study involving a screener experiment (Brick, Collins, and Chandler 1997) demonstrated that the “screen-out” approach is expected to result in significantly higher unit response rates compared with enumerating adults in all households. Although subsampling for adult enumeration was used in the NHES:2001, the proportion of households not designated for adult enumeration was much lower than in the NHES:1999, so the benefits of the screen-out approach that were observed in the previous methodological study were not obtained in the NHES:2001 because few households were screened out.

Table 5-3 provides a further breakdown of the responding and nonresponding residential telephone numbers. The responding numbers are classified by whether or not any other interviews were scheduled for the household, and the nonresponding numbers are classified by the reason for nonresponse. About 74 percent of all the nonresponse in the Screener was due to an adult household member refusing to answer the screening items. The next largest category is the 18 percent classified as maximum calls, which includes those households that never completed the Screener after numerous calls. (These cases could have received up to 29 calls; 84 percent received between 14 and 29 calls.) While these households did not explicitly refuse to participate, potential respondents were not available to complete the screening items despite many attempts to reach them. Language problems accounted for 6 percent of nonresponse. The language problem cases are discussed in more detail below.

Table 5-3. Number and percentage of known residential telephone numbers, by Screener unit response status: NHES:2001

Screener response category	Number	Percent
Responding residential phone numbers.....	48,385	100.0
Households with no extended interviews scheduled.....	22,903	47.3
Households with at least one extended interview scheduled.....	25,482	52.7
Not responding residential phone numbers.....	18,309	100.0
Refusals.....	13,526	73.9
Maximum calls.....	3,298	18.0
Language problems.....	1,141	6.2
Other problems.....	344	1.9

NOTE: "Other problems" include household members being unavailable in field period and household members being too sick to respond.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

Spanish Language Cases

As discussed in chapter 4, language problem cases were divided into Spanish language cases, other non-English language cases, and other language problems (e.g., hearing and/or speech disabilities). The NHES:2001 interviews were conducted in Spanish by bilingual interviewers and the unit response rate for households identified as Spanish language is similar to that for the survey as a whole.

Records for all completed interviews contain a variable indicating whether the interview was conducted in English or Spanish; a total of 1,861 completed extended interviews were conducted in Spanish. In the NHES:2001, 3,089 Screener cases were designated as Spanish language cases by

interviewers and, among these, 2,103 were completed (see table 4-5). The unweighted unit response rate for these cases was 68 percent, approximately the same as the unit response rate for the study overall. Most of these Screeners (93 percent) were completed in Spanish.

Distribution of Household Members Sampled for Extended Interviews

Table 5-4 shows the number of screened households in which household members were sampled for extended interviews. In the NHES:2001 sample, 7 percent of households had only an ECPP interview scheduled; 13 percent had only an ASPA interview scheduled; 22 percent had only an AELL interview scheduled; 4 percent had both ECPP and ASPA interviews scheduled; 4 percent had both ECPP and AELL interviews scheduled; 3 percent had both ASPA and AELL interviews scheduled; less than 1 percent had ECPP, ASPA, and AELL interviews scheduled; and 47 percent had no extended interview scheduled.

Table 5-4. Number and percentage of households responding to the Screener, by type of extended interviews scheduled: NHES:2001

Type of interview scheduled	Number of households	Percent of households
Total	48,385	100.0
ECPP interview only	3,475	7.2
ASPA interview only	6,045	12.5
AELL interview only	10,740	22.2
ECPP and ASPA interviews	1,894	3.9
ECPP and AELL interviews	1,729	3.6
ASPA and AELL interviews	1,373	2.8
ECPP, ASPA, and AELL interviews	226	0.5
No extended interview	22,903	47.3

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

Profile of Screener Unit Response Rates

In most RDD surveys, it is difficult to obtain and examine the characteristics of households that do not respond to the screening interview. Consequently, the ability to examine nonresponse bias at this stage of the survey is limited. In this section unit response rates are given by characteristics of the

telephone number, by characteristics of the geographic area of the households (the ZIP code that has the most households associated with telephone numbers in the exchange) based on the 1990 Census, and by whether an answering machine message was left during the study.

Table 5-5 gives the distribution of the telephone numbers and the estimated unit response rate by the characteristics of the areas. For example, unit response rates were lowest in the Northeast and highest in the Midwest. Households that had a phone number listed as residential had a higher unit response rate than those that were not listed, and households with mailable addresses that were sent an advance mailing responded more often than those that were not sent an advance mailing (either because no mailing address was available for the telephone number or because they were in a sample release wave that was not sent advance mailings, as discussed in chapter 4).

This univariate profile of Screener unit response rates by the characteristics of the areas is difficult to interpret because there are so many characteristics to consider. In addition, some of the characteristics are correlated, and the univariate profile does not explore these relationships. Consequently, a multivariate analysis was performed to examine the interrelationship of the characteristics and the unit response rates.

The goal of the multivariate analysis was to determine if groups of households had extremely different unit response rates. Nonresponse bias in the estimates may appear when the characteristics of the respondents and nonrespondents are different. By identifying groups with different unit response rates, the characteristics of the respondents and nonrespondents can be used as an indicator of the potential for nonresponse bias and thus using these characteristics to form cells for nonresponse adjustment may reduce nonresponse bias (Little 1986). The characteristics of the telephone numbers and of the geographic areas corresponding to the telephone numbers sampled were used to identify groups with different unit response rates. The variables included in the analysis were characteristics of the telephone numbers and their geographic areas that were available and thought to be correlated with the unit response rate.

The analysis was done using a categorical search algorithm called Chi-Square Automatic Interaction Detection (CHAID). This algorithm is very similar to the continuous search algorithms LISREL and AID (Automatic Interaction Detector), which have been used for a number of years, but it is designed especially to handle categorical data like those available for the NHES:2001. CHAID first identifies the characteristic of the data that is the best predictor of response. Then, within the levels of

Table 5-5. Number of telephone numbers dialed in the Screener, by response status, weighted unit response rate, and characteristic of the geographic area based on the telephone exchange: NHES:2001

Characteristic	Total	Residential, responded	Residential, did not respond	Non- residential	Unknown residential status	Estimated unit response rate (percent) ¹
Total.....	179,211	48,385	18,309	95,147	17,370	69.2
Census region						
Northeast.....	31,846	8,815	4,019	15,265	3,747	65.2
South.....	68,256	18,515	6,861	36,591	6,289	69.4
Midwest.....	37,554	9,905	3,127	21,392	3,130	73.1
West.....	41,555	11,150	4,302	21,899	4,204	68.4
Listed status						
Not listed.....	119,858	21,133	9,260	75,204	14,261	61.9
Listed residential.....	50,952	27,252	9,049	11,542	3,109	73.9
Listed business.....	8,401	0	0	8,401	0	†
Mailable status						
Mailable address, mailed to.....	41,848	23,609	7,594	7,494	3,151	74.7
Mailable address, not mailed to.....	31,575	16,083	6,270	6,497	2,725	70.4
No mailable address.....	105,788	8,693	4,445	81,156	11,494	54.6
Answering machine message indicator						
Message left.....	42,122	22,271	10,985	6,360	2,506	66.6
No message left.....	137,089	26,114	7,324	88,787	14,864	71.5
Percent White						
Less than 20 percent.....	10,553	2,641	1,366	5,621	925	62.3
20 to 49 percent.....	28,067	6,794	3,165	15,171	2,937	63.4
50 to 79 percent.....	60,603	15,993	6,266	32,192	6,152	67.4
80 to 89 percent.....	23,100	6,458	2,308	11,944	2,390	68.9
90 percent or more.....	56,888	16,499	5,204	30,219	4,966	72.3
Median home value						
1st decile.....	18,003	4,321	1,291	11,261	1,130	74.8
2nd decile.....	17,890	4,951	1,506	10,192	1,241	74.2
3rd decile.....	17,761	5,112	1,633	9,548	1,468	73.0
4th decile.....	17,760	5,096	1,764	9,426	1,474	71.9
5th decile.....	17,741	5,201	1,806	9,124	1,610	71.2
6th decile.....	17,807	5,189	1,844	8,953	1,821	70.1
7th decile.....	17,915	4,937	1,913	9,141	1,924	68.5
8th decile.....	18,009	4,831	2,144	9,032	2,002	65.4
9th decile.....	18,103	4,723	2,356	8,855	2,169	62.7
10th decile.....	18,222	4,024	2,052	9,615	2,531	60.4
Percent renters						
Less than 50 percent.....	128,965	37,208	13,086	66,927	11,744	70.7
50 to 59 percent.....	21,641	5,308	2,208	11,873	2,252	66.2
60 to 69 percent.....	11,523	2,491	1,135	6,705	1,192	63.8
70 to 89 percent.....	14,602	2,926	1,611	8,267	1,798	58.0
90 percent or more.....	2,480	452	269	1,375	384	54.7
Percent owners						
Less than 50 percent.....	28,452	5,832	2,998	16,265	3,357	60.1
50 to 69 percent.....	60,145	16,221	6,322	31,606	5,996	68.0
70 to 79 percent.....	49,131	14,414	5,015	25,198	4,504	71.1
80 percent or more.....	41,483	11,918	3,974	22,078	3,513	71.5
Percent age 65 and older						
Less than 20 percent.....	123,720	33,841	12,789	65,105	11,985	69.3
20 percent or more.....	55,491	14,544	5,520	30,042	5,385	68.8

† Not applicable.

¹ The estimated unit response rate is the survival method unit response rate, i.e., the number of completed interviews divided by the sum of the number of completed interviews, nonresponses, and 27.9 percent of the unresolved telephone numbers, weighted by the probability of selection.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

that characteristic, CHAID identifies the next most likely response predictor(s), etc., until a tree is formed with all potential response predictors. The final result is a division of the entire data set into cells by attempting to determine sequentially the cells that have the greatest discrimination with respect to the unit response rates. In other words, it attempts to divide the data set into groups so that the unit response rate within cells is as constant as possible, and the unit response rate between cells is as different as possible. This automatic procedure was done by specifying that the minimum number of households in any group had to be greater than or equal to 100 and the split of the variables into subgroups had to be statistically significant using a chi-square test at the 95 percent significance level.

Since many of the variables in the CHAID model, such as median home value, have multiple response categories, the program must take this into account. The CHAID software does this in two ways. First, it allows the data set to be split into more than one subgroup at a time. For example, Census region categories are split differently within different median home value categories. Second, the procedure follows a relatively complex procedure to check all binary splits of the data and equalize the chance of selecting variables irrespective of the number of response categories that variable may have.

An example may help to explain the methods used in CHAID. All of the characteristics in the model are tested, and the one with the response categories having the largest discrimination with respect to the unit response rates is identified.³² Table 7-2 (in chapter 7) contains the summary of this analysis as it relates directly to weighting the data. In this example, the mailable status of the telephone number was the variable chosen as most associated with response propensity and four response categories for this variable were retained. Note, for example, that within mailable status categories the data were tested again; among cases for which a mailable address was obtained (whether or not the mailing was returned), the indicator of whether an answering machine message was left was then used to split the data. Among cases for which a mailable address was not obtained, median home value was then used to split the data. The process continued until the final 31 cells shown in the table were formed. Although the variables median income, minority status, metropolitan status, percent age 65 and older, percent with income of \$75,000 or more, percent Black, percent Hispanic, and percent college graduates were considered in the CHAID analysis, they were not selected as discriminators of response propensity in this multivariate analysis, given the other characteristics.

³²Variables identified in previous analyses as being associated with response propensity were selected from among the variables available for both responding and nonresponding units. In an RDD survey, little information is available for nonresponding units, limiting the selection of characteristics for the CHAID analysis. Information associated with key characteristics of interest, such as participation in early childhood programs, activities, or adult education, and correlates of these such as maternal employment or educational attainment, are not available for nonrespondents and therefore cannot be used for nonresponse adjustment purposes.

In a study conducted using data from the 1997 National Survey of America's Families, Groves and Wissoker (1999) found that there is a slight tendency for households with higher socioeconomic status to require more effort to complete an interview. As described above and depicted in chapter 7, some characteristics of the geographic area associated with socioeconomic status, including median home value and percent homeowners, were used in forming cells for Screener nonresponse adjustment.

The range of unit response rates among the 31 cells suggested that the key characteristics identified by CHAID should be used in creating weighting adjustments. The results indicated that the nonresponse bias may be reduced by using these categories for weighting adjustments. As a result, these 31 cells were used in the adjustment for Screener nonresponse, as discussed in chapter 7. Clearly, some nonresponse bias exists, but these results suggest that the weighting adjusts for some of the important characteristics associated with the nonresponse bias.

Extended Interview Unit Response Rates

During the screening interview, all children were enumerated in households with eligible children; adults were enumerated in only a subsample of households. After the enumeration, children or adults within the household were selected for the ECPP-NHES:2001, ASPA-NHES:2001, and/or AELL-NHES:2001 surveys. The person who was identified as the most knowledgeable about the sampled child's care and education (nearly always a parent and most often the child's mother) became the respondent for the ECPP or ASPA interview. The AELL interview was conducted with the sampled adult.

The numbers of children enumerated and sampled, and those with completed interviews for each survey in the NHES:2001, are given in table 5-6. Of the enumerated 27,661 children eligible for sampling for ECPP or ASPA interviews, a sample of 7,973 children was selected for the ECPP interview, and a sample of 11,135 children was selected for the ASPA interview. About 0.8 percent of the sampled children were either enumerated in error or not actually in the age and grade range for the survey as reported by the ECPP or ASPA interview respondent. These children were classified as ineligible. For the ECPP survey, complete interviews were obtained for 6,749 of the sampled children for an estimated 87 percent unit response rate and an estimated overall unit response rate of 60 percent. The primary source of unit nonresponse for the ECPP interview was the inability to make contact with the parent/guardian respondent (49.2 percent of nonresponse). Other reasons for ECPP interview nonresponse were refusal of the parent/guardian to respond (43.8 percent of nonresponse), language

problems (1.9 percent of nonresponse), and other miscellaneous reasons such as the parent/guardian being unavailable for an interview during the field period (5.1 percent of nonresponse).³³

For the ASPA survey, complete interviews were obtained for 9,583 of the sampled children for an estimated 86 percent unit response rate and an estimated overall unit response rate of 60 percent. The primary source of unit nonresponse for the ASPA interview was the inability to make contact with the parent/guardian (48.1 percent of nonresponse). Other reasons for ASPA interview nonresponse were refusal of the parent/guardian to respond (45.2 percent of nonresponse), language problems (2.1 percent of nonresponse), and other miscellaneous reasons such as the parent/guardian being unavailable for an interview during the field period (4.5 percent of nonresponse).

Table 5-6 also gives the numbers of adults enumerated and sampled and the final status of the AELL interview. Adults were enumerated in only a subsample of households. Of the 59,393 enumerated adults, 13,858 were sampled for AELL interviews. Almost all of those sampled were eligible for the interview; those classified as ineligible were either in the military or currently enrolled in high school. A total of 10,873 adults completed the AELL interview, for an estimated unit response rate of 77 percent and an estimated overall unit response rate of 53 percent. For the AELL interview, the bulk of the nonresponse was due to refusal of the sampled adult to respond (50.4 percent of nonresponse). Other reasons for AELL interview nonresponse were inability to make contact with the sampled adult (36.1 percent of nonresponse), language problems with the sampled adult (3.8 percent of nonresponse), and other miscellaneous reasons such as the sampled adult being unable to respond due to illness (9.6 percent of nonresponse).

The unit response rates for the NHES:2001 surveys are lower than those attained in earlier NHES surveys. In past surveys, unit response rates for surveys of parents of sampled children have generally been 89 to 90 percent (although the ECE-NHES:1991 achieved an unusually high rate of 95 percent). Among adults sampled for AE surveys, unit response rates have generally been 80 to 85 percent. The lower rates observed in the NHES:2001 are a reflection of the increasing difficulty in obtaining cooperation in RDD surveys, which is believed to be due in part to the prevalence of call screening devices (Brock Roth, Montaquila, and Brick 2001).

³³Inability to make contact with the parent or guardian means that, despite repeated attempts, it was not possible to reach the parent/guardian respondent. The parent/guardian being unavailable during the field period means that either the parent/guardian himself/herself or another member of the household stated that the person identified as the respondent would not be available for an interview prior to the end of the data collection period.

Table 5-6. Number of enumerated children and adults, completed interviews, and weighted unit response and overall unit response rates, by type of extended interview: NHES:2001

Type of interview	Number	Estimated unit response rate (percent)	Estimated overall unit response rate (percent) ¹
ECPP interview			
Enumerated	9,184	†	†
Sampled for ECPP	7,973	†	†
Sampled for ECPP and eligible for ECPP	7,828	†	†
Did not respond.....	1,098	†	†
Sampled as ECPP, completed as ECPP	6,730	†	†
Sampled as ASPA, completed as ECPP	19	†	†
Sampled as ECPP, completed as ASPA	25	86.6	59.9
ASPA interview			
Enumerated	18,477	†	†
Sampled for ASPA.....	11,135	†	†
Sampled for ASPA and eligible for ASPA	11,075	†	†
Did not respond.....	1,517	†	†
Sampled as ASPA, completed as ASPA.....	9,558	†	†
Sampled as ECPP, completed as ASPA	25	†	†
Sampled as ASPA, completed as ECPP	19	86.4	59.7
AELL interview			
Enumerated	59,393	†	†
Sampled	13,858	†	†
Eligible.....	13,833	†	†
Did not respond.....	2,960	†	†
Completed.....	10,873	77.2	53.4

† Not applicable.

¹ The estimated overall unit response rate is computed by multiplying the Screener unit response rate of 69.2 percent by the appropriate extended interview unit response rate. Due to rounding, the product of the reported Screener unit response rate and the reported extended interview unit response rate may not match the estimated overall unit response rate given.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Program Participation (ECPP) Survey of the National Household Education Surveys Program (NHES), 2001, Before- and After-School Programs and Activities (ASPA) Survey of the NHES, 2001, and Adult Education and Lifelong Learning (AELL) Survey of the NHES, 2001.

Profile of Extended Interview Unit Response Rates

The unit response rates for the extended interviews can be examined by variables available for both respondents and nonrespondents. The variables examined here were considered because they have been associated with extended interview unit response rates in previous NHES surveys. The variables shown for the ECPP interview are Census region (based on the telephone number) and enrollment status of the sampled child, which was collected during the Screener. Table 5-7 shows the number of sampled children by response status and unit response rate for each of these variables. The unit response rates are quite consistent across all enrollment status categories and across Census regions, with the exception of a higher unit response rate in the Midwest region.³⁴

Table 5-7. Number of sampled ECPP interviews, by response status and weighted unit response rates: NHES:2001

ECPP interviews	Total	Responded	Did not respond	Ineligible	Estimated unit response rate (percent)
Total	7,973	6,755	1,098	120	86.6
Census region					
Northeast	1,391	1,155	216	20	84.9
South	2,929	2,487	399	43	86.1
Midwest.....	1,636	1,430	183	23	89.1
West	2,017	1,683	300	34	86.0
Enrollment status of child (Screener)					
Not enrolled.....	5,750	4,845	787	118	86.6
Nursery/Preschool	2,220	1,910	310	0	86.6
Unknown.....	3	0	1	2	0

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Program Participation (ECPP) Survey of the National Household Education Surveys Program (NHES), 2001.

For the ASPA interview, three variables about each sampled child were used for examining the response profile: Census region, grade of the child, and type of school (i.e., regular school vs. homeschool). Census region was obtained based on the telephone number, and grade and type of school were obtained in the Screener. The distribution of cases for these variables and the estimated unit response rate are shown in table 5-8. There is little variation in the unit response rates for region or for

³⁴ As noted in the discussion of Screener-level nonresponse adjustment, little information is available on nonresponding households in an RDD survey. For the extended-level nonresponse adjustment, some information about sampled household members (for example, enrollment status) was available from the completed Screener and was included in the nonresponse adjustments.

students whose grade is known. The conditional unit response rates by type of school are more variable, with a higher rate for homeschoolers.

Table 5-8. Number of sampled ASPA interviews, by response status and weighted unit response rates: NHES:2001

ASPA interviews	Total	Responded	Did not respond	Ineligible	Estimated unit response rate
Total	11,135	9,577	1,517	41	86.4
Census region					
Northeast	2,062	1,764	293	5	86.2
South	4,186	3,578	593	15	85.7
Midwest.....	2,212	1,971	235	6	89.4
West	2,675	2,264	396	15	84.3
Grade of child (Screener)					
Kindergarten.....	894	762	131	1	84.9
1st grade.....	936	810	126	0	86.9
2nd grade.....	872	768	102	2	88.2
3rd grade	918	771	144	3	85.7
4th grade.....	1,008	878	125	5	85.9
5th grade.....	1,041	898	141	2	87.2
6th grade.....	1,827	1,558	267	2	85.5
7th grade.....	1,846	1,614	228	4	88.3
8th grade.....	1,750	1,493	242	15	85.2
Other ¹	5	4	1	0	75.9
Unknown.....	38	21	10	7	67.3
School (Screener)					
Regular school.....	10,866	9,348	1,480	38	86.3
Homeschool	221	197	23	1	91.2
Unknown.....	48	32	14	2	67.3

¹ "Other" included ungraded and special education.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Before- and After-School Programs and Activities (ASPA) Survey of the National Household Education Surveys Program (NHES), 2001.

For the AELL interview, four variables were considered in examining the response profile: Census region (based on the telephone number), sex (from the Screener), adult education participation status as reported by the Screener respondent (who may or may not have been the sampled adult), and an indicator of whether the sampled adult was the Screener respondent. The results are given in table 5-9. There was some variation in unit response rates across regions; specifically, the unit response rate in the Midwest was higher than in the other regions. The unit response rate for females was higher than that for

males, and the unit response rate for adults reported by the Screener respondent to be adult education participants was higher than the unit response rate for those reported to be nonparticipants. Sampled adults who were the Screener respondents completed the AELL interview at higher rates than those who were not the Screener respondents.

Table 5-9. Number of sampled AELL interviews, by response status and weighted unit response rates: AELL-NHES:2001

AELL interviews	Total	Responded	Did not respond	Ineligible	Estimated unit response rate (percent)
Total	13,858	10,873	2,960	25	77.2
Census region					
Northeast	2,476	1,900	570	6	74.5
South	5,210	4,064	1,137	9	76.1
Midwest.....	2,892	2,356	534	2	81.0
West	3,280	2,553	719	8	77.2
Sex (Screener)					
Female.....	7,690	6,224	1,458	8	80.1
Male	6,168	4,649	1,502	17	73.9
Adult education participation status (Screener)					
Participant	6,615	5,348	1,251	16	79.6
Nonparticipant.....	7,243	5,525	1,709	9	75.7
Screener respondent					
Sampled adult.....	8,525	7,369	1,151	5	87.2
Person other than sampled adult.....	5,333	3,504	1,809	20	66.0

SOURCE: U.S. Department of Education, National Center for Education Statistics, Adult Education and Lifelong Learning (AELL) Survey of the National Household Education Surveys Program (NHES), 2001.

Nonresponse Bias

The estimates from the NHES:2001 are subject to potential bias because of nonresponse to the Screener and the extended interview components. Generally speaking, the best approach to minimizing nonresponse bias is to plan and implement data collection procedures aimed at achieving high unit response rates. For the NHES:2001, such procedures included extensive training of the interviewers, advance mailings to the respondents, effective call scheduling strategies, and, where necessary, refusal conversion methods that included recontacting households by both telephone and mail if mailable

addresses could be obtained (see chapter 4). However, because some nonresponse occurs even with the best strategies, weighting adjustments are necessary to minimize potential nonresponse bias.

The term bias has a specific technical definition in this context. Bias is the expected difference between the estimate from the survey and the actual population value. For example, if all households were included in the survey (i.e., if a census was conducted rather than a sample survey), the difference between the estimate from the survey and the actual population value (which includes the responses of persons who did not respond to the survey) is the bias due to nonresponse. Since the NHES is based on a sample, the bias is defined as the expected or average value of this difference over all possible samples.

Nonresponse bias, the bias due to the failure of some persons or households in the sample to respond to the survey, can be substantial when two conditions hold. First, the differences between the characteristics of respondents and nonrespondents must be relatively large. For example, consider estimating the percentage of adults who participated in an adult education activity in the past year. If the participation rate is nearly identical for both respondents and nonrespondents, then the nonresponse bias of the estimate will be negligible.

Second, the nonresponse rate must be relatively high. If the nonresponse rate is very low relative to the magnitude of the estimates, then the nonresponse bias in the estimates will be small, even if the differences in the participation rates or other characteristics between respondents and nonrespondents are relatively large. For example, if the nonresponse rate is only 2 percent, then estimates of totals that compose 20 or 30 percent of the population will not be greatly affected by nonresponse, even if the differences in these characteristics between respondents and nonrespondents are relatively large. It is important to realize that this condition requires the nonresponse rate to be large relative to the size of the estimates. If the estimate is for a small domain or subgroup, then even a relatively low rate of nonresponse can result in important biases if the differences between respondents and nonrespondents are large.

The bias of an estimate can be expressed mathematically to show the relationships between the bias and the two factors discussed above. The bias is given by

$$\text{Bias}(\hat{y}_r) = p_n \{E(\hat{y}_r - \hat{y}_n)\},$$

where \hat{y}_r is the estimated characteristic based on the respondents only, p_n is the nonresponse rate, \hat{y}_n is the estimated characteristic based on the nonrespondents only, and E is the expectation operator for averaging over all possible samples (Cochran 1977).

A nonresponse bias analysis was undertaken to examine nonresponse and the potential bias associated with nonresponse in the NHES:1999 (Nolin et al. 2000). This study involved an examination of unit response rates as a whole and for various subgroups, an analysis to determine characteristics that are associated with Screener nonresponse, an examination of the potential usefulness of household-level data from an external source in reducing nonresponse bias, and a comparison of estimates based on adjusted and unadjusted weights. A nonresponse bias analysis was not done for NHES:2001, but such an analysis would likely result in the same conclusion of no bias as in NHES:1999 because the differences in unit response rates by interviewee characteristics are similar and because the NHES:2001 and NHES:1999 survey administrations are very similar in terms of their target populations, contact procedures, and salience. Thus, the results of the NHES:1999 nonresponse bias study can be used to assess the potential for nonresponse bias in the NHES:2001.

The analysis of nonresponse bias showed no evidence of bias in estimates from the NHES:1999 Parent, Youth, and Adult Education surveys. The statistical adjustments used in weighting may have corrected at least partially for biases that might have existed due to differential nonresponse. Of course, nonresponse bias may still be present in other variables that were not studied. In the NHES:2001, the largest component of nonresponse was nonresponse to the Screener. With the use of a CHAID analysis to create the nonresponse adjustment cells that were used to adjust for Screener nonresponse, there is evidence from the NHES:1999 nonresponse bias analysis study to suggest that there is little nonresponse bias attributable to Screener nonresponse.

6. ITEM RESPONSE AND IMPUTATION

Introduction

In the NHES:2001, as in most surveys, the responses to some data items are not obtained for all interviews. There are numerous reasons for item nonresponse. Some respondents do not know the answer for the item or do not wish to respond for other reasons. Some item nonresponse arises when an interview is interrupted and not continued later, leaving items at the end of the interview blank. Item nonresponse may also be encountered because responses provided by the respondent are not internally consistent, and this inconsistency is not discovered until after the interview is completed. In such cases, one of the items that were not internally consistent was set to missing.

For most of the data items collected in the NHES:2001, the item response rate was very high. The median item response rate for items from the ECPP interview was 99 percent; for the ASPA interview data, 98 percent; and for the AELL interview, 99 percent. Despite the high item response rate, numeric and categorical data items with missing data on the file were imputed. (In general, character string variables, such as countries of origin, languages, or “other/specify” responses were not imputed.³⁵) The imputations were done for two reasons. First, complete responses were needed for the variables used in developing the sampling weights. Second, users compute estimates employing a variety of methods and having complete responses aids in conducting analysis.

Methodology

The methodology used for imputation in the NHES:2001 was very similar to that used in previous NHES survey administrations. The imputation procedures were developed based on the procedures for imputing items in the NHES:1995 surveys, the NHES:1996 surveys, and the NHES:1999 surveys.

A hot-deck procedure was used to impute missing responses (Kalton and Kasprzyk 1986). In this approach, the entire file was sorted into cells defined by characteristics of households or respondents that are likely to be associated with differences in response propensities. These

³⁵The exceptions were some character string variables in the AELL interview (e.g., major field of study, industry) that were coded into new variables (e.g., major field of study codes, industry codes). In cases where the original string variable was missing, the string variable was imputed and then coded into the new variable. The restricted data files contain the imputed character strings and the public files contain the coded variables based upon these imputed strings.

characteristics, or boundary variables, were used to group respondents into those most likely to have the same response or the same response propensity for the data item to be imputed. Two types of boundary variables were used. “Hard” boundary variables were considered to be so important that the donor and the recipient were required to match exactly. For other sort variables, called “soft” boundary variables, the values did not have to match exactly. In effect, the hard boundary variables were matching variables and the soft boundary variables were used to order the cases within the matching variables. The variables used as sort variables in the imputation of items in the NHES:1995, the NHES:1996, and the NHES:1999 were considered in order to arrive at a final set of standard imputation sort variables for each of the NHES:2001 surveys.

The WESDECK software was used to implement the hot-deck imputation procedure. WESDECK is a proprietary SAS macro developed by Westat to form hot-deck cells, impute using the hot-deck method, and generate output to verify the imputation.

The standard set of sort order variables³⁶ for the household-level items collected in the ECPP, ASPA, and AELL surveys consisted of:

- CENREG—the Census region in which the household was located;
- HINCOME and HINCMRNG—household income category (broad and specific, respectively);
- KIDINHH—a variable derived specifically for imputation from the age (AGE) of household members indicating whether or not children under age 18 resided in the household; and
- HOWNHOME—whether the home was rented versus owned or other arrangement.

The standard sort order variables for the person-level items on the ECPP and ASPA interview files were:

- MAINRSLT—the final completion code for the interview;
- ALLGRADR—a variable derived specifically for imputation that indicates the grade/grade equivalent of the sampled child;
- SEX—sex of the sampled child;
- PARGRADS—a variable derived specifically for imputation that indicates the highest education level attained by either parent in the household as less than high school diploma, high school diploma but no bachelor’s degree, or college graduate. This variable was derived from MOMGRADE, MOMDIPL, DADGRADE, and DADDIPL; and

³⁶Some sort order variables were created specifically for imputation and do not appear on the data files.

- HHPARNS—a variable derived specifically for imputation from HHMOM and HHDAD indicating whether there were two parents in the household or not.

The standard sort order variables for the person-level items from the AELL interview file were:

- PARTIC—a variable derived specifically for imputation that indicates whether the adult participated in any adult education activities (including full-time credential) in the last year;
- EDUC—a variable derived specifically for imputation that indicates whether or not the adult has at least a high school diploma or the equivalent;
- AGECAT—a variable derived specifically for imputation from AGE for the respondent with the categories 18 through 29 years, 30 through 49 years, and 50 or older;
- ARACETH—a variable derived specifically for imputation that classifies the respondent as Black, non-Hispanic; Hispanic; or other; and
- HINCMRNG—the household income range.

For items that were sometimes skipped, a “trigger” variable was included as one of the hard boundary variables. The trigger variable ensured that the skip pattern in the questionnaire was maintained. The trigger variable could be either a single variable or a set of conditions that determine whether the respondent is eligible for the particular question, i.e., whether the variable in question should be answered or skipped. In some cases, an item was originally coded –1 (inapplicable) because of nonresponse to a component of the trigger, but the item became applicable as a result of the imputed value for the trigger component. In such cases, the item was recoded from –1 to –9 and imputed. If, on the other hand, the trigger indicated that the item should have been skipped, the variable was set equal to –1 (if it was not already equal to –1) in the program that prepared the data for imputation prior to imputation of that variable.³⁷

All of the observations were sorted into cells defined by the responses to the sort variables, and then divided into two classes within the cell depending on whether or not the item was missing. For an observation with a missing value, a value from a randomly selected donor (observation in the same cell but with the item completed) was used to replace the missing value. This method is called a hot-deck procedure because actual values are imputed from donors selected from the current data set. After the imputation was completed, edit programs were run to ensure the imputed responses did not violate skip

³⁷In order to maintain the correct skip patterns during imputation, variables were imputed in “rounds.” That is, before a set of variables could be imputed, the trigger variables for that set had to be imputed. Thus, the process of recoding and imputing described here was done in a sequential manner.

patterns or edit rules. If any violations occurred, the program was adjusted and imputation was rerun, or if only a few cases were affected, they were manually imputed.

Items in repeating segments³⁸ (i.e., arrangement-level items such as NCCOST1-NCCOST3 on the ECPP and ASPA data files and course-level items such as WRCURR1-WRCURR4 on the AELL data file) were imputed without regard to the segment number. That is, all segments were combined prior to imputation. In the absence of a compelling reason to distinguish among segments, this approach allowed for a larger donor pool to be used.

After values had been imputed for all observations with missing values, the distribution of the item prior to imputation, (i.e., the respondents' distribution) was compared to the post-imputation distributions of the imputed values alone and of the imputed values together with the observed values. There were 37 items in the ECPP file with response rates of less than 90 percent, 89 such items in the ASPA file, and 56 such items in the AELL file. The comparisons revealed similar item distributions pre- and post-imputation. This comparison is an important step in assessing the potential impact of item nonresponse bias and ensuring that the imputation procedure reduces this bias, particularly for items with relatively low response rates (less than 90 percent).

For each data item for which any values were imputed, an imputation flag variable was created. If the response for the item was not imputed, the imputation flag was set equal to 0. If the response was imputed, the flag was set to 1, 2, 3, or 4. The value of the imputation flag indicates the specific procedure used to impute the missing value. The imputation flag was typically set to 1 if the missing value was imputed using the standard hot-deck approach. In some cases, variables had to be recoded to be consistent with the skip patterns of the questionnaire prior to being imputed using the standard hot-deck approach; for these cases, the imputation flag was set to 2. For items that were imputed manually, the flag was set to 3. The imputation flag was set to 4 for cases in which the original response had been "don't know." The flag value of 4 was set so that users can consider "don't know" responses to items separately from other nonresponse if they wish. This convention was especially useful for the political knowledge items in the NHES:1996 and NHES:1999 surveys. However, it may provide some analytic utility in the analysis of variables in the items concerning where the sampled child spends time after school (SCAHOMI, SCAHOMO, SCARELA, SCAFRND, SCANEIG, SCAPUBL, SCACENT, SCAOUT, SCASCHL, SCAPLOTH) and what the child spends most after-school hours doing (SCAEDUC, SCACOMP, SCAREAD, SCAART, SCACHOR, SCAOUTPL, SCAINPLA, SCAPHON,

³⁸ A "segment" is a section of the interview.

SCAEAT, SCATV, SCATALK, SCAOTH) in the ASPA interview. (This list of variables is provided for illustrative purposes only and is not all-inclusive.)

The imputation flags were created to enable users to identify imputed values. Users can employ the imputation flag to delete the imputed values, use alternative imputation procedures, or account for the imputation in computation of the reliability of the estimates produced from the data set. For example, some users might wish to analyze the data with the missing values rather than the imputed values. If there is no imputation flag corresponding to the variable, no values for that variable were imputed. If the imputation flag corresponding to the variable is equal to 1, 2, 3, or 4, the user can replace the imputed response with a missing value to accomplish this goal. This method could also be used to replace the imputed value with a value imputed by some user-defined imputation approach.

Imputation can affect the precision of survey estimates, especially when large numbers of cases are imputed for a given measure (this is generally not the case in the NHES surveys). If the user wishes to account for the fact that some of the data were imputed when computing sampling errors for the estimates, the missing values could be imputed using multiple imputation methods (Rubin 1987) or imputed so that the Rao and Shao (1992) variance procedures could be used.

Manual Imputation

For some items, the missing values were imputed manually rather than using the hot-deck procedure. In the NHES:2001, hand imputation was done (1) to impute certain person-level demographic characteristics; (2) to impute whether a child is homeschooled, whether the child attends regular school for some classes, and the number of hours the child attends regular school; (3) to correct for a small number of inconsistent imputed values; and (4) to impute for a few cases when no donors with matching sort variable values could be found. Tables 6-1, 6-2, and 6-3 show the variables from the ECPP, ASPA, and AELL surveys, respectively, for which manual imputation was conducted and the percent of values manually imputed.

Some person-level characteristics from the Screener and from the Demographic Characteristics section of the ECPP and ASPA interviews and the Initial Background and Remaining Background sections of the AELL interview were imputed manually because these variables typically involve complex relationships and/or constraints that would have required extensive programming in order to impute using a hot-deck procedure. The same is true of the items indicating whether a child is homeschooled, whether the child attends regular school for some classes, and the number of hours the

child attends regular school. Furthermore, the reasonableness of imputed values for person-level characteristics can often be assessed by examining the values of these variables for other members of the household. For example, while there is an increasing incidence of mixed-race households, the race of household members tends to be the same in most cases. Education is also correlated among adults within households. The use of the manual imputation approach in this situation permits the review of the characteristics of household members when imputing the missing values on the person-level variables.

For hand imputation of the person-level demographic items and of the homeschooling items, three sort variables were used. State was used as the first sort variable; that is, whenever possible, all values were imputed from within-state donors. Because there is some geographic clustering of subpopulations within states, the three-digit ZIP code of the household was used as the second sort variable. Third, cases were sorted by the person identification number. Because all household members share the first eight digits of their identification numbers, this resulted in all household members being grouped together.

Manual imputation was also used to correct for inconsistent values following post-imputation data editing. Following imputation, edit programs were run to ensure that the imputed responses did not violate edit rules. When violations or inconsistencies were detected, manual imputation was used in some cases to reimpute for a very small number of cases. The distribution of the item was used to arrive at the new values; typically, a modal value was imputed. In some cases, the overall mode was imputed, and in other cases, a modal value for a subgroup was imputed.

The final use of manual imputation was to impute for a few cases when no donors with matching hard boundary variable values could be found. For these cases, when relaxing the hard boundary variable requirements still did not produce a donor, manual imputation was done. The distribution of the item was used to assign imputed values; typically, a modal value was imputed. In some cases, the overall mode was imputed, and in other cases, a modal value for a subgroup was imputed. The following is a description of the specifications used to manually impute specific items.

Age and year of birth. In the ECPP and ASPA interviews, year of birth (CDOBYYY) had to have been given by the respondent in order for the interview to be conducted; thus, AGE2000 was available for every child with a completed ECPP or ASPA interview. Relationship to the child sampled for an ECPP or ASPA interview was used as a hard boundary variable in the imputation of age for adults in the households in which there was a completed ECPP or ASPA interview. When the age of a parent was missing and the age of the other parent was available, the other parent was used as the donor. When there was only one parent in the household and his or her age was missing, age was imputed from the

previous single-adult household with a child the same age as the oldest child in the missing-variable household (within the same state, and within the same three-digit ZIP code, if possible).

When the value of age for an adult was missing and there was no ECPP or ASPA interview in the household, the age of the missing person was imputed as the median age of the adult household members. When the adult for whom the age was missing was the only adult in the household, the age of the adult in the previous single-adult household within the same state and within the same three-digit ZIP code was used.

For adults sampled for an AELL interview with missing year of birth (ADOBY), year of birth was updated based on reported age or imputed after imputing age, such that the year of birth was consistent with age. Month of birth (ADOBMM and CDOBMM) was imputed from the nearest eligible donor who was born in the same year or within 5 years, within the three-digit ZIP code and state.

Sex. Sex (SEX and SEX_n) was imputed in two ways. First, deductive imputation was used when the information in the household suggested an appropriate answer. For example, if there were two household members and one reported that he or she was married, and one was male and the other was missing on sex, the latter person was imputed as female. For cases in which an appropriate answer could not be deduced, the value of sex was imputed as either male or female with equal probability.

Race (including “other” race) and Hispanic origin. Race and Hispanic origin (CRACE, CHISPAN, ARACE, and AHISPANI) were imputed in different ways, depending on the information available about the household members. First, when race and Hispanic origin were available for other household members, this information was used to impute race and Hispanic origin for the person for whom the data were missing. The household member enumerated immediately before the person with the missing value was used as the donor. (If the person with the missing value was enumerated first, then the next person in the household was used as the donor.) When race and/or Hispanic origin were not available for any household members, the first enumerated household member in the previous within-state, within three-digit ZIP code household was used as the donor.

Country of birth and first language. The country of birth and first language variables (CBORNUS, CSPEAK, MOMBORN, MOMLANG, MOMSPEAK, DADBORN, DADLANG, DADSPEAK, ABORNUS, IBLANG, and IBSPEAK) were imputed using the same procedure as described above for race and Hispanic origin.

Marital status. In the imputation of marital status (AMARSTAT, ALIVWITH, MOMSTAT, MOMLIVW, MOMPART, DADSTAT, DADLIVW, and DADPART), the number of adults in the household (classified as “one adult” or “more than one adult”) was used as a hard boundary.

Active duty status and household residency. In order to avoid imputing a sampled adult to be ineligible for the AELL interview, active duty military status (XACTVDUT) was imputed to “not currently serving on active duty in the U.S. Armed Forces” and household residency (LIVENOW) was imputed to “adult is living here (in this household).”

Homeschooling. The homeschooling variable HOMESCHL was imputed for persons age 5 through age 15 who did not have a grade or grade equivalent. For persons under age 5, the value of the homeschooling question was set to -1. (This is an update, not an imputation. Updates are discussed further below.) For persons ages 5 and above who were missing HOMESCHL, the value of the homeschooling question HOMESCHL was imputed to “no.” It was expected that this would have a negligible effect on the distribution of HOMESCHL. Furthermore, there were numerous opportunities throughout the instrument for the respondent to indicate that questions were not applicable if the child was solely homeschooled (e.g., questions on school characteristics). Thus, imputing HOMESCHL to “no” seems reasonable. Other homeschool variables, such as whether the child receives all schooling at home (HOMEALL) and the number of hours per week the child goes to school for instruction (HOMSCHR), were imputed using the WESDECK procedure.

Grade in school/highest grade completed/high school diploma. In the ECPP and ASPA interviews, if the respondent refused to provide or could not provide GRADE, the interviewer asked for a more knowledgeable respondent; thus, GRADE was never missing for a sampled child. Grade equivalent (GRADEEQ) and highest grade completed for parents or adults (MOMGRADE, DADGRADE, IBGRADE) were imputed using age as an additional sort variable. When the person with the missing value was age 25 or younger, the donor was of the same age, unless there was no donor of the same age available; in this case, the donor was within 1 year of age in either direction. When the person was over age 25 and was married, the educational attainment of the spouse was used; otherwise, the donor was the person closest in age to the recipient within the state and ZIP code whose possession of a high school diploma or not was the same as the person with the missing variable, if available. When grade in school did not need to be imputed but a following item was missing (e.g., MOMDIPL), the donor was the person with the same grade or educational attainment who was closest in age within state and three-digit ZIP code.

Same school. The variable that indicates whether two children in the family attend the same school, SSAME, was used for convenience to avoid administering some school items twice to the parent respondent for two children who attend the same school. It was created to trigger a skip in order to reduce respondent burden; however, it was not intended to be used for analytic purposes. It was imputed to “no” because if the value of SSAME was missing, the items in question would have been administered the second time in the interview.

Relationship. When a household member’s relationship to the sampled child was missing, the variable RELATN_n was imputed manually. The age, gender, and relationship of all household members to the subject child, as well as the mother’s (or female guardian’s) and father’s (or male guardian’s) marital status and related variables were examined to determine the likely relationship of the person missing on that variable.

Updates and Imputations

Some of the values that changed during the manual imputation process were actually updates. This occurred when a value was missing on one data file but was available from another source in the database. For example, when an adult had a missing value on the variable IBDIPL (high school diploma), the database was checked to see if that person was the mother or father of a sampled child and, if so, the value of MOMDIPL or DADDIPL (as appropriate) was used to update IBDIPL. Conversely, when IBDIPL was available for the mother or father but MOMDIPL or DADDIPL had missing values, the value of IBDIPL was used to update MOMDIPL or DADDIPL. Very few values were updated in this way. This process is not considered imputation because the response is obtained from the household, and these updates are not reflected in the imputation flags.

If the response could not be obtained from either interview in the household, one variable (e.g., IBDIPL) was imputed, and the imputed value was then copied into the other variable (e.g., MOMDIPL). Likewise, the value of the imputation flag for the first variable was copied into the value of the imputation flag for the second variable because the process involved some imputation, not just updating.

Item Response Rates

For most of the data items collected in the NHES:2001, the item response rates were very high. However, for certain subgroups, the item response rates for some items varied considerably. It is recommended that analysts examine the item response rates for the items in their analyses for the subgroups under consideration.

The tables in this chapter show the item response rates³⁹ for items on the public data files. The number of cases for which each item was attempted and the percentage of cases for which a valid response was obtained are shown, as well as the percent of imputed cases that were manually imputed. Tables 6-1, 6-2, and 6-3 show the item response rates for items on the ECPP, ASPA, and AELL files, respectively. For the ECPP, ASPA, and AELL surveys, the median item response rates were 99.29 percent, 98.35 percent, and 99.34 percent, respectively.

As shown in table 6-1, most items on the ECPP public use data file have item response rates over 90 percent. Among items with response rates of less than 90 percent are those pertaining to the offering of flexible benefits accounts for child care expenses (MOMACUSE, DADACCT, and DADACUSE); income items (HINCOME and HINCMEXT); items that apply to only a small number of cases, such that a very small number of nonresponding cases has a substantial effect on the item response rate (NCWKMO2, NCDAYWK2, NCCOST3, NCUNIT3, NCCSTHH3, NCCOST2, NCUNIT2, RCWKMO1, CPDAYWK1, CPHRWK1, AGE9, PCENDYY2, RCWKMO2, NCWKMO1, NCDAYWK1, NCCSTHN2, CPWKMO1, PCHDCOS3, NCCSTHN3, CPBELIE3, and CPDENTA3); and followup questions about arrangements reported late in the interview (MOMADAYS, MOMBHOUS, MOMBWEEK, MOMBDAYS, MOMAHRS, MOMBHRS). Household income items traditionally generate high nonresponse because many people are sensitive about providing information about their household income, and prefer to respond with a general income range.

Items with response rates of less than 90 percent on the ASPA public file (table 6-2) include the same classes of items having response rates of less than 90 percent on the ECPP file (listed above), as well as items pertaining only to homeschoolers (HSPAPLCU, HSACTVSU, HSACTVS, HSSTPLC, HSPAPLC, HSSTPLCU, HSSTWEBU, HSMATLS, HSSTWEB, HSMATLSU, HSCURRU, HSPAWEB, HSATTND, HSCURR, and HSPAWEBU). For the ASPA survey, there is one other set of variables worth noting. During the preparation of the data file, an unintended skip in the ASPA questionnaire was detected for a set of parental care items (PABHOME, PAAHOME, PAAHMIN, PAAHMOUT,

³⁹ All item response rates reported here are unweighted.

PAARELA, PAAFRND, PAANEIG, PAAPUBL, PAACENT, PAAOUT, PAASCHL, PAAPLOTH, PAAEDUC, PAACOMP, PAAREAD, PAAART, PAACHOR, PAAOUTPL, PAAINPLA, PAAPHON, PAAEAT, PAATV, PAATALK, PAAACTIV, and PAAOTHER). Consequently, the item PABHOME was not asked about children with no before-school arrangements if they also had before- or after-school activities that were used to cover hours when parents needed adult supervision for them (ASCOVER = 1). This question should have been asked for all children who had no arrangements before school, regardless of the status of their before- or after-school activities. All remaining items in the list above were skipped if children had no after-school arrangements and had before- or after-school activities that were used to cover hours when adult supervision was needed.

Items with response rates of less than 90 percent on the AELL public file (table 6-3) include income and earnings items (HINCMRNG, HINCM50K, EARNAMT, EARNUNT, HINCOME, and HINCMEXT); items that apply to only a small number of cases (e.g., items pertaining to the second and third credential program and the second vocational program); and items pertaining to hours of instruction (BSHRYR, APCLSHR, CRCLSHR1, VOCRDHR1). As noted previously, income and earnings items traditionally generate high nonresponse because many people are sensitive about providing information about their income and earnings. For items that are asked only of a small subgroup of respondents, a small number of missing values could result in a low item response rate. The relatively high nonresponse to items pertaining to hours of instruction is likely the result of respondents' inability to recall the hours spent in instruction.

Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
SEX1	O/HH MEM - #1'S SEX	5,244	100.00	0.00
SEX2	O/HH MEM - #2'S SEX	2,642	100.00	0.00
SEX4	O/HH MEM - #4'S SEX	472	100.00	0.00
SEX5	O/HH MEM - #5'S SEX	203	100.00	0.00
SEX6	O/HH MEM - #6'S SEX	78	100.00	0.00
RELATN6	O/HH MEM - #6'S RELATION TO CHILD.....	78	100.00	0.00
SEX7	O/HH MEM - #7'S SEX	36	100.00	0.00
RELATN7	O/HH MEM - #7'S RELATION TO CHILD.....	36	100.00	0.00
AGE8	O/HH MEM - #8'S AGE	14	100.00	0.00
SEX8	O/HH MEM - #8'S SEX	14	100.00	0.00
RELATN8	O/HH MEM - #8'S RELATION TO CHILD.....	14	100.00	0.00
SEX9	O/HH MEM - #9'S SEX	6	100.00	0.00
RELATN9	O/HH MEM - #9'S RELATION TO CHILD.....	6	100.00	0.00
AGE10	O/HH MEM - #10'S AGE	2	100.00	0.00
SEX10	O/HH MEM - #10'S SEX	2	100.00	0.00
RELATN10	O/HH MEM - #10'S RELATION TO CHILD.....	2	100.00	0.00
AGE11	O/HH MEM - #11'S AGE	1	100.00	0.00
SEX11	O/HH MEM - #11'S SEX	1	100.00	0.00
RELATN11	O/HH MEM - #11'S RELATION TO CHILD.....	1	100.00	0.00
CBORNUS	PA5-CHILD'S BIRTH COUNTRY.....	6,749	100.00	0.00
ENROLL	PB1-CHILD ENROLLED/ATTENDING SCHOOL.....	3,150	100.00	0.00
HOMESCHL	PB2-CHILD BEING SCHOOLED AT HOME	349	100.00	0.00
HOMEALL	PB4-FULL OR PARTIAL HOMESCHOOL.....	9	100.00	0.00
HOMSCHR	PB5-HRS/WK HOMESCHOOLED CHILD IN SCHOOL	1	100.00	0.00
GRADE	PB6-GRADE/YR CHILD IS ATTENDING.....	1,831	100.00	0.00
GRADEEQ	PB7-GRADE EQUIV/HOMESCHOOL SP ED/UNGRD	17	100.00	0.00
RCTYPE4	ED5-RELATIVE WHO CARES FOR CHILD-4	8	100.00	0.00
RCAGE4	ED5OV-AGE OF RELATIVE CAREGIVER-4.....	8	100.00	0.00
RCPLACE4	ED6-LOCATION OF RELATIVE CARE-4.....	8	100.00	0.00
RCINHH2	ED7-REL CARE PROVIDER LIVES IN HH-2.....	96	100.00	0.00
RCINHH4	ED7-REL CARE PROVIDER LIVES IN HH-4.....	3	100.00	0.00
RCHOMM4	ED8-MINUTES TO GO TO RELATIVE'S HOME-4	5	100.00	0.00
RCWEEK3	ED9-REL CARE REG SCHED ONCE/WEEK-3.....	54	100.00	0.00
RCWEEK4	ED9-REL CARE REG SCHED ONCE/WEEK-4.....	8	100.00	0.00
RCMONTH2	ED10-REL CARE REG SCHED ONCE/MONTH-2	89	100.00	0.00
RCMONTH4	ED10-REL CARE REG SCHED ONCE/MONTH-4	5	100.00	0.00
RCMONTH3	ED10-REL CARE REG SCHED ONCE/MONTH-3	19	100.00	0.00
RCHRD4	ED12-# OF HRS/WK RECEIVES REL CARE-4	3	100.00	0.00
RCWKMO3	ED13-# OF WKS/MO RECEIVES REL CARE-3.....	13	100.00	0.00
RCWKMO4	ED13-# OF WKS/MO RECEIVES REL CARE-4.....	2	100.00	0.00
RCDAYWK3	ED14-# OF DAYS/WK RECEIVES REL CARE-3	13	100.00	0.00
RCDAYWK4	ED14-# OF DAYS/WK RECEIVES REL CARE-4	2	100.00	0.00
RCHRWK3	ED15-# OF HRS/WK RECEIVES REL CARE-3	13	100.00	0.00
RCHRWK4	ED15-# OF HRS/WK RECEIVES REL CARE-4	2	100.00	0.00
RCKIDS3	ED17-NUM OF CHILDREN CARED FOR BY REL-3	48	100.00	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCKIDS4	ED17-NUM OF CHILDREN CARED FOR BY REL-4	5	100.00	0.00
RCADLTS2	ED18-NUM OF ADULTS GIVING REL CARE-2.....	267	100.00	0.00
RCADLTS4	ED18-NUM OF ADULTS GIVING REL CARE-4.....	5	100.00	0.00
RCSTRTM3	ED19-AGE REL CARE BEGAN/MONTHS-3	48	100.00	0.00
RCSTRTM4	ED19-AGE REL CARE BEGAN/MONTHS-4	5	100.00	0.00
RCSTRTY3	ED19-AGE REL CARE BEGAN/YEARS-3	48	100.00	0.00
RCSTRTY4	ED19-AGE REL CARE BEGAN/YEARS-4	5	100.00	0.00
RCSPEAK2	ED20-LANGUAGE SPOKEN MOST BY REL-2	267	100.00	0.00
RCSPEAK3	ED20-LANGUAGE SPOKEN MOST BY REL-3	48	100.00	0.00
RCSPEAK4	ED20-LANGUAGE SPOKEN MOST BY REL-4	5	100.00	0.00
RCBELIE3	ED21-REL SIMILAR REARING BELIEFS-3.....	48	100.00	0.00
RCBELIE4	ED21-REL SIMILAR REARING BELIEFS-4.....	5	100.00	0.00
RCSICK3	ED22-REL RULES ABT CARE WHEN CHLD SICK-3.....	48	100.00	0.00
RCSICK4	ED22-REL RULES ABT CARE WHEN CHLD SICK-4.....	5	100.00	0.00
RCCANCE4	ED23-NUMBER OF DAYS REL CANCELS-4.....	5	100.00	0.00
RCFEE2	ED24-ANY FEE FOR REL CARE-2	267	100.00	0.00
RCFEE3	ED24-ANY FEE FOR REL CARE-3	48	100.00	0.00
RCFEE4	ED24-ANY FEE FOR REL CARE-4	5	100.00	0.00
RCREL2	ED25A- REL HELPS PAY FOR REL CARE-2.....	25	100.00	0.00
RCREL3	ED25A- REL HELPS PAY FOR REL CARE-3.....	4	100.00	0.00
RCWELF2	ED25B-WELFARE HELPS PAY FOR REL CARE-2.....	25	100.00	0.00
RCWELF3	ED25B-WELFARE HELPS PAY FOR REL CARE-3.....	4	100.00	0.00
RCEMPL2	ED25C-EMPL HELPS PAY FOR REL CARE-2.....	25	100.00	0.00
RCEMPL3	ED25C-EMPL HELPS PAY FOR REL CARE-3.....	4	100.00	0.00
RCOTHER2	ED25D-OTHER HELPS PAY FOR REL CARE-2.....	25	100.00	0.00
RCOTHER3	ED25D-OTHER HELPS PAY FOR REL CARE-3.....	4	100.00	0.00
RCCOST3	ED26-AMT HH PAYS FOR REL CARE-3	4	100.00	0.00
RCUNIT3	ED26-UNIT OF TIME/REL CARE COST-3	4	100.00	0.00
RCCSTHH3	ED27-AMOUNT FOR CHILD ONLY OR OTHERS-3.....	4	100.00	0.00
RCCSTHN2	ED270V-# OF CHILDREN AMOUNT IS FOR-2	6	100.00	0.00
RCCSTHN3	ED270V-# OF CHILDREN AMOUNT IS FOR-3	2	100.00	0.00
NCNOW	EE1-RECEIVES CARE FROM A NONRELATIVE	6,749	100.00	0.00
NCPLACE2	EE5-LOCATION OF NONRELATIVE CARE-2	69	100.00	0.00
NCPLACE3	EE5-LOCATION OF NONRELATIVE CARE-3	10	100.00	0.00
NCINHH1	EE6-NONREL CARE PROVIDER LIVES IN HH-1.....	229	100.00	0.00
NCINHH2	EE6-NONREL CARE PROVIDER LIVES IN HH-2.....	21	100.00	0.00
NCINHH3	EE6-NONREL CARE PROVIDER LIVES IN HH-3.....	5	100.00	0.00
NCHOMM2	EE7-MINUTES TO GO TO NONREL'S HOME-2	48	100.00	0.00
NCHOMM3	EE7-MINUTES TO GO TO NONREL'S HOME-3	5	100.00	0.00
NCWEEK2	EE8-NONREL CARE REG SCHED ONCE/WEEK-2	69	100.00	0.00
NCWEEK3	EE8-NONREL CARE REG SCHED ONCE/WEEK-3	10	100.00	0.00
NCMONTH3	EE9-NONREL CARE REG SCHED ONCE/MONTH-3	2	100.00	0.00
NCDAYS2	EE10-# DAYS/WK RECEIVES NONREL CARE-2	47	100.00	0.00
NCDAYS3	EE10-# DAYS/WK RECEIVES NONREL CARE-3	8	100.00	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCHRS2	EE11-# HRS/WK RECEIVES NONREL CARE-2	47	100.00	0.00
NCHRS3	EE11-# HRS/WK RECEIVES NONREL CARE-3	8	100.00	0.00
NCHRWK2	EE14-# OF HRS/WK RECEIVES NONREL CARE-2	9	100.00	0.00
NCKIDS2	EE16-# OF CHILDRN CARED FOR BY NONREL-2	56	100.00	0.00
NCKIDS3	EE16-# OF CHILDRN CARED FOR BY NONREL-3	8	100.00	0.00
NCADLTS2	EE17-NUM OF ADULTS GIVING NONREL CARE-2.....	56	100.00	0.00
NCADLTS3	EE17-NUM OF ADULTS GIVING NONREL CARE-3.....	8	100.00	0.00
NCSTRTM3	EE18-AGE NONREL CARE BEGAN/MONTHS-3	8	100.00	0.00
NCSTRTY3	EE18-AGE NONREL CARE BEGAN/YEARS-3.....	8	100.00	0.00
NCALKNE2	EE19-ALREADY KNEW CARE PROVIDER-2	56	100.00	0.00
NCALKNE3	EE19-ALREADY KNEW CARE PROVIDER-3	8	100.00	0.00
NCFRIEN2	EE20-LEARNED FROM FRIEND/NEIGHBOR-2.....	56	100.00	0.00
NCFRIEN3	EE20-LEARNED FROM FRIEND/NEIGHBOR-3.....	8	100.00	0.00
NCPLEMP2	EE20-LEARNED FROM PLACE OF EMPLOYMENT-2	56	100.00	0.00
NCPLEMP3	EE20-LEARNED FROM PLACE OF EMPLOYMENT-3	8	100.00	0.00
NCSCHO02	EE20-LEARNED FROM PUB/PRIVATE SCHOOL-2	56	100.00	0.00
NCSCHO03	EE20-LEARNED FROM PUB/PRIVATE SCHOOL-3	8	100.00	0.00
NCCHURC2	EE20-LEARNED FROM CHURCH/SYNAGOGUE-2	56	100.00	0.00
NCCHURC3	EE20-LEARNED FROM CHURCH/SYNAGOGUE-3	8	100.00	0.00
NCSOCWK2	EE20-LEARNED FROM SOCIAL WORKER-2	56	100.00	0.00
NCSOCWK3	EE20-LEARNED FROM SOCIAL WORKER-3	8	100.00	0.00
NCADS2	EE20-LEARNED FROM NEWSPAPER ADS-2	56	100.00	0.00
NCADS3	EE20-LEARNED FROM NEWSPAPER ADS-3	8	100.00	0.00
NCAGENC2	EE20-LEARNED FROM R & R AGENCY-2.....	56	100.00	0.00
NCAGENC3	EE20-LEARNED FROM R & R AGENCY-3.....	8	100.00	0.00
NCCARE2	EE20-LEARNED FROM CHLD CARE AGNCY-2	56	100.00	0.00
NCCARE3	EE20-LEARNED FROM CHLD CARE AGNCY-3	8	100.00	0.00
NCKNEW2	EE20-ALREADY KNEW PROVIDER-2.....	56	100.00	0.00
NCKNEW3	EE20-ALREADY KNEW PROVIDER-3.....	8	100.00	0.00
NCCHILD2	EE20-PROVIDER CARED FOR OTHER CHILD-2	56	100.00	0.00
NCCHILD3	EE20-PROVIDER CARED FOR OTHER CHILD-3	8	100.00	0.00
NCREFER2	EE20-LEARNED FROM REFERENCE MATERIAL-2	56	100.00	0.00
NCREFER3	EE20-LEARNED FROM REFERENCE MATERIAL-3	8	100.00	0.00
NCBULLE2	EE20-LEARNED FROM BULLETIN BRD/FLYER-2	56	100.00	0.00
NCBULLE3	EE20-LEARNED FROM BULLETIN BRD/FLYER-3	8	100.00	0.00
NCINTR2	EE20-LEARNED FROM INTERNET-2	56	100.00	0.00
NCINTR3	EE20-LEARNED FROM INTERNET-3	8	100.00	0.00
NCSOURC2	EE20-LEARNED FROM OTHER SOURCE-2.....	56	100.00	0.00
NCSOURC3	EE20-LEARNED FROM OTHER SOURCE-3.....	8	100.00	0.00
NCRACE2	EE21-CARE PRVDER SAME RACE/BACKGD-2.....	56	100.00	0.00
NCRACE3	EE21-CARE PRVDER SAME RACE/BACKGD-3.....	8	100.00	0.00
NCAGE2	EE22-CARE PROVIDER OVER 18 YRS OLD-2	56	100.00	0.00
NCAGE3	EE22-CARE PROVIDER OVER 18 YRS OLD-3	8	100.00	0.00
NCAGEYY1	EE23-AGE OF CARE PROVIDER-1.....	9	100.00	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCAGEYY2	EE23-AGE OF CARE PROVIDER-2.....	4	100.00	0.00
NCAGEYY3	EE23-AGE OF CARE PROVIDER-3.....	1	100.00	0.00
NCSPEAK2	EE24-LANGUAGE SPOKEN MOST BY NONREL-2	56	100.00	0.00
NCSPEAK3	EE24-LANGUAGE SPOKEN MOST BY NONREL-3	8	100.00	0.00
NCBELIE2	EE25-NONREL SIMILAR REARING BELIEFS-2.....	56	100.00	0.00
NCBELIE3	EE25-NONREL SIMILAR REARING BELIEFS-3.....	8	100.00	0.00
NCSICK3	EE26-NONREL RULES CARE WHEN CHLD SICK-3	8	100.00	0.00
NCCANCE3	EE27-NUMBER OF DAYS NONREL CANCELS-3	8	100.00	0.00
NCFEE2	EE28-ANY FEE FOR NONRELATIVE CARE-2	56	100.00	0.00
NCFEE3	EE28-ANY FEE FOR NONRELATIVE CARE-3	8	100.00	0.00
NCREL2	EE29A-REL HELPS PAY FOR NONREL CARE-2.....	39	100.00	0.00
NCREL3	EE29A-REL HELPS PAY FOR NONREL CARE-3.....	8	100.00	0.00
NCWELF2	EE29B-WELFARE HELPS PAY NONREL CARE-2	39	100.00	0.00
NCWELF3	EE29B-WELFARE HELPS PAY NONREL CARE-3	8	100.00	0.00
NCEMPL2	EE29C-EMPL HELPS PAY FOR NONREL CARE-2.....	39	100.00	0.00
NCEMPL3	EE29C-EMPL HELPS PAY FOR NONREL CARE-3.....	8	100.00	0.00
NCOTHER2	EE29D-OTHER HELPS PAY NONREL CARE-2.....	39	100.00	0.00
NCOTHER3	EE29D-OTHER HELPS PAY NONREL CARE-3.....	8	100.00	0.00
CPPLACE3	EG5-LOCATION OF CENTER-BASED PROGRAM-3	2	100.00	0.00
CPRELG3	EG6-PROGRAM AFFL W/FAMILY'S RELIGION-3	2	100.00	0.00
CPWORK3	EG7-PROGRAM LOCATED PARENT WORKPLACE-3.....	2	100.00	0.00
CPHOMM3	EG8-MINUTES FROM HOME TO PROGRAM-3	2	100.00	0.00
CPWEEK3	EG9-PROGRAM REG SCHED ONCE/WEEK-3	2	100.00	0.00
CPMONTH1	EG10-PROGRAM REG SCHED ONCE/MONTH-1	14	100.00	0.00
CPMONTH2	EG10-PROGRAM REG SCHED ONCE/MONTH-2	9	100.00	0.00
CPDAYS3	EG11-# OF DAYS/WK ATTENDS PROGRAM-3.....	2	100.00	0.00
CPHRS3	EG12-# OF HRS/WK ATTENDS PROGRAM-3.....	2	100.00	0.00
CPWKMO2	EG13-# OF WKS/MO IN PROGRAM-2.....	3	100.00	0.00
CPDAYWK2	EG14-# OF DAYS/WK IN PROGRAM-2	3	100.00	0.00
CPHRWK2	EG15-# OF HRS/WEEK IN PROGRAM-2.....	3	100.00	0.00
CPKIDS3	EG17-# OF CHILDREN IN GROUP-3	2	100.00	0.00
CPADLTS3	EG18-NUM OF ADULTS IN GROUP-3	2	100.00	0.00
CPSTRTM3	EG19-AGE CURRENT PRGM BEGAN/MONTHS-3	2	100.00	0.00
CPSTRTY3	EG19-AGE CURRENT PRGM BEGAN/YEARS-3	2	100.00	0.00
CPFRIEN3	EG20-LEARN FROM FRIEND/NEIGHBOR-3	2	100.00	0.00
CPPLEMP3	EG20-LEARNED FROM PLACE OF EMPLOYMENT-3	2	100.00	0.00
CPSCHOO3	EG20-LEARNED FROM PUB/PRIVATE SCHOOL-3.....	2	100.00	0.00
CPCHURC3	EG20-LEARNED FROM CHURCH/SYNAGOGUE-3.....	2	100.00	0.00
CPSOCWK3	EG20-LEARNED FROM SOCIAL WORKER-3.....	2	100.00	0.00
CPADS3	EG20-LEARNED FROM NEWSPAPER ADS-3.....	2	100.00	0.00
CPAGENC3	EG20-LEARNED FROM R & R AGENCY-3	2	100.00	0.00
CPCARE3	EG20-LEARNED FROM CHLD CARE AGNCY-3.....	2	100.00	0.00
CPKNEW3	EG20-ALREADY KNEW PROVIDER-3	2	100.00	0.00
CPCHILD3	EG20-PROVIDER CARED FOR OTHER CHILD-3.....	2	100.00	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPREFER3	EG20-LEARNED FROM REFERENCE MATERIALS-3	2	100.00	0.00
CPBULLE3	EG20-LEARNED FROM BULLETIN BRD/FLYER-3	2	100.00	0.00
CPINTER3	EG20-LEARNED FROM INTERNET-3	2	100.00	0.00
CPSOURC3	EG20-LEARNED FROM OTHER SOURCE-3	2	100.00	0.00
CPRACE3	EG21-CARE PROVIDER SAME RACE/BACKGD-3	2	100.00	0.00
CPSPEAK3	EG22-LANG PROVIDER SPEAKS MOST W/CHILD-3	2	100.00	0.00
CPPARHR3	EG24-PGM ENCOURAGE PARENTS VOLUNTEER-3	2	100.00	0.00
CPPARWR3	EG25-VOLUNTEER CHILD'S PGM LST MNTH-3	2	100.00	0.00
CPTEST3	EG26A-PGM PRVDS HEAR/SPEECH/VISN TEST-3	2	100.00	0.00
CPPHYSE3	EG26B-PGM PRVDS PHYSICAL EXAMINATIONS-3	2	100.00	0.00
CPDISAB3	EG26D-PGM PRVDS TEST FOR DEVT PROBLEM-3	2	100.00	0.00
CPSICK3	EG26E-PGM PROVIDES SICK CHILD CARE-3	2	100.00	0.00
CPTEACH3	EG27-NUM OF TIMES TEACHER CHANGED-3	2	100.00	0.00
CPFEE3	EG28-ANY FEE FOR PROGRAM-3	2	100.00	0.00
CPREL3	EG29A-REL HELPS PAY FOR PROGRAM-3	1	100.00	0.00
CPWELF3	EG29B-WELFARE HELPS PAY FOR PROGRAM-3	1	100.00	0.00
CPEMPL3	EG29C-EMPL HELPS PAY FOR PROGRAM-3	1	100.00	0.00
CPOTHER3	EG29D-OTHER HELPS PAYS FOR PROGRAM-3	1	100.00	0.00
CPCOST3	EG30-AMOUNT HH PAYS FOR PROGRAM-3	1	100.00	0.00
CPUNIT3	EG30-UNIT OF TIME/PROGRAM COST-3	1	100.00	0.00
CPCSTHH3	EG31-AMOUNT FOR CHILD ONLY OR OTHERS-3	1	100.00	0.00
CPCSTHN2	EG31OV-# OF CHILDREN AMOUNT IS FOR-2	6	100.00	0.00
PCHD2	EH3-REG ARRANGEMENT IS HEAD START	117	100.00	0.00
PCHDTYP2	EH3-ARRANGEMENT IS HEAD START-2	92	100.00	0.00
PCHD3	EH3-REG ARRANGEMENT IS HEAD START	20	100.00	0.00
PCHDTYP3	EH3-ARRANGEMENT IS HEAD START-3	12	100.00	0.00
PCHD4	EH3-REG ARRANGEMENT IS HEAD START	6	100.00	0.00
PCHDTYP4	EH3-ARRANGEMENT IS HEAD START-4	6	100.00	0.00
PCWHO1	EH8-WHO PROVIDED CARE OR PROGRAM-1	197	100.00	0.00
PCWHO2	EH8-WHO PROVIDED CARE OR PROGRAM-2	11	100.00	0.00
PCPLACE2	EH9-CARE TOOK PLACE IN OWN/OTHER HOME-2	6	100.00	0.00
PCSTRTY2	EH10-YEAR PREVIOUS ARRANGEMENT BEGAN-2	11	100.00	0.00
SEX	SEX	6,749	99.99	100.00
RESPSEX	PARENT RESPONDENT'S SEX	6,749	99.99	100.00
DPCOLOR	EL1-CHILD CAN IDENTIFY COLORS	4,421	99.98	0.00
RELATN1	O/HH MEM - #1'S RELATION TO CHILD	5,244	99.98	100.00
RCNOW	ED1-RECEIVES CARE FROM A RELATIVE	6,749	99.97	0.00
CPNNOW	EG1-CHILD ATTENDS CTR BSD PROGRAM	6,749	99.97	0.00
RESRELN	PARENT R'S RELATIONSHIP TO CHILD	6,749	99.97	100.00
HNDWCWHN	PT2-LAST TIME CHILD SAW DOCTOR	6,749	99.96	0.00
CSPEAK	PA6-LANG CHILD SPEAKS MOST AT HOME	4,421	99.95	100.00
FOREADTO	EK1-NUM TIMES READ TO CHILD IN PAST WEEK	6,749	99.94	0.00
FOLIBRAY	EK4-VISITED LIBRARY W/CHILD IN PST MONTH	3,150	99.94	0.00
HDBLNDIM	PT5F_PT7B-BLINDNESS/VISUAL PROBLEM	6,749	99.94	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
HASTORY	EL5-CHILD CAN READ STORY BOOKS	4,421	99.93	0.00
NCPLACE1	EE5-LOCATION OF NONRELATIVE CARE-1	1,116	99.91	0.00
SEX3	O/HH MEM - #3'S SEX	1,114	99.91	100.00
SFATTGRP	EJ1A-ATTENDED SUPPORT GROUP FOR PARENTS	6,749	99.90	0.00
HAPRETND	EL7-CHILD LOOKS AT BOOK/PRETENDS READ	4,185	99.90	0.00
HDDEVEL	PT7D-CHILD HAS SEVERE DEVELOPMENT DELAY	3,599	99.89	0.00
SFATTCLS	EJ1B-ATTENDED PARENTING CLASS	6,749	99.88	0.00
RCPLACE1	ED6-LOCATION OF RELATIVE CARE-1	1,566	99.87	0.00
FOWORDS	EK3B-TAUGHT LTRS/WRDS/NMBRS IN PAST WEEK	3,150	99.87	0.00
FOCRAFTS	EK3D-DID ARTS/CRAFTS IN PAST WEEK	3,150	99.87	0.00
HDOTHER	PT5H_PT7E-HAS OTHR HLTH PROB 6 MOS/ MORE	6,749	99.87	0.00
DADTYPE	SPECIFIC RELATIONSHIP OF FATHER TO CHILD	5,431	99.87	100.00
MOMTYPE	SPECIFIC RELATIONSHIP OF MOTHER TO CHILD	6,540	99.86	100.00
HDDEAFIM	PT5E_PT7A-DEAFNESS/HEARING PROBLEM	6,749	99.85	0.00
HDORTHO	PT5G_PT7C-ORTHOPEDIC IMPAIRMENT	6,749	99.85	0.00
RELATN2	O/HH MEM - #2'S RELATION TO CHILD	2,642	99.85	100.00
DPCOUNT	EL3-HOW HIGH CHILD CAN COUNT	4,421	99.84	0.00
HDDELAY	PT1-CHILD DEVELOPMENTALLY DELAYED	6,749	99.84	0.00
PCEVRHD	EH4-CHILD EVER ATTENDED HEAD START	6,398	99.83	0.00
FOWORDSN	EK3B-TIMES TAUGHT LTRS/WRDS/NMBRS PST WK	2,970	99.83	0.00
DPLETTER	EL2-CHILD RECOGNIZES LETTERS	4,421	99.82	0.00
RELATN3	O/HH MEM - #3'S RELATION TO CHILD	1,114	99.82	100.00
HNDNTIST	PT3-CHILD HAS SEEN DENTIST	3,150	99.81	0.00
HDRETARD	PT5B-CHILD HAS MENTAL RETARDATION	3,150	99.81	0.00
RCKIDS1	ED17-NUM OF CHILDREN CARED FOR BY REL-1	1,518	99.80	0.00
RELATN4	O/HH MEM - #4'S RELATION TO CHILD	472	99.79	100.00
HDDISTRB	PT5D-CHILD HAS EMOTIONAL DISTURBANCE	3,150	99.78	0.00
FOCRAFTN	EK3D-NUM TIMES DID ARTS/CRAFTS IN PST WK	2,500	99.76	0.00
DPNAME	EL4-CHILD CAN WRITE FIRST NAME	4,421	99.75	0.00
AGE1	O/HH MEM - #1'S AGE	5,244	99.75	100.00
RCSPEAK1	ED20-LANGUAGE SPOKEN MOST BY REL-1	1,518	99.74	0.00
CPNEVER	EG2-CHILD EVER GONE CTR BSD PROGRAM	4,210	99.74	0.00
RCTYPE1	ED5-RELATIVE WHO CARES FOR CHILD-1	1,566	99.74	25.00
CPWEEK1	EG9-PROGRAM REG SCHED ONCE/WEEK-1	2,539	99.72	0.00
PPNOWORK	EI4-PARENT DOESN'T WORK/SCHEDULE	1,423	99.72	0.00
PPWORKHO	EI4-PARENT WORKS/STUDIES AT HOME	1,423	99.72	0.00
PCHD1	EH3-REG ARRANGEMENT IS HEAD START	351	99.72	100.00
HDSPEECH	PT5C-CHILD HAS SPEECH IMPAIRMENT	3,150	99.71	0.00
HDAUTISM	PT6A-CHILD HAS AUTISM	3,150	99.71	0.00
DADAGE	FATHER'S AGE	5,431	99.71	100.00
RCTYPE2	ED5-RELATIVE WHO CARES FOR CHILD-2	314	99.68	0.00
RCPLACE2	ED6-LOCATION OF RELATIVE CARE-2	314	99.68	0.00
RCWEEK1	ED9-REL CARE REG SCHED ONCE/WEEK-1	1,566	99.68	0.00
RCWEEK2	ED9-REL CARE REG SCHED ONCE/WEEK-2	314	99.68	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
FOMUSIC	EK3C-TAUGHT CHILD SONGS/MUSIC PAST WEEK	3,150	99.68	0.00
RCADLTS1	ED18-NUM OF ADULTS GIVING REL CARE-1	1,518	99.67	0.00
PPDAYCAR	EI4-PARENT IS HOME DAY CARE PROVIDER	1,423	99.65	0.00
PPSPECL	EI4-CHILD HAS SPECIAL NEEDS	1,423	99.65	0.00
PPDEPEND	EI4-PARENT CARES FOR OTHER DEPENDENTS	1,423	99.65	0.00
PPBARR	EI4-COST/AVAILABILTY/TRANSPORTATION	1,423	99.65	0.00
PPHMWRK	EI4-HELP W/ CHILD'S EDUCATION/HOMEWORK	1,423	99.65	0.00
PPSTHM	EI4-PARENT PREFERS TO STAY HOME	1,423	99.65	0.00
PPBEST	EI4-PARENT CARE BEST FOR CHILD	1,423	99.65	0.00
PPRESPON	EI4-PARENTS ARE RESPONSIBLE FOR CARE.....	1,423	99.65	0.00
PPRELIG	EI4-RELIGIOUS REASONS.....	1,423	99.65	0.00
PPOTHER	EI4-OTHER REASON PARENT CARES FOR CHILD.....	1,423	99.65	0.00
PPKNEW	EI5K-CAREGIVER ALREADY KNEW	1,116	99.64	0.00
CPNAGEYR	EG3-AGE CHILD 1 ST ATTENDED PGM/YEARS	3,010	99.63	0.00
RESPAGE	PARENT RESPONDENT'S AGE.....	6,749	99.63	100.00
FOMUSICN	EK3C-NUM TIMES TAUGHT SONGS/MUSIC PST WK	2,555	99.61	0.00
MOMSPEAK	PU5-LANGUAGE SPOKEN MOST AT HOME BY MOM.....	6,633	99.61	100.00
HNDNTWHN	PT4-LAST TIME CHILD SAW DENTIST.....	2,012	99.60	0.00
CHISPAN	PA4-CHILD IS OF HISPANIC ORIGIN	6,749	99.60	100.00
RCEVER	ED2-EVER RECEIVED CARE FROM A RELATIVE	5,183	99.59	0.00
NCEVER	EE2-EVER RECEIVED CARE FROM A NONREL.....	5,633	99.59	0.00
HOTHNUM	PW2-OTHER PHONE NUMBERS/HOME USE.....	6,749	99.59	0.00
MOMAGE	MOTHER'S AGE	6,540	99.59	100.00
PCHDTYP1	EH3-ARRANGEMENT IS HEAD START-1	243	99.59	100.00
MOMBORN	PU6-COUNTRY MOM WAS BORN IN	6,633	99.58	100.00
NCALKNE1	EE19-ALREADY KNEW CARE PROVIDER-1	1,103	99.55	0.00
MOMWORK	PU9-MOM WORKED FOR PAY LAST WEEK	6,633	99.55	0.00
DADPART	PV2-FATHER'S PARTNER LIKE PARENT TO CHLD.....	446	99.55	100.00
PCANYHD	EH2-ANY ARRANGEMENTS ARE HEAD START	4,296	99.53	0.00
AGE5	O/HH MEM - #5'S AGE	203	99.51	100.00
HFOODST	PW16B-FAMILY RECD FOOD STMP PST 12 MONTH.....	6,749	99.50	0.00
MOMDIPL	PU8-MOM HAS HS DIPLOMA OR GED.....	2,972	99.50	100.00
CPPLACE1	EG5-LOCATION OF CENTER-BASED PROGRAM-1	2,539	99.49	0.00
PCNUM	EH7-NUMBER OF ARRANGEMENTS SINCE SEPT	197	99.49	0.00
DADSPEAK	PV4-LANGUAGE SPOKEN MOST AT HOME BY DAD.....	5,444	99.49	100.00
MOMLANG	PU4-FIRST LANGUAGE SPOKEN BY MOM.....	6,633	99.49	100.00
HDDOCTOR	PT8C-RECEIVES SERVICES FROM DR/CLINIC	576	99.48	0.00
RCINHH1	ED7-REL CARE PROVIDER LIVES IN HH-1	581	99.48	33.33
HOWNHOM	PW1-OWN HOME, RENT, OR OTHER ARRNGMNT.....	6,749	99.47	0.00
MOMSTAT	PU1-MOTHER'S MARITAL STATUS	6,633	99.47	100.00
RCDAYS1	ED11-# OF DAYS/WK RECEIVES REL CARE-1	1,475	99.46	0.00
NCWEEK1	EE8-NONREL CARE REG SCHED ONCE/WEEK-1	1,116	99.46	0.00
NCAGE1	EE22-CARE PROVIDER OVER 18 YRS OLD-1	1,103	99.46	0.00
NCSPEAK1	EE24-LANGUAGE SPOKEN MOST BY NONREL-1	1,103	99.46	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
HDLEARN	PT5A-CHILD HAS LEARNING DISABILITY	3,150	99.46	0.00
MOMENROL	PU16-MOM ENROLLED IN SCHOOL	6,633	99.46	0.00
DADACTY	PV14-DAD'S ACTIVITY MOST OF LAST WEEK	185	99.46	0.00
CPSTRTY1	EG19-AGE CURRENT PRGM BEGAN/YEARS-1	2,532	99.45	0.00
PPHEALTH	EI1C-HEALTHY PLACE FOR CHILD	4,353	99.45	0.00
PPSAFE	EI1E-CHILD IS SAFE WITH THE CAREGIVER	4,353	99.45	0.00
HWIC	PW16A-FAMILY RECD WIC PAST 12 MONTHS	6,749	99.44	0.00
MOMLEAVE	PU10-MOM ON LEAVE OR VACATION LAST WEEK	2,827	99.43	0.00
DADBORN	PV5-COUNTRY DAD WAS BORN IN.....	5,444	99.43	100.00
CRACE	PA3-CHILD'S RACE.....	6,749	99.42	100.00
CDOBMM	PA1-MONTH OF BIRTH.....	6,749	99.41	0.00
DADLEAVE	PV9-DAD ON LEAVE OR VACATION LAST WEEK.....	341	99.41	0.00
DADSTAT	PV1-FATHER'S MARITAL STATUS	5,444	99.41	100.00
DADLANG	PV3-FIRST LANGUAGE SPOKEN BY DAD	5,444	99.41	100.00
MOMACTY	PU15-MOM'S ACTIVITY MOST OF LAST WEEK.....	2,350	99.40	0.00
MOMLOOK	PU13-MOM LOOKING FOR WORK PAST 4 WEEKS	2,633	99.39	0.00
HGOVCUR	PW15-FAMLY CUR RECVS MONEY FOR CH CARE	6,427	99.39	0.00
PPLIKE	EI1K-CHILD LIKES THE CAREGIVER	4,353	99.38	0.00
DADWORK	PV8-DAD WORKED FOR PAY LAST WEEK	5,444	99.38	0.00
FORDDAY	EK2 MINS READ TO CHILD IN PAST WEEK	6,347	99.34	0.00
CPDAYS1	EG11-# OF DAYS/WK ATTENDS PROGRAM-1.....	2,525	99.33	0.00
CPSPEAK1	EG22-LANG PROVIDER SPEAKS MOST W/CHILD-1	2,532	99.33	0.00
CPPARWR1	EG25-VOLUNTEER CHILD'S PGM LST MNTH-1	2,532	99.33	0.00
PPSECUR	EI1A-CHILD FEELS SAFE AND SECURE IN CARE.....	4,353	99.33	0.00
HNUMUSE	PW4-# OF OTHER PHONE NUMBERS/HOME USE.....	1,048	99.33	0.00
NCHOMM1	EE7-MINUTES TO GO TO NONREL'S HOME-1	887	99.32	0.00
HDSCHL	PT8A-RECEIVES SERVICES FROM SCHL DIST	576	99.31	0.00
HDSOURCE	PT8D-RECEIVES OTHER SERVICES	576	99.31	0.00
NCREL1	EE29A-REL HELPS PAY FOR NONREL CARE-1.....	993	99.30	0.00
NCEMPL1	EE29C-EMPL HELPS PAY FOR NONREL CARE-1.....	993	99.30	0.00
NCOTHER1	EE29D-OTHER HELPS PAY NONREL CARE-1.....	993	99.30	0.00
RCREL1	ED25A- REL HELPS PAY FOR REL CARE-1.....	423	99.29	0.00
RCWELF1	ED25B-WELFARE HELPS PAY FOR REL CARE-1.....	423	99.29	0.00
RCOTHER1	ED25D-OTHER HELPS PAY FOR REL CARE-1	423	99.29	0.00
PPSHARE	EI1G-CAREGIVER SHARES INFORMATION	4,353	99.29	0.00
PPINTRST	EI1N-IT'S AN INTERESTING PLACE FOR CHILD.....	4,353	99.29	0.00
RCBELIE1	ED21-REL SIMILAR REARING BELIEFS-1	1,518	99.28	0.00
NCFRIEN1	EE20-LEARNED FROM FRIEND/NEIGHBOR-1.....	1,103	99.27	0.00
NCPLEMP1	EE20-LEARNED FROM PLACE OF EMPLOYMENT-1	1,103	99.27	0.00
NCSCHOO1	EE20-LEARNED FROM PUB/PRIVATE SCHOOL-1	1,103	99.27	0.00
NCCHURC1	EE20-LEARNED FROM CHURCH/SYNAGOGUE-1	1,103	99.27	0.00
NCSOCWK1	EE20-LEARNED FROM SOCIAL WORKER-1	1,103	99.27	0.00
NCADS1	EE20-LEARNED FROM NEWSPAPER ADS-1	1,103	99.27	0.00
NCAGENC1	EE20-LEARNED FROM R & R AGENCY-1.....	1,103	99.27	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCCARE1	EE20-LEARNED FROM CHLD CARE AGENCY-1	1,103	99.27	0.00
NCKNEW1	EE20-ALREADY KNEW PROVIDER-1.....	1,103	99.27	0.00
NCCHILD1	EE20-PROVIDER CARED FOR OTHER CHILD-1	1,103	99.27	0.00
NCREFER1	EE20-LEARNED FROM REFERENCE MATERIAL-1	1,103	99.27	0.00
NCBULLE1	EE20-LEARNED FROM BULLETIN BRD/FLYER-1	1,103	99.27	0.00
NCINTR1	EE20-LEARNED FROM INTERNET-1	1,103	99.27	0.00
NCSOURC1	EE20-LEARNED FROM OTHER SOURCE-1.....	1,103	99.27	0.00
MOMCHOIC	PU18-CHLD CARE AFFECTED MOM'S JOB CHOICE.....	3,980	99.27	0.00
PPWARM	EI1B-CAREGIVER IS WARM/AFFECTIONATE	4,353	99.26	0.00
RCKIDS2	ED17-NUM OF CHILDREN CARED FOR BY REL-2	267	99.25	0.00
RCBELIE2	ED21-REL SIMILAR REARING BELIEFS-2.....	267	99.25	0.00
RCSICK2	ED22-REL RULES ABT CARE WHEN CHLD SICK-2.....	267	99.25	0.00
PPRELG	EI5L-AFFILIATED WITH FAMILY RELIGION	2,539	99.25	0.00
DADENROL	PV15-DAD ENROLLED IN SCHOOL.....	5,444	99.25	0.00
AGE2	O/HH MEM - #2'S AGE	2,642	99.24	100.00
COTHRACE	PA3OV-CHILD IS HISP/MIXED RACE.....	1,188	99.24	100.00
PPSAFETY	EI4-CHILD'S SAFETY/SECURITY	1,423	99.23	0.00
PPWANT	EI4-PARENT WANTS TO BE WITH CHILD	1,423	99.23	0.00
FOSTORY	EK3A-TOLD CHILD STORY IN PAST WEEK	3,150	99.21	0.00
PPRESPCT	EI1D-CHILD TREATED WITH RESPECT	4,353	99.20	0.00
PPCLHM	EI5B-PLACE CLOSE TO HOME.....	5,345	99.20	0.00
NCWELF1	EE29B-WELFARE HELPS PAY NONREL CARE-1	993	99.19	0.00
PPENGL	EI5E-CAREGIVER WHO SPEAKS ENGLISH	5,345	99.18	0.00
NCDAYS1	EE10-# DAYS/WK RECEIVES NONREL CARE-1	1,079	99.17	0.00
PPHAPSEE	EI1O-CAREGIVER IS HAPPY TO SEE CHILD	4,353	99.17	0.00
PPBELIEF	EI5G-SHARE CHILDREARING BELIEFS	5,345	99.16	0.00
PPKNOW	EI1I-CAREGIVER KNOWS A LOT ABOUT CHILDREN	4,353	99.15	0.00
DADPUBL	PV13-DAD CHECKED PUBLIC EMPLOY AGENCY	118	99.15	0.00
DADPRIV	PV13-DAD CHECKED PRIVATE EMPLOY AGENCY.....	118	99.15	0.00
DADEMP	PV13-DAD CHECKED W/EMPLOYER DIRECTLY	118	99.15	0.00
DADREL	PV13-DAD CHECKED W/FRIENDS/RELATIVES	118	99.15	0.00
DADANSAD	PV13-DAD PLACE/ANSWER ADS/SENT RESUME	118	99.15	0.00
DADREAD	PV13-DAD READ WANT ADS	118	99.15	0.00
DADOTHER	PV13-DAD DID SOMETHING ELSE TO FIND WORK	118	99.15	0.00
RCSICK1	ED22-REL RULES ABT CARE WHEN CHLD SICK-1.....	1,518	99.14	0.00
RCFEE1	ED24-ANY FEE FOR REL CARE-1	1,518	99.14	0.00
HAFDC3YR	PW10-FAMILY RECD WELFARE IN PAST 3 YRS.....	6,749	99.14	0.00
CPNAGEMO	EG3-AGE CHILD 1 ST ATTENDED PGM/MONTHS	3,010	99.14	15.38
PPDIFCLT	EI2-DIFFICULTY FINDING CHILD CARE.....	4,353	99.10	0.00
HMEDIC	PW16C-FAMILY RECD MEDICAID PAST 12 MONTH	6,749	99.10	0.00
MOMMTHS	PU12-MONTHS MOM WORKED IN PAST YEAR.....	6,633	99.10	5.00
NCSTRTY1	EE18-AGE NONREL CARE BEGAN/YEARS-1.....	1,103	99.09	0.00
NCFEE1	EE28-ANY FEE FOR NONRELATIVE CARE-1	1,103	99.09	0.00
RCHOMM2	ED8-MINUTES TO GO TO RELATIVE'S HOME-2	218	99.08	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
MOMNEW	PU3-MOM'S AGE WHEN FIRST BECAME A MOTHER	6,633	99.08	18.03
PPFLEX	EI5F-CAREGIVER PROVIDES FLEXIBLE HOURS	5,345	99.06	0.00
DADBIDAD	PV26-BIOLOGICAL DAD PROVIDES CARE.....	1,486	99.06	0.00
RCEMPL1	ED25C-EMPL HELPS PAY FOR REL CARE-1	423	99.05	0.00
PPKIDS	EI5D-SMALL NUMBER OF CHILDREN IN GROUP.....	5,345	99.05	0.00
PPRACE	EI5H-CAREGIVER OF SAME RACE/ETHNIC GROUP	5,345	99.05	0.00
MOMGRADE	PU7-HIGHEST GRADE/YR MOM COMPLETED	6,633	99.05	100.00
FOSTORYN	EK3A-NUM TIMES TOLD CHILD STORY/WEEK.....	2,614	99.04	0.00
RCAGEYR	ED3-AGE 1 ST RECEIVED REL CARE/YEARS	2,268	99.03	0.00
DADCHOIC	PV17-CHLD CARE AFFECTED DAD'S JOB CHOICE	5,155	99.03	0.00
DADLIVW	PV10V-DAD CURRENTLY LIVING WITH PARTNER	516	99.03	100.00
CPHRS1	EG12-# OF HRS/WK ATTENDS PROGRAM-1.....	2,525	99.01	0.00
RCHOMM1	ED8-MINUTES TO GO TO RELATIVE'S HOME-1	985	98.98	0.00
PCREASN1	EH11-REASON PREVIOUS ARRANGEMENT ENDED-1.....	197	98.98	0.00
PPSICK	EI5A-PLACE CHILDREN CARE FOR WHEN SICK	5,345	98.97	0.00
CPREL1	EG29A-REL HELPS PAY FOR PROGRAM-1	2,012	98.96	0.00
CPOTHER1	EG29D-OTHER HELPS PAYS FOR PROGRAM-1	2,012	98.96	0.00
CPWELF1	EG29B-WELFARE HELPS PAY FOR PROGRAM-1	2,012	98.96	4.76
RCSTRTY1	ED19-AGE REL CARE BEGAN/YEARS-1	1,518	98.95	6.25
NCAGEMO	EE3-AGE 1 ST RECEIVED NONREL CARE/MNS	1,882	98.94	5.00
AGE4	O/HH MEM - #4'S AGE	472	98.94	100.00
PPCOST	EI5C-A REASONABLE COST.....	5,345	98.93	0.00
RCMONTH1	ED10-REL CARE REG SCHED ONCE/MONTH-1	91	98.90	0.00
NCHRS1	EE11-# HRS/WK RECEIVES NONREL CARE-1	1,079	98.89	0.00
CPLEMP1	EG20-LEARNED FROM PLACE OF EMPLOYMENT-1	2,532	98.89	0.00
CPFEE1	EG28-ANY FEE FOR PROGRAM-1	2,532	98.89	0.00
RCCANCE2	ED23-NUMBER OF DAYS REL CANCELS-2.....	267	98.88	0.00
DADMTHS	PV11-MONTHS DAD WORKED IN PAST YEAR	5,444	98.88	0.00
CPPLACE2	EG5-LOCATION OF CENTER-BASED PROGRAM-2	88	98.86	0.00
CPFRIEN1	EG20-LEARN FROM FRIEND/NEIGHBOR-1	2,532	98.85	0.00
CPSCHOO1	EG20-LEARNED FROM PUB/PRIVATE SCHOOL-1	2,532	98.85	0.00
CPCHURC1	EG20-LEARNED FROM CHURCH/SYNAGOGUE-1	2,532	98.85	0.00
CPSOCWK1	EG20-LEARNED FROM SOCIAL WORKER-1.....	2,532	98.85	0.00
CPADS1	EG20-LEARNED FROM NEWSPAPER ADS-1.....	2,532	98.85	0.00
CPAGENC1	EG20-LEARNED FROM R & R AGENCY-1	2,532	98.85	0.00
CPKNEW1	EG20-ALREADY KNEW PROVIDER-1	2,532	98.85	0.00
CPCHILD1	EG20-PROVIDER CARE FOR OTHER CHILD-1.....	2,532	98.85	0.00
CPREFER1	EG20-LEARNED FROM REFERENCE MATERIALS-1	2,532	98.85	0.00
CPBULLE1	EG20-LEARNED FROM BULLETIN BRD/FLYER-1	2,532	98.85	0.00
CPSOURC1	EG20-LEARNED FROM OTHER SOURCE-1	2,532	98.85	0.00
DADLOOK	PV12-DAD LOOKING FOR WORK PAST 4 WEEKS.....	261	98.85	0.00
HDADD	PT6B-CHILD HAS ADD OR ADHD	3,150	98.83	0.00
AGE3	O/HH MEM - #3'S AGE	1,114	98.83	100.00
NCADLTS1	EE17-NUM OF ADULTS GIVING NONREL CARE-1.....	1,103	98.82	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPCARE1	EG20-LEARNED FROM CHLD CARE AGENCY-1	2,532	98.82	0.00
CPINTER1	EG20-LEARNED FROM INTERNET-1	2,532	98.82	0.00
CPHOMM1	EG8-MINUTES FROM HOME TO PROGRAM-1	2,526	98.81	0.00
CPEMPL1	EG29C-EMPL HELPS PAY FOR PROGRAM-1	2,012	98.81	0.00
FAMTCREM	PU24-R HEARD OF CHILD CARE TAX CREDIT	6,633	98.81	0.00
HCHIP	PW16D-FAMILY RECD CHIP PAST 12 MONTHS	6,749	98.80	0.00
MOMPART	PU2-MOTHER'S PARTNER LIKE PARENT TO CHLD.....	501	98.80	100.00
MOMLIVW	PU10V-MOM CURRENTLY LIVING WITH PARTNER	985	98.78	100.00
CPWORK1	EG7-PROGRAM LOCATED PARENT WORKPLACE-1	2,427	98.76	0.00
PPSUPP	EI1L-CAREGIVER SUPPORTIVE OF ME/PARENT	4,353	98.74	0.00
HAWORDS	EL6-CHILD READS WORDS/PRETENDS TO READ	236	98.73	0.00
DADLVEAS	PV18-DAD'S EASE OF LEAVING WORK.....	5,155	98.72	0.00
PPCREAT	EI1M-CREATIVE ACTIVITIES GOING ON	4,353	98.71	0.00
PCPLACE1	EH9-CARE TOOK PLACE IN OWN/OTHER HOME-1	77	98.70	0.00
FAMTCRED	PV23-R HEARD OF CHILD CARE TAX CREDIT	5,444	98.68	1.39
MOMLVEAS	PU19-MOM'S EASE OF LEAVING WORK	3,980	98.67	0.00
CPSTRM1	EG19-AGE CURRENT PRGM BEGAN/MONTHS-1	2,532	98.66	20.59
CPWORK2	EG7-PROGRAM LOCATED PARENT WORKPLACE-2.....	73	98.63	0.00
RCAGEMO	ED3-AGE 1 ST RECEIVED REL CARE/MONTHS	2,268	98.63	9.68
PPATIENT	EI1F-CHILD GETS INDIVIDUAL ATTENTION	4,353	98.62	0.00
MOMVOTEC	PU7OV-MOM HAS VOC/TECH DIPL	1,225	98.61	100.00
MOMHOURS	PU11-HOURS PER WEEK MOM WORKS FOR PAY	3,980	98.59	0.00
MOMCAROT	PU32-PRIM ARRNG COVERS ALL WORK/SCH HRS	4,280	98.57	4.92
NCRACE1	EE21-CARE PRVDR SAME RACE/BACKGD-1	1,103	98.55	0.00
NCBELIE1	EE25-NONREL SIMILAR REARING BELIEFS-1	1,103	98.55	0.00
CPTEACH1	EG27-NUM OF TIMES TEACHER CHANGED-1	2,532	98.54	0.00
RELATN5	O/HH MEM - #5'S RELATION TO CHILD.....	203	98.52	100.00
PPLANG	EI5J-CAREGIVER SPEAKS CHILD NATIVE LANG	391	98.47	0.00
NCSTRM1	EE18-AGE NONREL CARE BEGAN/MONTHS-1	1,103	98.46	58.82
HDGOVT	PT8B-RECEIVES ST/LOCL/SOCL SERVICES	576	98.44	0.00
HGOVEVR	PW13-EVER RECD CHILD CARE BENEFITS	379	98.42	0.00
CPADLTS1	EG18-NUM OF ADULTS IN GROUP-1	2,532	98.38	0.00
MOMPUBL	PU14-MOM CHECKED PUBLIC EMPLOY AGENCY	370	98.38	0.00
MOMPRIV	PU14-MOM CHECKED PRIVATE EMPLOY AGENCY	370	98.38	0.00
MOMEMPL	PU14-MOM CHECKED W/EMPLOYER DIRECTLY	370	98.38	0.00
MOMREL	PU14-MOM CHECKED W/FRIENDS/RELATIVES.....	370	98.38	0.00
MOMANSAD	PU14-MOM PLACED/ANSWER ADS/SENT RESUME	370	98.38	0.00
MOMREAD	PU14-MOM READ WANT ADS	370	98.38	0.00
MOMOTHER	PU14-MOM DID SOMETHING ELSE TO FIND WORK	370	98.38	0.00
DADBIMOM	PV25-BIOLOGICAL MOM PROVIDES CARE	245	98.37	0.00
RCCANCE1	ED23-NUMBER OF DAYS REL CANCELS-1.....	1,518	98.35	0.00
RCSTRM1	ED19-AGE REL CARE BEGAN/MONTHS-1	1,518	98.35	44.00
MOMWLDSC	PU23-MOM WLD ATTEND SCHOOL IF CARE AVAIL	1,559	98.27	0.00
CPREL2	EG29A-REL HELPS PAY FOR PROGRAM-2	57	98.25	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPWELF2	EG29B-WELFARE HELPS PAY FOR PROGRAM-2	57	98.25	0.00
CPEMPL2	EG29C-EMPL HELPS PAY FOR PROGRAM-2	57	98.25	0.00
CPOTHER2	EG29D-OTHER HELPS PAYS FOR PROGRAM-2	57	98.25	0.00
RCDAYS2	ED11-# OF DAYS/WK RECEIVES REL CARE-2	225	98.22	0.00
MOMGRAD2	PU7-ACTUAL GRADE 9-11 MOM COMPLETED	562	98.22	100.00
NCSTRM2	EE18-AGE NONREL CARE BEGAN/MONTHS-2	56	98.21	0.00
NCSTRTY2	EE18-AGE NONREL CARE BEGAN/YEARS-2	56	98.21	0.00
DADDIPL	PV7-DAD HAS HS DIPLOMA OR GED	2,102	98.19	100.00
MOMBRELA	PU35-SECONDARY ARRNG RELATIVE TYPE	110	98.18	0.00
RCPLACE3	ED6-LOCATION OF RELATIVE CARE-3	54	98.15	0.00
HACONECT	EL8-PRTND READ SOUNDS LIKE CONNCTD STORY	4,151	98.05	0.00
DADHOURS	PV10-HOURS PER WEEK DAD WORKS FOR PAY	5,155	98.00	0.00
PCSTRTY1	EH10-YEAR PREVIOUS ARRANGEMENT BEGAN-1	197	97.97	0.00
MOMARELA	PU28-OTHER ARRNG RELATIVE TYPE	146	97.95	0.00
RCADLTS3	ED18-NUM OF ADULTS GIVING REL CARE-3	48	97.92	0.00
PPNEW	EI1H-CAREGIVER OPEN TO NEW INFORMATION	4,353	97.91	0.00
MOMCARE	PU26-PRIM ARRNG WHEN MOM AT WRK/SCH	4,280	97.90	14.44
PWRKHOME	PV27-PARENT WLD STOP/REDUCE WORK IF ABLE	6,187	97.83	0.00
PACHOOSE	EI3- WOULD CHOOSE NON-PARENTAL CARE	2,396	97.83	1.92
NCKIDS1	EE16-# OF CHILDRN CARED FOR BY NONREL-1	1,103	97.82	16.67
HAFDCCUR	PW11-FAMLY CURRENTLY RECVS WELFARE	864	97.80	0.00
DADGRADE	PV6-HIGHEST GRADE/YR SCH DAD COMPLETED	5,444	97.80	100.00
RCHRS2	ED12-# OF HRS/WK RECEIVES REL CARE-2	225	97.78	0.00
RCSTRTY2	ED19-AGE REL CARE BEGAN/YEARS-2	267	97.75	0.00
CPRACE1	EG21-CARE PROVIDER SAME RACE/BACKGD-1	2,532	97.75	0.00
CPRELG1	EG6-PROGRAM AFFL W/FAMILY'S RELIGION-1	1,983	97.73	0.00
CPWEEK2	EG9-PROGRAM REG SCHED ONCE/WEEK-2	88	97.73	0.00
MOMGRAD1	PU7-ACTUAL GRADE 0-8 MOM COMPLETED	303	97.69	100.00
RCDAYWK1	ED14-# OF DAYS/WK RECEIVES REL CARE-1	43	97.67	0.00
CPHOMM2	EG8-MINUTES FROM HOME TO PROGRAM-2	86	97.67	0.00
RCHRS1	ED12-# OF HRS/WK RECEIVES REL CARE-1	1,475	97.63	0.00
RCHRWK2	ED15-# OF HRS/WK RECEIVES REL CARE-2	42	97.62	0.00
CPSPEAK2	EG22-LANG PROVIDER SPEAKS MOST W/CHILD-2	82	97.56	0.00
CPPARWR2	EG25-VOLUNTEER CHILD'S PGM LST MNTH-2	82	97.56	0.00
CPTEACH2	EG27-NUM OF TIMES TEACHER CHANGED-2	82	97.56	0.00
CPFEE2	EG28-ANY FEE FOR PROGRAM-2	82	97.56	0.00
CPPARHR1	EG24-PGM ENCOURAGE PARENTS VOLUNTEER-1	2,532	97.55	0.00
PPDISCIP	EI1J-HANDLES DISCIPLINE/NOT HARSH	4,353	97.50	0.00
CMOVEAGE	PA5OV-AGE WHEN CHILD MOVED TO US	159	97.48	100.00
CPDAYS2	EG11-# OF DAYS/WK ATTENDS PROGRAM-2	79	97.47	0.00
CPHRS2	EG12-# OF HRS/WK ATTENDS PROGRAM-2	79	97.47	0.00
NCSICK1	EE26-NONREL RULES CARE WHEN CHLD SICK-1	1,103	97.46	0.00
MOMWLDWK	PU22-MOM WLD WORK IF CARE AVAILABLE	1,675	97.37	4.55
HGOVSINC	PW14-RECD CHILD CARE BENEFITS SINCE DATE	379	97.36	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCMONTH1	EE9-NONREL CARE REG SCHED ONCE/MONTH-1	37	97.30	0.00
HDAFFECT	PT10-DISABILITY AFFECTS ABILITY TO LEARN	406	97.29	0.00
MOMUSAGE	PU6OV-AGE WHEN MOM MOVED TO US.....	1,334	97.23	100.00
RCDAYS3	ED11-# OF DAYS/WK RECEIVES REL CARE-3	35	97.14	0.00
RCHRS3	ED12-# OF HRS/WK RECEIVES REL CARE-3	35	97.14	0.00
NCCANCE1	EE27-NUMBER OF DAYS NONREL CANCELS-1	1,103	97.01	3.03
MOMCARWH	PU33-SECONDARY ARRNG WHEN MOM AT WRK/SCH	963	96.99	6.90
CPDENTA1	EG26C-PGM PROVIDES DENTAL EXAMINATIONS-1	2,532	96.92	0.00
CPPHYSE1	EG26B-PGM PRVDS PHYSICAL EXAMINATIONS-1	2,532	96.48	0.00
CPSICK1	EG26E-PGM PROVIDES SICK CHILD CARE-1.....	2,532	96.41	0.00
CPKIDS1	EG17-# OF CHILDREN IN GROUP-1	2,532	96.41	1.10
CPFRIEN2	EG20-LEARN FROM FRIEND/NEIGHBOR-2	82	96.34	0.00
CPLEMP2	EG20-LEARNED FROM PLACE OF EMPLOYMENT-2.....	82	96.34	0.00
CPSCHOO2	EG20-LEARNED FROM PUB/PRIVATE SCHOOL-2.....	82	96.34	0.00
CPCHURC2	EG20-LEARNED FROM CHURCH/SYNAGOGUE-2.....	82	96.34	0.00
CPSOCWK2	EG20-LEARNED FROM SOCIAL WORKER-2.....	82	96.34	0.00
CPADS2	EG20-LEARNED FROM NEWSPAPER ADS-2.....	82	96.34	0.00
CPAGENC2	EG20-LEARNED FROM R & R AGENCY-2	82	96.34	0.00
CPCARE2	EG20-LEARNED FROM CHLD CARE AGNCY-2.....	82	96.34	0.00
CPKNEW2	EG20-ALREADY KNEW PROVIDER-2	82	96.34	0.00
CPCHILD2	EG20-PROVIDER CARED FOR OTHER CHILD-2.....	82	96.34	0.00
CPREFER2	EG20-LEARNED FROM REFERENCE MATERIALS-2.....	82	96.34	0.00
CPBULLE2	EG20-LEARNED FROM BULLETIN BRD/FLYER-2.....	82	96.34	0.00
CPINTER2	EG20-LEARNED FROM INTERNET-2.....	82	96.34	0.00
CPSOURC2	EG20-LEARNED FROM OTHER SOURCE-2	82	96.34	0.00
CPPARHR2	EG24-PGM ENCOURAGE PARENTS VOLUNTEER-2	82	96.34	0.00
CPPHYSE2	EG26B-PGM PRVDS PHYSICAL EXAMINATIONS-2	82	96.34	0.00
CPDENTA2	EG26C-PGM PROVIDES DENTAL EXAMINATIONS-2	82	96.34	0.00
CPDISAB2	EG26D-PGM PRVDS TEST FOR DEVT PROBLEM-2	82	96.34	0.00
CPSICK2	EG26E-PGM PROVIDES SICK CHILD CARE-2.....	82	96.34	0.00
RCTYPE3	ED5-RELATIVE WHO CARES FOR CHILD-3	54	96.30	0.00
RCAGE3	ED5OV-AGE OF RELATIVE CAREGIVER-3.....	54	96.30	0.00
CPRELG2	EG6-PROGRAM AFFL W/FAMILY'S RELIGION-2	52	96.15	0.00
AGE6	O/HH MEM - #6'S AGE	78	96.15	100.00
RCCOST2	ED26-AMT HH PAYS FOR REL CARE-2	25	96.00	0.00
RCUNIT2	ED26-UNIT OF TIME/REL CARE COST-2	25	96.00	0.00
PCENDYY1	EH10-YEAR PREVIOUS ARRANGEMENT ENDED-1	197	95.94	0.00
RCSTRTM2	ED19-AGE REL CARE BEGAN/MONTHS-2	267	95.88	27.27
RCCANCE3	ED23-NUMBER OF DAYS REL CANCELS-3.....	48	95.83	0.00
CPCOST1	EG30-AMOUNT HH PAYS FOR PROGRAM-1	2,012	95.68	0.00
CPUNIT1	EG30-UNIT OF TIME/PROGRAM COST-1.....	1,909	95.55	0.00
NCMONTH2	EE9-NONREL CARE REG SCHED ONCE/MONTH-2	22	95.45	0.00
PCSTRTM1	EH10-MONTH PREVIOUS ARRANGEMENT BEGAN-1	197	95.43	11.11
PCENDMM1	EH10-MONTH PREVIOUS ARRANGEMENT ENDED-1	197	95.43	22.22

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCHRWK1	ED15-# OF HRS/WK RECEIVES REL CARE-1	43	95.35	0.00
RCCSTHH2	ED27-AMOUNT FOR CHILD ONLY OR OTHERS-2.....	21	95.24	0.00
CPADLTS2	EG18-NUM OF ADULTS IN GROUP-2	82	95.12	0.00
CPRACE2	EG21-CARE PROVIDER SAME RACE/BACKGD-2	82	95.12	0.00
DADVOTEC	PV6OV-DAD HAS VOC/TECH DIPL	744	95.03	100.00
RCAGE1	ED5OV-AGE OF RELATIVE CAREGIVER-1	1,566	94.89	1.25
CPCSTHH2	EG31-AMOUNT FOR CHILD ONLY OR OTHERS-2.....	39	94.87	0.00
RCHOMM3	ED8-MINUTES TO GO TO RELATIVE'S HOME-3	38	94.74	0.00
CPCOST2	EG30-AMOUNT HH PAYS FOR PROGRAM-2	57	94.74	0.00
NCSICK2	EE26-NONREL RULES CARE WHEN CHLD SICK-2	56	94.64	0.00
NCCANCE2	EE27-NUMBER OF DAYS NONREL CANCELS-2	56	94.64	0.00
RCCSTHN1	ED27OV-# OF CHILDREN AMOUNT IS FOR-1	126	94.44	0.00
RCAGE2	ED5OV-AGE OF RELATIVE CAREGIVER-2.....	314	94.27	0.00
RCCSTHH1	ED27-AMOUNT FOR CHILD ONLY OR OTHERS-1.....	293	94.20	0.00
CPBELIE1	EG23-PROVIDER SIMILAR REARING BELIEF-1.....	2,532	94.15	0.00
CPUNIT2	EG30-UNIT OF TIME/PROGRAM COST-2.....	51	94.12	0.00
PCHDCOS2	EH5-REASON FOR HEAD START COST-2.....	17	94.12	100.00
DADWLDSC	PV22-DAD WLD ATTEND SCHOOL IF CARE AVAIL.....	117	94.02	0.00
CPBELIE2	EG23-PROVIDER SIMILAR REARING BELIEF-2.....	82	93.90	0.00
RCINHH3	ED7-REL CARE PROVIDER LIVES IN HH-3.....	16	93.75	0.00
RCCOST1	ED26-AMT HH PAYS FOR REL CARE-1	423	93.62	0.00
CPTEST1	EG26A-PGM PRVDS HEAR/SPEECH/VISN TEST-1	2,532	93.52	0.00
CPCSTHH1	EG31-AMOUNT FOR CHILD ONLY OR OTHERS-1.....	1,369	93.50	0.00
HINCMRNG	PW17- TOTAL HH INCOME BELOW/ABOVE \$25K.....	6,749	93.45	0.00
RCUNIT1	ED26-UNIT OF TIME/REL CARE COST-1	409	93.40	0.00
DADGRAD2	PV6-ACTUAL GRADE 9-11 DAD COMPLETED	452	93.36	100.00
MOMENHRS	PU17-HOURS MOM IN SCHOOL PER WEEK	783	92.98	7.27
RCDAYWK2	ED14-# OF DAYS/WK RECEIVES REL CARE-2	42	92.86	0.00
CPSTRM2	EG19-AGE CURRENT PRGM BEGAN/MONTHS-2	82	92.68	0.00
CPSTRTY2	EG19-AGE CURRENT PRGM BEGAN/YEARS-2	82	92.68	0.00
CPTEST2	EG26A-PGM PRVDS HEAR/SPEECH/VISN TEST-2	82	92.68	0.00
NCCOST1	EE30-AMT HH PAYS FOR NONREL CARE-1	993	92.65	0.00
FAMTCUSM	PU25-HH USED CHILD CARE TAX CREDIT 2000	3,163	92.63	0.00
CPDISAB1	EG26D-PGM PRVDS TEST FOR DEVT PROBLEM-1	2,532	92.61	0.00
HNIFSP	PT9-RECEIVES SERVICES THRU IFSP/IEP	429	92.54	0.00
DADWLDWK	PV21-DAD WLD WORK IF CARE AVAILABLE.....	134	92.54	20.00
NCUNIT1	EE30-UNIT OF TIME/NONREL CARE COST-1	973	92.50	0.00
HINCM50K	PW18-TOTAL HH INCOME BELOW/ABOVE \$50K.....	4,884	92.28	0.00
DADENHRS	PV16-HOURS DAD IN SCHOOL PER WEEK.....	474	92.19	5.41
FAMTCUSD	PV24-HH USED CHILD CARE TAX CREDIT 2000	2,715	92.15	0.00
NCHRWK1	EE14-# OF HRS/WK RECEIVES NONREL CARE-1	24	91.67	0.00
AGE7	O/HH MEM - #7'S AGE	36	91.67	100.00
DADUSAGE	PV5OV-AGE WHEN DAD MOVED TO US	1,129	91.32	100.00
MOMACCT	PU20-MOM'S EMPL HAS CARE ACCOUNT.....	3,980	90.98	0.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCCSTHN1	EE31OV-# OF CHILDREN AMOUNT IS FOR-1	221	90.95	0.00
PCSTRTM2	EH10-MONTH PREVIOUS ARRANGEMENT BEGAN-2	11	90.91	0.00
PCENDMM2	EH10-MONTH PREVIOUS ARRANGEMENT ENDED-2	11	90.91	0.00
PCREASN2	EH11-REASON PREVIOUS ARRANGEMENT ENDED-2	11	90.91	0.00
HSTOPYY	PW12-YEAR STOPPED RECEIVING WELFARE	379	90.77	0.00
MOMAHOUS	PU27-OTHER PARENT LIVES IN HH.....	798	90.60	57.33
DADGRAD1	PV6-ACTUAL GRADE 0-8 DAD COMPLETED	255	90.59	100.00
MOMAWEEK	PU29-ARRNG REG SCHED ONCE/WEEK	210	90.48	5.00
CPCSTHN1	EG31OV-# OF CHILDREN AMOUNT IS FOR-1	72	90.28	0.00
CPKIDS2	EG17-# OF CHILDREN IN GROUP-2	82	90.24	0.00
NCCSTHH2	EE31-AMOUNT FOR CHILD ONLY OR OTHERS-2	30	90.00	0.00
NCCSTHH1	EE31-AMOUNT FOR CHILD ONLY OR OTHERS-1	667	89.96	0.00
MOMACUSE	PU21-MOM USES EMPL CARE ACCOUNT	1,171	89.92	0.00
PPCHOIC	EI6-GOOD CHOICES OF DAYCARE WHERE LIVE	5,345	89.84	0.92
MOMADAYS	PU30-# DAYS EACH WK IN OTHER ARRNG	189	89.42	5.00
MOMBHOU5	PU34-SEC ARRNG PARENT LIVES IN HH.....	349	89.40	48.65
NCWKMO2	EE12-# OF WKS/MO RECEIVES NONREL CARE-2	9	88.89	0.00
NCDAYWK2	EE13-# DAYS/WK RECEIVES NONREL CARE-2	9	88.89	0.00
HINCOME	PW18-TOTAL HH INCOME RANGE	6,749	87.98	0.00
MOMBWEEK	PU36-SEC ARRNG REG SCHED ONCE/WEEK	141	87.94	0.00
MOMBDAYS	PU37-# DAYS EACH WK IN SEC ARRNG	105	87.62	0.00
NCCOST3	EE30-AMT HH PAYS FOR NONREL CARE-3	8	87.50	0.00
NCUNIT3	EE30-UNIT OF TIME/NONREL CARE COST-3	8	87.50	0.00
NCCSTHH3	EE31-AMOUNT FOR CHILD ONLY OR OTHERS-3	8	87.50	0.00
NCCOST2	EE30-AMT HH PAYS FOR NONREL CARE-2	39	87.18	0.00
NCUNIT2	EE30-UNIT OF TIME/NONREL CARE COST-2	39	87.18	0.00
PCHDCOS1	EH5-REASON FOR HEAD START COST-1.....	75	86.67	100.00
RCWKMO1	ED13-# OF WKS/MO RECEIVES REL CARE-1.....	43	86.05	0.00
CPDAYWK1	EG14-# OF DAYS/WK IN PROGRAM-1	7	85.71	0.00
CPHRWK1	EG15-# OF HRS/WEEK IN PROGRAM-1.....	7	85.71	0.00
MOMBHRS	PU38-# HRS EACH WEEK IN SEC ARRNG	105	84.76	0.00
MOMAHRS	PU31-# HRS EACH WK IN OTHER ARRNG	189	84.13	3.33
HSTOPMM	PW12-MONTH STOPPED RECEIVING WELFARE.....	379	83.91	0.00
DADACCT	PV19-DAD'S EMPL HAS CARE ACCOUNT	5,155	83.53	0.00
AGE9	O/HH MEM - #9'S AGE	6	83.33	100.00
DADACUSE	PV20-DAD USES EMPL CARE ACCOUNT	1,290	82.71	0.00
PCENDYY2	EH10-YEAR PREVIOUS ARRANGEMENT ENDED-2	11	81.82	0.00
RCWKMO2	ED13-# OF WKS/MO RECEIVES REL CARE-2.....	42	80.95	0.00
NCWKMO1	EE12-# OF WKS/MO RECEIVES NONREL CARE-1	24	79.17	0.00
NCDAYWK1	EE13-# DAYS/WK RECEIVES NONREL CARE-1	24	79.17	0.00
NCCSTHN2	EE31OV-# OF CHILDREN AMOUNT IS FOR-2.....	8	75.00	0.00
CPWKMO1	EG13-# OF WKS/MO IN PROGRAM-1.....	7	71.43	0.00
RCDAYS4	ED11-# OF DAYS/WK RECEIVES REL CARE-4	3	66.67	0.00
PCHDCOS3	EH5-REASON FOR HEAD START COST-3.....	3	66.67	100.00

See notes at end of table.

**Table 6-1. Item response rates for items on the public use data file: ECPP-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCAGEYR	EE3-AGE 1ST RECEIVED NONREL CARE/YRS.....	1,874	63.50	14.47
HINCMEXT	PW18OV-EXACT HH INC TO NEAREST \$1000.....	1,443	63.13	0.19
NCCSTHN3	EE31OV-# OF CHILDREN AMOUNT IS FOR-3.....	2	50.00	0.00
CPBELIE3	EG23-PROVIDER SIMILAR REARING BELIEF-3.....	2	50.00	0.00
CPDENTA3	EG26C-PGM PROVIDES DENTAL EXAMINATIONS-3.....	2	50.00	0.00

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Program Participation (ECPP) Survey of the National Household Education Surveys Program (NHES), 2001.

Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RESPSEX	PARENT RESPONDENT'S SEX	9,583	100.00	0.00
SEX4	O/HH MEM - #4'S SEX	717	100.00	0.00
SEX6	O/HH MEM - #6'S SEX	120	100.00	0.00
RELATN6	O/HH MEM - #6'S RELATION TO CHILD.....	120	100.00	0.00
SEX7	O/HH MEM - #7'S SEX	47	100.00	0.00
RELATN7	O/HH MEM - #7'S RELATION TO CHILD.....	47	100.00	0.00
SEX8	O/HH MEM - #8'S SEX	26	100.00	0.00
RELATN8	O/HH MEM - #8'S RELATION TO CHILD.....	26	100.00	0.00
AGE9	O/HH MEM - #9'S AGE	13	100.00	0.00
SEX9	O/HH MEM - #9'S SEX	13	100.00	0.00
RELATN9	O/HH MEM - #9'S RELATION TO CHILD.....	13	100.00	0.00
AGE10	O/HH MEM - #10'S AGE	5	100.00	0.00
SEX10	O/HH MEM - #10'S SEX	5	100.00	0.00
RELATN10	O/HH MEM - #10'S RELATION TO CHILD.....	5	100.00	0.00
AGE11	O/HH MEM - #11'S AGE	1	100.00	0.00
SEX11	O/HH MEM - #11'S SEX	1	100.00	0.00
RELATN11	O/HH MEM - #11'S RELATION TO CHILD.....	1	100.00	0.00
ENROLL	PB1-CHILD ENROLLED/ATTENDING SCHOOL.....	9,583	100.00	0.00
GRADE	PB6-GRADE/YR CHILD IS ATTENDING.....	9,388	100.00	0.00
HSRELIGN	SC1-HOMESCHOOL/RELIGIOUS REASONS	195	100.00	0.00
HSBETTER	SC1-HOMESCHOOL/BETTER EDUCATION AT HOME.....	195	100.00	0.00
HSOBJECT	SC1-HOMESCH/OBJECT TO WHAT SCH TEACHES	195	100.00	0.00
HSENVIRN	SC1-HOMESCHOOL/POOR LEARN ENVIR AT SCH	195	100.00	0.00
HSCHALNG	SC1-HOMESCH/NO CHALLNG FOR CHLD AT SCH	195	100.00	0.00
HSPRIVAT	SC1-HOMESCH/CANT AFFORD PRIVATE SCH	195	100.00	0.00
HSDESIRE	SC1-HOMESCH/CLDNT GET INTO DESIRED SCH	195	100.00	0.00
HSILL	SC1-HOMESCHOOL/CHILD HAS TEMP ILLNESS.....	195	100.00	0.00
HSDISABL	SC1-HOMESCH/CHILD HAS SPEC NEED/DISABIL	195	100.00	0.00
HSCAREER	SC1-HOMESCHOOL/PARENT'S CAREER	195	100.00	0.00
HSAGE	SC1-HOMESCHOOL/CHILD NOT OLD ENOUGH.....	195	100.00	0.00
HSBEHAV	SC1-HOMESCH/STUDENT BEHAVIORAL PROBLEMS	195	100.00	0.00
HSCHAR	SC1-HOMESCH/TO DEVEL CHARACTER/MORALITY	195	100.00	0.00
HSSCPROB	SC1-HOMESCH/OTH PROB W/PUBL/PRIV SCHS.....	195	100.00	0.00
HSFAMLY	SC1-HOMESCH/FAMILY REASONS.....	195	100.00	0.00
HSTRAN	SC1-HOMESCH/TRANSPORT/DIST/CONVENIENCE.....	195	100.00	0.00
HSOTHER	SC1-HOMESCH/OTHER REASONS-SPECIFY.....	195	100.00	0.00
SSAME	SD12-CHILD1 GOES TO SAME SCH AS CHILD2.....	548	100.00	0.00
RCTYPE3	SF3-RELATIVE WHO CARES FOR CHILD-3	30	100.00	0.00
RCTYPE4	SF3-RELATIVE WHO CARES FOR CHILD-4	3	100.00	0.00
RCAGE4	SF3OV-AGE OF RELATIVE CAREGIVER-4.....	3	100.00	0.00
RCPLACE3	SF4-LOCATION OF RELATIVE CARE-3	30	100.00	0.00
RCPLACE4	SF4-LOCATION OF RELATIVE CARE-4	3	100.00	0.00
RCINHH3	SF5-REL CARE PROVIDER LIVES IN HH-3.....	9	100.00	0.00
RCINHH4	SF5-REL CARE PROVIDER LIVES IN HH-4.....	1	100.00	0.00
RCHOMM2	SF6-MINUTES TO GO TO RELATIVE'S HOME-2	184	100.00	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCHOMM4	SF6-MINUTES TO GO TO RELATIVE'S HOME-4	2	100.00	0.00
RCSCMM4	SF7-MIN TO GO FROM SCH TO REL'S HOME-4	2	100.00	0.00
RCBFAFT4	SF8-REL CARE BEFORE/AFTER SCHOOL-4	3	100.00	0.00
RCWEEK2	SF9-REL CARE REG SCHED ONCE/WEEK-2	295	100.00	0.00
RCWEEK4	SF9-REL CARE REG SCHED ONCE/WEEK-4	3	100.00	0.00
RCMONTH2	SF10-REL CARE REG SCHED ONCE/MONTH-2	98	100.00	0.00
RCMONTH3	SF10-REL CARE REG SCHED ONCE/MONTH-3	10	100.00	0.00
RCMONTH4	SF10-REL CARE REG SCHED ONCE/MONTH-4	2	100.00	0.00
RCDAYS4	SF11-# OF DAYS/WK RECEIVES REL CARE-4	1	100.00	0.00
RCHRSAF4	SF13-# OF HRS/WK REL CARE AFTER SCHOOL-4	1	100.00	0.00
RCAFT64	SF15-# OF HRS/WK REL CARE AFTER 6 PM-4	1	100.00	0.00
RCWKMO4	SF16-# OF WKS/MO RECEIVES REL CARE-4	1	100.00	0.00
RCDAYWK3	SF17-# OF DAYS/WK RECEIVES REL CARE-3	4	100.00	0.00
RCDAYWK4	SF17-# OF DAYS/WK RECEIVES REL CARE-4	1	100.00	0.00
RCHRWK1	SF18-# OF HRS/WK RECEIVES REL CARE-1	40	100.00	0.00
RCHRWK3	SF18-# OF HRS/WK RECEIVES REL CARE-3	4	100.00	0.00
RCHRWK4	SF18-# OF HRS/WK RECEIVES REL CARE-4	1	100.00	0.00
RCKIDS4	SF19-NUM OF CHILDREN CARED FOR BY REL-4	2	100.00	0.00
RCADLTS4	SF20-NUM OF ADULTS GIVING REL CARE-4	2	100.00	0.00
RCSPEAK2	SF21-LANGUAGE SPOKEN MOST BY REL-2	236	100.00	0.00
RCSPEAK4	SF21-LANGUAGE SPOKEN MOST BY REL-4	2	100.00	0.00
RCAEDUC3	SF22-HOMEWORK/SCH-RELATED/EDUCATIONAL-3	22	100.00	0.00
RCAEDUC4	SF22-HOMEWORK/SCH-RELATED/EDUCATIONAL-4	2	100.00	0.00
RCACOMP3	SF22-COMPUTERS-3	22	100.00	0.00
RCACOMP4	SF22-COMPUTERS-4	2	100.00	0.00
RCAREAD3	SF22-READING/WRITING-3	22	100.00	0.00
RCAREAD4	SF22-READING/WRITING-4	2	100.00	0.00
RCAART3	SF22-ARTS-3	22	100.00	0.00
RCAART4	SF22-ARTS-4	2	100.00	0.00
RCACHOR3	SF22-CHORES/WORK-3	22	100.00	0.00
RCACHOR4	SF22-CHORES/WORK-4	2	100.00	0.00
RCAOUTP3	SF22-OUTDOOR PLAY/ACTIVITIES/SPORTS-3	22	100.00	0.00
RCAOUTP4	SF22-OUTDOOR PLAY/ACTIVITIES/SPORTS-4	2	100.00	0.00
RCAINPL3	SF22-INDOOR PLAY-3	22	100.00	0.00
RCAINPL4	SF22-INDOOR PLAY-4	2	100.00	0.00
RCAPHON3	SF22-TELEPHONE-3	22	100.00	0.00
RCAPHON4	SF22-TELEPHONE-4	2	100.00	0.00
RCAEAT3	SF22-EATING/SNACKS-3	22	100.00	0.00
RCAEAT4	SF22-EATING/SNACKS-4	2	100.00	0.00
RCATV3	SF22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-3	22	100.00	0.00
RCATV4	SF22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-4	2	100.00	0.00
RCATALK3	SF22-TALKING TO PARENT/CARE PROVIDER-3	22	100.00	0.00
RCATALK4	SF22-TALKING TO PARENT/CARE PROVIDER-4	2	100.00	0.00
RCAFRIE3	SF22-TALKING WITH FRIENDS/SOCIALIZING-3	22	100.00	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCAFRIE4	SF22-TALKING WITH FRIENDS/SOCIALIZING-4	2	100.00	0.00
RCAOTHE3	SF22-OTHER-3	22	100.00	0.00
RCAOTHE4	SF22-OTHER-4	2	100.00	0.00
RCLIKE2	SF23-DOES CHILD LIKE ARRANGEMENT-2.....	236	100.00	0.00
RCLIKE4	SF23-DOES CHILD LIKE ARRANGEMENT-4.....	2	100.00	0.00
RCQUAL4	SF24A-QUALITY OF ACTIVITIES IN ARRNGMT-4	2	100.00	0.00
RCAFFOR4	SF24B-AFFORDABILITY OF ARRANGEMENT-4	2	100.00	0.00
RCRELIA4	SF24C-RELIABILITY OF ARRANGEMENT-4	2	100.00	0.00
RCTRANS4	SF24D-TRANSPORT TO/FROM ARRANGEMENT-4.....	1	100.00	0.00
RCSAFTY4	SF24E-CHILD'S SAFETY IN ARRANGEMENT-4	2	100.00	0.00
RCFEE4	SF25-ANY FEE FOR REL CARE-4	2	100.00	0.00
RCREL2	SF26A-REL HELPS PAY FOR REL CARE-2.....	32	100.00	0.00
RCREL3	SF26A-REL HELPS PAY FOR REL CARE-3.....	1	100.00	0.00
RCWELF2	SF26B-WELFARE HELPS PAY FOR REL CARE-2.....	32	100.00	0.00
RCWELF3	SF26B-WELFARE HELPS PAY FOR REL CARE-3.....	1	100.00	0.00
RCEMPL2	SF26C-EMPL HELPS PAY FOR REL CARE-2.....	32	100.00	0.00
RCEMPL3	SF26C-EMPL HELPS PAY FOR REL CARE-3.....	1	100.00	0.00
RCOTHER2	SF26D-OTHER HELPS PAY REL CARE-2.....	32	100.00	0.00
RCOTHER3	SF26D-OTHER HELPS PAY REL CARE-3.....	1	100.00	0.00
RCCSTHH3	SF28-AMOUNT FOR CHILD ONLY OR OTHERS-3.....	1	100.00	0.00
RCCSTHN2	SF28OV-# OF CHILDREN AMOUNT IS FOR-2	11	100.00	0.00
RCCSTHN3	SF28OV-# OF CHILDREN AMOUNT IS FOR-3	1	100.00	0.00
NCPLACE1	SG3-LOCATION OF NONRELATIVE CARE-1	624	100.00	0.00
NCPLACE2	SG3-LOCATION OF NONRELATIVE CARE-2	66	100.00	0.00
NCPLACE3	SG3-LOCATION OF NONRELATIVE CARE-3	6	100.00	0.00
NCPLACE4	SG3-LOCATION OF NONRELATIVE CARE-4	2	100.00	0.00
NCINHH3	SG4-NONREL CARE PROVIDER LIVES IN HH-3	1	100.00	0.00
NCHOMM2	SG5-MINUTES TO GO TO NONREL'S HOME-2.....	45	100.00	0.00
NCHOMM3	SG5-MINUTES TO GO TO NONREL'S HOME-3.....	5	100.00	0.00
NCHOMM4	SG5-MINUTES TO GO TO NONREL'S HOME-4.....	2	100.00	0.00
NCSCMM3	SG6-MIN FROM SCH TO NONREL'S HOME-3.....	5	100.00	0.00
NCSCMM4	SG6-MIN FROM SCH TO NONREL'S HOME-4.....	2	100.00	0.00
NCBFAFT3	SG7-NONREL CARE BEFORE/AFTER SCHOOL-3.....	6	100.00	0.00
NCBFAFT4	SG7-NONREL CARE BEFORE/AFTER SCHOOL-4.....	2	100.00	0.00
NCWEEK2	SG8-NONREL CARE REG SCHED ONCE/WEEK-2	66	100.00	0.00
NCWEEK3	SG8-NONREL CARE REG SCHED ONCE/WEEK-3	6	100.00	0.00
NCWEEK4	SG8-NONREL CARE REG SCHED ONCE/WEEK-4	2	100.00	0.00
NCMONTH1	SG9-NONREL CARE REG SCHED ONCE/MONTH-1	34	100.00	0.00
NCMONTH2	SG9-NONREL CARE REG SCHED ONCE/MONTH-2	25	100.00	0.00
NCMONTH3	SG9-NONREL CARE REG SCHED ONCE/MONTH-3	6	100.00	0.00
NCMONTH4	SG9-NONREL CARE REG SCHED ONCE/MONTH-4	1	100.00	0.00
NCDAYS4	SG10-# OF DAYS/WK RECEIVES NONREL CARE-4.....	1	100.00	0.00
NCHRSBF2	SG11-# OF HRS/WK NONREL CARE BEF SCH-2	12	100.00	0.00
NCHRSAF4	SG12-# OF HRS/WK NONREL CARE AFTER SCH-4.....	1	100.00	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCAFT62	SG14-# OF HRS NONREL CARE AFTER 6 PM-2	37	100.00	0.00
NCAFT64	SG14-# OF HRS NONREL CARE AFTER 6 PM-4	1	100.00	0.00
NCWKMO3	SG15-# OF WKS/MO RECEIVES NONREL CARE-3	1	100.00	0.00
NCDAYWK1	SG16-# OF DAYS/WK RECEIVES NONREL CARE-1	16	100.00	0.00
NCDAYWK3	SG16-# OF DAYS/WK RECEIVES NONREL CARE-3	1	100.00	0.00
NCHRWK3	SG17-# OF HRS/WK RECEIVES NONREL CARE-3	1	100.00	0.00
NCAGE2	SG18-CARE PROVIDER OVER 18 YRS OLD-2	55	100.00	0.00
NCAGE3	SG18-CARE PROVIDER OVER 18 YRS OLD-3	1	100.00	0.00
NCAGE4	SG18-CARE PROVIDER OVER 18 YRS OLD-4	1	100.00	0.00
NCAGEYY1	SG18OV-AGE OF CARE PROVIDER-1	15	100.00	0.00
NCAGEYY2	SG18OV-AGE OF CARE PROVIDER-2	4	100.00	0.00
NCKIDS2	SG19-# OF CHILDREN CARED FOR BY NONREL-2	55	100.00	0.00
NCKIDS3	SG19-# OF CHILDREN CARED FOR BY NONREL-3	1	100.00	0.00
NCKIDS4	SG19-# OF CHILDREN CARED FOR BY NONREL-4	1	100.00	0.00
NCADLTS2	SG20-# OF ADULTS GIVING NONREL CARE-2	55	100.00	0.00
NCADLTS3	SG20-# OF ADULTS GIVING NONREL CARE-3	1	100.00	0.00
NCADLTS4	SG20-# OF ADULTS GIVING NONREL CARE-4	1	100.00	0.00
NCSPEAK2	SG21-LANGUAGE SPOKEN MOST BY NONREL-2	55	100.00	0.00
NCSPEAK3	SG21-LANGUAGE SPOKEN MOST BY NONREL-3	1	100.00	0.00
NCSPEAK4	SG21-LANGUAGE SPOKEN MOST BY NONREL-4	1	100.00	0.00
NCAEDUC3	SG22-HOMEWORK/SCH-RELATED/EDUCATIONAL-3	1	100.00	0.00
NCAEDUC4	SG22-HOMEWORK/SCH-RELATED/EDUCATIONAL-4	1	100.00	0.00
NCACOMP3	SG22-COMPUTERS-3	1	100.00	0.00
NCACOMP4	SG22-COMPUTERS-4	1	100.00	0.00
NCAREAD3	SG22-READING/WRITING-3	1	100.00	0.00
NCAREAD4	SG22-READING/WRITING-4	1	100.00	0.00
NCAART3	SG22-ARTS-3	1	100.00	0.00
NCAART4	SG22-ARTS-4	1	100.00	0.00
NCACHOR3	SG22-CHORES/WORK-3	1	100.00	0.00
NCACHOR4	SG22-CHORES/WORK-4	1	100.00	0.00
NCAOUTP3	SG22-OUTDOOR PLAY/ACTIVITIES/SPORTS-3	1	100.00	0.00
NCAOUTP4	SG22-OUTDOOR PLAY/ACTIVITIES/SPORTS-4	1	100.00	0.00
NCAINPL3	SG22-INDOOR PLAY-3	1	100.00	0.00
NCAINPL4	SG22-INDOOR PLAY-4	1	100.00	0.00
NCAPHON3	SG22-TELEPHONE-3	1	100.00	0.00
NCAPHON4	SG22-TELEPHONE-4	1	100.00	0.00
NCAEAT3	SG22-EATING/SNACKS-3	1	100.00	0.00
NCAEAT4	SG22-EATING/SNACKS-4	1	100.00	0.00
NCATV3	SG22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-3	1	100.00	0.00
NCATV4	SG22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-4	1	100.00	0.00
NCATALK3	SG22-TALKING TO PARENT/CARE PROVIDER-3	1	100.00	0.00
NCATALK4	SG22-TALKING TO PARENT/CARE PROVIDER-4	1	100.00	0.00
NCAFRIE3	SG22-TALKING WITH FRIENDS/SOCIALIZING-3	1	100.00	0.00
NCAFRIE4	SG22-TALKING WITH FRIENDS/SOCIALIZING-4	1	100.00	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCAOTHE3	SG22-OTHER-3.....	1	100.00	0.00
NCAOTHE4	SG22-OTHER-4.....	1	100.00	0.00
NCLIKE3	SG23-DOES CHILD LIKE ARRANGEMENT-3	1	100.00	0.00
NCLIKE4	SG23-DOES CHILD LIKE ARRANGEMENT-4	1	100.00	0.00
NCQUAL3	SG24A-QUALITY OF ACTIVITIES IN ARRNGMT-3.....	1	100.00	0.00
NCQUAL4	SG24A-QUALITY OF ACTIVITIES IN ARRNGMT-4.....	1	100.00	0.00
NCAFFOR3	SG24B-AFFORABILITY OF ARRANGEMENT-3	1	100.00	0.00
NCAFFOR4	SG24B-AFFORABILITY OF ARRANGEMENT-4	1	100.00	0.00
NCRELIA3	SG24C-RELIABILITY OF ARRANGEMENT-3	1	100.00	0.00
NCRELIA4	SG24C-RELIABILITY OF ARRANGEMENT-4	1	100.00	0.00
NCTRANS3	SG24D-TRANSPORT TO/FROM ARRANGEMENT-3	1	100.00	0.00
NCTRANS4	SG24D-TRANSPORT TO/FROM ARRANGEMENT-4	1	100.00	0.00
NCSAFTY3	SG24E-CHILD'S SAFETY IN ARRANGEMENT-3	1	100.00	0.00
NCSAFTY4	SG24E-CHILD'S SAFETY IN ARRANGEMENT-4	1	100.00	0.00
NCFEE3	SG25-ANY FEE FOR NONRELATIVE CARE-3	1	100.00	0.00
NCFEE4	SG25-ANY FEE FOR NONRELATIVE CARE-4	1	100.00	0.00
NCREL2	SG26A-REL HELPS PAY FOR NONREL CARE-2	21	100.00	0.00
NCWELF2	SG26B-WELFARE HELP PAY FOR NONREL CARE-2.....	21	100.00	0.00
NCEMPL2	SG26C-EMPL HELPS PAY FOR NONREL CARE-2	21	100.00	0.00
NCOTHER2	SG26D-OTHER HELPS PAY NONREL CARE-2	21	100.00	0.00
CPHOMM3	SH6-MINUTES TO GO FROM HOME TO PROGRAM-3.....	26	100.00	0.00
CPHOMM4	SH6-MINUTES TO GO FROM HOME TO PROGRAM-4.....	6	100.00	0.00
CPSCMM4	SH7-MINUTES TO GO FROM SCH TO PROGRAM-4.....	6	100.00	0.00
CPMONTH3	SH10-PROGRAM REG SCHED ONCE/MONTH-3	5	100.00	0.00
CPMONTH4	SH10-PROGRAM REG SCHED ONCE/MONTH-4	1	100.00	0.00
CPHRBF3	SH12-# OF HRS/WK AT PROGRAM BEFORE SCH-3.....	2	100.00	0.00
CPWKMO3	SH16-# OF WKS/MO IN PROGRAM-3	4	100.00	0.00
CPWKMO4	SH16-# OF WKS/MO IN PROGRAM-4	1	100.00	0.00
CPDAYWK3	SH17-# OF DAYS/WK IN PROGRAM-3.....	4	100.00	0.00
CPDAYWK4	SH17-# OF DAYS/WK IN PROGRAM-4.....	1	100.00	0.00
CPHRWK3	SH18-# OF HRS/WK IN PROGRAM-3.....	4	100.00	0.00
CPHRWK4	SH18-# OF HRS/WK IN PROGRAM-4.....	1	100.00	0.00
CPBEDUC3	SH23-HOMEWORK/SCH-RELATED/EDUCATIONAL-3.....	2	100.00	0.00
CPBCOMP3	SH23-COMPUTERS-3	2	100.00	0.00
CPBREAD3	SH23-READING/WRITING-3	2	100.00	0.00
CPBART3	SH23-ARTS-3.....	2	100.00	0.00
CPBCHOR3	SH23-CHORES/WORK-3	2	100.00	0.00
CPBOUTP3	SH23-OUTDOOR PLAY/ACTIVITIES/SPORTS-3	2	100.00	0.00
CPBINPL3	SH23-INDOOR PLAY-3	2	100.00	0.00
CPBPON3	SH23-TELEPHONE-3	2	100.00	0.00
CPBEAT3	SH23-EATING/SNACKS-3	2	100.00	0.00
CPBTV3	SH23-TV/VIDEOS/VID GAMES/LIST TO MUSIC-3.....	2	100.00	0.00
CPBTALK3	SH23-TALKING TO PARENT/CARE PROVIDER-3	2	100.00	0.00
CPBFRIE3	SH23-TALKING TO FRIENDS/SOCIALIZING-3	2	100.00	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPBOTHE3	SH23-OTHER-3.....	2	100.00	0.00
CPSIB4	SH30-CHILD HAS A SIBLING AT PROGRAM-4.....	6	100.00	0.00
CPREL4	SH34A-REL HELPS PAY FOR PROGRAM-4	5	100.00	0.00
CPWELF4	SH34B-WELFARE HELPS PAY FOR PROGRAM-4	5	100.00	0.00
CPEMPL4	SH34C-EMPL HELPS PAY FOR PROGRAM-4	5	100.00	0.00
CPOTHER4	SH34D-OTHER HELPS PAY FOR PROGRAM-4.....	5	100.00	0.00
CPCSTHN3	SH36OV-# OF CHILDREN AMOUNT IS FOR-3.....	2	100.00	0.00
PCNUM	SK5-NUMBER OF ARRANGEMENTS SINCE SEPT	155	100.00	0.00
PCWHO1	SK6-WHO PROVIDED CARE OR PROGRAM-1	155	100.00	0.00
CSPEAK	PA6-LANG CHILD SPEAKS MOST AT HOME.....	9,583	99.99	100.00
RESRELN	PARENT R'S RELATIONSHIP TO CHILD	9,583	99.98	100.00
SEX2	O/HH MEM - #2'S SEX	4,363	99.98	100.00
CBORNUS	PA5-CHILD'S BIRTH COUNTRY.....	9,583	99.98	100.00
HOMESCHL	PB2-CHILD BEING SCHOOLED AT HOME	9,549	99.97	100.00
SEX	SEX	9,583	99.95	100.00
CPSNOW	SH1-CHILD ATTENDS CENTER-BASED PROGRAM	9,388	99.93	0.00
ASNOW	S11-PARTICIPATING IN ANY ACTIVITIES	9,388	99.93	0.00
SEX1	O/HH MEM - #1'S SEX	8,244	99.93	100.00
MOMTYPE	SPECIFIC RELATIONSHIP OF MOTHER TO CHILD	8,966	99.92	100.00
ASSPORT	S12B-SPORTS	4,682	99.91	0.00
ASOTHER	S12I-ANY OTHER ACTIVITIES	4,682	99.91	0.00
HDRETARD	PT5B-CHILD HAS MENTAL RETARDATION	9,583	99.90	0.00
ASARTS	S12A-ARTS.....	4,682	99.89	0.00
ASSCARTS	S12A-ACTIVITIES PROVIDED BY SCHOOL.....	1,866	99.89	0.00
ASWEEK	S13-ACTIVITIES REG SCHED ONCE/WEEK.....	4,682	99.89	0.00
AGE1	O/HH MEM - #1'S AGE	8,244	99.89	100.00
SEX3	O/HH MEM - #3'S SEX	1,847	99.89	100.00
SESUSEXP	SE5-CHILD EVER SUSPENDED/EXPELLED	9,398	99.88	0.00
NCNOW	SG1-RECEIVES CARE FROM A NONRELATIVE.....	9,388	99.88	0.00
PCOTHER	SK4-ANY OTHER ARRANGEMENTS SINCE SEPT	9,388	99.88	0.00
ASRELI	S12F-RELIGIOUS ACTIVITIES	4,682	99.87	0.00
ASSCOUT	S12G-SCOUTS.....	4,682	99.87	0.00
HDOTHER	PT5H_PT7E-HAS OTHR HLTH PROB 6 MOS/MORE	9,583	99.87	0.00
SESCHLWR	SE4-TCHRS CONTACT FAM RE SCH WORK PRBLMS	9,398	99.86	0.00
RCNOW	SF1-RECEIVES CARE FROM A RELATIVE	9,388	99.86	0.00
HDSPEECH	PT5C-CHILD HAS SPEECH IMPAIRMENT	9,583	99.86	0.00
HDDEAFIM	PT5E_PT7A-DEAFNESS/HEARING PROBLEM	9,583	99.86	0.00
RELATN2	O/HH MEM - #2'S RELATION TO CHILD.....	4,363	99.86	100.00
ASVOLUN	S12E-VOLUNTEER WORK	4,682	99.85	0.00
HDORTHO	PT5G_PT7C-ORTHOPEDIC IMPAIRMENT	9,583	99.85	0.00
SPUBLIC	SD1-CHILD ATTNDNS PUBL/PRIV SCHOOL	9,398	99.84	0.00
SEBEHAVR	SE3-TCHRS CONTACT FAM RE BEH PRBLMS	9,398	99.83	0.00
ASSCCLUB	S12C-ACTIVITIES PROVIDED BY SCHOOL	603	99.83	0.00
RCPLACE1	SF4-LOCATION OF RELATIVE CARE-1	1,708	99.82	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
ASBFAFT	SI5-ACTIVITIES BEF/AFTER SCHOOL	3,937	99.82	0.00
SSTRAMPM	SD9-TIME CHILD'S SCHOOL STARTS-AM/PM.....	9,398	99.81	0.00
ASACAD	SI2D-OTHER ACADEMIC ACTIVITIES.....	4,682	99.81	0.00
RELATN1	O/HH MEM - #1'S RELATION TO CHILD.....	8,244	99.81	100.00
HDBLNDIM	PT5F_PT7B-BLINDNESS/VISUAL PROBLEM.....	9,583	99.80	0.00
ASMONTH	SI4-ACTIVITIES REG SCHED ONCE/MONTH.....	964	99.79	0.00
DADTYPE	SPECIFIC RELATIONSHIP OF FATHER TO CHILD.....	7,113	99.79	100.00
HDDISTRB	PT5D-CHILD HAS EMOTIONAL DISTURBANCE.....	9,583	99.78	0.00
SCHOICE	SD2-SCHOOL ASSIGNED OR CHOSEN.....	8,265	99.76	0.00
ASCLUB	SI2C-CLUBS	4,682	99.74	0.00
SSTRTHR	SD9-TIME CHILD'S SCHOOL STARTS-HOURS.....	9,398	99.73	0.00
SENDAMPM	SD10-TIME CHILD'S SCHOOL ENDS-AM/PM	9,398	99.73	0.00
ASSCSPOR	SI2B-ACTIVITIES PROVIDED BY SCHOOL	3,310	99.73	0.00
RELATN3	O/HH MEM - #3'S RELATION TO CHILD.....	1,847	99.73	100.00
ASSCOTHR	SI2I-ACTIVITIES PROVIDED BY SCHOOL	353	99.72	0.00
CPPLACE2	SH4-LOCATION OF CENTER-BASED PROGRAM-2	343	99.71	0.00
SEREPEAT	SE6-CHILD HAS REPEATED A GRADE.....	9,398	99.70	0.00
SENDHR	SD10-TIME CHILD'S SCHOOL ENDS-HOURS	9,398	99.69	0.00
SSTRTMN	SD9-TIME CHILD'S SCHOOL STARTS-MINUTES.....	9,398	99.68	0.00
RCINHH1	SF5-REL CARE PROVIDER LIVES IN HH-1.....	931	99.68	33.33
AGE2	O/HH MEM - #2'S AGE	4,363	99.68	100.00
SENDMN	SD10-TIME CHILD'S SCHOOL ENDS-MINUTES.....	9,398	99.67	0.00
CPWEEK1	SH9-PROGRAM REG SCHED ONCE/WEEK-1	1,841	99.67	0.00
RCTYPE2	SF3-RELATIVE WHO CARES FOR CHILD-2	295	99.66	0.00
RCPLACE2	SF4-LOCATION OF RELATIVE CARE-2	295	99.66	0.00
DADAGE	FATHER'S AGE	7,113	99.66	100.00
SCATHLIC	SD5-CHILD ATTNDNS CATHOLIC SCHOOL.....	862	99.65	0.00
ASSCRELI	SI2F-ACTIVITIES PROVIDED BY SCHOOL	281	99.64	0.00
SEX5	O/HH MEM - #5'S SEX	278	99.64	100.00
CMOVEAGE	PA5OV-AGE WHEN CHILD MOVED TO US.....	537	99.63	100.00
SCSELF	SJ1-CHILD RESPONSIBLE FOR SELF	9,388	99.62	0.00
AGE3	O/HH MEM - #3'S AGE	1,847	99.62	100.00
HDAUTISM	PT6A-CHILD HAS AUTISM.....	9,583	99.61	0.00
CHISPAN	PA4-CHILD IS OF HISPANIC ORIGIN	9,583	99.61	100.00
RCFEE2	SF25-ANY FEE FOR REL CARE-2	236	99.58	0.00
RELATN4	O/HH MEM - #4'S RELATION TO CHILD.....	717	99.58	100.00
GRADEEQ	PB7-GRADE EQUIV/HOMESCHOOL SP ED/UNGRD	222	99.55	100.00
HDLEARN	PT5A-CHLD HAS LEARNING DISABILITY.....	9,583	99.53	0.00
NCWEEK1	SG8-NONREL CARE REG SCHED ONCE/WEEK-1	624	99.52	0.00
NCAGE1	SG18-CARE PROVIDER OVER 18 YRS OLD-1	606	99.50	0.00
NCADLTS1	SG20-# OF ADULTS GIVING NONREL CARE-1.....	606	99.50	0.00
NCLIKE1	SG23-DOES CHILD LIKE ARRANGEMENT-1	606	99.50	0.00
NCRELIA1	SG24C-RELIABILITY OF ARRANGEMENT-1	606	99.50	0.00
NCSAFTY1	SG24E-CHILD'S SAFETY IN ARRANGEMENT-1	606	99.50	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
HOMEALL	PB4-FULL OR PARTIAL HOMESCHOOL.....	195	99.49	0.00
HSTECHR	SC4-CHILDS HM INSTR BY PUB SCH TCHR.....	195	99.49	0.00
SRELGN	SD4-CHILD ATTNDS CHURCH RELATED SCHOOL.....	1,133	99.47	0.00
RESPAGE	PARENT RESPONDENT'S AGE.....	9,583	99.46	100.00
ASSCVOLU	SI2E-ACTIVITIES PROVIDED BY SCHOOL.....	902	99.45	0.00
SEREPT8	SE7-CHILD REPEATED 8TH GRADE.....	180	99.44	0.00
PPSAFETY	SM1-CHILD'S SAFETY.....	3,046	99.44	0.00
PPWANT	SM1-PARENT WANTS TO BE WITH CHILD.....	3,046	99.44	0.00
AGE4	O/HH MEM - #4'S AGE.....	717	99.44	100.00
MOMSPEAK	PU5-LANGUAGE SPOKEN MOST AT HOME BY MOM.....	9,223	99.43	100.00
CPSIGNU2	SH3-SIGNED UP FOR PARTIC DAYS/TIMES-2.....	343	99.42	0.00
MOMDIPL	PU8-MOM HAS HS DIPLOMA OR GED.....	4,166	99.42	100.00
CPPLACE1	SH4-LOCATION OF CENTER-BASED PROGRAM-1.....	1,841	99.40	0.00
CPAFRIE1	SH24-TALKING TO FRIENDS/SOCIALIZING-1.....	1,666	99.40	0.00
MOMAGE	MOTHER'S AGE.....	8,966	99.39	100.00
HNUMUSE	PW4-# OF OTHER PHONE NUMBERS/HOME USE.....	2,273	99.38	0.00
MOMLANG	PU4-FIRST LANGUAGE SPOKEN BY MOM.....	9,223	99.38	100.00
MOMBORN	PU6-COUNTRY MOM WAS BORN IN.....	9,223	99.38	100.00
RCTYPE1	SF3-RELATIVE WHO CARES FOR CHILD-1.....	1,708	99.36	0.00
RCWEEK1	SF9-REL CARE REG SCHED ONCE/WEEK-1.....	1,708	99.36	0.00
CPMONTH1	SH10-PROGRAM REG SCHED ONCE/MONTH-1.....	155	99.35	0.00
ASSCACAD	SI2D-ACTIVITIES PROVIDED BY SCHOOL.....	765	99.35	0.00
MOMENROL	PU16-MOM ENROLLED IN SCHOOL.....	9,223	99.34	0.00
DADLEAVE	PV9-DAD ON LEAVE OR VACATION LAST WEEK.....	458	99.34	0.00
DADSPEAK	PV4-LANGUAGE SPOKEN MOST AT HOME BY DAD.....	7,151	99.33	100.00
MOMWORK	PU9-MOM WORKED FOR PAY LAST WEEK.....	9,223	99.31	0.00
DADBORN	PV5-COUNTRY DAD WAS BORN IN.....	7,151	99.31	100.00
RCBFAFT1	SF8-REL CARE BEFORE/AFTER SCHOOL-1.....	1,708	99.30	0.00
CRACE	PA3-CHILD'S RACE.....	9,583	99.30	100.00
DADLANG	PV3-FIRST LANGUAGE SPOKEN BY DAD.....	7,151	99.30	100.00
CPBFAFT1	SH8-PROGRAM BEF/AFTER SCHOOL-1.....	1,841	99.29	0.00
HDADD	PT6B-CHILD HAS ADD OR ADHD.....	9,583	99.29	0.00
RELATN5	O/HH MEM - #5'S RELATION TO CHILD.....	278	99.28	100.00
DADPUBL	PV13-DAD CHECKED PUBLIC EMPLOY AGENCY.....	137	99.27	0.00
DADPRIV	PV13-DAD CHECKED PRIVATE EMPLOY AGENCY.....	137	99.27	0.00
DADEMP	PV13-DAD CHECKED W/EMPLOYER DIRECTLY.....	137	99.27	0.00
DADREL	PV13-DAD CHECKED W/FRIENDS/RELATIVES.....	137	99.27	0.00
DADANSAD	PV13-DAD PLACE/ANSWERD ADS/SENT RESUME.....	137	99.27	0.00
DADREAD	PV13-DAD READ WANT ADS.....	137	99.27	0.00
DADOTHER	PV13-DAD DID SOMETHING ELSE TO FIND WORK.....	137	99.27	0.00
CPLIKE1	SH31-DOES CHILD LIKE PROGRAM-1.....	1,757	99.26	0.00
MOMSTAT	PU1-MOTHER'S MARITAL STATUS.....	9,223	99.25	100.00
CPSIGNU1	SH3-SIGNED UP FOR PARTIC DAYS/TIMES-1.....	1,841	99.24	0.00
HOTHNUM	PW2-OTHER PHONE NUMBERS/HOME USE.....	9,583	99.23	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
PCMOMHM	SK2-MOTHER STAYS HOME	5,228	99.22	0.00
PCDADHM	SK2-FATHER STAYS HOME.....	5,228	99.22	0.00
PCNONRS	SK2-NONRESIDENT PARENT	5,228	99.22	0.00
PCSIB	SK2-BROTHER OR SISTER	5,228	99.22	0.00
PCRELA	SK2-REL CARE (NOT BROTHER OR SISTER)	5,228	99.22	0.00
PCNREL	SK2-NONRELATIVE CARE	5,228	99.22	0.00
PCSELF	SK2-CHILD TAKES CARE OF SELF.....	5,228	99.22	0.00
PCCENT	SK2-CENTER-BASED PROGRAM	5,228	99.22	0.00
PCMOMWK	SK2-MOTHER TAKES CHILD TO WORK	5,228	99.22	0.00
PCDADWK	SK2-FATHER TAKES CHILD TO WORK.....	5,228	99.22	0.00
PCSSEXHM	SK2-SAME SEX PARENT STAYS HOME	5,228	99.22	0.00
PCAROTH	SK2-OTHER	5,228	99.22	0.00
HDDOCTOR	PT8C-RECEIVES SERVICES FROM DR/CLINIC	2,096	99.19	0.00
HDSOURCE	PT8D-RECEIVES OTHER SERVICES	2,096	99.19	0.00
MOMLEAVE	PU10-MOM ON LEAVE OR VACATION LAST WEEK	2,831	99.19	0.00
DADWORK	PV8-DAD WORKED FOR PAY LAST WEEK	7,151	99.19	0.00
DADSTAT	PV1-FATHER'S MARITAL STATUS	7,151	99.19	100.00
HGOVCUR	PW15-FAMLY CUR RECVS MONEY FOR CH CARE	9,228	99.18	0.00
HFOODST	PW16B-FAMILY RECD FOOD STMP PST 12 MONTH.....	9,583	99.18	0.00
NCSPEAK1	SG21-LANGUAGE SPOKEN MOST BY NONREL-1	606	99.17	0.00
NCQUAL1	SG24A-QUALITY OF ACTIVITIES IN ARRNGMT-1.....	606	99.17	0.00
SSCHOMM	SD11-AMT TIME FROM HOME TO SCHOOL-MIN.....	9,398	99.16	0.00
RCADLTS2	SF20-NUM OF ADULTS GIVING REL CARE-2.....	236	99.15	0.00
RCRELIA2	SF24C-RELIABILITY OF ARRANGEMENT-2.....	236	99.15	0.00
RCSAFTY2	SF24E-CHILD'S SAFETY IN ARRANGEMENT-2	236	99.15	0.00
CPSPEAK1	SH22-LANG PROVIDER SPEAKS MOST W/CHILD-1.....	1,757	99.15	0.00
CPSAFTY1	SH32E-CHILD'S SAFETY IN PROGRAM-1	1,757	99.15	0.00
PPHWHP	SM9A-TIME FOR HOMEWORK.....	6,366	99.15	0.00
DADLOOK	PV12-DAD LOOKING FOR WORK PAST 4 WEEKS.....	354	99.15	0.00
RCKIDS2	SF19-NUM OF CHILDREN CARED FOR BY REL-2	236	99.15	50.00
HWIC	PW16A-FAMILY RECD WIC PAST 12 MONTHS.....	9,583	99.13	0.00
PPENRCH	SM9B-ENRICHMENT EDUCATION	6,366	99.12	0.00
PPENGL	SM9I-PROVIDER WHO SPEAKS ENGLISH W CHILD.....	6,366	99.12	0.00
DADENROL	PV15-DAD ENROLLED IN SCHOOL.....	7,151	99.11	0.00
CPDAYS1	SH11-# OF DAYS/WK ATTENDS PROGRAM-1	1,686	99.11	13.33
PPSPORT	SM9C-TIME FOR SPORTS/PHYSICAL ACTIVITIES.....	6,366	99.10	0.00
RCINHH2	SF5-REL CARE PROVIDER LIVES IN HH-2.....	111	99.10	100.00
NCAFRIE1	SG22-TALKING WITH FRIENDS/SOCIALIZING-1	547	99.09	0.00
HDSCHL	PT8A-RECEIVES SERVICES FROM SCHL DIST	2,096	99.09	0.00
HOWNHOM	PW1-OWN HOME, RENT, OR OTHER ARRNGMNT.....	9,583	99.08	0.00
NCTRANS1	SG24D-TRANSPORT TO/FROM ARRANGEMENT-1	432	99.07	0.00
ASDAYS	SI10-# OF DAYS/WK IN ACTIVITIES	3,718	99.06	0.00
MOMLOOK	PU13-MOM LOOKING FOR WORK PAST 4 WEEKS	2,661	99.06	0.00
MOMACTY	PU15-MOM'S ACTIVITY MOST OF LAST WEEK.....	2,421	99.05	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
NCBFAFT1	SG7-NONREL CARE BEFORE/AFTER SCHOOL-1	624	99.04	0.00
PPTRANS	SM9H-TRANSPORTATION TO ARRANGEMENT.....	6,366	99.04	0.00
CPSIB1	SH30-CHILD HAS A SIBLING AT PROGRAM-1.....	821	99.03	0.00
CPRELIA1	SH32C-RELIABILITY OF PROGRAM-1	1,757	99.03	0.00
PPCONV	SM9E-A CONVENIENT LOCATION.....	6,366	99.01	0.00
PPCOST	SM9F-A REASONABLE COST	6,366	99.01	0.00
CPBFRIE1	SH23-TALKING TO FRIENDS/SOCIALIZING-1	296	98.99	0.00
RCSPEAK1	SF21-LANGUAGE SPOKEN MOST BY REL-1	1,666	98.98	0.00
PPKNBEF	SM9K-KNOW PROVIDER BEFORE MAKING ARRANG.....	6,366	98.98	0.00
MOMLVEAS	PU19-MOM'S EASE OF LEAVING WORK	6,484	98.98	0.00
DADPART	PV2-FATHER'S PARTNER LIKE PARENT TO CHLD	295	98.98	100.00
CPPLACK2	SH5-PROGRAM AT SCHOOL CHILD ATTENDS-2	195	98.97	0.00
PPRELIA	SM9D-A RELIABLE ARRANGEMENT	6,366	98.96	0.00
PPNOWORK	SM1-PARENT DOESN'T WORK/SCHEDULE	3,046	98.95	0.00
PPDAYCAR	SM1-PARENT IS HOME DAY CARE PROVIDER	3,046	98.95	0.00
PPWORKHO	SM1-PARENT WORKS/STUDIES AT HOME.....	3,046	98.95	0.00
PPSPECL	SM1-CHILD HAS SPECIAL NEEDS.....	3,046	98.95	0.00
PPDEPEND	SM1-PARENT CARES FOR OTHER DEPENDENTS	3,046	98.95	0.00
PPBARR	SM1-COST/AVAILABILTY/TRANSPORTATION	3,046	98.95	0.00
PPHMWRK	SM1-HELP W/CHILD'S EDUCATION/HOMEWORK	3,046	98.95	0.00
PPCAREER	SM1-PARENT VIEWS STAYING HOME AS CAREER.....	3,046	98.95	0.00
PPBEST	SM1-PARENT CARE BEST FOR CHILD	3,046	98.95	0.00
PPRESPON	SM1-PARENTS ARE RESPONSIBLE FOR CARE.....	3,046	98.95	0.00
PPOTHER	SM1-OTHER REASON PARENT CARES FOR CHILD.....	3,046	98.95	0.00
HMEDIC	PW16C-FAMILY RECD MEDICAID PAST 12 MONTH	9,583	98.94	0.00
MOMCAROT	PU32-PRIM ARRNG COVERS ALL WORK/SCH HRS	6,768	98.94	2.78
RCSAFTY1	SF24E-CHILD'S SAFETY IN ARRANGEMENT-1	1,666	98.92	0.00
PPRELIG	SM1-RELIGIOUS REASONS.....	3,046	98.92	0.00
DADBIDAD	PV26-BIOLOGICAL DAD PROVIDES CARE.....	3,319	98.92	0.00
MOMGRADE	PU7-HIGHEST GRADE/YR MOM COMPLETED	9,223	98.92	100.00
NCAEDUC1	SG22-HOMEWORK/SCH-RELATED/EDUCATIONAL-1.....	547	98.90	0.00
NCACOMP1	SG22-COMPUTERS-1	547	98.90	0.00
NCAREAD1	SG22-READING/WRITING-1	547	98.90	0.00
NCAART1	SG22-ARTS-1	547	98.90	0.00
NCACHOR1	SG22-CHORES/WORK-1	547	98.90	0.00
NCAOUTP1	SG22-OUTDOOR PLAY/ACTIVITIES/SPORTS-1	547	98.90	0.00
NCAINPL1	SG22-INDOOR PLAY-1	547	98.90	0.00
NCAPHON1	SG22-TELEPHONE-1	547	98.90	0.00
NCAEAT1	SG22-EATING/SNACKS-1	547	98.90	0.00
NCATV1	SG22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-1	547	98.90	0.00
NCATALK1	SG22-TALKING TO PARENT/CARE PROVIDER-1	547	98.90	0.00
NCAOTHE1	SG22-OTHER-1.....	547	98.90	0.00
MOMCHOIC	PU18-CHLD CARE AFFECTED MOM'S JOB CHOICE.....	6,484	98.90	0.00
COTHRACE	PA3OV-CHILD IS HISP/MIXED RACE.....	1,459	98.90	100.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CDOBMM	PA1-MONTH OF BIRTH.....	9,583	98.89	0.00
ASHRS	SI12-# OF HRS/WK IN ACTIVITIES AFT SCH	3,656	98.88	0.00
ASCOVER	SI9-ACTIVITIES FOR ADULT SUPERVISION	3,718	98.87	0.00
RCRELIA1	SF24C-RELIABILITY OF ARRANGEMENT-1	1,666	98.86	0.00
RCKIDS1	SF19-NUM OF CHILDREN CARED FOR BY REL-1	1,666	98.86	5.26
NCAFFOR1	SG24B-AFFORABILITY OF ARRANGEMENT-1	606	98.84	0.00
NCFEE1	SG25-ANY FEE FOR NONRELATIVE CARE-1	606	98.84	0.00
CPPLACK1	SH5-PROGRAM AT SCHOOL CHILD ATTENDS-1	1,288	98.84	0.00
DADCHOIC	PV17-CHLD CARE AFFECTED DAD'S JOB CHOICE	6,684	98.83	0.00
PPKIDS	SM9G-A SMALL NUMBER OF CHILDREN IN GROUP	6,366	98.82	2.67
SEGRADES	SE1-CHILD'S GRADES ACROSS ALL SUBJECTS	9,398	98.81	0.00
NCEMPL1	SG26C-EMPL HELPS PAY FOR NONREL CARE-1	421	98.81	0.00
RCMONTH1	SF10-REL CARE REG SCHED ONCE/MONTH-1	82	98.78	0.00
CPINFOR2	SH28-PROGRAM INFORMS ABOUT ACTIVITIES-2	328	98.78	0.00
CPLIKE2	SH31-DOES CHILD LIKE PROGRAM-2	328	98.78	0.00
CPRELIA2	SH32C-RELIABILITY OF PROGRAM-2	328	98.78	0.00
CPSAFTY2	SH32E-CHILD'S SAFETY IN PROGRAM-2	328	98.78	0.00
CPREL2	SH34A-REL HELPS PAY FOR PROGRAM-2	164	98.78	0.00
CPWELF2	SH34B-WELFARE HELPS PAY FOR PROGRAM-2	164	98.78	0.00
CPEMPL2	SH34C-EMPL HELPS PAY FOR PROGRAM-2	164	98.78	0.00
CPOTHER2	SH34D-OTHER HELPS PAY FOR PROGRAM-2.....	164	98.78	0.00
HAFDC3YR	PW10-FAMLY RECD WELFARE IN PAST 3 YRS.....	9,583	98.78	0.00
MOMHOURS	PU11-HOURS PER WEEK MOM WORKS FOR PAY	6,484	98.77	0.00
CPAFT61	SH15-# OF HRS IN PROGRAM AFTER 6 PM-1	1,596	98.75	0.00
RCFEE1	SF25-ANY FEE FOR REL CARE-1	1,666	98.74	0.00
ASAFT6	SI14-NUM OF HRS IN ACTIVITIES AFTER 6 PM.....	3,656	98.74	0.00
RCQUAL2	SF24A-QUALITY OF ACTIVITIES IN ARRNGMT-2	236	98.73	0.00
HAFDCCUR	PW11-FAMLY CURRENTLY RECVS WELFARE	944	98.73	0.00
RCDAYS1	SF11-# OF DAYS/WK RECEIVES REL CARE-1	1,626	98.71	0.00
HGOVSINC	PW14-RECD CHILD CARE BENEFITS SINCE DATE.....	386	98.70	0.00
MOMMTHS	PU12-MONTHS MOM WORKED IN PAST YEAR.....	9,223	98.70	2.50
MOMCARE	PU26-PRIM ARRNG WHEN MOM AT WRK/SCH.....	6,768	98.70	9.09
PCPLACE1	SK7-CARE TOOK PLACE IN OWN/OTHER HOME-1	76	98.68	0.00
RCAEDUC1	SF22-HOMEWORK/SCH-RELATED/EDUCATIONAL-1	1,569	98.66	0.00
RCACOMP1	SF22-COMPUTERS-1	1,569	98.66	0.00
RCAREAD1	SF22-READING/WRITING-1	1,569	98.66	0.00
RCAART1	SF22-ARTS-1	1,569	98.66	0.00
RCACHOR1	SF22-CHORES/WORK-1	1,569	98.66	0.00
RCAOUTP1	SF22-OUTDOOR PLAY/ACTIVITIES/SPORTS-1	1,569	98.66	0.00
RCAINPL1	SF22-INDOOR PLAY-1	1,569	98.66	0.00
RCAEAT1	SF22-EATING/SNACKS-1	1,569	98.66	0.00
RCATV1	SF22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-1.....	1,569	98.66	0.00
RCATALK1	SF22-TALKING TO PARENT/CARE PROVIDER-1	1,569	98.66	0.00
RCAOTHE1	SF22-OTHER-1	1,569	98.66	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
DADMTHS	PV11-MONTHS DAD WORKED IN PAST YEAR	7,151	98.66	0.00
NCHOMM1	SG5-MINUTES TO GO TO NONREL'S HOME-1	443	98.65	0.00
DADDIPL	PV7-DAD HAS HS DIPLOMA OR GED	2,739	98.65	100.00
HCHIP	PW16D-FAMILY RECD CHIP PAST 12 MONTHS	9,583	98.64	0.00
CPQUAL1	SH32A-QUALITY OF ACTIVITIES IN PROGRAM-1	1,757	98.63	0.00
SCREACH	SJ15-CHILD CAN REACH PARENT AT WORK	1,755	98.63	0.00
SLOW	SD6-LOWEST GRADE AT CHILD'S SCHOOL	9,398	98.63	3.88
MOMNEW	PU3-MOM'S AGE WHEN FIRST BECAME A MOTHER	9,223	98.63	4.76
RCQUAL1	SF24A-QUALITY OF ACTIVITIES IN ARRNGMT-1	1,666	98.62	0.00
SCWEEK	SJ3-SELF-CARE REG SCHED ONCE/WK	1,817	98.62	0.00
RCAPHON1	SF22-TELEPHONE-1	1,569	98.60	0.00
SCRESIB	SJ10V-CHILD RESPONSIBLE FOR SIBLING	855	98.60	0.00
PPAWARE	SM3-AWARE OF BEFORE/AFTER SCH PROGRAMS	4,525	98.59	3.13
CPFEE1	SH33-ANY FEE FOR PROGRAM-1	1,757	98.58	0.00
NCREL1	SG26A-REL HELPS PAY FOR NONREL CARE-1	421	98.57	0.00
NCOTHER1	SG26D-OTHER HELPS PAY NONREL CARE-1	421	98.57	0.00
HDSGOVT	PT8B-RECEIVES ST/LOCL/SOCL SERVICES	2,096	98.57	0.00
NCWELF1	SG26B-WELFARE HELP PAY FOR NONREL CARE-1	421	98.57	16.67
DADLVEAS	PV18-DAD'S EASE OF LEAVING WORK	6,684	98.56	0.00
CPWEEK2	SH9-PROGRAM REG SCHED ONCE/WEEK-2	343	98.54	0.00
RCAFRIE1	SF22-TALKING WITH FRIENDS/SOCIALIZING-1	1,569	98.53	0.00
RCTRANS2	SF24D-TRANSPORT TO/FROM ARRANGEMENT-2	135	98.52	0.00
CPINFOR1	SH28-PROGRAM INFORMS ABOUT ACTIVITIES-1	1,757	98.52	0.00
MOMVOTEC	PU7OV-MOM HAS VOC/TECH DIPL	1,627	98.52	100.00
RCLIKE1	SF23-DOES CHILD LIKE ARRANGEMENT-1	1,666	98.50	0.00
NCBFAFT2	SG7-NONREL CARE BEFORE/AFTER SCHOOL-2	66	98.48	0.00
CPSPEAK2	SH22-LANG PROVIDER SPEAKS MOST W/CHILD-2	328	98.48	0.00
CPFEE2	SH33-ANY FEE FOR PROGRAM-2	328	98.48	0.00
NCDAYS1	SG10-# OF DAYS/WK RECEIVES NONREL CARE-1	590	98.47	0.00
RCHOMM1	SF6-MINUTES TO GO TO RELATIVE'S HOME-1	777	98.46	0.00
FAMTCRED	PV23-R HEARD OF CHILD CARE TAX CREDIT	7,151	98.45	0.90
CPHRSAF1	SH13-# OF HRS/WK AT PROGRAM AFTER SCH-1	1,596	98.43	8.00
SEREPTK	SE7-CHILD REPEATED KINDERGARTEN	885	98.42	0.00
SEREPT1	SE7-CHILD REPEATED 1ST GRADE	885	98.42	0.00
FAMTCREM	PU24-R HEARD OF CHILD CARE TAX CREDIT	9,223	98.42	0.00
RCTRANS1	SF24D-TRANSPORT TO/FROM ARRANGEMENT-1	754	98.41	0.00
MOMLIVW	PU10V-MOM CURRENTLY LIVING WITH PARTNER	1,177	98.39	100.00
SDISRCT	SD3-SCHOOL IN ASSIGNED SCH DISTRICT	1,174	98.38	0.00
RCAFT62	SF15-# OF HRS/WK REL CARE AFTER 6 PM-2	182	98.35	0.00
SHIGH	SD7-HIGHEST GRADE AT CHILD'S SCHOOL	9,398	98.35	3.87
SEREPT2	SE7-CHILD REPEATED 2ND GRADE	842	98.34	0.00
MOMGRAD2	PU7-ACTUAL GRADE 9-11 MOM COMPLETED	724	98.34	100.00
RCAFFOR1	SF24B-AFFORDABILITY OF ARRANGEMENT-1	1,666	98.32	0.00
RCREL1	SF26A-REL HELPS PAY FOR REL CARE-1	296	98.31	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCEMPL1	SF26C-EMPL HELPS PAY FOR REL CARE-1.....	296	98.31	0.00
RCOTHER1	SF26D-OTHER HELPS PAY REL CARE-1.....	296	98.31	0.00
SEREPT3	SE7-CHILD REPEATED 3RD GRADE	766	98.30	0.00
SEREPT4	SE7-CHILD REPEATED 4TH GRADE	700	98.29	0.00
CPHOMWK1	SH26-PROG SET ASIDE TIME TO DO HMWORK-1.....	1,757	98.29	0.00
SCBFAFT	SJ2-SELF-CARE BEF/AFT SCH.....	1,817	98.29	0.00
DADACTY	PV14-DAD'S ACTIVITY MOST OF LAST WEEK	346	98.27	0.00
CPAEDUC1	SH24-HOMEWORK/SCH-RELATED/EDUCATIONAL-1.....	1,666	98.26	0.00
CPACOMP1	SH24-COMPUTERS-1	1,666	98.26	0.00
CPAREAD1	SH24-READING/WRITING-1	1,666	98.26	0.00
CPAART1	SH24-ARTS-1	1,666	98.26	0.00
CPACHOR1	SH24-CHORES/WORK-1	1,666	98.26	0.00
CPAOUTP1	SH24-OUTDOOR PLAY/ACTIVITIES/SPORTS-1	1,666	98.26	0.00
CPAINPL1	SH24-INDOOR PLAY-1	1,666	98.26	0.00
CPAPHON1	SH24-TELEPHONE-1	1,666	98.26	0.00
CPAEAT1	SH24-EATING/SNACKS-1	1,666	98.26	0.00
CPATV1	SH24-TV/VIDEOS/VID GAMES/LIST TO MUSIC-1	1,666	98.26	0.00
CPATALK1	SH24-TALKING TO PARENT/CARE PROVIDER-1	1,666	98.26	0.00
CPAOTHE1	SH24-OTHER-1.....	1,666	98.26	0.00
CPREL1	SH34A-REL HELPS PAY FOR PROGRAM-1	961	98.23	0.00
MOMPART	PU2-MOTHER'S PARTNER LIKE PARENT.....	389	98.20	100.00
HGOVEVR	PW13-EVER RECD CHILD CARE BENEFITS	386	98.19	0.00
NCLIKE2	SG23-DOES CHILD LIKE ARRANGEMENT-2	55	98.18	0.00
NCQUAL2	SG24A-QUALITY OF ACTIVITIES IN ARRNGMT-2.....	55	98.18	0.00
NCAFFOR2	SG24B-AFFORABILITY OF ARRANGEMENT-2	55	98.18	0.00
NCRELIA2	SG24C-RELIABILITY OF ARRANGEMENT-2	55	98.18	0.00
NCSAFTY2	SG24E-CHILD'S SAFETY IN ARRANGEMENT-2	55	98.18	0.00
NCFEE2	SG25-ANY FEE FOR NONRELATIVE CARE-2	55	98.18	0.00
NCKIDS1	SG19-# OF CHILDREN CARED FOR BY NONREL-1	606	98.18	27.27
CPHOMWK2	SH26-PROG SET ASIDE TIME TO DO HMWORK-2.....	328	98.17	0.00
CPQUAL2	SH32A-QUALITY OF ACTIVITIES IN PROGRAM-2.....	328	98.17	0.00
SCDAYS	SJ5-# OF DAYS/WK IN SELF-CARE.....	1,693	98.17	0.00
PCMOST	SK3-BACKUP ARRANGEMENT USED MOST.....	5,228	98.16	0.00
CPSIGNU3	SH3-SIGNED UP FOR PARTIC DAYS/TIMES-3.....	54	98.15	0.00
CPPLACE3	SH4-LOCATION OF CENTER-BASED PROGRAM-3	54	98.15	0.00
CPBFAFT3	SH8-PROGRAM BEF/AFTER SCHOOL-3.....	54	98.15	0.00
CPWEEK3	SH9-PROGRAM REG SCHED ONCE/WEEK-3	54	98.15	0.00
SCAFRIE	SJ13-TALKING TO FRIENDS/SOCIALIZING	1,612	98.14	0.00
CPWELF1	SH34B-WELFARE HELPS PAY FOR PROGRAM-1	961	98.13	0.00
SCLIKE	SJ16-DOES CHILD LIKE THE ARRANGEMENT	1,755	98.12	0.00
CPSPEAK3	SH22-LANG PROVIDER SPEAKS MOST W/CHILD-3.....	53	98.11	0.00
CPPHYS3	SH25-TIME FOR PHYSICAL ACTIVITIES-3	53	98.11	0.00
CPHOMWK3	SH26-PROG SET ASIDE TIME TO DO HMWORK-3.....	53	98.11	0.00
CPCMPOP3	SH27-OPPTY TO USE COMPUTER AT PROGRAM-3	53	98.11	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPINFOR3	SH28-PROGRAM INFORMS ABOUT ACTIVITIES-3	53	98.11	0.00
CPFRND3	SH29-CHLD HAS CLOSE FRIENDS AT PROGRAM-3	53	98.11	0.00
CPLIKE3	SH31-DOES CHILD LIKE PROGRAM-3	53	98.11	0.00
CPQUAL3	SH32A-QUALITY OF ACTIVITIES IN PROGRAM-3	53	98.11	0.00
CPAFFOR3	SH32B-AFFORDABILITY OF PROGRAM-3	53	98.11	0.00
CPRELIA3	SH32C-RELIABILITY OF PROGRAM-3	53	98.11	0.00
CPTRANS3	SH32D-TRANSPORTATION TO/FROM PROGRAM-3.....	53	98.11	0.00
CPSAFTY3	SH32E-CHILD'S SAFETY IN PROGRAM-3	53	98.11	0.00
CPFEE3	SH33-ANY FEE FOR PROGRAM-3	53	98.11	0.00
CPAEDUC3	SH24-HOMEWORK/SCH-RELATED/EDUCATIONAL-3.....	52	98.08	0.00
CPACOMP3	SH24-COMPUTERS-3	52	98.08	0.00
CPAREAD3	SH24-READING/WRITING-3	52	98.08	0.00
CPAART3	SH24-ARTS-3	52	98.08	0.00
CPACHOR3	SH24-CHORES/WORK-3	52	98.08	0.00
CPAOUTP3	SH24-OUTDOOR PLAY/ACTIVITIES/SPORTS-3	52	98.08	0.00
CPAINPL3	SH24-INDOOR PLAY-3	52	98.08	0.00
CPAPHON3	SH24-TELEPHONE-3	52	98.08	0.00
CPAEAT3	SH24-EATING/SNACKS-3	52	98.08	0.00
CPATV3	SH24-TV/VIDEOS/VID GAMES/LIST TO MUSIC-3.....	52	98.08	0.00
CPATALK3	SH24-TALKING TO PARENT/CARE PROVIDER-3	52	98.08	0.00
CPAFRIE3	SH24-TALKING TO FRIENDS/SOCIALIZING-3	52	98.08	0.00
CPAOTHE3	SH24-OTHER-3.....	52	98.08	0.00
RCSCMM1	SF7-MIN TO GO FROM SCH TO REL'S HOME-1	777	98.07	0.00
CPCHAGE1	SH21-AGE OF THE CHILDREN IN PROGRAM-1	1,757	98.06	0.00
DADGRADE	PV6-HIGHEST GRADE/YR SCH DAD COMPLETED	7,151	98.06	100.00
SEREPT6	SE7-CHILD REPEATED 6TH GRADE	513	98.05	0.00
SEREPT7	SE7-CHILD REPEATED 7TH GRADE	359	98.05	0.00
PACHOOSE	SL5-WOULD CHOOSE NON-PARENTAL CARE	4,160	98.05	0.00
SEREPT5	SE7-CHILD REPEATED 5TH GRADE	604	98.01	0.00
NCAFRIE2	SG22-TALKING WITH FRIENDS/SOCIALIZING-2	50	98.00	0.00
MOMCARWH	PU33-SECONDARY ARRNG WHEN MOM AT WRK/SCH	2,953	98.00	6.78
MOMPUBL	PU14-MOM CHECKED PUBLIC EMPLOY AGENCY	399	97.99	0.00
MOMPRIV	PU14-MOM CHECKED PRIVATE EMPLOY AGENCY	399	97.99	0.00
MOMEMPL	PU14-MOM CHECKED W/EMPLOYER DIRECTLY	399	97.99	0.00
MOMREL	PU14-MOM CHECKED W/FRIENDS/RELATIVES.....	399	97.99	0.00
MOMANSAD	PU14-MOM PLACED/ANSWERD ADS/SENT RESUME	399	97.99	0.00
MOMREAD	PU14-MOM READ WANT ADS.....	399	97.99	0.00
MOMOTHER	PU14-MOM DID SOMETHING ELSE TO FIND WORK	399	97.99	0.00
RCDAYS2	SF11-# OF DAYS/WK RECEIVES REL CARE-2	197	97.97	0.00
CPDAYS3	SH11-# OF DAYS/WK ATTENDS PROGRAM-3	49	97.96	0.00
SCAHOMI	SJ12-LOCATION/OWN HOME INSIDE	1,612	97.95	0.00
SCAHOMO	SJ12-LOCATION/OWN HOME OUTSIDE	1,612	97.95	0.00
SCARELA	SJ12-LOCATION/A RELATIVE'S HOME.....	1,612	97.95	0.00
SCAFRND	SJ12-LOCATION/A FRIEND'S HOME.....	1,612	97.95	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
SCANEIG	SJ12-LOCATION/A NEIGHBOR'S HOME.....	1,612	97.95	0.00
SCAPUBL	SJ12-LOCATION/A PUBLIC PLACE.....	1,612	97.95	0.00
SCACENT	SJ12-LOCATION/A COMMUNITY CENTER.....	1,612	97.95	0.00
SCAOUT	SJ12-LOCATION/OUTDOORS.....	1,612	97.95	0.00
SCASCHL	SJ12-LOCATION/A SCHOOL.....	1,612	97.95	0.00
SCAPLOTH	SJ12-LOCATION/OTHER.....	1,612	97.95	0.00
CPAFT63	SH15-# OF HRS IN PROGRAM AFTER 6 PM-3.....	48	97.92	0.00
RCADLTS1	SF20-NUM OF ADULTS GIVING REL CARE-1.....	1,666	97.90	2.86
SEGRADEQ	SE2-RATING OF CHILD'S SCHOOL WORK.....	2,169	97.88	0.00
RCAFFOR2	SF24B-AFFORDABILITY OF ARRANGEMENT-2.....	236	97.88	0.00
CPPHYS2	SH25-TIME FOR PHYSICAL ACTIVITIES-2.....	328	97.87	0.00
CPAFFOR2	SH32B-AFFORDABILITY OF PROGRAM-2.....	328	97.87	0.00
AGE7	O/HH MEM - #7'S AGE.....	47	97.87	100.00
CPAFFOR1	SH32B-AFFORDABILITY OF PROGRAM-1.....	1,757	97.84	0.00
RCSCMM2	SF7-MIN TO GO FROM SCH TO REL'S HOME-2.....	184	97.83	0.00
SCAEDUC	SJ13-HOMEWORK/SCH-RELATED/EDUCATIONAL.....	1,612	97.83	0.00
SCACOMP	SJ13-COMPUTERS.....	1,612	97.83	0.00
SCAREAD	SJ13-READING/WRITING.....	1,612	97.83	0.00
SCAART	SJ13-ARTS.....	1,612	97.83	0.00
SCACHOR	SJ13-CHORES/WORK.....	1,612	97.83	0.00
SCAOUTPL	SJ13-OUTDOOR PLAY/ACTIVITIES/SPORTS.....	1,612	97.83	0.00
SCAINPLA	SJ13-INDOOR PLAY.....	1,612	97.83	0.00
SCAPHON	SJ13-TELEPHONE.....	1,612	97.83	0.00
SCAEAT	SJ13-EATING/SNACKS.....	1,612	97.83	0.00
SCATV	SJ13-TV/VIDEOS/VID GAMES/LISTEN TO MUSIC.....	1,612	97.83	0.00
SCATALK	SJ13-TALKING TO PARENT/CARE PROVIDER.....	1,612	97.83	0.00
SCAOTHER	SJ13-OTHER.....	1,612	97.83	0.00
CPEMPL1	SH34C-EMPL HELPS PAY FOR PROGRAM-1.....	961	97.81	0.00
CPOTHER1	SH34D-OTHER HELPS PAY FOR PROGRAM-1.....	961	97.81	0.00
DADHOURS	PV10-HOURS PER WEEK DAD WORKS FOR PAY.....	6,684	97.80	0.00
NCSCMM2	SG6-MIN FROM SCH TO NONREL'S HOME-2.....	45	97.78	0.00
DADBIMOM	PV25-BIOLOGICAL MOM PROVIDES CARE.....	854	97.78	0.00
CPAFRIE2	SH24-TALKING TO FRIENDS/SOCIALIZING-2.....	310	97.74	0.00
PPOPTION	SM6-MORE THAN ONE OPTION.....	5,228	97.74	0.00
RCAEDUC2	SF22-HOMEWORK/SCH-RELATED/EDUCATIONAL-2.....	220	97.73	0.00
RCACOMP2	SF22-COMPUTERS-2.....	220	97.73	0.00
RCAREAD2	SF22-READING/WRITING-2.....	220	97.73	0.00
RCAART2	SF22-ARTS-2.....	220	97.73	0.00
RCACHOR2	SF22-CHORES/WORK-2.....	220	97.73	0.00
RCAOUTP2	SF22-OUTDOOR PLAY/ACTIVITIES/SPORTS-2.....	220	97.73	0.00
RCAINPL2	SF22-INDOOR PLAY-2.....	220	97.73	0.00
RCAPHON2	SF22-TELEPHONE-2.....	220	97.73	0.00
RCAEAT2	SF22-EATING/SNACKS-2.....	220	97.73	0.00
RCATV2	SF22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-2.....	220	97.73	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCATALK2	SF22-TALKING TO PARENT/CARE PROVIDER-2.....	220	97.73	0.00
RCAFRIE2	SF22-TALKING WITH FRIENDS/SOCIALIZING-2.....	220	97.73	0.00
RCAOTHE2	SF22-OTHER-2.....	220	97.73	0.00
CPHOMM2	SH6-MINUTES TO GO FROM HOME TO PROGRAM-2.....	176	97.73	0.00
CPDAYS2	SH11-# OF DAYS/WK ATTENDS PROGRAM-2.....	304	97.70	0.00
RCWELF1	SF26B-WELFARE HELPS PAY FOR REL CARE-1.....	296	97.64	0.00
DADLIVW	PV10V-DAD CURRENTLY LIVING WITH PARTNER.....	423	97.64	100.00
CPSIB2	SH30-CHILD HAS A SIBLING AT PROGRAM-2.....	168	97.62	0.00
CPHOMM1	SH6-MINUTES TO GO FROM HOME TO PROGRAM-1.....	624	97.60	0.00
HDAFFECT	PT10-DISABILITY AFFECTS ABILITY TO LEARN.....	2,096	97.57	0.00
NCDAYS2	SG10-# OF DAYS/WK RECEIVES NONREL CARE-2.....	41	97.56	0.00
NCAFT61	SG14-# OF HRS NONREL CARE AFTER 6 PM-1.....	531	97.55	0.00
CPAFT62	SH15-# OF HRS IN PROGRAM AFTER 6 PM-2.....	286	97.55	0.00
NCSCMM1	SG6-MIN FROM SCH TO NONREL'S HOME-1.....	443	97.52	0.00
AGE5	O/HH MEM - #5'S AGE.....	278	97.48	100.00
CPMONTH2	SH10-PROGRAM REG SCHED ONCE/MONTH-2.....	39	97.44	0.00
CPAEDUC2	SH24-HOMEWORK/SCH-RELATED/EDUCATIONAL-2.....	310	97.42	0.00
CPACOMP2	SH24-COMPUTERS-2.....	310	97.42	0.00
CPAREAD2	SH24-READING/WRITING-2.....	310	97.42	0.00
CPAART2	SH24-ARTS-2.....	310	97.42	0.00
CPACHOR2	SH24-CHORES/WORK-2.....	310	97.42	0.00
CPAOUTP2	SH24-OUTDOOR PLAY/ACTIVITIES/SPORTS-2.....	310	97.42	0.00
CPAINPL2	SH24-INDOOR PLAY-2.....	310	97.42	0.00
CPAPHON2	SH24-TELEPHONE-2.....	310	97.42	0.00
CPAEAT2	SH24-EATING/SNACKS-2.....	310	97.42	0.00
CPATV2	SH24-TV/VIDEOS/VID GAMES/LIST TO MUSIC-2.....	310	97.42	0.00
CPATALK2	SH24-TALKING TO PARENT/CARE PROVIDER-2.....	310	97.42	0.00
CPAOTHE2	SH24-OTHER-2.....	310	97.42	0.00
CPBFAFT2	SH8-PROGRAM BEF/AFTER SCHOOL-2.....	343	97.38	0.00
PWRKHOME	PV27-PARENT WLD STOP/REDUCE WORK IF ABLE.....	8,751	97.33	0.00
RCBFAFT2	SF8-REL CARE BEFORE/AFTER SCHOOL-2.....	295	97.29	0.00
NCTRANS2	SG24D-TRANSPORT TO/FROM ARRANGEMENT-2.....	36	97.22	0.00
CPHRWK1	SH18-# OF HRS/WK IN PROGRAM-1.....	71	97.18	0.00
PPLANG	SM9J-PROVIDER WHO SPEAKS CHLD'S LANGUAGE.....	426	97.18	50.00
DADGRAD2	PV6-ACTUAL GRADE 9-11 DAD COMPLETED.....	480	97.08	100.00
RCAGE2	SF30V-AGE OF RELATIVE CAREGIVER-2.....	295	96.95	0.00
CPFRND2	SH29-CHLD HAS CLOSE FRIENDS AT PROGRAM-2.....	328	96.95	0.00
RCAGE1	SF30V-AGE OF RELATIVE CAREGIVER-1.....	1,708	96.90	0.00
CPPLACK3	SH5-PROGRAM AT SCHOOL CHILD ATTENDS-3.....	32	96.88	0.00
SCAFT6	SJ8-# OF HRS IN SELF-CARE AFTER 6 PM.....	1,550	96.84	0.00
SCMONTH	SJ4-SELF-CARE REG SCHED ONCE/MONTH.....	124	96.77	0.00
MOMGRAD1	PU7-ACTUAL GRADE 0-8 MOM COMPLETED.....	517	96.71	100.00
RCWEEK3	SF9-REL CARE REG SCHED ONCE/WEEK-3.....	30	96.67	0.00
PPACHOIC	SM8-GOOD CHOICES FOR AFTER SCH CARE.....	6,366	96.67	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPCMPOP2	SH27-OPPTY TO USE COMPUTER AT PROGRAM-2	328	96.65	0.00
CPPHYS1	SH25-TIME FOR PHYSICAL ACTIVITIES-1	1,757	96.53	0.00
NCHRSBF1	SG11-# OF HRS/WK NONREL CARE BEF SCH-1	230	96.52	0.00
PPDIFCLT	SM5-DIFFICULTY FINDING CARE.....	5,228	96.52	0.00
CPFRND1	SH29-CHLD HAS CLOSE FRIENDS AT PROGRAM-1	1,757	96.47	0.00
CPREL3	SH34A-REL HELPS PAY FOR PROGRAM-3	28	96.43	0.00
CPWELF3	SH34B-WELFARE HELPS PAY FOR PROGRAM-3	28	96.43	0.00
CPEMPL3	SH34C-EMPL HELPS PAY FOR PROGRAM-3	28	96.43	0.00
CPOTHER3	SH34D-OTHER HELPS PAY FOR PROGRAM-3.....	28	96.43	0.00
MOMUSAGE	PU6OV-AGE WHEN MOM MOVED TO US.....	1,729	96.41	100.00
MOMARELA	PU28-OTHER ARRNG RELATIVE TYPE.....	191	96.34	0.00
SCOVRLP	SJ14-SELF-CARE OVERLAPS W/ACTIVITIES	267	96.25	0.00
NCHRSAF1	SG12-# OF HRS/WK NONREL CARE AFTER SCH-1.....	531	96.23	0.00
CPADLTS3	SH20-# OF ADULTS IN GROUP AT PROGRAM-3.....	53	96.23	0.00
RCHRSAF2	SF13-# OF HRS/WK REL CARE AFTER SCHOOL-2.....	182	96.15	0.00
CPSCMM3	SH7-MINUTES TO GO FROM SCH TO PROGRAM-3.....	26	96.15	0.00
CPHRSAF2	SH13-# OF HRS/WK AT PROGRAM AFTER SCH-2	286	96.15	0.00
MOMWLDSC	PU23-MOM WLD ATTEND SCHOOL IF CARE AVAIL	1,921	96.15	0.00
AGE8	O/HH MEM - #8'S AGE	26	96.15	100.00
MOMWLDWK	PU22-MOM WLD WORK IF CARE AVAILABLE.....	2,088	96.12	2.47
NCAEDUC2	SG22-HOMEWORK/SCH-RELATED/EDUCATIONAL-2.....	50	96.00	0.00
NCACOMP2	SG22-COMPUTERS-2	50	96.00	0.00
NCAREAD2	SG22-READING/WRITING-2.....	50	96.00	0.00
NCAART2	SG22-ARTS-2.....	50	96.00	0.00
NCACHOR2	SG22-CHORES/WORK-2	50	96.00	0.00
NCAOUTP2	SG22-OUTDOOR PLAY/ACTIVITIES/SPORTS-2.....	50	96.00	0.00
NCAINPL2	SG22-INDOOR PLAY-2	50	96.00	0.00
NCAPHON2	SG22-TELEPHONE-2.....	50	96.00	0.00
NCAEAT2	SG22-EATING/SNACKS-2	50	96.00	0.00
NCATV2	SG22-TV/VIDEOS/VID GAMES/LIST TO MUSIC-2.....	50	96.00	0.00
NCATALK2	SG22-TALKING TO PARENT/CARE PROVIDER-2	50	96.00	0.00
NCAOTHE2	SG22-OTHER-2.....	50	96.00	0.00
PCWHO2	SK6-WHO PROVIDED CARE OR PROGRAM-2.....	25	96.00	0.00
CPBEDUC1	SH23-HOMEWORK/SCH-RELATED/EDUCATIONAL-1.....	296	95.95	0.00
CPBCOMP1	SH23-COMPUTERS-1	296	95.95	0.00
CPBREAD1	SH23-READING/WRITING-1	296	95.95	0.00
CPBART1	SH23-ARTS-1.....	296	95.95	0.00
CPBCHOR1	SH23-CHORES/WORK-1	296	95.95	0.00
CPBOUTP1	SH23-OUTDOOR PLAY/ACTIVITIES/SPORTS-1	296	95.95	0.00
CPBINPL1	SH23-INDOOR PLAY-1	296	95.95	0.00
CPBPON1	SH23-TELEPHONE-1	296	95.95	0.00
CPBEAT1	SH23-EATING/SNACKS-1	296	95.95	0.00
CPBTV1	SH23-TV/VIDEOS/VID GAMES/LIST TO MUSIC-1.....	296	95.95	0.00
CPBTALK1	SH23-TALKING TO PARENT/CARE PROVIDER-1	296	95.95	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPBOTHE1	SH23-OTHER-1.....	296	95.95	0.00
CPCMPOP1	SH27-OPPTY TO USE COMPUTER AT PROGRAM-1	1,757	95.90	0.00
RCKIDS3	SF19-NUM OF CHILDREN CARED FOR BY REL-3	24	95.83	0.00
RCADLTS3	SF20-NUM OF ADULTS GIVING REL CARE-3.....	24	95.83	0.00
RCSPEAK3	SF21-LANGUAGE SPOKEN MOST BY REL-3	24	95.83	0.00
RCLIKE3	SF23-DOES CHILD LIKE ARRANGEMENT-3.....	24	95.83	0.00
RCQUAL3	SF24A-QUALITY OF ACTIVITIES IN ARRNGMT-3	24	95.83	0.00
RCRELIA3	SF24C-RELIABILITY OF ARRANGEMENT-3	24	95.83	0.00
RCSAFTY3	SF24E-CHILD'S SAFETY IN ARRANGEMENT-3	24	95.83	0.00
RCFEE3	SF25-ANY FEE FOR REL CARE-3	24	95.83	0.00
CPWKMO2	SH16-# OF WKS/MO IN PROGRAM-2.....	24	95.83	0.00
CPDAYWK2	SH17-# OF DAYS/WK IN PROGRAM-2.....	24	95.83	0.00
CPHRWK2	SH18-# OF HRS/WK IN PROGRAM-2.....	24	95.83	0.00
AGE6	O/HH MEM - #6'S AGE	120	95.83	100.00
RCAFT61	SF15-# OF HRS/WK REL CARE AFTER 6 PM-1	1,533	95.76	0.00
CPCHAGE2	SH21-AGE OF THE CHILDREN IN PROGRAM-2	328	95.73	0.00
CPTRANS2	SH32D-TRANSPORTATION TO/FROM PROGRAM-2.....	327	95.72	0.00
SCHRSAF	SJ7-# OF HRS/WK IN SELF-CARE AFT SCH.....	1,550	95.55	0.00
PPREFER	SM2-MOST PREFERRED ARRANGEMENT	6,366	95.54	0.00
CPHRSBF1	SH12-# OF HRS/WK AT PROGRAM BEFORE SCH-1	291	95.53	7.69
RCHRSAF1	SF13-# OF HRS/WK REL CARE AFTER SCHOOL-1	1,533	95.37	0.00
PPCHOIC	SM7-GOOD CHOICES FOR BEFORE SCH CARE	6,366	95.33	0.00
RCHOMM3	SF6-MINUTES TO GO TO RELATIVE'S HOME-3	21	95.24	0.00
RCSCMM3	SF7-MIN TO GO FROM SCH TO REL'S HOME-3	21	95.24	0.00
RCCSTHH2	SF28-AMOUNT FOR CHILD ONLY OR OTHERS-2.....	21	95.24	0.00
NCINHH1	SG4-NONREL CARE PROVIDER LIVES IN HH-1	181	95.03	88.89
RCDAYWK1	SF17-# OF DAYS/WK RECEIVES REL CARE-1	40	95.00	0.00
MOMENHRS	PU17-HOURS MOM IN SCHOOL PER WEEK	975	94.97	2.04
CPTRANS1	SH32D-TRANSPORTATION TO/FROM PROGRAM-1.....	1,751	94.92	0.00
DADWLDWK	PV21-DAD WLD WORK IF CARE AVAILABLE.....	314	94.90	0.00
RCHRWK2	SF18-# OF HRS/WK RECEIVES REL CARE-2	39	94.87	0.00
HNIFSP	PT9-RECEIVES SERVICES THRU IFSP/IEP	1,634	94.80	0.00
FAMTCUSM	PU25-HH USED CHLD CARE TAX CREDIT 2000.....	5,046	94.75	0.00
CPSCMM1	SH7-MINUTES TO GO FROM SCH TO PROGRAM-1.....	624	94.71	0.00
NCHRSAF2	SG12-# OF HRS/WK NONREL CARE AFTER SCH-2.....	37	94.59	0.00
FAMTCUSD	PV24-HH USED CHILD CARE TAX CREDIT 2000	4,089	94.55	0.00
DADVOTEC	PV6OV-DAD HAS VOC/TECH DIPL	954	94.45	100.00
RCHRSAF3	SF13-# OF HRS/WK REL CARE AFTER SCHOOL-3.....	18	94.44	0.00
RCAFT63	SF15-# OF HRS/WK REL CARE AFTER 6 PM-3.....	18	94.44	0.00
CPKIDS3	SH19-# OF CHILDREN IN GROUP AT PROGRAM-3.....	53	94.34	33.33
MOMBRELA	PU35-SECONDARY ARRNG RELATIVE TYPE.....	210	94.29	0.00
PCSTRTY1	SK8-YEAR PREVIOUS ARRANGEMENT BEGAN-1	155	94.19	0.00
MOMAHOUS	PU27-OTHER PARENT LIVES IN HH.....	582	94.16	79.41
PAAFRIE	SL4-TALKING TO FRIENDS/SOCIALIZING	4,635	94.07	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPADLTS1	SH20-# OF ADULTS IN GROUP AT PROGRAM-1	1,757	93.91	8.41
HINCMRNG	PW17- TOTAL HH INCOME BELOW/ABOVE \$25K.....	9,583	93.77	0.00
NCWKMO1	SG15-# OF WKS/MO RECEIVES NONREL CARE-1	16	93.75	0.00
NCHRWK1	SG17-# OF HRS/WK RECEIVES NONREL CARE-1	16	93.75	0.00
CPHRSAF3	SH13-# OF HRS/WK AT PROGRAM AFTER SCH-3	48	93.75	0.00
PCPLACE2	SK7-CARE TOOK PLACE IN OWN/OTHER HOME-2	16	93.75	0.00
PAAHOME	SL2-PARENT AT HOME AFTER SCHOOL	4,635	93.70	0.00
PAAHMIN	SL3-LOCATION/OWN HOME INSIDE	4,635	93.59	0.00
PAAHMOUT	SL3-LOCATION/OWN HOME OUTSIDE	4,635	93.59	0.00
PAAEDUC	SL4-HOMEWORK/SCH-RELATED/EDUCATIONAL	4,635	93.59	0.00
PAACOMP	SL4-COMPUTERS.....	4,635	93.59	0.00
PAAREAD	SL4-READING/WRITING.....	4,635	93.59	0.00
PAAART	SL4-ARTS	4,635	93.59	0.00
PAACHOR	SL4-CHORES/WORK.....	4,635	93.59	0.00
PAAOUTPL	SL4-OUTDOOR PLAY/ACTIVITIES/SPORTS.....	4,635	93.59	0.00
PAAINPLA	SL4-INDOOR PLAY	4,635	93.59	0.00
PAAPHON	SL4-TELEPHONE.....	4,635	93.59	0.00
PAAEAT	SL4-EATING/SNACKS	4,635	93.59	0.00
PAATV	SL4-TV/VIDEOS/VID GAMES/LISTEN TO MUSIC	4,635	93.59	0.00
PAATALK	SL4-TALKING TO PARENT/CARE PROVIDER	4,635	93.59	0.00
PAAACTIV	SL4-BEFORE OR AFTER SCH ACTIVITIES	4,635	93.59	0.00
PAAOTHER	SL4-OTHER	4,635	93.59	0.00
PAARELA	SL3-LOCATION/A RELATIVE'S HOME.....	4,635	93.57	0.00
PAAFRND	SL3-LOCATION/A FRIEND'S HOME.....	4,635	93.57	0.00
PAANEIG	SL3-LOCATION/A NEIGHBOR'S HOME.....	4,635	93.57	0.00
PAAPUBL	SL3-LOCATION/A PUBLIC PLACE.....	4,635	93.57	0.00
PAACENT	SL3-LOCATION/A COMMUNITY CENTER	4,635	93.57	0.00
PAAOUT	SL3-LOCATION/OUTDOORS.....	4,635	93.57	0.00
PAASCHL	SL3-LOCATION/A SCHOOL.....	4,635	93.57	0.00
PAAPLOTH	SL3-LOCATION/OTHER	4,635	93.57	0.00
CPBFRIE2	SH23-TALKING TO FRIENDS/SOCIALIZING-2	31	93.55	0.00
RCAGE3	SF30V-AGE OF RELATIVE CAREGIVER-3.....	30	93.33	0.00
RCBFAFT3	SF8-REL CARE BEFORE/AFTER SCHOOL-3.....	30	93.33	0.00
RCTRANS3	SF24D-TRANSPORT TO/FROM ARRANGEMENT-3.....	15	93.33	0.00
CPDAYWK1	SH17-# OF DAYS/WK IN PROGRAM-1	71	92.96	0.00
PCSTRTM1	SK8-MONTH PREVIOUS ARRANGEMENT BEGAN-1	155	92.90	0.00
NCDAYWK2	SG16-# OF DAYS/WK RECEIVES NONREL CARE-2	14	92.86	0.00
CPSIB3	SH30-CHILD HAS A SIBLING AT PROGRAM-3.....	28	92.86	0.00
CPSCMM2	SH7-MINUTES TO GO FROM SCH TO PROGRAM-2.....	176	92.61	0.00
CPCHAGE3	SH21-AGE OF THE CHILDREN IN PROGRAM-3	53	92.45	0.00
HINCM50K	PW18-TOTAL HH INCOME BELOW/ABOVE \$50K.....	7,237	92.41	0.00
DADWLDSC	PV22-DAD WLD ATTEND SCHOOL IF CARE AVAIL.....	288	92.36	4.55
RCDAYWK2	SF17-# OF DAYS/WK RECEIVES REL CARE-2	39	92.31	0.00
PCREASN1	SK9-REASON PREVIOUS ARRANGEMENT ENDED-1	155	92.26	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCHRSBF1	SF12-# OF HRS/WK REL CARE BEF SCHOOL-1	610	92.13	0.00
PABHOME	SL1-PARENT AT HOME BEFORE SCHOOL	7,488	92.12	0.00
DADUSAGE	PV5OV-AGE WHEN DAD MOVED TO US	1,430	92.10	100.00
DADENHRS	PV16-HOURS DAD IN SCHOOL PER WEEK.....	440	92.05	2.86
PCSTRTY2	SK8-YEAR PREVIOUS ARRANGEMENT BEGAN-2	25	92.00	0.00
PCSTRTM2	SK8-MONTH PREVIOUS ARRANGEMENT BEGAN-2	25	92.00	0.00
PCREASN2	SK9-REASON PREVIOUS ARRANGEMENT ENDED-2	25	92.00	0.00
CPADLTS2	SH20-# OF ADULTS IN GROUP AT PROGRAM-2	328	91.77	11.11
RCAFFOR3	SF24B-AFFORDABILITY OF ARRANGEMENT-3	24	91.67	0.00
CPSIGNU4	SH3-SIGNED UP FOR PARTIC DAYS/TIMES-4	12	91.67	0.00
CPPLACE4	SH4-LOCATION OF CENTER-BASED PROGRAM-4	12	91.67	0.00
CPBFAFT4	SH8-PROGRAM BEF/AFTER SCHOOL-4.....	12	91.67	0.00
CPWEEK4	SH9-PROGRAM REG SCHED ONCE/WEEK-4	12	91.67	0.00
CPKIDS4	SH19-# OF CHILDREN IN GROUP AT PROGRAM-4.....	12	91.67	0.00
CPADLTS4	SH20-# OF ADULTS IN GROUP AT PROGRAM-4	12	91.67	0.00
CPCHAGE4	SH21-AGE OF THE CHILDREN IN PROGRAM-4	12	91.67	0.00
CPSPEAK4	SH22-LANG PROVIDER SPEAKS MOST W/CHILD-4.....	12	91.67	0.00
CPPHYS4	SH25-TIME FOR PHYSICAL ACTIVITIES-4	12	91.67	0.00
CPHOMWK4	SH26-PROG SET ASIDE TIME TO DO HMWORK-4.....	12	91.67	0.00
CPCMPOP4	SH27-OPPTY TO USE COMPUTER AT PROGRAM-4	12	91.67	0.00
CPINFOR4	SH28-PROGRAM INFORMS ABOUT ACTIVITIES-4	12	91.67	0.00
CPFRND4	SH29-CHLD HAS CLOSE FRIENDS AT PROGRAM-4	12	91.67	0.00
CPLIKE4	SH31-DOES CHILD LIKE PROGRAM-4	12	91.67	0.00
CPQUAL4	SH32A-QUALITY OF ACTIVITIES IN PROGRAM-4	12	91.67	0.00
CPAFFOR4	SH32B-AFFORDABILITY OF PROGRAM-4	12	91.67	0.00
CPRELIA4	SH32C-RELIABILITY OF PROGRAM-4	12	91.67	0.00
CPTRANS4	SH32D-TRANSPORTATION TO/FROM PROGRAM-4.....	12	91.67	0.00
CPSAFTY4	SH32E-CHILD'S SAFETY IN PROGRAM-4	12	91.67	0.00
CPFEE4	SH33-ANY FEE FOR PROGRAM-4	12	91.67	0.00
SCHRSBF	SJ6-# OF HRS/WK IN SELF-CARE BEF SCH.....	709	91.54	0.00
DADGRAD1	PV6-ACTUAL GRADE 0-8 DAD COMPLETED	413	91.53	100.00
SNUMSTUD	SD8-NUMBER OF STDTS AT CHILD'S SCHOOL	9,398	91.47	0.00
ABSHRS	SI11-# OF HRS/WK IN ACTIVITIES BEF SCH.....	316	91.46	0.00
NCCOST1	SG27-AMT HH PAYS FOR NONREL CARE-1	421	91.21	0.00
HSTOPYY	PW12-YEAR STOPPED RECEIVING WELFARE	386	91.19	0.00
CPDAYS4	SH11-# OF DAYS/WK ATTENDS PROGRAM-4	11	90.91	0.00
CPHRSAF4	SH13-# OF HRS/WK AT PROGRAM AFTER SCH-4	11	90.91	0.00
CPAFT64	SH15-# OF HRS IN PROGRAM AFTER 6 PM-4	11	90.91	0.00
CPAEDUC4	SH24-HOMEWORK/SCH-RELATED/EDUCATIONAL-4.....	11	90.91	0.00
CPACOMP4	SH24-COMPUTERS-4	11	90.91	0.00
CPAREAD4	SH24-READING/WRITING-4.....	11	90.91	0.00
CPAART4	SH24-ARTS-4.....	11	90.91	0.00
CPACHOR4	SH24-CHORES/WORK-4	11	90.91	0.00
CPAOUTP4	SH24-OUTDOOR PLAY/ACTIVITIES/SPORTS-4.....	11	90.91	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CPAINPL4	SH24-INDOOR PLAY-4	11	90.91	0.00
CPAPHON4	SH24-TELEPHONE-4	11	90.91	0.00
CPAEAT4	SH24-EATING/SNACKS-4	11	90.91	0.00
CPATV4	SH24-TV/VIDEOS/VID GAMES/LIST TO MUSIC-4	11	90.91	0.00
CPATALK4	SH24-TALKING TO PARENT/CARE PROVIDER-4	11	90.91	0.00
CPAFRIE4	SH24-TALKING TO FRIENDS/SOCIALIZING-4	11	90.91	0.00
CPAOTHE4	SH24-OTHER-4	11	90.91	0.00
NCUNIT1	SG27-UNIT OF TIME/NONREL CARE COST-1	404	90.84	0.00
MOMBHOUS	PU34-SEC ARR PARENT LIVES IN HH	505	90.69	48.94
RCCOST2	SF27-AMT HH PAYS FOR REL CARE-2	32	90.63	66.67
NCCOST2	SG27-AMT HH PAYS FOR NONREL CARE-2	21	90.48	0.00
NCUNIT2	SG27-UNIT OF TIME/NONREL CARE COST-2	21	90.48	0.00
NCINHH2	SG4-NONREL CARE PROVIDER LIVES IN HH-2	21	90.48	50.00
CPBEDUC2	SH23-HOMEWORK/SCH-RELATED/EDUCATIONAL-2	31	90.32	0.00
CPBCOMP2	SH23-COMPUTERS-2	31	90.32	0.00
CPBREAD2	SH23-READING/WRITING-2	31	90.32	0.00
CPBART2	SH23-ARTS-2	31	90.32	0.00
CPBCHOR2	SH23-CHORES/WORK-2	31	90.32	0.00
CPBOUTP2	SH23-OUTDOOR PLAY/ACTIVITIES/SPORTS-2	31	90.32	0.00
CPBINPL2	SH23-INDOOR PLAY-2	31	90.32	0.00
CPBPON2	SH23-TELEPHONE-2	31	90.32	0.00
CPBEAT2	SH23-EATING/SNACKS-2	31	90.32	0.00
CPBTV2	SH23-TV/VIDEOS/VID GAMES/LIST TO MUSIC-2	31	90.32	0.00
CPBTALK2	SH23-TALKING TO PARENT/CARE PROVIDER-2	31	90.32	0.00
CPBOTHE2	SH23-OTHER-2	31	90.32	0.00
HOMSCHR	PB5-HRS/WK HOMESCHOOLED CHILD IN SCHOOL	31	90.32	33.33
CPCOST1	SH35-AMOUNT HH PAYS FOR PROGRAM-1	961	90.22	0.00
NCCSTHH1	SG28-AMOUNT FOR CHILD ONLY OR OTHERS-1	293	90.10	0.00
RCDAYS3	SF11-# OF DAYS/WK RECEIVES REL CARE-3	20	90.00	0.00
RCUNIT2	SF27-UNIT OF TIME/REL CARE COST-2	30	90.00	66.67
CPUNIT1	SH35-UNIT OF TIME/PROGRAM COST-1	915	89.84	0.00
SCOVRRH	SJ14OV-HRS SELF-CARE OVERLAPS ACTIV	78	89.74	25.00
MOMACUSE	PU21-MOM USES EMPL CARE ACCOUNT	1,860	89.52	0.00
HINCOME	PW18-TOTAL HH INCOME RANGE	9,583	89.29	0.00
MOMACCT	PU20-MOM'S EMPL HAS CARE ACCOUNT	6,484	89.02	0.00
CPKIDS2	SH19-# OF CHILDREN IN GROUP AT PROGRAM-2	328	89.02	8.33
RCHRSBF2	SF12-# OF HRS/WK REL CARE BEF SCHOOL-2	63	88.89	0.00
NCCSTHN1	SG28OV-# OF CHILDREN AMOUNT IS FOR-1	160	88.13	0.00
SNUMGRAD	SD80V-NUMBER OF STDTS IN CHILD'S GRADE	200	88.00	8.33
RCCOST1	SF27-AMT HH PAYS FOR REL CARE-1	296	87.84	13.89
RCCSTHH1	SF28-AMOUNT FOR CHILD ONLY OR OTHERS-1	221	87.78	11.11
ASWKMO	SF6-# OF WKS/MO IN ACTIVITIES	219	87.67	0.00
RCWKMO1	SF16-# OF WKS/MO RECEIVES REL CARE-1	40	87.50	0.00
RCUNIT1	SF27-UNIT OF TIME/REL CARE COST-1	288	87.50	13.89

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCCSTHN1	SF28OV-# OF CHILDREN AMOUNT IS FOR-1	120	87.50	20.00
ASDAYWK	SI7-# OF DAYS/WK IN ACTIVITIES	219	86.76	0.00
CPHRSBF2	SH12-# OF HRS/WK AT PROGRAM BEFORE SCH-2.....	30	86.67	0.00
ASHRWK	SI8-# OF HRS/WK IN ACTIVITIES	219	85.84	0.00
HSPAPLCU	SC2OVC-USED PUB SCH SPRT-PLCE FOR PRNTS.....	42	85.71	0.00
NCCSTHH2	SG28-AMOUNT FOR CHILD ONLY OR OTHERS-2.....	14	85.71	0.00
CPPLACK4	SH5-PROGRAM AT SCHOOL CHILD ATTENDS-4	7	85.71	0.00
HSACTVSU	SC2OVG-USED PUB SCH SPRT-PARTIC IN SPRT.....	82	85.37	0.00
PCENDYY1	SK8-YEAR PREVIOUS ARRANGEMENT ENDED-1	155	84.52	4.17
CPKIDS1	SH19-# OF CHILDREN IN GROUP AT PROGRAM-1.....	1,757	84.35	8.73
CPCOST2	SH35-AMOUNT HH PAYS FOR PROGRAM-2.....	164	84.15	0.00
PCENDYY2	SK8-YEAR PREVIOUS ARRANGEMENT ENDED-2	25	84.00	0.00
PPOBSTCL	SM4-OBSTACLE TO BEF/AFT SCH PROGRAM.....	2,706	83.78	0.00
CPUNIT2	SH35-UNIT OF TIME/PROGRAM COST-2.....	153	83.66	0.00
HSTOPMM	PW12-MONTH STOPPED RECEIVING WELFARE.....	386	83.42	0.00
PCENDMM1	SK8-MONTH PREVIOUS ARRANGEMENT ENDED-1	155	83.23	3.85
CPWKMO1	SH16-# OF WKS/MO IN PROGRAM-1	71	83.10	0.00
DADACCT	PV19-DAD'S EMPL HAS CARE ACCOUNT	6,684	82.85	0.00
DADACUSE	PV20-DAD USES EMPL CARE ACCOUNT.....	1,511	82.06	0.00
HSACTVS	SC2G-PUB SCH SPRT-CHLD CAN PARTIC SPRTS	195	82.05	0.00
SCDAYWK	SJ10-# OF DAYS/WK IN SELF-CARE.....	62	80.65	0.00
SCHRWK	SJ11-# OF HRS/WK IN SELF-CARE.....	62	80.65	0.00
CPCSTHN1	SH36OV-# OF CHILDREN AMOUNT IS FOR-1.....	51	80.39	0.00
HSSTPLC	SC2E-PUB SCH SPRT-PLCE HM SCH STDT MEET	195	80.00	0.00
PCENDMM2	SK8-MONTH PREVIOUS ARRANGEMENT ENDED-2	25	80.00	0.00
HSPAPLC	SC2C-PUB SCH SPRT OFFR PRNT PLCE W/INFO	195	79.49	0.00
CPCSTHH1	SH36-AMOUNT FOR CHILD ONLY OR OTHERS-1	568	79.05	0.00
HSSTPLCU	SC2OVE-USED PUB SCH SPRT-PLACE FOR STDT.....	38	78.95	0.00
MOMAWEEK	PU29-ARRNG REG SCHED ONCE/WEEK	253	78.66	0.00
NCHRWK2	SG17-# OF HRS/WK RECEIVES NONREL CARE-2.....	14	78.57	0.00
CPCOST3	SH35-AMOUNT HH PAYS FOR PROGRAM-3.....	28	78.57	0.00
CPUNIT3	SH35-UNIT OF TIME/PROGRAM COST-3.....	27	77.78	0.00
MOMADAYS	PU30-# DAYS EACH WK IN OTHER ARRNG	206	77.18	0.00
RCWKMO2	SF16-# OF WKS/MO RECEIVES REL CARE-2	39	76.92	0.00
HSSTWEBU	SC2OVF-USED PUB SCH SPRT-WEB SITE STDT.....	24	75.00	0.00
RCWKMO3	SF16-# OF WKS/MO RECEIVES REL CARE-3	4	75.00	0.00
NCCSTHN2	SG28OV-# OF CHILDREN AMOUNT IS FOR-2.....	8	75.00	0.00
HSMATLS	SC2B-PUB SCH SPRT-OFFER BOOK/MATLS	195	74.36	0.00
MOMAHRS	PU31-# HRS EACH WK IN OTHER ARRNG	206	74.27	0.00
MOMBWEEK	PU36-SEC ARRNG REG SCHED ONCE/WEEK	331	73.72	0.00
SCWKMO	SJ9-# OF WKS/MO IN SELF-CARE.....	62	72.58	5.88
HSSTWEB	SC2F-PUB SCH SPRT-WEB SITE HM SCH STDTS.....	195	72.31	0.00
HSMATLSU	SC2OVB-USED PUB SCH SPRT-BOOKS/MATLS	61	72.13	0.00
HSCURRU	SC2OVA-USED PUB SCH SPRT-CURRICULA	56	71.43	0.00

See note at end of table.

**Table 6-2. Item response rates for items on the public use data file: ASPA-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
RCHRSBF3	SF12-# OF HRS/WK REL CARE BEF SCHOOL-3	7	71.43	0.00
NCWKMO2	SG15-# OF WKS/MO RECEIVES NONREL CARE-2	14	71.43	0.00
MOMBDAYS	PU37-# DAYS EACH WK IN SEC ARRNG	272	71.32	0.00
HSPAWEB	SC2D-PUB SCH SPRT-WEB SITE HM SCH PRNTS	195	70.26	0.00
HSATTND	SC3-PUB SCH OFFER CHILD CHNC ATTND CLASS	164	69.51	0.00
MOMBHRS	PU38-# HRS EACH WEEK IN SEC ARRNG	272	69.49	0.00
HSCURR	SC2A-PUB SCH SPRT-DETAILED CURRICULUM	195	69.23	0.00
HINCMEXT	PW18OV-EXACT HH INC TO NEAREST \$1000	1,827	67.76	0.34
CPCSTHH2	SH36-AMOUNT FOR CHILD ONLY OR OTHERS-2	96	67.71	0.00
HSPAWEBU	SC2OVD-USED PUB SCH SPRT-WEB SITE PRNTS	40	67.50	0.00
CPCOST4	SH35-AMOUNT HH PAYS FOR PROGRAM-4	5	60.00	0.00
CPCSTHH3	SH36-AMOUNT FOR CHILD ONLY OR OTHERS-3	17	58.82	0.00
CPBEDUC4	SH23-HOMEWORK/SCH-RELATED/EDUCATIONAL-4	2	50.00	0.00
CPBCOMP4	SH23-COMPUTERS-4	2	50.00	0.00
CPBREAD4	SH23-READING/WRITING-4	2	50.00	0.00
CPBART4	SH23-ARTS-4	2	50.00	0.00
CPBCHOR4	SH23-CHORES/WORK-4	2	50.00	0.00
CPBOUTP4	SH23-OUTDOOR PLAY/ACTIVITIES/SPORTS-4	2	50.00	0.00
CPBINPL4	SH23-INDOOR PLAY-4	2	50.00	0.00
CPBPON4	SH23-TELEPHONE-4	2	50.00	0.00
CPBEAT4	SH23-EATING/SNACKS-4	2	50.00	0.00
CPBTV4	SH23-TV/VIDEOS/VID GAMES/LIST TO MUSIC-4	2	50.00	0.00
CPBTALK4	SH23-TALKING TO PARENT/CARE PROVIDER-4	2	50.00	0.00
CPBFRIE4	SH23-TALKING TO FRIENDS/SOCIALIZING-4	2	50.00	0.00
CPBOTHE4	SH23-OTHER-4	2	50.00	0.00
CPUNIT4	SH35-UNIT OF TIME/PROGRAM COST-4	4	50.00	0.00
CPCSTHN2	SH36OV-# OF CHILDREN AMOUNT IS FOR-2	4	50.00	0.00
CPCSTHH4	SH36-AMOUNT FOR CHILD ONLY OR OTHERS-4	3	33.33	0.00
CPHRSBF4	SH12-# OF HRS/WK AT PROGRAM BEFORE SCH-4	1	0.00	0.00
RCCOST3	SF27-AMT HH PAYS FOR REL CARE-3	1	0.00	100.00
RCUNIT3	SF27-UNIT OF TIME/REL CARE COST-3	1	0.00	100.00

SOURCE: U.S. Department of Education, National Center for Education Statistics, Before- and After-School Programs and Activities (ASPA) Survey of the National Household Education Surveys Program (NHES), 2001.

Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
SEX4	O/HH MEM - #4'S GENDER AT SCREENER	914	100.00	0.00
SEX5	O/HH MEM - #5'S GENDER AT SCREENER	317	100.00	0.00
SEX6	O/HH MEM - #6'S GENDER AT SCREENER	116	100.00	0.00
SEX7	O/HH MEM - #7'S GENDER AT SCREENER	34	100.00	0.00
SEX8	O/HH MEM - #8'S GENDER AT SCREENER	16	100.00	0.00
AGE9	O/HH MEM - #9'S AGE AT SCREENER	7	100.00	0.00
SEX9	O/HH MEM - #9'S GENDER AT SCREENER	7	100.00	0.00
AGE10	O/HH MEM - #10'S AGE AT SCREENER	2	100.00	0.00
SEX10	O/HH MEM - #10'S GENDER AT SCREENER	2	100.00	0.00
ESINCBK	AB14-TUITON & FEES INCLUDE BOOKS/MTLS	12	100.00	0.00
BSCHIL	AC5A-HELP CHILDREN WITH SCHOOL WORK	197	100.00	0.00
BSPUBAST	AC5E-MEET REQ MNT FOR PUBLIC ASSISTANCE	197	100.00	0.00
BSPROVEM	AC7-INSTRUCTION PROVIDER WAS EMPLOYER	140	100.00	0.00
CRTYASC	AD2-TYPE OF PRGM-ASSOCIATE'S DEGREE	1,140	100.00	0.00
CRTYBCH	AD2-TYPE OF PRGM-BACHELOR'S DEGREE	1,140	100.00	0.00
CRTYMAS	AD2-TYPE OF PRGM-MASTER'S DEGREE	1,140	100.00	0.00
CRTYDOC	AD2-TYPE OF PRGM-DOCTORATE	1,140	100.00	0.00
CRTYPRF	AD2-TYPE OF PRGM-PROFESSIONAL DEGREE	1,140	100.00	0.00
CRTYOTH	AD2-TYPE OF PRGM-ANOTHER DEGREE	1,140	100.00	0.00
CRPOSBAC	AD4-POST-BACCALAUREATE CERTIFICATE	122	100.00	0.00
CRPOSMAS	AD4-POST-MASTER'S CERTIFICATE	122	100.00	0.00
CRPOSDOC	AD4-POST-DOCTORAL CERTIFICATE	122	100.00	0.00
CRCIPF1	MAJOR FIELD OF STUDY-1	1,188	100.00	0.00
CRCIPF2	MAJOR FIELD OF STUDY-2	120	100.00	0.00
CRCIPF3	MAJOR FIELD OF STUDY-3	8	100.00	0.00
CREXAM3	AD8-TOOK EXAM TO GET CERT/LICENSE-3	5	100.00	0.00
CRCERMO3	AD10-RECEIVED CERT BEFORE LAST YEAR-3	5	100.00	0.00
CRFACUL2	AD15-MEMBER OF FACULTY-2	21	100.00	0.00
CRFACUL3	AD15-MEMBER OF FACULTY-3	1	100.00	0.00
CRASSIS1	AD16-ASSTSHIP/FLWSHIP/WORK STUDY-1	87	100.00	0.00
CRASSIS2	AD16-ASSTSHIP/FLWSHIP/WORK STUDY-2	10	100.00	0.00
CRCLSHR2	AD21-TOTAL CLASSROOM HRS-2	6	100.00	0.00
CRINOTH1	AD22E-INSTR BY OTHER TECHNOLOGY-1	1,166	100.00	0.00
CRINOTH2	AD22E-INSTR BY OTHER TECHNOLOGY-2	116	100.00	0.00
CRINOTH3	AD22E-INSTR BY OTHER TECHNOLOGY-3	8	100.00	0.00
VOVOC	AE2-TYPE OF PRGM-VOCATIONAL DIPLOMA	249	100.00	0.00
VOTECH	AE2-TYPE OF PRGM-TECHNICAL DIPLOMA	249	100.00	0.00
VOASSOC	AE2-TYPE OF PRGM-ASSOCIATE'S DEGREE	249	100.00	0.00
VOOTHDIP	AE2-TYPE OF PRGM-ANOTHER DIPLOMA	249	100.00	0.00
VOCIPF1	MAJOR FIELD OF STUDY-1	249	100.00	0.00
VOCIPF2	MAJOR FIELD OF STUDY-2	11	100.00	0.00
VOREAS2	AE4-PRGM FOR WORK OR PERSONAL REASONS-2	11	100.00	0.00
VOCERT1	AE5-GET/KEEP CERTIFICATE/LICENSE-1	249	100.00	0.00
VOCERT2	AE5-GET/KEEP CERTIFICATE/LICENSE-2	11	100.00	0.00
VOEXAM1	AE6-TOOK EXAM TO GET CERT/LICENSE-1	118	100.00	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
VOEXAM2	AE6-TOOK EXAM TO GET CERT/LICENSE-2.....	6	100.00	0.00
VOCERMO1	AE8-RECEIVED CERT BEFORE LAST YEAR-1	118	100.00	0.00
VOCERMO2	AE8-RECEIVED CERT BEFORE LAST YEAR-2	6	100.00	0.00
VOSTRTM2	AE9-VOCA START MONTH-2	11	100.00	0.00
VOPROVE1	AE12-INSTRUCTION PROVIDER WAS EMPLOYER-1	205	100.00	0.00
VOPROVE2	AE12-INSTRUCTION PROVIDER WAS EMPLOYER-2	9	100.00	0.00
VOFACUL1	AE13-MEMBER OF FACULTY-1	28	100.00	0.00
VOFACUL2	AE13-MEMBER OF FACULTY-2	1	100.00	0.00
VOASSIS1	AE14-ASSTSHIP/FLWSHIP/WORK STUDY-1	18	100.00	0.00
VOPTFT2	AE15-ENROLLED PART-TIME/FULL-TIME/BOTH-2.....	11	100.00	0.00
VOCRSNU2	AE17-NUMBER OF COURSES TOOK IN PRGM-2.....	11	100.00	0.00
VOCLSHR1	AE19-TOTAL CLASSROOM HRS-1	1	100.00	0.00
VOINTV1	AE20A-INSTR BY TV/VIDEO/RADIO-1.....	244	100.00	0.00
VOINTV2	AE20A-INSTR BY TV/VIDEO/RADIO-2.....	11	100.00	0.00
VOINCOM2	AE20B-INSTR BY COMPUTER-2.....	11	100.00	0.00
VOINCON2	AE20C-INSTR BY COMPUTER CONFERENCING-2.....	11	100.00	0.00
VOINOTH1	AE20E-INSTR BY OTHER TECHNOLOGY-1	244	100.00	0.00
VOINOTH2	AE20E-INSTR BY OTHER TECHNOLOGY-2	11	100.00	0.00
VOTECHN2	AE21-NUMBER COURSES USED TECHNOLOGY-2.....	9	100.00	0.00
VOTECHP2	AE22-PERCENT INSTR TECHNOLGY USE-2.....	9	100.00	0.00
VOTUITO2	AE23A-PERSONAL EXPENSE FOR TUITION/FEE-2	11	100.00	0.00
VOMATLS2	AE23B-PERSONAL EXPENSE FOR BKS/MTLS-2	11	100.00	0.00
VOINCBK1	AE24-TUITION/FEE INCLUDE BOOKS/MTLS-1	61	100.00	0.00
VOINCBK2	AE24-TUITION/FEE INCLUDE BOOKS/MTLS-2.....	1	100.00	0.00
VOWORK2	AE25-WORK WHILE TAKING PRGM-2	9	100.00	0.00
VOEMPRE2	AE26-EMPLOYER REQUIRED TO TAKE PRGM-2	7	100.00	0.00
VOEMPSU2	AE27-EMPLOYER SUGGESTED TO TAKE PRGM-2	4	100.00	0.00
VOWRKPL2	AE28-TOOK PRGM AT WORKPLACE-2.....	7	100.00	0.00
VOWRKHR2	AE29-TOOK PRGM DURING WORK HRS-2	7	100.00	0.00
VOEMPAI2	AE30-BEING PAID WHILE TAKING PRGM-2	7	100.00	0.00
VOEMPTU2	AE31A-EMPLOYER PAID TUITION/FEE-2	7	100.00	0.00
VOEMPMA2	AE31B-EMPLOYER PAID BOOKS/MTLS-2	7	100.00	0.00
APEMPLOY	AF3A-EMPLOYER PROVIDED	135	100.00	0.00
APINCBK	AF9-TUITION/FEE INCLUDE BOOKS/MTRLS.....	26	100.00	0.00
WRCRS3	COURSE CODE-3.....	1,125	100.00	0.00
WRCRS4	COURSE CODE-4.....	625	100.00	0.00
WRINOTH3	AH8E-INSTR BY OTHER TECHNOLOGY-3.....	1,125	100.00	0.00
WRINOTH4	AH8E-INSTR BY OTHER TECHNOLOGY-4.....	625	100.00	0.00
WRINCBK3	AH12-TUITION/FEE INCLUDE BOOKS/MTLS-3.....	139	100.00	0.00
WRINCBK4	AH12-TUITION/FEE INCLUDE BOOKS/MTLS-4.....	68	100.00	0.00
WREMPSU4	AH15-EMPLOYER SUGGESTED TO TAKE COURSE-4.....	296	100.00	0.00
WROTIME	AH20D-EMPLOYER GAVE TIME OFF WITH PAY	315	100.00	0.00
SACRS2	PERSONAL INTEREST COURSE CODE-2.....	870	100.00	0.00
SAREAS1	REASON TAKING PERSONAL INTEREST COURSE-1.....	2,679	100.00	0.00
SAREAS2	REASON TAKING PERSONAL INTEREST COURSE-2.....	870	100.00	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
SAPROVE2	AI3-INSTRUCTION PROVIDER WAS EMPLOYER-2.....	584	100.00	0.00
SAINOTH2	AI7E-INSTR BY OTHER TECHNOLOGY-2	870	100.00	0.00
SAWORK2	AI11-WORK WHILE TAKING COURSE-2	584	100.00	0.00
SAWRKPL2	AI12-TOOK COURSE AT WORKPLACE-2	504	100.00	0.00
SAOTECH	AI16E-TAUGHT BY USING TECHNOLOGY	307	100.00	0.00
HGOVSINC	AL14-RECD CHILD CARE BENEFITS SINCE DTE	136	100.00	0.00
CRDEGREE	AD1-COL OR UNIV DEGREE PROGRAM	10,873	99.99	0.00
SEX	GENDER AT SCREENER.....	10,873	99.99	100.00
SEX1	O/HH MEM - #1'S GENDER AT SCREENER	8,076	99.99	100.00
IBWORK12	AA6-WORK AT JOB IN PAST 12 MONTHS.....	10,873	99.97	0.00
CRVOC DIP	AE1-VOCATIONAL OR TECHNICAL DIPLOMA PRGM	10,873	99.96	0.00
SEX3	O/HH MEM - #3'S GENDER AT SCREENER	2,351	99.96	100.00
WRCRS1	COURSE CODE-1.....	3,764	99.95	0.00
WRCRS2	COURSE CODE-2.....	2,010	99.95	0.00
WRRSSKI2	AH2A-MAINTAIN OR IMPROVE SKILLS/KNOWDG-2.....	2,010	99.95	0.00
WRINTV2	AH8A-INSTR BY TV, VIDEO, OR RADIO-2	2,010	99.95	0.00
WRINCOM2	AH8B-INSTR BY COMPUTER-2	2,010	99.95	0.00
WRINOTH1	AH8E-INSTR BY OTHER TECHNOLOGY-1	3,764	99.95	0.00
WRINOTH2	AH8E-INSTR BY OTHER TECHNOLOGY-2.....	2,010	99.95	0.00
IBSPEAK	AA11-LANGUAGE SPOKEN MOST AT HOME NOW	10,873	99.95	100.00
ESLANG	AB1-TOOK ESL CLASSES	1,636	99.94	0.00
FCACTY	AG1-TOOK ANY COURSES	10,873	99.94	0.00
SEX2	O/HH MEM - #2'S GENDER AT SCREENER	4,129	99.93	100.00
IBSELFEM	AA7-SELF-EMPLOYED IN THE PAST 12 MONTHS	7,879	99.92	0.00
IBLANG	AA10-FIRST LANGUAGE LEARNED TO SPEAK.....	10,873	99.91	100.00
IBUSDIPL	AA2OV-RECEIVED HS DIPLOMA/GED IN U.S.	6,000	99.90	0.00
IBDIPLYR	AA3-HS DIPLOMA/GED IN LAST 12 MONTHS.....	6,000	99.90	0.00
BSHSEQUV	AC1C-OTHER HS EQUIVALENCY PROGRAM.....	2,058	99.90	0.00
WRREAS2	REASON FOR TAKING WORK-RELATED COURSE-2.....	2,009	99.90	0.00
WRNWSKI2	AH2B-LEARN NEW SKILLS OR METHODS-2	2,010	99.90	0.00
WRRSRAI2	AH2C-GET A RAISE OR PROMOTION-2.....	2,010	99.90	0.00
WRRSOTH2	AH2G-SOME OTHER REASON-2	2,010	99.90	0.00
WRINWWW2	AH8D-INSTR BY INTERNET/WWW-2.....	2,010	99.90	0.00
APPRENTI	AF1-APPRENTICESHIP PROGRAM	10,873	99.89	0.00
SACRS1	PERSONAL INTEREST COURSE CODE-1	2,682	99.89	0.00
SAINOTH1	AI7E-INSTR BY OTHER TECHNOLOGY-1	2,682	99.89	0.00
WRPROVE2	AH4-INSTRUCTION PROVIDER WAS EMPLOYER-2	1,799	99.89	50.00
FCACTOTH	AG2-TOOK ANY OTHER COURSES	6,926	99.88	25.00
ESEVER	AB22-EVER TAKEN ESL CLASSES	1,484	99.87	0.00
IBDIPL	AA2-HAS HS DIPLOMA/GED	4,709	99.87	100.00
BSIMPROV	AC1A-BASIC SKILLS CLASSES	2,058	99.85	0.00
WRCURR2	AH1-CURRENTLY TAKING COURSE-2.....	2,010	99.85	0.00
WRRSNEW2	AH2D-GET A NEW JOB-2.....	2,010	99.85	0.00
WRRSREQ2	AH2F-BECAUSE IT WAS REQUIRED-2	2,010	99.85	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
WRINCON2	AH8C-INSTR BY COMPUTER CONFERENCING-2.....	2,010	99.85	0.00
WRREAS1	REASON FOR TAKING WORK-RELATED COURSE-1.....	3,762	99.84	0.00
WRREAS4	REASON FOR TAKING WORK-RELATED COURSE-4.....	625	99.84	0.00
WRINCOM1	AH8B-INSTR BY COMPUTER-1	3,764	99.84	0.00
WRJOBK4	AH10-HOW USEFUL SKILLS IN JOB-4	609	99.84	0.00
CRINTV1	AD22A-INSTR BY TV/VIDEO/RADIO-1	1,166	99.83	0.00
SAWORK1	AI11-WORK WHILE TAKING COURSE-1	1,798	99.83	0.00
WRWORK2	AH13-WORK WHILE TAKING COURSE-2.....	1,799	99.83	33.33
WRWRKPL2	AH16-TOOK COURSE AT WORKPLACE-2.....	1,758	99.83	33.33
SAPROVE1	AI3-INSTRUCTION PROVIDER WAS EMPLOYER-1.....	1,798	99.83	66.67
WRITENGL	AB24-HOW WELL WRITES ENGLISH.....	1,636	99.82	0.00
BSEVER	AC22-EVER TAKEN ABE/GED CLASSES	1,712	99.82	0.00
WRREAS3	REASON FOR TAKING WORK-RELATED COURSE-3.....	1,125	99.82	0.00
WRCURR3	AH1-CURRENTLY TAKING COURSE-3.....	1,125	99.82	0.00
WRWORK4	AH13-WORK WHILE TAKING COURSE-4.....	565	99.82	0.00
WREMPRE4	AH14-EMPLOYER REQUIRED TO TAKE COURSE-4.....	556	99.82	0.00
WRWRKPL4	AH16-TOOK COURSE AT WORKPLACE-4.....	556	99.82	0.00
WRWRKHR4	AH17-TOOK COURSE DURING WORK HRS-4.....	556	99.82	0.00
WREMPA14	AH18-BEING PAID WHILE TAKING COURSE-4	556	99.82	0.00
ILCOMP	AJ1C-SELF-PACED STUDY-COMP SOFTWARE.....	10,873	99.82	0.00
ILOMAG	AJ1F-READ PROFESSIONAL PUBLICATIONS	10,873	99.82	0.00
IBEMPNUM	AA9-NUMBER EMPLOYERS IN PAST 12 MONTHS.....	7,879	99.81	0.00
CRPROVE1	AD14-INSTRUCTION PROVIDER WAS EMPLOYER-1	1,034	99.81	0.00
WRINTV1	AH8A-INSTR BY TV, VIDEO, OR RADIO-1	3,764	99.81	0.00
WRINWWW1	AH8D-INSTR BY INTERNET/WWW-1	3,764	99.81	0.00
SAWRKPL1	AI12-TOOK COURSE AT WORKPLACE-1	1,619	99.81	0.00
SAWRKHR1	AI13-TOOK COURSE DURING WORK HRS-1	1,619	99.81	0.00
SAWRKHR2	AI13-TOOK COURSE DURING WORK HRS-2	504	99.80	0.00
SAEMPMA2	AI15B-EMPLOYER PAID BOOKS/MTLS-2.....	504	99.80	0.00
IBOTHEMP	AA8-WORKED FOR ANOTHER EMPLOYER ALSO	1,453	99.79	0.00
CRWORK1	AD27-WORK WHILE TAKING PRGM-1	974	99.79	0.00
WRRSOTH1	AH2G-SOME OTHER REASON-1	3,764	99.79	0.00
ILCONF	AJ1E-CONFERENCES OR CONVENTIONS.....	10,873	99.79	0.00
WRWORK1	AH13-WORK WHILE TAKING COURSE-1.....	3,312	99.79	14.29
CREMPRE1	AD28-EMPLOYER REQUIRED TO TAKE PRGM-1	874	99.77	0.00
CRWRKPL1	AD30-TOOK PRGM AT WORKPLACE-1	874	99.77	0.00
WREMPSU1	AH15-EMPLOYER SUGGESTED TO TAKE COURSE-1.....	1,736	99.77	0.00
SAINTV2	AI7A-INSTR BY TV/VIDEO/RADIO-2.....	870	99.77	0.00
ILMENTOR	AJ1A-RECEIVED SUPERVISED TRAINING	7,879	99.77	0.00
ILSELF	AJ1B-SELF-PACED STUDY-BOOKS/MANUALS	10,873	99.77	0.00
READENGL	AB23-HOW WELL READS ENGLISH	1,636	99.76	0.00
BSGED	AC1B-GED PREPARATION CLASSES.....	2,058	99.76	0.00
WRRSREQ1	AH2F-BECAUSE IT WAS REQUIRED-1	3,764	99.76	0.00
WRPROVE1	AH4-INSTRUCTION PROVIDER WAS EMPLOYER-1	3,312	99.76	12.50

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
WRRSCER2	AH2E-GET/KEEP CERTIFICATE/LICENSE-2	2,010	99.75	0.00
SAEMPAI1	AI14-BEING PAID WHILE TAKING COURSE-1	1,619	99.75	0.00
CRINCOM1	AD22B-INSTR BY COMPUTER-1	1,166	99.74	0.00
CRINCON1	AD22C-INSTR BY COMPUTER CONFERENCING-1.....	1,166	99.74	0.00
CRINWWW1	AD22D-INSTR BY INTERNET/WWW-1	1,166	99.74	0.00
WRRSRAI1	AH2C-GET A RAISE OR PROMOTION-1.....	3,764	99.73	0.00
WRRSNEW1	AH2D-GET A NEW JOB-1	3,764	99.73	0.00
WRRSNEW3	AH2D-GET A NEW JOB-3.....	1,125	99.73	0.00
WRRSCER3	AH2E-GET/KEEP CERTIFICATE/LICENSE-3	1,125	99.73	0.00
WRRSOTH3	AH2G-SOME OTHER REASON-3	1,125	99.73	0.00
WRINCON1	AH8C-INSTR BY COMPUTER CONFERENCING-1.....	3,764	99.73	0.00
WRJOBK3	AH10-HOW USEFUL SKILLS IN JOB-3	1,092	99.73	0.00
WROCERT	AH20E-TO GET/KEEP CERTIFICATE/LICENSE.....	353	99.72	0.00
WROTECH	AH20F-TAUGHT BY USING TECHNOLOGY.....	353	99.72	0.00
WREMPRE2	AH14-EMPLOYER REQUIRED TO TAKE COURSE-2.....	1,758	99.72	20.00
WREMPAI2	AH18-BEING PAID WHILE TAKING COURSE-2	1,758	99.72	20.00
ILBBAG	AJ1D-BROWN-BAG OR INFORMAL PRESENT	10,873	99.71	0.00
WRWRKPL1	AH16-TOOK COURSE AT WORKPLACE-1	3,201	99.69	10.00
WRJOBK2	AH10-HOW USEFUL SKILLS IN JOB-2	1,938	99.69	16.67
WRCURR4	AH1-CURRENTLY TAKING COURSE-4.....	625	99.68	0.00
WRRSSKI1	AH2A-MAINTAIN OR IMPROVE SKILLS/KNOWDG-1.....	3,764	99.68	0.00
WRRSSKI4	AH2A-MAINTAIN OR IMPROVE SKILLS/KNOWDG-4.....	625	99.68	0.00
WRNWSKI4	AH2B-LEARN NEW SKILLS OR METHODS-4	625	99.68	0.00
WRRSRAI4	AH2C-GET A RAISE OR PROMOTION-4.....	625	99.68	0.00
WRRSNEW4	AH2D-GET A NEW JOB-4.....	625	99.68	0.00
WRRSCER4	AH2E-GET/KEEP CERTIFICATE/LICENSE-4	625	99.68	0.00
WRRSOTH4	AH2G-SOME OTHER REASON-4	625	99.68	0.00
WROREQ	AH20A-REQUIRED BY EMPLOYER.....	315	99.68	0.00
WROPAY	AH20C-EMPLOYER PAID ALL/PART OF COST	315	99.68	0.00
SAOCOLL	AI16B-TAUGHT BY COLLEGE/UNIVERSITY.....	307	99.67	0.00
AGE4	O/HH MEM - #4'S AGE AT SCREENER	914	99.67	100.00
CRREAS1	AD6-PRGM FOR WORK OR PERSONAL REASONS-1	1,188	99.66	0.00
CRWRKHR1	AD31-TOOK PRGM DURING WORK HRS-1	874	99.66	0.00
SAPRTYP2	AI2-TYPE OF INSTRUCTION PROVIDER-2.....	870	99.66	0.00
SAINTV1	AI7A-INSTR BY TV/VIDEO/RADIO-1.....	2,682	99.66	0.00
SAINCOM2	AI7B-INSTR BY COMPUTER-2.....	870	99.66	0.00
SAINWWW1	AI7D-INSTR BY INTERNET/WWW-1	2,682	99.66	0.00
WRNWSKI1	AH2B-LEARN NEW SKILLS OR METHODS-1	3,764	99.65	0.00
CRPOSTDG	AD3-ENROLLED IN POST-DEGREE PROGRAM	3,377	99.64	0.00
WRRSSKI3	AH2A-MAINTAIN OR IMPROVE SKILLS/KNOWDG-3.....	1,125	99.64	0.00
WRNWSKI3	AH2B-LEARN NEW SKILLS OR METHODS-3	1,125	99.64	0.00
WRRSRAI3	AH2C-GET A RAISE OR PROMOTION-3.....	1,125	99.64	0.00
WRINCOM3	AH8B-INSTR BY COMPUTER-3	1,125	99.64	0.00
WRINCON3	AH8C-INSTR BY COMPUTER CONFERENCING-3.....	1,125	99.64	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
ILCERT	AJ2-GET/KEEP CERTIFICATE/LICENSE.....	7,179	99.64	0.00
WRJOBSK1	AH10-HOW USEFUL SKILLS IN JOB-1	3,591	99.64	7.69
CREMPSU1	AD29-EMPLOYER SUGGESTED TO TAKE PRGM-1	805	99.63	0.00
WRCURR1	AH1-CURRENTLY TAKING COURSE-1	3,764	99.63	0.00
WREMPSU3	AH15-EMPLOYER SUGGESTED TO TAKE COURSE-3.....	534	99.63	0.00
SAINCOM1	AI7B-INSTR BY COMPUTER-1.....	2,682	99.63	0.00
WRPROVE3	AH4-INSTRUCTION PROVIDER WAS EMPLOYER-3	1,018	99.61	0.00
WRWORK3	AH13-WORK WHILE TAKING COURSE-3.....	1,018	99.61	0.00
VOREAS1	AE4-PRGM FOR WORK OR PERSONAL REASONS-1	249	99.60	0.00
WRRSCER1	AH2E-GET/KEEP CERTIFICATE/LICENSE-1	3,764	99.60	0.00
SAEMPAI2	AI14-BEING PAID WHILE TAKING COURSE-2	504	99.60	0.00
SAEMPTU2	AI15A-EMPLOYER PAID TUITON/FEES-2	504	99.60	0.00
VOINCOM1	AE20B-INSTR BY COMPUTER-1.....	244	99.59	0.00
VOINWWW1	AE20D-INSTR BY INTERNET/WWW-1	244	99.59	0.00
WRINCBK2	AH12-TUITION/FEES INCLUDE BOOKS/MTLS-2.....	246	99.59	0.00
WREMPSU2	AH15-EMPLOYER SUGGESTED TO TAKE COURSE-2.....	950	99.58	0.00
ILOTH	AJ1G-OTHER LESS FORMAL LEARNING.....	10,873	99.57	0.00
WRRSREQ3	AH2F-BECAUSE IT WAS REQUIRED-3	1,125	99.56	0.00
WRINWWW3	AH8D-INSTR BY INTERNET/WWW-3.....	1,125	99.56	0.00
CREMPAI1	AD32-BEING PAID WHILE TAKING PRGM-1	874	99.54	0.00
CREMPTU1	AD33A-EMPLOYER PAID TUITION/FEE-1	874	99.54	0.00
CREMPMA1	AD33B-EMPLOYER PAID BOOKS/MTLS-1	874	99.54	0.00
SACRED2	AI4-EARNED COLLEGE CREDIT-2	870	99.54	0.00
SAINCON2	AI7C-INSTR BY COMPUTER CONFERENCING-2	870	99.54	0.00
WRWRKHR2	AH17-TOOK COURSE DURING WORK HRS-2.....	1,758	99.54	12.50
ABORNUS	AK8-COUNTRY OF ORIGIN	10,873	99.54	100.00
WREMPRE1	AH14-EMPLOYER REQUIRED TO TAKE COURSE-1.....	3,201	99.53	6.67
WRWRKHR1	AH17-TOOK COURSE DURING WORK HRS-1.....	3,201	99.53	6.67
IBGRADE	AA1-HIGHEST GRADE/YEAR SCHOOL COMPLETED.....	10,873	99.53	100.00
WRRSREQ4	AH2F-BECAUSE IT WAS REQUIRED-4	625	99.52	0.00
WRINCON4	AH8C-INSTR BY COMPUTER CONFERENCING-4.....	625	99.52	0.00
WRINWWW4	AH8D-INSTR BY INTERNET/WWW-4.....	625	99.52	0.00
SAEMPTU1	AI15A-EMPLOYER PAID TUITON/FEES-1	1,619	99.51	0.00
SAEMPMA1	AI15B-EMPLOYER PAID BOOKS/MTLS-1.....	1,619	99.51	0.00
WREMPRE3	AH14-EMPLOYER REQUIRED TO TAKE COURSE-3.....	996	99.50	0.00
WREMPAI1	AH18-BEING PAID WHILE TAKING COURSE-1	3,201	99.50	6.25
BSFEEL	AC5F-IMPROVE THE WAY YOU FEEL ABOUT SELF.....	197	99.49	0.00
VOWORK1	AE25-WORK WHILE TAKING PRGM-1	196	99.49	0.00
AGE3	O/HH MEM - #3'S AGE AT SCREENER	2,351	99.49	100.00
SAOREQ	AI16A-REQUIRED BY EMPLOYER	191	99.48	0.00
SAOPAY	AI16C-EMPLOYER PAID ALL/PART OF COST.....	191	99.48	0.00
SAOTIME	AI16D-EMPLOYER GAVE TIME OFF WITH PAY.....	191	99.48	0.00
WRINTV3	AH8A-INSTR BY TV, VIDEO, OR RADIO-3	1,125	99.47	0.00
IBHSREQ	AA4-COMPLETED HS REQUIREMENTS	9,377	99.45	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
SAPRTYP1	AI2-TYPE OF INSTRUCTION PROVIDER-1	2,682	99.44	0.00
AGE1	O/HH MEM - #1'S AGE AT SCREENER	8,076	99.44	100.00
SACURR2	AI1-CURRENTLY TAKING COURSE-2	870	99.43	0.00
SAINWWW2	AI7D-INSTR BY INTERNET/WWW-2	870	99.43	0.00
VOEMPRE1	AE26-EMPLOYER REQUIRED TO TAKE PRGM-1	173	99.42	0.00
VOEMPA11	AE30-BEING PAID WHILE TAKING PRGM-1	173	99.42	0.00
VOEMPTU1	AE31A-EMPLOYER PAID TUITION/FEE-1	173	99.42	0.00
VOEMPMA1	AE31B-EMPLOYER PAID BOOKS/MTLS-1	173	99.42	0.00
FCOTH	AG6-COURSES FOR WORK OR PERSONAL REASONS	3,474	99.42	5.00
WRWRKHR3	AH17-TOOK COURSE DURING WORK HRS-3.....	996	99.40	0.00
SAINCON1	AI7C-INSTR BY COMPUTER CONFERENCING-1	2,682	99.40	0.00
APUNION	AF3B-LABOR UNION PROVIDED	163	99.39	0.00
AGE2	O/HH MEM - #2'S AGE AT SCREENER	4,129	99.37	100.00
AGE5	O/HH MEM - #5'S AGE AT SCREENER	317	99.37	100.00
WREXAM3	AH2OV1-TOOK EXAM TO GET CERT/LICENSE-3.....	312	99.36	0.00
WRCERMO3	AH2OV3-RECEIVE CERT BEFORE LAST YEAR-3	312	99.36	0.00
WRINTV4	AH8A-INSTR BY TV, VIDEO, OR RADIO-4	625	99.36	0.00
WRINCOM4	AH8B-INSTR BY COMPUTER-4	625	99.36	0.00
ILEXAM	AJ2OV1-TOOK EXAM TO GET CERT/LICENSE	932	99.36	0.00
ESNOW	AB2-CURRENTLY TAKING ESL CLASSES	152	99.34	0.00
ESREAS	AB4-ESL FOR WORK OR PERSONAL REASONS	152	99.34	0.00
ESCHIL	AB5A-HELP CHILDREN WITH SCHOOL WORK.....	152	99.34	0.00
ESUSCIT	AB5B-GET U.S. CITIZENSHIP	152	99.34	0.00
ESRAISE	AB5D-GET RAISE OR PROMOTION.....	152	99.34	0.00
ESCOLVOC	AB5E-ATTEND COLLEGE OR VOCATIONAL SCHOOL	152	99.34	0.00
ESRSOTH	AB5I-SOME OTHER REASON	152	99.34	0.00
CRPTFT1	AD17-ENROLLED PART-TIME/FULL-TIME/BOTH-1	1,188	99.33	0.00
IBVOCDIP	AA1OV-RECEIVED VOC/TECH DIPLOMA	1,915	99.32	100.00
APCOLCR	AF7-EARNED COLLEGE CREDIT	143	99.30	0.00
WRWRKPL3	AH16-TOOK COURSE AT WORKPLACE-3.....	996	99.30	0.00
WREMPA13	AH18-BEING PAID WHILE TAKING COURSE-3	996	99.30	0.00
BSWORK	AC15-WORK WHILE TAKING ABE/GED.....	140	99.29	0.00
WRCLSHR3	WORK-REL CRSE TOTAL HRS/YEAR-3	1,125	99.29	0.00
WRPROVE4	AH4-INSTRUCTION PROVIDER WAS EMPLOYER-4	565	99.29	0.00
VOEMPSU1	AE27-EMPLOYER SUGGESTED TO TAKE PRGM-1	136	99.26	0.00
ADISABL	AK7-LONG TERM PROBLEMS THAT LIMITED YOU	10,873	99.26	0.00
HGOVEVR	AL13-EVER RECD CHILD CARE BENEFITS	136	99.26	0.00
CRCERT1	AD7-GET/KEEP CERTIFICATE/LICENSE-1	1,188	99.24	0.00
WRPRTP4	AH3-TYPE OF INSTRUCTION PROVIDER-4	625	99.20	0.00
VOINCON1	AE20C-INSTR BY COMPUTER CONFERENCING-1	244	99.18	0.00
SACURR1	AI1-CURRENTLY TAKING COURSE-1	2,682	99.18	0.00
WRPRTP2	AH3-TYPE OF INSTRUCTION PROVIDER-2	2,010	99.15	0.00
WROCOLL	AH20B-TAUGHT BY COLLEGE/UNIVERSITY	353	99.15	0.00
AGE6	O/HH MEM - #6'S AGE AT SCREENER	116	99.14	100.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
WRTUITO3	AH11A-PERSONAL EXPENSES FOR COURSES-3	1,125	99.11	0.00
AMARSTAT	AK6-CURRENT MARITAL STATUS	10,873	99.09	100.00
BSEMPREQ	AC16-EMPLOYER REQUIRED TO TAKE ABE/GED.....	106	99.06	0.00
BSWRKPL	AC18-TOOK ABE/GED AT WORKPLACE.....	106	99.06	0.00
BSEMPAID	AC20-PAID WHILE TAKING ABE/GED.....	106	99.06	0.00
BSEMPUI	AC21A-EMPLOYER PAID TUITION/FEE	106	99.06	0.00
BSEMPMAT	AC21B-EMPLOYER PAID BOOKS/MTLS.....	106	99.06	0.00
WRTUITO2	AH11A-PERSONAL EXPENSES FOR COURSES-2.....	2,010	99.05	0.00
WRMATLS2	AH11B-PERSONAL EXPENSES FOR BOOKS/MTLS-2.....	2,010	99.05	0.00
WRCLSHR4	WORK-REL CRSE TOTAL HRS/YEAR-4	625	99.04	0.00
WRMATLS3	AH11B-PERSONAL EXPENSES FOR BOOKS/MTLS-3.....	1,125	99.02	0.00
WRCLSHR2	WORK-REL CRSE TOTAL HRS/YEAR-2.....	2,010	99.00	0.00
WREXAM1	AH20V1-TOOK EXAM TO GET CERT/LICENSE-1.....	1,201	99.00	0.00
BSJOB	AC5B-GET A NEW JOB	197	98.98	0.00
BSRAISE	AC5C-GET RAISE OR PROMOTION	197	98.98	0.00
BSCOLVOC	AC5D-ATTEND COLLEGE OR VOCATIONAL SCHOOL.....	197	98.98	0.00
BSRSOTH	AC5H-SOME OTHER REASON	197	98.98	0.00
BSEMPUG	AC17-EMPLOYER SUGGESTED TO TAKE ABE/GED	98	98.98	0.00
ASTUENG	AK10-STUDY ENGLISH BEFORE CAME TO US.....	1,173	98.98	0.00
SACRED1	AI4-EARNED COLLEGE CREDIT-1	2,682	98.96	0.00
ESPROVEM	AB7-INSTRUCTION PROVIDER WAS EMPLOYER.....	95	98.95	0.00
ESWORK	AB15-WORK WHILE TAKING ESL CLASSES.....	95	98.95	0.00
WRCRED2	AH5-EARNED COLLEGE CREDIT-2.....	2,010	98.91	0.00
IBWORKMO	AK12-MONTHS WORKED FOR PAY IN PAST YEAR	10,873	98.90	0.00
WRTUITO4	AH11A-PERSONAL EXPENSES FOR COURSES-4.....	625	98.88	0.00
COMPHOME	AK28-HAVE HOME COMPUTER/LAPTOP	10,873	98.87	0.00
COMPWORK	AK29-HAVE ACCESS TO COMPUTER AT WORK.....	7,879	98.86	0.00
WREMPU2	AH19A-EMPLOYER PAID TUITION/FEE-2.....	1,758	98.86	5.00
CUREMP	AK19-CURRENTLY EMPLOYED	7,879	98.85	2.20
VOWRKHR1	AE29-TOOK PRGM DURING WORK HRS-1	173	98.84	0.00
WRPRTP3	AH3-TYPE OF INSTRUCTION PROVIDER-3	1,125	98.84	0.00
CERTPROF	AK24-HAVE OTHER CERT/LICENSURE	10,873	98.84	0.00
WREXAM2	AH20V1-TOOK EXAM TO GET CERT/LICENSE-2.....	600	98.83	0.00
WRTUITO1	AH11A-PERSONAL EXPENSES FOR COURSES-1	3,764	98.83	0.00
IBGRAD2	AA1-ACTUAL GRADE 9-11 COMPLETED.....	942	98.83	100.00
ESAGAIN	AB3-WOULD YOU TAKE ESL AGAIN	84	98.81	0.00
WREMPMA2	AH19B-EMPLOYER PAID BOOKS/MTLS-2	1,758	98.81	4.76
AHISPANI	AK5-HISPANIC ORIGIN	10,873	98.81	100.00
WRPRTP1	AH3-TYPE OF INSTRUCTION PROVIDER-1	3,764	98.80	0.00
WEBHOME	AK30-HAVE ACCESS TO INTERNET AT HOME	10,873	98.79	0.00
APOTHER	AF3E-SOMEONE ELSE PROVIDED	163	98.77	0.00
APTUITON	AF8A-PERSONAL EXPENSE FOR TUITION/FEES	163	98.77	0.00
JOBEVER	AK11-EVER WORKED AT A JOB FOR PAY	2,994	98.76	0.00
SUPERV	AK22-HAVE ANY SUPERVISORY ROLE AT WORK	7,879	98.76	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
WRINCBK1	AH12-TUITION/FEE INCLUDE BOOKS/MTLS-1.....	558	98.75	0.00
AUNEMP	AK13-PAST 12 MONTH UNEMP AND LOOKING	4,489	98.75	0.00
CRCRSNU1	AD19-NUMBER OF COURSES TOOK IN PRGM-1	1,188	98.74	0.00
CERTJOB	AK23-HAVE CERT/LICENSURE FOR JOB	7,879	98.74	0.00
CRFACUL1	AD15-MEMBER OF FACULTY-1	158	98.73	0.00
HOTHNUM	AL2-OTHR PHONE NMBRS/HOME USE.....	10,873	98.73	0.00
WRCRED4	AH5-EARNED COLLEGE CREDIT-4.....	625	98.72	0.00
WRMATLS4	AH11B-PERSONAL EXPENSES FOR BOOKS/MTLS-4	625	98.72	0.00
HGOVCUR	AL15-FAMLY CUR RECVS MONEY FOR CH CARE	2,478	98.71	0.00
ESJOB	AB5C-GET A NEW JOB	152	98.68	0.00
ESLIFE	AB5H-IMPROVE DAILY TASK	152	98.68	0.00
ESPRYP	AB6-TYPE OF INSTRUCTION PROVIDER.....	152	98.68	0.00
ESEMPREQ	AB16-EMPLOYER REQUIRED TO TAKE ESL.....	76	98.68	0.00
ESWRKPL	AB18-TOOK ESL CLASSES AT WORKPLACE.....	76	98.68	0.00
ESWRKHR	AB19-TOOK ESL CLASSES DURING WORK HRS.....	76	98.68	0.00
ESEMPAID	AB20-BEING PAID WHILE TAKING ESL CLASSES.....	76	98.68	0.00
WRCERMO2	AH2OV3-RECEIVE CERT BEFORE LAST YEAR-2	600	98.67	0.00
WRMATLS1	AH11B-PERSONAL EXPENSES FOR BOOKS/MTLS-1	3,764	98.65	0.00
CRCERMO1	AD10-RECEIVED CERT BEFORE LAST YEAR-1	219	98.63	0.00
WRTECHP2	AH9-PERCENT INSTR USED TECHNOLOGY-2	1,456	98.63	0.00
ALIVWITH	AK6OV-LIVING WITH PARTNER.....	2,186	98.63	100.00
WRTECHP4	AH9-PERCENT INSTR USED TECHNOLOGY-4	433	98.61	0.00
GIHOPE	AK32B-HEARD OF HOPE SCHOLARSHIP TAX CRED	10,873	98.57	0.00
WREMPMA4	AH19B-EMPLOYER PAID BOOKS/MTLS-4	556	98.56	0.00
LABUNION	AK26-MEM OF LABOR UNION OR ORGANIZATI.....	10,099	98.56	0.00
WRCLSHR1	WORK-REL CRSE TOTAL HRS/YEAR-1	3,764	98.54	0.00
ESEMPUG	AB17-EMPLOYER SUGGESTED TO TAKE ESL.....	68	98.53	0.00
BSNOW	AC2-CURRENTLY TAKING ABE/GED CLASSES	197	98.48	0.00
BSLIFE	AC5G-IMPROVE DAILY TASK	197	98.48	0.00
HNUMUSE	AL4-# OF OTHR PHONE NMBRS/HOME USE.....	1,939	98.45	0.00
HAFDC3YR	AL10-FAMLY RECD WELFARE IN PAST 3 YRS	2,599	98.42	0.00
WRCRED3	AH5-EARNED COLLEGE CREDIT-3	1,125	98.40	0.00
WRCEU4	AH6-EARNED CEU-4	625	98.40	0.00
GILIFE	AK32A-HEARD LIFETIME LEARNING TAX CRED	10,873	98.39	0.00
WREMPU4	AH19A-EMPLOYER PAID TUITION/FEE-4.....	556	98.38	0.00
HAFDCCUR	AL11-FAMLY CURRENTLY RECVS WELFARE	304	98.36	0.00
WRCRED1	AH5-EARNED COLLEGE CREDIT-1	3,764	98.35	0.00
HWIC	AL16A-FAMLY RECD WIC PAST 12 MO	3,069	98.31	0.00
HFOODST	AL16B-FAMLY RECD FOOD STMPs PST 12 MO.....	3,069	98.31	0.00
ARACE	AK3-RACE.....	10,873	98.31	100.00
FSOC	OCCUPATION CODE (SOC).....	7,879	98.30	0.75
WREMPU3	AH19A-EMPLOYER PAID TUITION/FEE-3.....	996	98.29	0.00
WREMPMA3	AH19B-EMPLOYER PAID BOOKS/MTLS-3	996	98.29	0.00
SACEU2	AI5-EARNED CEUS-2.....	870	98.28	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
WREMP TU1	AH19A-EMPLOYER PAID TUITION/FEE-1.....	3,201	98.25	1.79
WRCEU2	AH6-EARNED CEU-2.....	2,010	98.21	0.00
WRTECHP3	AH9-PERCENT INSTR USED TECHNOLOGY-3.....	783	98.21	0.00
PAYHRS	AK15-HRS PER WEEK WORKED FOR PAY.....	7,879	98.20	0.00
ILCERMO	AJ2OV3-RECEIVED CERT BEFORE LAST YEAR.....	932	98.18	0.00
CREXAM1	AD8-TOOK EXAM TO GET CERT/LICENSE-1.....	219	98.17	0.00
JOBACTY	AK14-MAIN ACT DONE MOST OF LAST WEEK.....	4,489	98.17	0.00
APSTAGOV	AF3C-LOCAL OR STATE GOVERNMENT PROVIDED.....	163	98.16	0.00
APSTRTMM	AF4-APPR PRGM START MONTH.....	163	98.16	0.00
WEBWORK	AK31-HAVE ACCESS TO INTERNET AT WORK.....	7,879	98.16	0.00
APSTRYY	AF4-APPR PRGM START YEAR.....	163	98.16	33.33
BSWRKHR	AC19-TOOK ABE/GED DURING REGULAR WORK HR.....	106	98.11	0.00
HOWNHOM	AL1-OWN, RENT HOME/OTHR ARRANGMNT.....	10,873	98.11	0.00
FSIC	INDUSTRY CODE (SIC).....	7,879	98.11	0.67
WREXAM4	AH2OV1-TOOK EXAM TO GET CERT/LICENSE-4.....	157	98.09	0.00
SAMATLS1	AI9B-PERSONAL EXPENSES FOR BOOKS/MTLS-1.....	2,682	98.06	0.00
WREMPMA1	AH19B-EMPLOYER PAID BOOKS/MTLS-1.....	3,201	98.06	1.61
CRINCBK1	AD26-TUITION/FEES INCLUDE BOOKS/MTLS-1.....	101	98.02	0.00
WRCERMO1	AH2OV3-RECEIVE CERT BEFORE LAST YEAR-1.....	1,201	98.00	0.00
CRSTRTY1	AD11-CRED START YEAR-1.....	1,188	97.98	41.67
BSREAS	AC4-ABE/GED FOR WORK OR PERSONAL REASONS.....	197	97.97	0.00
IBGEDCLS	AA5-TOOK COURSE/TUTOR TO PREPARE FOR GED.....	672	97.92	0.00
SACEU1	AI5-EARNED CEUS-1.....	2,682	97.91	0.00
HCHIP	AL16D-FAMLY RECD CHIP PAST 12 MO.....	3,069	97.85	0.00
WRCEU3	AH6-EARNED CEU-3.....	1,125	97.78	0.00
HMEDIC	AL16C-FAMLY RECD MEDICAID PAST 12 MO.....	3,069	97.78	0.00
VOWRKPL1	AE28-TOOK PRGM AT WORKPLACE-1.....	173	97.69	0.00
WRTECHP1	AH9-PERCENT INSTR USED TECHNOLOGY-1.....	2,756	97.68	0.00
SAINCBK2	AI10-TUITION/FEES INCLUDE BOOKS/MTLS-2.....	300	97.67	0.00
AOTHRACE	AK4-OTHER RACE.....	1,013	97.63	100.00
SAMATLS2	AI9B-PERSONAL EXPENSES FOR BOOKS/MTLS-2.....	870	97.59	0.00
UNIONCON	AK27-COVERED BY UNION CONTRACT.....	1,190	97.56	0.00
ADOBMM	AK1-MONTH OF BIRTH.....	10,873	97.53	0.00
ADOBYY	AK1-YEAR OF BIRTH.....	10,873	97.48	100.00
SATUITO2	AI9A-PERSONAL EXPENSES FOR TUITION/FEE-2.....	870	97.47	0.00
SATUITO1	AI9A-PERSONAL EXPENSES FOR TUITION/FEE-1.....	2,682	97.46	0.00
ES PUBAST	AB5F-MEET REQ MNT FOR PUBLIC ASSISTANCE.....	152	97.37	0.00
ESFEEL	AB5G-IMPROVE THE WAY YOU FEEL ABOUT SELF.....	152	97.37	0.00
ESEMP TU1	AB21A-EMPLOYER PAID TUITION/FEE.....	76	97.37	0.00
ESEMP MAT	AB21B-EMPLOYER PAID BOOKS/MTLS.....	76	97.37	0.00
CONTREQ	AK25-REQUIRED CONTINUING EDUCATION.....	10,873	97.29	0.00
IBGRAD1	AA1-ACTUAL GRADE 0-8 COMPLETED.....	608	97.20	100.00
CRSTRM1	AD11-CRED START MONTH-1.....	1,188	97.14	0.00
SACL SHR2	PERSONAL INTEREST COURSE TOTAL HRS-2.....	870	97.13	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
AGE7	O/HH MEM - #7'S AGE AT SCREENER	34	97.06	100.00
BSTUITON	AC13A-PERSONAL EXPENSES FOR TUITION/FEES	197	96.95	0.00
VOTECHP1	AE22-PERCENT INSTR TECHNOLOGY USE-1	191	96.86	0.00
WRCEU1	AH6-EARNED CEU-1	3,764	96.84	0.00
WRCERMO4	AH20V3-RECEIVE CERT BEFORE LAST YEAR-4	157	96.82	0.00
VOCRSNU1	AE17-NUMBER OF COURSES TOOK IN PRGM-1	249	96.79	0.00
AMOVEAGE	AK8OV-AGE WHEN MOVED TO U.S.	1,430	96.78	100.00
CRCERMO2	AD10-RECEIVED CERT BEFORE LAST YEAR-2	31	96.77	0.00
CRCERT2	AD7-GET/KEEP CERTIFICATE/LICENSE-2	120	96.67	0.00
CRMATLS1	AD25B-PERSONAL EXPENSE FOR BOOKS/MTLS-1	1,188	96.63	0.00
CRTECHP1	AD24-PERCENT INSTR USED TECHNOLOGY-1	856	96.61	0.00
BSPRTYP	AC6-TYPE OF INSTRUCTION PROVIDER.....	197	96.45	0.00
CRPROVE2	AD14-INSTRUCTION PROVIDER WAS EMPLOYER-2	112	96.43	0.00
VOPTFT1	AE15-ENROLLED PART-TIME/FULL-TIME/BOTH-1	249	96.39	0.00
SATECHP1	AI8-PERCENT INSTR USED TECHNOLOGY-1	1,189	96.22	0.00
SAINCBK1	AI10-TUITION/FEES INCLUDE BOOKS/MTLS-1	854	96.14	0.00
SACLSHR1	PERSONAL INTEREST COURSE TOTAL HRS-1	2,682	96.09	0.00
BSMATLS	AC13B-PERSONAL EXPENSES FOR BOOKS/MTLS	197	95.94	0.00
BSINCBK	AC14-TUITION/FEES INCLUDE BOOKS/MTLS	24	95.83	0.00
APMATLS	AF8B-PERSONAL EXPENSE FOR BOOKS/MTLS	163	95.71	0.00
VOTUITO1	AE23A-PERSONAL EXPENSE FOR TUITION/FEE-1	249	95.58	0.00
ESCOLL	AB8-EARNED COLLEGE CREDIT	152	95.39	0.00
ESMATLS	AB13B-PERSONAL EXPENSES FOR BOOKS/MTLS	152	95.39	0.00
SATECHP2	AI8-PERCENT INSTR USED TECHNOLOGY-2	368	95.38	0.00
NUMPEEP	AK20-EMPLOYER SIZE.....	7,879	95.38	0.00
VOTECHN1	AE21-NUMBER COURSES USED TECHNOLOGY-1	191	95.29	0.00
APFEDGOV	AF3D-FED GOVERNMENT PROVIDED	163	95.09	0.00
CRREAS2	AD6-PRGM FOR WORK OR PERSONAL REASONS-2	120	95.00	0.00
BSAGAIN	AC3-WOULD YOU TAKE ABE/GED AGAIN	117	94.87	0.00
VOMATLS1	AE23B-PERSONAL EXPENSE FOR BKS/MTLS-1	249	94.78	0.00
CRENRNU1	AD18-HOW LONG ENROLLED IN PGRM-1	1,188	94.70	0.00
CRENRUN1	AD18-UNIT ENROLLED IN PGRM-1	1,188	94.70	0.00
VOSTRTM1	AE9-VOCA START MONTH-1	249	94.38	0.00
VOCOMPY1	AE10-VOCA COMPLETION YEAR-1	249	94.38	7.14
CRTUITO1	AD25A-PERSONAL EXPENSE FOR TUITION/FEE-1	1,188	94.11	0.00
ESHRYR	AB10-TOTAL HRS ATTEND ESL CLASSES	152	94.08	0.00
ESTUITON	AB13A-PERSONAL EXPENSES FOR TUITION/FEES	152	94.08	0.00
GIHOPUS	AK34-USE HOPE SCHOLARSHIP TAX CREDIT	943	93.85	0.00
AGE8	O/HH MEM - #8'S AGE AT SCREENER	16	93.75	100.00
CRCOMPY1	AD12-CRED COMPLETION YEAR-1	1,188	93.69	4.00
CRTECHN1	AD23-NUM OF COURSES USED TECHNOLOGY-1	856	93.34	12.28
VOCOMPM1	AE10-VOCA COMPLETION MONTH-1	249	93.17	0.00
USGRADE	AK9-HIGHEST GRADE BEFORE MOVING TO US	1,258	93.16	100.00
CRWORK2	AD27-WORK WHILE TAKING PRGM-2	102	93.14	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CRCRDHR1	AD20-TOTAL CREDIT HRS ENROLLED-1	1,188	93.10	0.00
VOENRNU1	AE16-HOW LONG ENROLLED IN PGRM-1	249	92.77	0.00
VOENRUN1	AE16-UNIT ENROLLED IN PRGM-1	249	92.77	0.00
VOSTRTY1	AE9-VOCA START YEAR-1	249	92.77	66.67
CREMPRE2	AD28-EMPLOYER REQUIRED TO TAKE PRGM-2	81	92.59	0.00
CRWRKPL2	AD30-TOOK PRGM AT WORKPLACE-2	81	92.59	0.00
CRWRKHR2	AD31-TOOK PRGM DURING WORK HRS-2	81	92.59	0.00
CREMPAI2	AD32-BEING PAID WHILE TAKING PRGM-2	81	92.59	0.00
CREMPTU2	AD33A-EMPLOYER PAID TUITION/FEE-2	81	92.59	0.00
CREMPMA2	AD33B-EMPLOYER PAID BOOKS/MTLS-2	81	92.59	0.00
CRSTRM2	AD11-CRED START MONTH-2	120	92.50	0.00
CREMPSU2	AD29-EMPLOYER SUGGESTED TO TAKE PRGM-2	76	92.11	0.00
GILIFUS	AK33-USE LIFETIME LEARNING TAX CREDIT	1,210	91.90	0.00
BSFMLIT	AC9-ABE/GED WAS PART OF FAM LITERACY	197	91.88	0.00
HSTOPYY	AL12-YEAR STOPPED RECV WELFARE	136	91.18	0.00
VOCOMPY2	AE10-VOCA COMPLETION YEAR-2	11	90.91	0.00
VOENRNU2	AE16-HOW LONG ENROLLED IN PGRM-2	11	90.91	0.00
VOENRUN2	AE16-UNIT ENROLLED IN PRGM-2	11	90.91	0.00
VOINWWW2	AE20D-INSTR BY INTERNET/WWW-2	11	90.91	0.00
CRSTRTY2	AD11-CRED START YEAR-2	120	90.83	18.18
CRINTV2	AD22A-INSTR BY TV/VIDEO/RADIO-2	116	90.52	0.00
CRINCOM2	AD22B-INSTR BY COMPUTER-2	116	90.52	0.00
CRINCON2	AD22C-INSTR BY COMPUTER CONFERENCING-2	116	90.52	0.00
CRINWWW2	AD22D-INSTR BY INTERNET/WWW-2	116	90.52	0.00
CREXAM2	AD8-TOOK EXAM TO GET CERT/LICENSE-2	31	90.32	0.00
CRCOMPM1	AD12-CRED COMPLETION MONTH-1	1,188	90.24	0.00
CRCRSNU2	AD19-NUMBER OF COURSES TOOK IN PRGM-2	120	90.00	0.00
APCOMPMM	AF5-APPR PRGM COMPLETION MONTH	163	89.57	0.00
CRCOMPM2	AD12-CRED COMPLETION MONTH-2	120	89.17	0.00
BSHRYR	AC10-TOTAL HRS ATTENDED ABE/GED	197	88.83	9.09
CRPTFT2	AD17-ENROLLED PART-TIME/FULL-TIME/BOTH-2	120	88.33	0.00
CRMATLS2	AD25B-PERSONAL EXPENSE FOR BOOKS/MTLS-2	120	88.33	0.00
CRREAS3	AD6-PRGM FOR WORK OR PERSONAL REASONS-3	8	87.50	0.00
CRCERT3	AD7-GET/KEEP CERTIFICATE/LICENSE-3	8	87.50	0.00
CRSTRM3	AD11-CRED START MONTH-3	8	87.50	0.00
CRCOMPY2	AD12-CRED COMPLETION YEAR-2	120	87.50	0.00
CRTUITO2	AD25A-PERSONAL EXPENSE FOR TUITION/FEE-2	120	87.50	0.00
CRTECHP2	AD24-PERCENT INSTR USED TECHNOLOGY-2	78	87.18	0.00
APCOMPYY	AF5-APPR PRGM COMPLETION YEAR	146	86.99	36.84
HINCMRNG	AL17-TOTAL HH INCOME RANGE	10,873	85.55	0.00
APCLSHR	AF6-TOTAL CLASSROOM INST HRS	163	84.05	0.00
CRTECHN2	AD23-NUM OF COURSES USED TECHNOLOGY-2	78	83.33	7.69
HINCM50K	AL17OV-HH INCOME BELOW/ABOVE \$50K	7,801	82.55	0.00
CRENRNU2	AD18-HOW LONG ENROLLED IN PGRM-2	120	82.50	0.00

See notes at end of table.

**Table 6-3. Item response rates for items on the public use data file: AELL-NHES:2001—
Continued**

Variable name	Description	Number eligible	Item response rate (percent)	Percent manually imputed
CRENRUN2	AD18-UNIT ENROLLED IN PGRM-2.....	120	82.50	0.00
CRCRDHR2	AD20-TOTAL CREDIT HRS ENROLLED-2	120	82.50	0.00
VOCOMPM2	AE10-VOCA COMPLETION MONTH-2	11	81.82	0.00
VOSTRTY2	AE9-VOCA START YEAR-2	11	81.82	100.00
EARNAMT	AK21-AMOUNT OF EARNINGS	7,879	81.67	0.00
HSTOPMM	AL12-MONTH STOPPED REC V WELFARE	136	81.62	0.00
EARNUNT	AK21-UNIT OF EARNINGS	7,879	81.57	0.55
HINCOME	AL17OV-TOTAL HH INCOME RANGE 2	10,873	78.26	0.00
CRCLSHR1	AD21-TOTAL CLASSROOM HRS-1	26	76.92	0.00
VOCRDRH1	AE18-TOTAL CREDIT HRS ENROLLED-1	249	75.10	0.00
CRCOMP3	AD12-CRED COMPLETION MONTH-3	8	75.00	0.00
CRCOMPY3	AD12-CRED COMPLETION YEAR-3	8	75.00	0.00
CRPTFT3	AD17-ENROLLED PART-TIME/FULL-TIME/BOTH-3	8	75.00	0.00
CRCRSNU3	AD19-NUMBER OF COURSES TOOK IN PRGM-3	8	75.00	0.00
CRINTV3	AD22A-INSTR BY TV/VIDEO/RADIO-3	8	75.00	0.00
CRINCOM3	AD22B-INSTR BY COMPUTER-3	8	75.00	0.00
CRINCON3	AD22C-INSTR BY COMPUTER CONFERENCING-3.....	8	75.00	0.00
CRINWWW3	AD22D-INSTR BY INTERNET/WWW-3.....	8	75.00	0.00
CRTUITO3	AD25A-PERSONAL EXPENSE FOR TUITION/FEE-3.....	8	75.00	0.00
CRMATLS3	AD25B-PERSONAL EXPENSE FOR BOOKS/MTLS-3	8	75.00	0.00
CRINCBK2	AD26-TUITION/FEE INCLUDE BOOKS/MTLS-2.....	11	72.73	0.00
VOCRDRH2	AE18-TOTAL CREDIT HRS ENROLLED-2.....	11	72.73	0.00
CRPROVE3	AD14-INSTRUCTION PROVIDER WAS EMPLOYER-3	7	71.43	0.00
CRWORK3	AD27-WORK WHILE TAKING PRGM-3	7	71.43	0.00
CREMPRE3	AD28-EMPLOYER REQUIRED TO TAKE PRGM-3	7	71.43	0.00
CREMP3U3	AD29-EMPLOYER SUGGESTED TO TAKE PRGM-3	7	71.43	0.00
CRWRKPL3	AD30-TOOK PRGM AT WORKPLACE-3	7	71.43	0.00
CRWRKHR3	AD31-TOOK PRGM DURING WORK HRS-3	7	71.43	0.00
CREMPAI3	AD32-BEING PAID WHILE TAKING PRGM-3.....	7	71.43	0.00
CREMPTU3	AD33A-EMPLOYER PAID TUITION/FEE-3.....	7	71.43	0.00
CREMPMA3	AD33B-EMPLOYER PAID BOOKS/MTLS-3	7	71.43	0.00
CRENRNU3	AD18-HOW LONG ENROLLED IN PGRM-3.....	8	62.50	0.00
CRENRUN3	AD18-UNIT ENROLLED IN PGRM-3.....	8	62.50	0.00
CRCRDHR3	AD20-TOTAL CREDIT HRS ENROLLED-3	8	62.50	0.00
CRSTRTY3	AD11-CRED START YEAR-3	8	62.50	33.33
CRTECHN3	AD23-NUM OF COURSES USED TECHNOLOGY-3	5	60.00	0.00
CRTECHP3	AD24-PERCENT INSTR USED TECHNOLOGY-3	5	60.00	0.00
HINCMEXT	AL17OV2-EXCT HH INC NRST \$1000	1,082	56.75	0.21
CRINCBK3	AD26-TUITION/FEE INCLUDE BOOKS/MTLS-3.....	2	50.00	0.00

SOURCE: U.S. Department of Education, National Center for Education Statistics, Adult Education and Lifelong Learning (AELL) Survey of the National Household Education Surveys Program (NHES), 2001.

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7. WEIGHTING AND VARIANCE ESTIMATION

Weighting Methodology

The objective of the NHES:2001 is to make inferences about the entire civilian, noninstitutionalized population for the domains of interest. Weighting is necessary to account for differential probabilities of selection and to reduce potential bias due to nonresponse and differential coverage of subpopulations. Although weighting adjustments are aimed at reducing bias, these adjustments typically introduce variation in the weights, which increases the variances of survey estimates. Care was taken in the development and implementation of the weighting methodology to balance the bias reductions against the potential increases in variance.

The target populations for the NHES:2001 surveys are the U.S. civilian, noninstitutional population age 6 or younger and not yet enrolled in kindergarten (ECPN-NHES:2001), age 15 or younger enrolled in kindergarten through 8th grade (ASPA-NHES:2001), and age 16 or older and not enrolled in 12th grade or below (AELL-NHES:2001). Although only telephone households were sampled, the estimates were adjusted to totals of persons living in both telephone and nontelephone households derived from the Current Population Survey (CPS) to achieve this goal. Totals of the number of persons adjusted to account for undercoverage are available from the 1990 decennial census. Beginning in 1994, the CPS weights were adjusted to these totals. Any additional undercoverage in the census of special subpopulations, such as the homeless, remains in the totals obtained from the CPS.

The full sample weight to be used for analysis of the ECPN file is FEWT. For the ASPA file, the full sample weight is FSWT. For the AELL file, the full sample weight is FAWT. The weighting procedures are described briefly below.

Household-Level Weights

The primary purpose of the Screener in the NHES:2001 was to provide information required to assess the eligibility of household members for an extended interview. Household-level information that is of analytic interest was also collected during the extended interview. Since no data intended for analyses were collected at the household level only, household-level weights were calculated solely for use as a basis for computing person-level weights for the analysis of the extended interview data.

The household-level weight was the product of five factors:

- (1) the weight associated with the differential sampling of telephone numbers based on the minority stratum of the exchange and the listed status of the telephone number (A_j);
- (2) an adjustment to account for the subsampling of no answer cases (B_j);
- (3) an adjustment for Screener nonresponse (C_j);
- (4) an adjustment for the number of telephone numbers in a household (D_j); and
- (5) a poststratification adjustment to compensate for the fact that only telephone households were eligible for the NHES:2001 surveys (E_j).

The procedures for computing the household-level weights are given below.

1. The RDD sampling method used for the NHES:2001 is a list-assisted method described by Brick et al. (1995). This basic method was also used in the NHES:1995, the NHES:1996, and the NHES:1999. For NHES:2001, a two-phase approach was used. In the first phase, a single-stage sample of telephone numbers was sampled from strata defined by minority status of the exchange. Telephone numbers in high-minority exchanges were sampled at a rate almost twice that of those in low-minority exchanges. In particular, in the high-minority stratum, 101,170 telephone numbers were selected from the 818,262 eligible 100-banks; in the low-minority stratum, 105,012 telephone numbers were selected from the 1,640,319 eligible 100-banks. In the second phase, telephone numbers selected in the first phase were matched against White and yellow pages directory listings and subsampled differentially within each minority stratum based on listed status (i.e., whether the number is listed in the White Pages). Table 7-1 gives the numbers of telephone numbers selected at each phase of selection and the weighting factors associated with the sampling at each phase. The telephone number level base weight, A_j , is the product of the two weighting factors given in table 7-1.

Table 7-1. Weighting factors for the sampling of telephone numbers: NHES:2001

Minority stratum	Phase 1 sample			Phase 2 sample			
	Number of telephone numbers in frame	Number of telephone numbers sampled	Weighting factor	Listed status	Number of telephone numbers in Phase 1 sample	Number of telephone numbers sampled	Weighting factor
High minority	81,826,200	101,170	808.80	Listed	31,747	22,681	1.40
				Not listed	69,423	65,942	1.05
Low minority	164,031,900	105,012	1,562.03	Listed	38,880	28,271	1.38
				Not listed	66,132	62,317	1.06

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

2. During data collection, no answer cases (those at which neither a person nor a machine had been reached) were subsampled for refielding; only a one-third subsample of such cases was refielded. (See chapter 5 for further details on refielding.) The second weighting factor adjusts for the subsampling of no answer cases. No answer cases that were selected to be refielded were given a weighting factor $B_j = 3$. The no answer cases that were subsampled out were given a weighting factor $B_j = 0$. For each sampled telephone number j , the unadjusted weight, UHW_j , can be written as $UHW_j = A_j \cdot B_j$.
3. The third weighting factor adjusts for households that did not respond to the NHES:2001 Screener. Each sampled telephone number was classified as either a respondent (R), a nonrespondent (NR),⁴⁰ or an ineligible case (I). The base weights of the nonrespondent cases were distributed to the base weights of the respondent cases within a nonresponse adjustment cell. A CHAID analysis (described in chapter 5) was used to identify characteristics most associated with Screener nonresponse. The characteristics considered included all the characteristics used for Screener nonresponse adjustment for the NHES:1995 and the NHES:1999. (The household weights were not adjusted for Screener nonresponse in the NHES:1996.) These characteristics, which were primarily geographic characteristics, were used to form the cells for nonresponse adjustment of the household weights.⁴¹ Table 7-2 contains the cells used for Screener nonresponse adjustment in the NHES:2001, along with the estimated Screener unit response rate for each cell. The nonresponse adjustment factor, $C_{j(c)}$, applied to each respondent j in adjustment cell c is

$$C_{j(c)} = \frac{\sum_{h \in R_c \cup NR_c} UHW_h}{\sum_{h \in R_c} UHW_h}.$$

4. A weighting factor of unity was assigned to households reporting one telephone number in the household. An adjustment factor of 1/2 was assigned to households with more than one residential telephone number.⁴² Technically, if the other telephone number(s) of households with multiple residential telephone numbers is in the zero-listed stratum, the household should get a weight adjustment of 1. However, looking up the other numbers to determine their listed status is impractical, and the percent of such numbers in the zero-listed stratum is small. Let

$$D_j = \frac{1}{2} \quad \text{if household } j \text{ has more than one telephone number, and}$$

$$D_j = 1 \quad \text{if household } j \text{ has one telephone number.}$$

⁴⁰The residency status of telephone numbers that finalized with Screener dispositions of no answer or no answer-answering machine was unresolved. Based on the survival method of response rate estimation (described in chapter 6), 27.9 percent of these cases were assumed to be residential; thus, for these cases, 27.9 percent of the weight was retained and these cases were treated as nonrespondents.

⁴¹As noted in the discussion in chapter 5, little information is available about nonresponding units in an RDD survey. Measures are selected from among the limited items that are available for both respondents and nonrespondents.

⁴²The weight could be modified by a factor equal to the reciprocal of the number of residential telephone numbers in the household, but the adjustment by a factor of one-half is thought to be somewhat better. Massey and Botman (1988) comment on this adjustment.

If a household was sampled twice through two different telephone numbers, only one of the telephone numbers was kept in the sample.⁴³ The telephone number that was not kept was assigned a Screener result code indicating that it is a duplicate. The interview that was kept has D_j set equal to unity, to reflect that it was sampled twice.

Thus, the nonresponse adjusted household weight, adjusted for multiple residential telephone numbers in the household, is

$$UHW'_j = A_j \cdot B_j \cdot C_{j(c)} \cdot D_j$$

5. The final step in computing the household weight was to adjust UHW'_j to known national control totals in order to account for household-level undercoverage due to sampling only telephone households. Poststratification was used to accomplish this task. Poststratification ensures that survey weights sum to known population totals. The characteristics used in poststratification were Census region and presence of children under 18 years of age. Table 7-3 presents the control totals used for poststratifying the household-level weights. The variables used in poststratification were chosen to address differences in coverage rates with respect to region in which the household is located and presence of children in the household. The control totals for poststratification were obtained from the March 2000 Current Population Survey (CPS).

The final household-level weight for household j , HHW_j , is given by

$$HHW_j = UHW'_j \cdot E_{j(d)},$$

where $E_{j(d)}$ is the poststratification adjustment factor described above for adjustment cell d , where household j has the attributes corresponding to poststratification cell d .

Person-Level Weights for the ECPP, ASPA, and AELL Interviews

As described in chapter 3, a sampling algorithm was used to limit the number of persons sampled in each household while maintaining the sampling rates required to attain the target sample sizes. The sampling was based on information collected in the Screener interview from the adult household member who responded to the Screener. For the ECPP and ASPA interviews, the eligibility of the sampled child was later verified or updated when the parent/guardian most knowledgeable about the child responded to the ECPP or ASPA interview. For the AELL interview, an eligible adult was defined to be a person 16 years of age or older who was not enrolled in 12th grade or below and not on active duty in the U.S. Armed Forces. Because sampling eligibility was defined in terms of the data collected in the Screener, the weighting procedures were developed with possible misclassification taken into account so that the estimates would not incur bias due to misclassification.

⁴³There was one such household identified in the NHES:2001 sample.

Table 7-2. Screener nonresponse adjustment cells: NHES:2001

Cell	Mailable status	Answering machine message indicator	Percent White	Median home value	Listed status	Percent renters	Percent owners	Census region	Estimated unit response rate (percent) ¹
1.....	1	1	0,1	†	†	†	†	†	57
2.....	1	1	2,3,4	†	†	†	†	†	63
3.....	1	1	5,6,7	0,1,2	†	†	†	†	71
4.....	1	1	5,6,7	3,4	†	†	†	†	67
5.....	1	1	5,6,7	5	†	†	†	†	72
6.....	1	1	5,6,7	6,7,8,9	†	†	†	†	64
7.....	1	1	8	0,1,2,3,4	†	†	†	†	73
8.....	1	1	8	5,6,7,8	†	†	†	†	68
9.....	1	1	8	9	†	†	†	†	62
10.....	1	1	9	0,1	†	†	†	†	77
11.....	1	1	9	2,3,4,5,6	†	†	†	†	72
12.....	1	1	9	7,8,9	†	†	†	†	65
13.....	1	2	†	†	1	0,1,2,3,4	†	†	81
14.....	1	2	†	†	1	5	†	†	78
15.....	1	2	†	†	1	6	†	†	74
16.....	1	2	†	†	1	7,8,9	†	†	65
17.....	1	2	†	0	2	†	†	†	77
18.....	1	2	†	1,2,3,4	2	†	†	†	74
19.....	1	2	†	5,6,7	2	†	†	†	72
20.....	1	2	†	8,9	2	†	†	†	66
21.....	2	†	†	0,1,2,3	†	†	†	†	59
22.....	2	†	†	4	†	†	†	†	56
23.....	2	†	†	5,6,7	†	†	†	†	50
24.....	2	†	†	8,9	†	†	†	†	41
25.....	3	1	†	†	†	†	0,1,2,3,4,5,6	1,2	60
26.....	3	1	†	†	†	†	7,8,9	1,2	71
27.....	3	1	†	†	†	†	†	3,4	61
28.....	3	2	†	†	†	†	†	1	59
29.....	3	2	†	†	†	0,1,2,3	†	2,3,4	76
30.....	3	2	†	†	†	4,5,6,7,8,9	†	2,3,4	67
31.....	9	†	†	†	†	†	†	†	47

† Not applicable.

¹ The estimated unit response rate is the number of completed interviews divided by the sum of the number of completed interviews, nonresponses, and 27.9 percent of the unresolved telephone numbers, weighted by the probability of selection.

Category codes: Mailable Status: 1 = address obtained; 2 = address not obtained; 3 = address obtained but mailing was returned; 9 = address obtained but not mailable (key fields missing).

Answering Machine Message Status: 1 = at least one answering machine message left; 2 = no messages left.

Median Home Value: 0 = below the 10th percentile in sample, 1 = 10th to 19th percentile in sample.

2 = 20th to 29th percentile in sample, 3 = 30th to 39th percentile in sample, 4 = 40th to 49th percentile in sample, 5 = 50th to 59th percentile in sample, 6 = 60th to 69th percentile in sample, 7 = 70th to 79th percentile in sample, 8 = 80th to 89th percentile in sample, 9 = 90th percentile in sample or higher.

Listed Status: 1 = listed residential; 2 = not listed.

Census Region: 1 = Northeast, 2 = Midwest, 3 = South, 4 = West.

Percent White, Percent Renters, Percent Owners: 0 = less than 10 percent, 1 = 10 to 19 percent, 2 = 20 to 29 percent, 3 = 30 to 39 percent, 4 = 40 to 49 percent, 5 = 50 to 59 percent, 6 = 60 to 69 percent, 7 = 70 to 79 percent, 8 = 80 to 89 percent, 9 = 90 percent or more.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

Table 7-3. Control totals for poststratifying the NHES:2001 household-level weights: CPS:2001

Census region	Children under 18 in household	Control total
Total.....		104,781,947
Northeast.....	Yes	13,123,145
Northeast.....	No	6,969,672
South.....	Yes	23,970,552
South.....	No	13,343,144
Midwest.....	Yes	15,639,333
Midwest.....	No	8,900,832
West.....	Yes	14,013,486
West.....	No	8,821,783

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey (CPS), March 2001. (Independent tabulations.)

The household-level weight was used as the base weight for each of the person-level (ECPP, ASPA, and AELL interview) weights. The person-level weight for sampled person k in household j , PW_{jk} , is the product of the household weight and four weight adjustment factors:

- (1) the weight associated with sampling the person's domain in the given household (A_{jk});
- (2) the weight associated with sampling the person from among all eligible persons in the given domain in the household (B_{jk});
- (3) the weight associated with extended interview (ECPP, ASPA, or AELL) nonresponse (C_k); and
- (4) the adjustment associated with raking the person-level weights to Census Bureau estimates of the number of persons in the target population (D_k).

The procedures for computing the person-level weight adjustments are described below.

1. The first step in developing the person-level weights was to account for the probability of sampling the person's domain in the given household. Table 7-4 gives the weighting factors, A_{jk} , used to adjust for the probability of sampling each child domain for the ECPP and ASPA surveys. For example, if there was one preschooler, one elementary school child (enrolled in kindergarten through 5th grade), and one middle school child (enrolled in 6th through 8th grade), then the preschooler and the middle school child were sampled with certainty, and the elementary school child was sampled with probability 0.5; the domain sampling adjustment factors for the preschooler and the middle school child were 1, and the factor for the elementary school child (if sampled) was 2.

Table 7-4. Weighting factors to account for domain sampling for children: NHES:2001

Household composition (number of children)				Weight adjustment factor to account for domain sampling			
Middle schoolers	Elementary schoolers	Preschoolers	Infants	Middle schooler	Elementary schooler	Preschooler	Infant
0	0	0	1 or more	†	†	†	1.0000
0	0	1 or more	0	†	†	1.0000	†
0	1 or more	0	0	†	1.0000 ¹	†	†
0	1 or more	0	0	†	1.4286 ¹	†	†
0		1 or more	1 or more	†	†	1.0000	1.0000
0	1 or more		1 or more	†	2.0000	†	1.0000
0	1 or more	1 or more	0	†	2.0000	1.0000	†
0	1 or more	1 or more	1 or more	†	2.0000	1.0000	2.0000
1 or more	0	0	0	1.0000	†	†	†
1 or more	0	0	1 or more	1.0000	†	†	1.0000
1 or more	0	1 or more	0	1.0000	†	1.0000	†
1 or more	0	1 or more	1 or more	1.0000	†	1.0000	2.0000
1 or more	1 or more	0	0	1.0000	2.0000	†	†
1 or more	1 or more	0	1 or more	1.0000	4.0000	†	1.3333
1 or more	1 or more	1 or more	0	1.0000	2.0000	1.0000	†
1 or more	1 or more	1 or more	1 or more	1.0000	4.0000	1.0000	4.0000

† Indicates that factor is not applicable because there are no children in the domain in the household.

¹ In households with exactly one elementary schooler and no other children, the child was selected with probability 0.7. In households with two or more elementary schoolers and no other children, one child was selected with probability 1.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

Table 7-5 gives the weighting factors, A_{1jk} , used to account for the probability of sampling the adult domains for the AELL survey, based on the household composition. For example, if there were no eligible children in the household and there were two eligible adults—one adult with less than a high school diploma and one adult with a high school diploma or higher—then the adult with less than a high school diploma was sampled with probability 0.5625 and the adult with a high school diploma or higher was sampled with probability 0.1875. In such an example, if the adult with less than a high school diploma was sampled, then the weighting factor A_{1jk} for that adult was 1.7778, which is the reciprocal of the probability of sampling the adult domain. If the adult with a high school diploma or higher was sampled, then the weighting factor A_{1jk} was 5.3333.

As described above, based on the educational attainment of the adults in the household, an adult was sampled. Adults were then subsampled to attain desired sampling rates for domains defined by adult education participation status by educational attainment. For adults retained in the sample after this subsampling, a weighting factor, A_{2jk} , was assigned to account for this subsampling, as follows:

$$A_{2jk} = \begin{cases} 1.0000 & \text{if the sampled adult is a participant with less than a high school diploma} \\ 3.4771 & \text{if the sampled adult is a non-participant with less than a high school diploma} \\ 1.1881 & \text{if the sampled adult is a participant with a high school diploma or higher} \\ 1.7687 & \text{if the sampled adult is a non-participant with a high school diploma or higher} \end{cases}$$

Table 7-5. Weighting factors to account for domain sampling for adults: NHES:2001

Number of eligible children in household	Household composition		Weighting factor associated with domain sampling	
	Number of adults in household, by educational attainment		Less than high school diploma	High school diploma or higher
0	0	1 or more	†	2.0000
0	1 or more	0	1.3333	†
0	1 or more	1 or more	1.7778	5.3333
1 or more	0	1 or more	†	3.0000
1 or more	1 or more	0	2.0000	†
1 or more	1 or more	1 or more	2.6667	8.0000

† Indicates that factor is not applicable because there are no children in the domain in the household.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

- The second adjustment accounted for the probability of sampling person k from among all eligible persons in the given domain in household j . For the ECPP and ASPA interviews, the adjustment is

$$B_{jk} = N_{jk} ,$$

where N_{jk} is the number of children in household j in the same sampling domain as child k .

For the AELL interview, the adjustment in general is the same as that used for the ECPP and ASPA interviews; i.e., $B_{jk} = N_{jk}$, where N_{jk} is the number of adults in household j in the same educational attainment sampling domain as adult k . There is, however, one exception. In households with more than one adult with less than a high school diploma and no adults with a high school diploma or higher, it was possible to sample two adults. In such households, the weighting factor for this subsampling was

$$B_{jk} = \frac{N_{jk}}{2} .$$

For each sampled person k , the unadjusted person-level weight, UPW_k , can be written as the product of the household-level weight and the adjustments for within-household sampling. That is, for sampled child k , the unadjusted person-level weight is

$$UPW_{jk} = HHW_j \cdot A_{jk} \cdot B_{jk} .$$

For sampled adult k , the unadjusted person-level weight is

$$UPW_{jk} = HHW_j \cdot A_{1jk} \cdot A_{2jk} \cdot B_{jk} .$$

3. The next step was to adjust for persons (most knowledgeable parents/guardians in the case of the ECPP and ASPA interviews, and the sampled adults themselves in the case of the AELL interview) who did not respond to the extended interview. Each extended interview case was classified as either a respondent (*R*) or a nonrespondent (*NR*), depending on whether or not the extended interview was completed for the sampled person. The unadjusted person-level weights (*UPW*) of the nonrespondents were distributed to the unadjusted person-level weights of the respondents within a nonresponse adjustment cell. For the ECPP and ASPA Interviews, the nonresponse adjustment cells were created using age/grade combinations: children age 0, children age 1, children age 2, unenrolled children ages 3 through 6, preschoolers (those enrolled in preschools, nursery schools, or other center-based programs), kindergartners, and children enrolled in each single grade for grade 1 through grade 8; enrolled children with no grade equivalent were included in the cell containing the modal grade for their age; that is, they were assigned to the grade in which most children their age are enrolled. (See tables 7-6 and 7-7 for lists of ECPP and ASPA nonresponse adjustment cells.)

Table 7-6. Interview nonresponse adjustment cells: ECPP-NHES:2001

Explanatory variables: Age or grade/equivalent from Screener	Number of respondents in cell	Unit response rate (percent) ¹
Age 0.....	899	84.4
Age 1.....	1,150	85.6
Age 2.....	1,304	88.8
Unenrolled (ages 3 through 5).....	1,494	86.8
Nursery school/prekindergarten.....	1,910	86.6

¹ The unit response rate is the number of completed interviews divided by the sum of the number of completed interviews and nonresponses, weighted by the unadjusted person-level weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

Table 7-7. Interview nonresponse adjustment cells: ASPA-NHES:2001

Explanatory variables: Age or grade/equivalent from Screener	Number of respondents in cell	Unit response rate (percent) ¹
Kindergarten/transitional kindergarten/pre-1st grade.....	762	84.9
1st grade or equivalent.....	811	86.9
2nd grade or equivalent.....	770	88.3
3rd grade or equivalent.....	773	85.3
4th grade or equivalent.....	880	85.9
5th grade or equivalent.....	901	87.1
6th grade or equivalent.....	1,560	85.4
7th grade or equivalent.....	1,617	88.2
8th grade or equivalent.....	1,501	85.2

¹ The unit response rate is the number of completed interviews divided by the sum of the number of completed interviews and nonresponses, weighted by the unadjusted person-level weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

For the AELL interview, four variables were used to create the nonresponse adjustment cells. The first was the sex of the adult, the second was the adult education participation status of the adult (as reported by the Screener respondent), the third was an indicator of whether the sampled adult was the Screener respondent, and the fourth was the Census region. These variables were used because they are available for all sampled adults (both respondents and nonrespondents) and are associated with AELL interview response propensity. (See table 7-8 for a list of the AELL interview nonresponse adjustment cells.) The nonresponse adjustment factor, $C_{k(c)}$, applied to each respondent k in adjustment cell c is

$$C_{k(c)} = \frac{\sum_{h \in R_c \cup NR_c} UPW_h}{\sum_{h \in R_c} UPW_h}.$$

Thus, for each sampled person k , the nonresponse-adjusted person-level weight, NPW_{jk} , can be written as

$$NPW_{jk} = UPW_{jk} \cdot C_{k(c)}.$$

Extreme weights may occasionally result when households or persons are sampled at very different rates. Additionally, the procedures used for nonresponse adjustment, poststratification, and raking may contribute to extreme weights. A few unexpectedly large sampling weights can seriously inflate the variance of the survey estimates. Thus, for a very small number of records, weight trimming procedures may be used to reduce the impact of such large weights on the estimates produced from the sample. Weight trimming refers to the process of artificially adjusting a few extreme weights (those that are unusually large relative to other weights for members of the same subgroup) to reduce their impact on the weighted estimates.⁴⁴

The variability in the nonresponse adjusted person-level weights was examined by population subgroups to determine whether trimming would be desired. For the ECPP and ASPA interview weights, the variability was not sufficient to justify trimming. For the AELL interview weights, the amount of variability in the weights was greater than desired due to the earlier stages of weighting. To reduce the variability in the final weights, the weights were trimmed prior to raking. The means of the nonresponse-adjusted AELL interview weights for adults sampled as participants and those sampled as nonparticipants were 13,564 and 20,938, respectively. In all, 10 weights were trimmed: for 2 persons sampled as adult education participants with nonresponse adjusted AELL weights in excess of 100,000; and for 8 persons sampled as adult education nonparticipants with nonresponse-adjusted AELL weights in excess of 150,000. The trimmed nonresponse-AELL interview weight is denoted NAW' .

⁴⁴In some trimming procedures, the excess weight that is trimmed from cases with large weights is redistributed to the remaining cases. This redistribution step is not done in NHES because very few weights are trimmed and the excess is implicitly redistributed during the raking step.

Table 7-8. Interview nonresponse adjustment cells: AELL-NHES:2001

Explanatory variables: Indicator of whether sampled adult was the Screener respondent/Census region/adult education participation status (from Screener)/sex	Number of respondents in cell	Unit response rate (percent) ¹
Screener respondent/Northeast/adult education participant/female.....	404	90.9
Screener respondent/Northeast/adult education participant/male.....	228	88.3
Screener respondent/Northeast/adult education nonparticipant/female.....	417	85.9
Screener respondent/Northeast/adult education nonparticipant/male.....	270	81.0
Screener respondent/Midwest/adult education participant/female.....	469	92.3
Screener respondent/Midwest/adult education participant/male.....	255	90.2
Screener respondent/Midwest/adult education nonparticipant/female.....	537	87.4
Screener respondent/Midwest/adult education nonparticipant/male.....	305	86.0
Screener respondent/South/adult education participant/female.....	855	89.4
Screener respondent/South/adult education participant/male.....	434	87.8
Screener respondent/South/adult education nonparticipant/female.....	950	84.7
Screener respondent/South/adult education nonparticipant/male.....	531	86.6
Screener respondent/West/adult education participant/female.....	562	88.4
Screener respondent/West/adult education participant/male.....	302	88.8
Screener respondent/West/adult education nonparticipant/female.....	506	86.0
Screener respondent/West/adult education nonparticipant/male.....	344	87.5
Not Screener respondent/Northeast/adult education participant/female.....	141	65.6
Not Screener respondent/Northeast/adult education participant/male.....	173	63.1
Not Screener respondent/Northeast/adult education nonparticipant/female.....	128	66.4
Not Screener respondent/Northeast/adult education nonparticipant/male.....	139	53.8
Not Screener respondent/Midwest/adult education participant/female.....	191	77.6
Not Screener respondent/Midwest/adult education participant/male.....	231	75.1
Not Screener respondent/Midwest/adult education nonparticipant/female.....	132	67.8
Not Screener respondent/Midwest/adult education nonparticipant/male.....	236	70.7
Not Screener respondent/South/adult education participant/female.....	277	64.5
Not Screener respondent/South/adult education participant/male.....	370	68.0
Not Screener respondent/South/adult education nonparticipant/female.....	289	66.7
Not Screener respondent/South/adult education nonparticipant/male.....	358	59.6
Not Screener respondent/West/adult education participant/female.....	211	72.4
Not Screener respondent/West/adult education participant/male.....	245	67.9
Not Screener respondent/West/adult education nonparticipant/female.....	155	65.0
Not Screener respondent/West/adult education nonparticipant/male.....	228	63.3

¹ The unit response rate is the number of completed interviews divided by the sum of the number of completed interviews and nonresponses, weighted by the unadjusted person-level weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

4. The final stage of person-level weighting involved raking the nonresponse-adjusted person-level weights, *NPW* and *NAW'*, to national control totals. Raking was proposed by Deming and Stephan (1940) as a way to ensure consistency between complete counts and sample data from the 1940 U.S. Census of population. The raking procedure typically improves the reliability of survey estimates, and also corrects for the bias due to households or persons not covered by the survey, e.g. households without telephones and households with unlisted telephone numbers belonging to zero-listed telephone banks. The raking procedure is carried out in a sequence of adjustments: first, the base weights are adjusted to one marginal distribution (or dimension) and then the second marginal distribution, and so on. One sequence of adjustments to the marginal distributions is known as a cycle or iteration. The procedure is repeated until convergence of weighted totals is achieved. (See Deming and Stephan 1940 for further details on raking and the convergence process.)

This additional raking adjustment, following the household-level poststratification adjustment, is required because the extended interviews involve new eligibility criteria and a new level of sampling. That is, although the household-level poststratification adjustment aligned the weighted totals of the household weights with the household level control totals, the raking of the person-level weights is required in order to align the person-level weights with the person-level control totals and adjust for differential coverage rates at the person level.

The raking procedure for the **ECPP and ASPA** weights involved raking the nonresponse-adjusted person-level weights to national totals obtained using the percentage distributions from the October 1999 CPS and the total number of children from the March 2000 CPS. The October 1999 CPS contains variables not available on the March 2000 CPS, but the totals in the latter are more current. In the procedure used in the NHES:2001, the control total for a raking cell is the proportion in that cell from the October 1999 CPS multiplied by the estimate of the total number of children from the March 2000 CPS. The three raking dimensions used for the ECPP and ASPA interview weights were a cross between race/ethnicity of the child (Black, non-Hispanic/Hispanic/other) and household income categories (\$10,000 or less/\$10,001–\$25,000/\$25,001 or more), a cross of Census region (Northeast/South/Midwest/West) and urbanicity (urban/rural), and a cross of home tenure (rent/own or other) and age or grade of child (with those enrolled in school but having no grade equivalent assigned to the modal grade for their age). These raking dimensions were used because they include important analysis variables (e.g., grade) and characteristics that have been shown to be associated with telephone coverage (e.g., race/ethnicity). Table 7-9 and 7-10 show the control totals used for raking the ECPP and ASPA interview weights.

Table 7-9. Control totals for raking the ECPP-NHES:2001 person-level weights: CPS:1999 and CPS:2000

Characteristics used in raking	Control total
Total	20,281,225
Race/ethnicity of child by household income	
Black, n[on-Hispanic]	
\$10,000 or less	903,941
\$10,001-\$25,000	786,749
\$25,001 or more	1,299,255
Hispanic	
\$10,000 or less	585,259
\$10,001-\$25,000	1,361,729
\$25,001 or more	1,747,611
Other	
\$10,000 or less	789,577
\$10,001-\$25,000	1,999,918
\$25,001 or more	10,807,186
Census region¹ by urbanicity	
Northeast	
Urban	2,932,856
Rural	783,761
South	
Urban	4,674,758
Rural	2,135,003
Midwest	
Urban	3,488,476
Rural	1,378,273
West	
Urban	4,216,150
Rural	671,948
Home tenure by age/grade of child	
Rent	
Age 0	1,515,009
Age 1	1,484,801
Age 2	1,582,170
Age 3–6, not enrolled	1,692,269
Nursery/Preschool/Head Start	1,417,237
Own or other	
Age 0	2,352,826
Age 1	2,417,177
Age 2	2,348,363
Age 3–6, not enrolled	2,302,434
Nursery/Preschool/Head Start	3,168,939

¹ The following states and the District of Columbia are in each Census region: Northeast: CT, MA, ME, NH, NJ, NY, PA, RI, VT; South: AL, AR, DC, DE, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WV; Midwest: IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI; West: AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey (CPS), March 2000; October 1999.

Table 7-10. Control totals for raking the ASPA-NHES:2001 person-level weights: CPS:1999 and CPS:2000

Characteristics used in raking	Control total
Total.....	36,679,001
Race/ethnicity of child by household income	
Black, non-Hispanic	
\$10,000 or less	1,254,638
\$10,001-\$25,000	1,922,579
\$25,001 or more.....	2,685,666
Hispanic	
\$10,000 or less	791,211
\$10,001-\$25,000	2,094,365
\$25,001 or more.....	2,857,845
Other	
\$10,000 or less	1,189,588
\$10,001-\$25,000	3,518,165
\$25,001 or more.....	20,364,944
Census region¹ urbanicity	
Northeast	
Urban	5,304,128
Rural	1,417,447
South	
Urban	8,454,393
Rural	3,861,196
Midwest	
Urban	6,308,980
Rural	2,492,634
West	
Urban	7,624,991
Rural	1,215,232
Home tenure by age/grade of child	
Rent	
Transitional kindergarten/Kindergarten/Pre-1st grade	1,390,202
1st grade.....	1,431,051
2nd grade	1,327,395
3rd grade.....	1,344,591
4th grade	1,314,613
5th grade	1,306,471
6th grade	1,217,448
7th grade	1,117,932
8th grade	1,102,602

See notes at end of table.

Table 7-10. Control totals for raking the ASPA-NHES:2001 person-level weights: CPS:1999 and CPS:2000—Continued

Characteristics used in raking	Control total
Own or other	
Transitional kindergarten/Kindergarten/Pre-1st grade	2,440,869
1st grade.....	2,902,274
2nd grade	2,606,563
3rd grade.....	2,998,054
4th grade	2,899,098
5th grade	2,848,472
6th grade	2,804,840
7th grade	2,767,142
8th grade	2,859,384

¹ The following states and the District of Columbia are in each Census region: Northeast: CT, MA, ME, NH, NJ, NY, PA, RI, VT; South: AL, AR, DC, DE, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WV; Midwest: IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI; West: AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey (CPS), March 2000; October 1999.

Once the procedures described above were completed, estimates were produced for the surveys. As a standard practice in the NHES, estimates are compared to other sources to assess the credibility of the NHES weights. One such comparison is a comparison of the age distribution from NHES to the CPS. When this comparison was done, a discrepancy was found in estimates of the number of 5-year-olds. The estimate of 3,525,163 from the NHES was considerably lower than the estimate of 4,037,191 from the CPS. Concerns about the discrepancy between the NHES:2001 and CPS estimates of the total number of 5-year-olds resulted in a detailed investigation into the reasons for this and an evaluation of alternative sets of raking dimensions. The first step in this investigation was to review the implementation of the weighting methodology. Although checks had been conducted at each stage of weighting, the procedures were reviewed again to ensure that they had been correctly computed and applied. No problems were found in the computation or application of the weighting adjustments.

The raking procedure was determined to be the probable step that led to the discrepancy since the previous weights, the nonresponse-adjusted person-level weights, did not exhibit the problem. Thus, an evaluation was undertaken in which three alternative sets of raking dimensions were considered (see exhibit 7-1). In each case, the first two dimensions (race/ethnicity by household income, and Census region by urbanicity) remained the same. In Alternative 1, the home tenure by age/grade dimension was replaced with two dimensions: single year of age (alone), and home tenure by grade. In Alternative 2, the home tenure by age/grade dimension was replaced with a single dimension: home tenure by single year of age.

In Alternative 3, the home tenure by age/grade dimension was replaced by the single dimension of home tenure crossed with grade by age category. For each grade, two age categories were created: (1) at or below modal age for the grade and (2) above modal age for the grade. Prior to classifying children into raking cells for this dimension, the age of the child was recalculated as of September 30, to match the reference age used in computing the control totals from the CPS.

Four separate but potentially related concerns addressed in this evaluation were:

- Differences in estimates of the number of kindergartners;
- Large number of iterations required for convergence of the raking algorithm;
- Inconsistent ages (CPS age is as of September 30, while the NHES age is as of December 31); and
- The effect of the interaction between age and grade in the raking procedure.

The study of the weighting procedures for the ECPP and ASPA surveys from the NHES:2001 was wide ranging and had several important findings. The weighting procedures in the NHES:2001 were executed correctly. The original weights converged to the specified control totals with a small number of iterations, and the variability of the weights was reasonable. The original weighting procedure resulted in estimates of the number of 5-year-olds that differed from the CPS estimate by about 15 percent (500,000 children). The distributions of age by grade for children as measured in the CPS and the NHES differ, and this is mainly due to the difference in the time that data are collected.

The Alternative 1 weights produced estimates that matched the CPS estimates by age and by grade, but exhibited greater variability than desired. In particular, the mean raked weight for children within a grade decreased as age increased. Another issue noted was the large number of iterations required for the raking procedure to converge. With Alternative 2, the raked NHES estimate of kindergarten enrollment was about 500,000 higher than the CPS estimate. In general, with the exception of estimates of enrollment by grade, the Alternative 3 weights produced estimates that differed more from the CPS estimates than those produced using the original weights. The additional research found that the CPS estimate of the number of kindergarten children is at the lower end of the range computed using several sources. No study of CPS procedures was undertaken, but the method of classifying a child as being enrolled in kindergarten may differ between the CPS and some of the other sources.

As a result of the findings of this study, it was decided that the original weights should be used for analysis of the ECPP-NHES:2001 and ASPA-NHES:2001 data. Each of the alternatives considered had shortcomings, and no alternative was clearly preferable to the original weights. Thus, only the weights computed using the original methodology appear on the data files.

Appendix K provides additional detail on the review of ECPP and ASPA weights.

Exhibit 7-1. Raking schemes used in the evaluation of child-level weights: NHES:2001

Original

Three raking dimensions:

- Race/ethnicity of the child by household income
- Census region by urbanicity
- Home tenure by age or grade of child (age 0; age 1; age 2; ages 3-6, not enrolled; nursery/preschool; kindergarten; single grade, for grades 1 through 8)

Alternative 1⁴⁵

Four raking dimensions:

- Race/ethnicity of the child by household income
- Census region by urbanicity
- Single year of age
- Home tenure by grade/enrollment of child (not enrolled; nursery/preschool; kindergarten; single grade, for grades 1 through 8)

Alternative 2

Three raking dimensions:

- Race/ethnicity of the child by household income
- Census region by urbanicity
- Home tenure by age of child (single year of age, for ages 0 through 15)

Alternative 3

Three raking dimensions:

- Race/ethnicity of the child by household income
- Census region by urbanicity
- Home tenure by grade/age classification of child. For each grade, two subclassifications were created: At or below modal age for the grade, and above modal age for the grade). Age was recalculated to age as of September 30, 2000, for comparability to the CPS.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Household Education Surveys Program (NHES), 2001.

⁴⁵In addition, a “deaged” version of Alternative 1 was considered, in which age was recalculated to age as of September 30, 2000, for comparability to the CPS. Results from this version were similar to those from Alternative 1.

For the AELL interview, the four dimensions for the raking cells were a cross of the adult's race/ethnicity (Black, non-Hispanic/Hispanic/other) and household income (\$10,000 or less/\$10,001-\$25,000/\$25,001 or more), a cross of age (16–29 years/30–49 years/50 years or more) and sex, a cross of Census region (Northeast/South/Midwest/West) and urbanicity (urban/rural), and a cross of home tenure (rent/own or other) and highest educational attainment (less than high school diploma/high school diploma or equivalent/some college). These raking dimensions were used because they include important analysis variables (e.g., educational attainment) and characteristics that have been shown to be associated with telephone coverage (e.g., race/ethnicity).

The control totals for raking the AELL interview weights, shown in table 7-11, were obtained from the March 2000 CPS. The raking iterations were continued until the estimated totals were within 1 of all the control totals.

The final person-level weight for each sampled person k is

$$PW_{jk} = NPW_{jk} \cdot D_{k(d)},$$

where $D_{k(d)}$ is the raking adjustment factor for raking cell d , where person k has the attributes corresponding to the levels of the dimensions of raking cell d .

Table 7-11. Control totals for raking the AELL-NHES:2001 person-level weights: CPS:2001

Characteristics used in raking	Control total
Total.....	198,802,843
Race/ethnicity by household income	
Black, non-Hispanic	
\$10,000 or less.....	3,613,624
\$10,001-\$25,000.....	5,979,160
\$25,001 or more.....	12,593,627
Hispanic	
\$10,000 or less.....	2,577,983
\$10,001-\$25,000.....	6,595,603
\$25,001 or more.....	12,363,290
Other	
\$10,000 or less.....	9,241,027
\$10,001-\$25,000.....	26,763,611
\$25,001 or more.....	119,074,918
Age by sex	
16–29 years	
Male.....	20,715,422
Female.....	21,600,780
30–49 years	
Male.....	41,005,133
Female.....	42,618,407
50 years or more	
Male.....	33,234,159
Female.....	39,628,942
Census region¹ by urbanicity	
Northeast	
Urban.....	30,223,175
Rural.....	8,076,682
South	
Urban.....	48,406,360
Rural.....	22,107,612
Midwest	
Urban.....	32,690,941
Rural.....	12,915,964
West	
Urban.....	38,281,068
Rural.....	6,101,041

See notes at end of table.

**Table 7-11. Control totals for raking the AELL-NHES:2001 person-level weights: CPS:2001—
Continued**

Characteristics used in raking	Control total
Home tenure by highest educational attainment	
Rent	
Less than high school diploma	12,578,690
High school diploma or equivalent.....	28,686,587
Some college.....	13,401,253
Own or other	
Less than high school diploma	19,431,575
High school diploma or equivalent.....	76,837,457
Some college.....	47,867,281

¹ The following states and the District of Columbia are in each Census region: Northeast: CT, MA, ME, NH, NJ, NY, PA, RI, VT; South: AL, AR, DC, DE, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WV; Midwest: IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI; West: AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey (CPS), March 2000.

Methods for Computing Sampling Errors

In surveys with complex sample designs, such as the NHES:2001, direct estimates of the sampling errors assuming a simple random sample will typically underestimate the variability in the estimates. The NHES:2001 sample design and estimation included procedures that deviate from the assumption of simple random sampling, such as oversampling in areas with higher concentrations of minorities, sampling persons within households with differential probabilities, and raking to control totals.

Replication Sampling Errors

One method for computing sampling errors to reflect these aspects of the sample design and estimation is the replication method. Replication involves splitting the entire sample into a set of groups or replicates based on the actual sample design of the survey. The survey estimates can then be computed for each of the replicates by creating replicate weights that mimic the actual sample design and estimation procedures used in the full sample. The variation in the estimates computed from the replicate weights can then be used to estimate the sampling errors of the estimates from the full sample.

A total of 80 replicates were defined for the NHES:2001 based on the sampling of telephone numbers. This number was chosen to provide reliable estimates of sampling errors with reasonable data processing costs. The specific replication procedure used for the NHES:2001 was a jackknife replication method (Wolter 1985). It involved dividing the sample into 80 random subsamples (replicates) for the computation of the replicate weights. The 80 replicates were formed based on the minority status and listed stratum, and the sampling order of the telephone numbers. In each replicate, a replicate weight was developed using the same weighting procedures that were used to develop the full sample weight.

The jackknife variance estimator has the form

$$v(\hat{\theta}) = \frac{G-1}{G} \sum_{k=1}^G (\hat{\theta}_{(k)} - \hat{\theta})^2,$$

where θ is the population parameter of interest; $\hat{\theta}$ is the estimate of θ based on the full sample; $\hat{\theta}_{(k)}$ is the estimate of θ based on the observations included in the k th replicate; and G is the total number of replicates. (For the NHES:2001, $G = 80$.)

Replicate weights were created for each of the NHES:2001 surveys: the ECPP, the ASPA, and the AELL. In order to appropriately reflect the two-phase sampling of telephone numbers, the final replicate base weights were computed in two steps, using the approach described in Kim, Navarro, and Fuller (2000). The procedures for forming the replicate weights for each of these surveys are described below. For further details about the replication methodology used to reflect the two-phase sampling, refer to Kim, Navarro, and Fuller (2000).

1. The 206,182 sampled telephone numbers in the phase 1 sample were divided into the two minority strata used for the first phase of sampling. Within each of the two strata, the telephone numbers were sorted in the same order as that used in the selection of the phase 1 sample.
2. Eighty replicates were formed using all 206,182 telephone numbers. This was done by assigning the 1st, 81st, 161st, ... telephone numbers in the list to replicate 1; the 2nd, 82nd, 162nd, ... telephone numbers in the list to replicate 2; ...; and the 80th, 160th, 240th, ... telephone numbers in the list to replicate 80. Thus, there were 2,577 telephone numbers assigned to each of 58 replicates and 2,578 telephone numbers assigned to each of the remaining 22 replicates. Due to the subsampling used in the second phase of selection and to differences in residency and unit response rates among replicates, however, there is more variation in the number of units per replicate having positive final household weights.
3. The telephone numbers for residential households were then assigned 80 weight variables (REPL1 through REPL80) using the following procedures. The replicate phase 1 base weights were assigned to all 206,182 telephone numbers by multiplying the full-sample base weight by either zero or 80/79. This procedure is the standard jackknife method of dropping one unit (in this case, a group of residential households with the same replicate number) and weighting up the remaining units to account for the dropped unit. For example, to construct replicate 1 base weights, a replicate base weight of 0 is assigned to residential households from REPL1, and the base weights of all residential households in REPL2 through REPL80 are multiplied by a factor of 80/79. Next, the phase 2 sample (the 179,211 telephone numbers that were fielded) was assigned a final base weight by applying an adjustment for subsampling to the replicate phase 1 base weights within each of the phase 2 strata. Specifically, within each phase 2 stratum, the adjustment weights up the replicate base weights of phase 2 units to the total of the replicate base weights of the phase 1 units.
4. Using the exact same weighting procedures described earlier in this chapter⁴⁶ for each of the sets of full sample weights, the other adjustments (i.e., sampling adjustments, nonresponse adjustments, and raking adjustments) were applied to every replicate phase 2 base weight for completed interviews. In other words, the weighting steps were applied 80 times.

⁴⁶These steps do not include adjustments to take into account the effect of imputation on the variance of estimates. See chapter 6 for a discussion of this issue.

5. The difference in the methods used for the full sample and for the replicate weights was that the raking iterations were stopped when the replicate weights converged to within 10 of the control totals rather than 1, which was used in the full sample weighting.

These replicate weights are included in the ECPP file as FEWT1 through FEWT80. In the ASPA file, they are FSWT1 through FSWT80, and in the AELL file, they are FAWT1 through FAWT80. The replication procedure for the NHES:2001 surveys involves the calculation of 81 estimates, including an estimate using the full sample weight and estimates using each of the 80 replicate weights. The variation in the estimates computed from the replicate weights can then be used to estimate the sampling errors of the estimates from the full sample. The computation of the sampling errors using these replicate weights can be done easily using the Windows-based software package WesVar Complex Samples Software; the replication method should be specified as JK1. The current version of WesVar Complex Samples (version 4) is available from Westat. Information can be obtained at <http://www.westat.com/wesvar>. A previous version of WesVarPC (version 2.12) is available free of charge at that Web site or by sending an e-mail message to wesvar@westat.com. Please note that version 2.12 of WesVarPC is no longer being updated or revised.

Taylor Series Approximation

Another approach to the valid estimation of sampling errors for complex sample designs is to use a Taylor series approximation to compute sampling errors. To produce standard errors using a Taylor series program, such as SUDAAN (Shah et al. 1995), two variables are required to identify the stratum and the primary sampling unit (PSU). The stratum-level variable is the indicator of the variance estimation stratum from which the unit (telephone number or sampled person) was selected. The PSU is an arbitrary numeric identification number for the unit within the stratum. For the NHES:2001, the stratum variable signifies the minority stratum used in the first phase of sampling; the PSU variable was assigned sequentially based on the selection order of the telephone number within the minority stratum. Software packages that use Taylor series linearization for variance estimation, such as SUDAAN, do not currently have the capability to compute variance estimates that reflect the effect two-phase sampling has on the precision of the estimates.

The PSU and stratum variables appear on each of the extended interview files. On the ECPP file, the PSU and stratum variables are called EPSU and ESTRATUM; on the ASPA file, they are SPSU and SSTRATUM; and on the AELL file, they are APSU and ASTRATUM. These variables can be used in SUDAAN to produce standard errors by specifying that the design is a “with replacement” sample (DESIGN = WR) and that the sampling levels are given by the appropriate stratum and PSU variables.

For example, for estimates from the ASPA interview file, use SSTRATUM SPSU in the NEST statement. (Information on obtaining SUDAAN can be found at <http://www.rti.org/sudaan>.)

STATA, another software package that uses Taylor series methods, also uses the PSU and stratum variables to define the units needed for computation. (Information on obtaining STATA is available at <http://www.stata.com>.) To specify the stratum, PSU and weight variables in STATA use the svyset strata, svyset psu, and svyset pweight commands. For example, for estimates from the ASPA interview file, use the following commands to specify these design parameters:

```
svyset strata sstratum
svyset psu spsu
svyset pweight fswt
```

Data users should be aware that the use of different approaches or software packages in the calculation of standard errors may result in slightly different standard errors. Estimates of standard errors computed using the replication method and the Taylor series method are nearly always very similar, but not identical. For a discussion of this issue see Broene and Rust (2000).

Approximate Sampling Errors

Although calculating the sampling errors using the methods described above is recommended for many applications, simple approximations of the sampling errors may be valuable for some purposes. One such approximation is discussed below.

Most statistical software packages compute standard errors of the estimates based upon simple random sampling assumptions. The standard error from this type of statistical software can be adjusted for the complexity of the sample design to approximate the standard error of the estimate under the actual sample design used in the survey. For example, the variance of an estimated proportion in a simple random sample is the estimated proportion (p) times its complement ($1-p$) divided by the sample size (n). The standard error is the square root of this quantity. This estimate can be adjusted to more closely approximate the standard error for the estimates from the NHES:2001.

A simple approximation of the impact of the sample design on the standard errors of the estimates that has proved useful in previous NHES surveys and in many other surveys is to adjust the

simple random sample standard error estimate by the root design effect (DEFT). The DEFT is the ratio of the standard error of the estimate computed using the replication method discussed above to the standard error of the estimate under the assumptions of simple random sampling. An average DEFT is computed by estimating the DEFT for a number of estimates and then averaging. A standard error for an estimate can then be approximated by multiplying the simple random sample standard error estimate by the mean DEFT.

In complex sample designs, like the NHES:2001, the DEFT is typically greater than 1 due to the clustering of the sample and the differential weights attached to the observations. In the NHES:2001 both of these factors contributed to making the average DEFT greater than 1.

The average DEFT computed for estimates in the three interviews in the NHES:2001 ranged from 1.2 to 1.4. For the ECPP file estimates, the average DEFT was 1.2 overall. For estimates by path of child (infant or preschooler), the average DEFT was also 1.2. For estimates by race/ethnicity, the average DEFT was 1.2 for Hispanics and for White, non-Hispanics and was 1.3 for Black, non-Hispanics. Therefore, a DEFT of 1.2 is recommended to approximate the standard error of overall estimates in the ECPP interview file. For estimates by race/ethnicity, a DEFT of 1.2 is also recommended, with the exception of estimates of characteristics of Black, non-Hispanic children; for this subgroup, a DEFT of 1.3 is recommended.

The average DEFT for estimates from the ASPA file was 1.3. For estimates by path of student (grades kindergarten through 8 or homeschoolers), the average DEFT was also 1.3. For estimates by race/ethnicity, the average DEFT was 1.3 for Hispanics and for White, non-Hispanics and was 1.4 for Black, non-Hispanics. Therefore, a DEFT of 1.3 is recommended to approximate the standard error of overall estimates in the ASPA interview file. For estimates by race/ethnicity, a DEFT of 1.3 is also recommended, with the exception of estimates of characteristics of Black, non-Hispanic children; for this subgroup, a DEFT of 1.4 is recommended.

For estimates from the AELL file, the average DEFT is 1.3, and this did not vary for estimates by race/ethnicity, adult education participation status, or educational attainment. Therefore, a DEFT of 1.3 is recommended to approximate the standard error of estimates from the AELL interview file.

As stated above, the average DEFT can be used to approximate the standard error for an estimate. An example of how to do this on a percent estimate is as follows. If a weighted estimate of 46

percent is obtained for some characteristic in the AELL file (suppose that 46 percent of adults participated in adult education activities, excluding full-time credential programs), then an approximate standard error can be developed in a few steps. First, obtain the simple random sample standard error for the estimate using the weighted estimate in the numerator and the unweighted sample size in the denominator: the standard error for this 46 percent statistic would be 0.48 percent (the square root of $(46*54)/10,873$, where the weighted estimate (p) is 46 percent, 54 is 100 minus the estimated percent ($1-p$), and the unweighted sample size (n) is 10,873). The approximate standard error of the estimate from the NHES:2001 is this quantity (the simple random sample standard error) multiplied by the DEFT for the AELL file estimates of 1.3. In this example, the estimated standard error would be 0.62 percent (1.3×0.48 percent).

The approximate standard error for a mean can be developed using a related procedure. The three steps required to do so are demonstrated using an example from the ASPA file. First, the mean is estimated using the full sample weight and a standard statistical package like SAS or SPSS. Second, the simple random sample standard error is obtained through a similar, but unweighted, analysis. Third, the standard error from the unweighted analysis is multiplied by the mean DEFT for the ASPA file estimates of 1.3 to approximate the standard error of the estimate under the NHES:2001 design. For example, suppose the average total number of hours per week students in grades kindergarten through 8 spend in nonparental care arrangements or programs is 4.2 hours and the simple random sampling standard error (unweighted) is 0.08 hours. Then, the approximate standard error for the estimate would be 0.10 hours ($0.08 \text{ hours} \times 1.3$).

Users who wish to adjust the standard errors for estimates of parameters in regression models should follow a procedure similar to that discussed for means, above. Specifically, the estimates of the parameter in the model can be estimated using a weighted analysis in a standard statistical software package such as SAS or SPSS. A similar, but unweighted, analysis will provide the simple random sample standard errors for these parameter estimates. The standard errors can then be multiplied by the DEFT to arrive at the adjusted standard error for the NHES:2001 design. For example, if a given parameter in a model involving items from the ECPP file has a weighted estimate of 2.33 and a simple random sample standard error of 0.45, then the adjusted standard error would be $1.2 \times 0.45 = 0.54$.

Alternatively, the final weight can be adjusted to reflect the DEFT before the parameter estimates are calculated in a standard statistical software package such as SAS or SPSS. To do this, first sum the values of the final weights for the sample of interest. For instance, for an analysis of all infants and preschoolers, sum the final weights for all 6,749 cases on the ECPP file. Next, divide this sum by the

number of cases to generate an average final weight. (In the above example, the number of cases is 6,749). Multiply the average final weight by the square of the DEFT for the population of interest. (In the above example, the average final weight would be multiplied by the square of 1.2, or 1.44.) Divide the final weight by the adjusted average weight and save the quotient as a new final weight. (In the above example, the new final weight is equal to the final weight divided by the product of 1.44 and the average final weight.) Weight the analysis by this new final weight. The standard errors generated in the analysis will approximate the standard errors correctly adjusted for design effects.

Direct computation of the standard errors is always recommended. It is particularly important when the statistical significance of statements would be affected by small differences in the estimated standard errors.

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