## Chapter 3 <br> Outcomes of Data Collection

This chapter presents the overall outcomes of the study procedures described in Chapter 2, including institutional participation rates and "yield" rates for each of the sources of student data accessed through these procedures. Factors related to these outcomes, including the results of planned evaluations, are examined further in subsequent chapters of this report.

### 3.1 Institutional Participation

Only 11 ( 1 percent) of the $1,083^{1}$ institutions initially selected for the full-scale study were found to be ineligible for NPSAS:2000. The percentage ineligible was substantially less than in previous NPSAS rounds because institutions not participating in Title IV aid programs were excluded from eligibility in NPSAS:2000. Of the 11 NPSAS-ineligible sampled institutions, 7 failed to meet one or more of the NPSAS institutional eligibility criteria specified in Chapter 2, 2 closed between the time sampling frame information was collected and institutions were first contacted about participation in the study, and 2 were duplicated because of mergers with other sampled institutions. Institutional eligibility rates are shown in table 3-1, by institutional level of offering, control, and sector. ${ }^{2}$ Institutional eligibility varied considerably with level of offering and control; it was lowest for less-than-2-year institutions and for the private for-profit institutions. These differences were expected, and are consistent with results from prior NPSAS rounds.

The 1,072 eligible sample institutions were asked to participate in NPSAS:2000 by (1) providing comprehensive lists of students for sample selection and (2) assisting in abstracting data from student records for sampled students. Hence, the potential for institutional nonresponse existed at these two points in the survey process. Table 3-1 shows that 999 (93.2 percent) of the 1,072 eligible sample institutions provided a student enrollment list or database that could be used for sample selection. ${ }^{3}$ List provision rates (among eligible institutions) varied by type of institution considered.

[^0]Table 3-1.-Overall institutional eligibility and enrollment list participation rates

| Type of institution ${ }^{1}$ | Institutions sampled $^{2}$ | Eligible institutions ${ }^{3}$ |  | Institutions providing lists |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Percent ${ }^{4}$ | Number | Percent ${ }^{5}$ unweighted | Percent ${ }^{5}$ <br> weighted |
| All institutions | 1,083 | 1,072 | 99.0 | 999 | 93.2 | 91.3 |
|        <br> Institutional level       <br> $\quad$ Less-than-2-year 123 117 95.1 103 88.0 87.5 <br> 2-year 247 244 98.8 232 95.1 95.9 <br> 4-year non-doctorate-granting 317 315 99.4 292 92.7 86.1 <br> 4-year doctorate-granting 396 396 100.0 372 93.9 96.2 <br> Institutional control       |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Public | 580 | 576 | 99.3 | 545 | 94.6 | 94.4 |
| Private not-for-profit | 376 | 371 | 98.7 | 339 | 91.4 | 88.6 |
| Private for-profit | 127 | 125 | 98.4 | 115 | 92.0 | 91.0 |
| Institutional sector |  |  |  |  |  |  |
| Public less-than-2-year | 34 | 32 | 94.1 | 28 | 87.5 | 79.1 |
| Public 2-year | 198 | 196 | 99.0 | 185 | 94.4 | 96.4 |
| Public 4-year non-doctorate-granting | 127 | 127 | 100.0 | 123 | 96.9 | 94.0 |
| Public 4-year doctorate-granting | 221 | 221 | 100.0 | 209 | 94.6 | 95.0 |
| Private not-for-profit 2-year or less | 35 | 32 | 91.4 | 30 | 93.8 | 97.6 |
| Private not-for-profit 4-year non-doctorate-granting | 173 | 171 | 98.8 | 153 | 89.5 | 81.6 |
| Private not-for-profit 4-year doctorate granting | 168 | 168 | 100.0 | 156 | 92.9 | 96.5 |
| Private for-profit less-than-2-year | 77 | 75 | 97.4 | 67 | 89.3 | 88.4 |
| Private for-profit 2-year or more | 50 | 50 | 100.0 | 48 | 96.0 | 94.8 |

${ }^{1}$ Institutional classifications were verified by the institutions to correct classification errors on the sampling frame.
${ }^{2}$ During institutional contacting, we discovered that part of one school had recently split off and formed a separate institution. Both institutions are included.
${ }^{3}$ Among the 11 sampled institutions considered ineligible, 2 had closed since the sampling frame reference period, 2 were duplicates with other selected institutions, and the remaining 7 failed to meet one or more of the criteria for institutional NPSAS eligibility.
${ }^{4}$ Percentages are based on the number of institutions sampled within the row under consideration.
${ }^{5}$ Percentages are based on the number of eligible institutions sampled within the row under consideration.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

Weighted participation rates were calculated based on the institutional probabilities of selection and are also shown in table 3-1. ${ }^{4}$ The overall weighted participation rate of 91.3 percent and the weighted rates for most institution categorizations in table 3-1 are similar to the unweighted rates. However, NPSAS:2000 was designed to produce efficient estimates only at the student level. Institutions were selected with probabilities proportional to size; therefore, weighted institution-level estimates are subject to a high level of sampling variation.

[^1]
### 3.2 Matching to the Central Processing System

Table 3-2 summarizes the results of matching and downloading student data from the Department of Education's Central Processing System (CPS). The CPS contains data provided to ED by students and their families when they complete the Free Application for Federal Student Aid (FAFSA). The matching process required the use of the Federal Data Request (FDR) component of ED's EDConnect software. This component allowed RTI staff to dial into the CPS mainframe computer and to upload/download files on a regular basis. Submitting a record to the CPS required a valid Social Security number and a valid last name. A successful match required that the student have a valid application record within the CPS database.

The initial CPS matching process occurred after the student sample had been selected for an institution, but before institutional record (CADE) data collection activities had begun. This matching was against the CPS data for the 1999-2000 financial aid year. As shown in table 3-2, not all sample students were submitted to the CPS for matching. This was primarily because some institutions were unwilling or unable to provide valid Social Security numbers and last names. Following CADE, a small number of student cases that had not previously matched successfully to CPS were resubmitted, based on either a newly obtained Social Security number or the evidence in the institution records that the student had, in fact, applied for federal student aid for the 1999-2000 year. These matching processes included the matching of 1,141 cases to the CPS that were subsequently identified as ineligible for NPSAS, because the sample members did not meet all of the study eligibility criteria (e.g., not enrolled during the study year).

As can be seen from table 3-2, the overall matching rate for the 1999-2000 CPS data was 49 percent. Federal aid applications at public community colleges and technical institutions were expected to be proportionately less than in other sectors. Moreover, first-professional students tend to rely more on federal aid (primarily loans) whereas graduate students generally rely on institutional aid (teaching and research assistantships).

The NPSAS:2000 sample students were also matched to the 2000-2001 CPS files. It was expected that fewer sample students would successfully match to the 2000-2001 CPS files, primarily due to students who received degrees or certificates during the 1999-2000 NPSAS year and exited postsecondary education. Approximately 500 cases were excluded from matching to the 2000-2001 CPS files, because SSNs required for such matching were not available until after completion of these activities. Table 3-2 shows that, overall, 52.7 percent of sample students matched to either CPS 1999-2000 or CPS 2000-2001, and 25.3 percent matched to both data files.

The proportion of the sample that successfully matched to the CPS 2000-2001 (28.9 percent) was somewhat lower than the corresponding match rate to CPS 1996-97 obtained during the NPSAS:96 study ( 36.3 percent). This result is not surprising, because the NPSAS:96 sample included a large number of beginning postsecondary students, who were likely to still be enrolled in postsecondary education the following year, whereas the NPSAS:2000 sample included a proportionately larger number of baccalaureate recipients, who were more likely to be leaving postsecondary education the following year.
Table 3-2.-Matching sample students to CPS data for 1999-2000 and 2000-2001, by selected institutional and student classifications

| Type of student ${ }^{1}$ | Eligible students $^{2}$ | Matched to 1999-2000 |  | Matched to 2000-2001 ${ }^{3}$ |  | Matched to both years |  | Matched to either year |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| All students | 68,925 | 33,831 | 49.1 | 19,942 | 28.9 | 17,436 | 25.3 | 36,337 | 52.7 |
| Institution level |  |  |  |  |  |  |  |  |  |
| Less-than-2-year | 6,478 | 4,265 | 65.8 | 1,763 | 27.2 | 1,616 | 24.9 | 4,412 | 68.1 |
| 2-year | 13,145 | 5,502 | 41.9 | 3,754 | 28.6 | 3,034 | 23.1 | 6,222 | 47.3 |
| 4-year non-doctorate-granting | 18,245 | 9,895 | 54.2 | 5,735 | 31.4 | 5,176 | 28.4 | 10,454 | 57.3 |
| 4-year doctorate-granting | 31,057 | 14,169 | 45.6 | 8,690 | 28.0 | 7,610 | 24.5 | 15,249 | 49.1 |
| Institutional control |  |  |  |  |  |  |  |  |  |
| Public | 43,445 | 18,508 | 42.6 | 11,896 | 27.4 | 10,044 | 23.1 | 20,360 | 46.9 |
| Private not-for-profit | 18,700 | 10,287 | 55.0 | 5,922 | 31.7 | 5,399 | 28.9 | 10,810 | 57.8 |
| Private for-profit | 6,780 | 5,036 | 74.3 | 2,124 | 31.3 | 1,993 | 29.4 | 5,167 | 76.2 |
| Institutional sector |  |  |  |  |  |  |  |  |  |
| Public less-than-2-year | 1,502 | 529 | 35.2 | 249 | 16.6 | 198 | 13.2 | 580 | 38.6 |
| Public 2-year | 10,593 | 3,583 | 33.8 | 2,724 | 25.7 | 2,088 | 19.7 | 4,219 | 39.8 |
| Public 4-year non-doctorate-granting | 9,840 | 4,798 | 48.8 | 2,980 | 30.3 | 2,628 | 26.7 | 5,150 | 52.3 |
| Public 4-year doctorate-granting | 21,510 | 9,598 | 44.6 | 5,943 | 27.6 | 5,130 | 23.8 | 10,411 | 48.4 |
| Private not-for-profit 2-year or less | 1,770 | 1,223 | 69.1 | 719 | 40.6 | 648 | 36.6 | 1,294 | 73.1 |
| Private not-for-profit 4-year non-doctorate-granting | 7,751 | 4,636 | 59.8 | 2,514 | 32.4 | 2,313 | 29.8 | 4,837 | 62.4 |
| Private not-for-profit 4-year doctorate-granting | 9,179 | 4,428 | 48.2 | 2,689 | 29.3 | 2,438 | 26.6 | 4,679 | 51.0 |
| Private for-profit less-than-2-year | 4,364 | 3,298 | 75.6 | 1,302 | 29.8 | 1,217 | 27.9 | 3,383 | 77.5 |
| Private for profit 2-year or more | 2,416 | 1,738 | 71.9 | 822 | 34.0 | 776 | 32.1 | 1,784 | 73.8 |
| Student level |  |  |  |  |  |  |  |  |  |
| Total undergraduate | 56,069 | 29,874 | 53.3 | 17,466 | 31.2 | 15,303 | 27.3 | 32,037 | 57.1 |
| B\&B | 15,263 | 7,925 | 51.9 | 2,095 | 13.7 | 1,641 | 10.8 | 8,379 | 54.9 |
| Other undergraduate | 40,806 | 21,949 | 53.8 | 15,371 | 37.7 | 13,662 | 33.5 | 23,658 | 58.0 |
| Graduate | 11,538 | 3,001 | 26.0 | 1,827 | 15.8 | 1,518 | 13.2 | 3,310 | 28.7 |
| First-professional | 1,318 | 956 | 72.5 | 649 | 49.2 | 615 | 46.7 | 990 | 75.1 |

${ }^{1}$ Both institutional and student classifications were verified to correct classification errors on the sampling frame.
${ }^{2}$ Includes all sampled students for whom apparently legitimate Social Security numbers, obtained either before or during CADE, were submitted to CPS for matching for $1999-2000$. This figure includes approximately 500 cases who were rematched to CPS 1999-2000 because a Social Security number was obtained while ISIR data were being collected in CADE ${ }^{3}$ Only the original set of cases (having a valid Social Security number prior to CADE) was sent to CPS 2000-2001. This figure excludes approximately 500 cases that were sent for rematching to CPS 1999-2000 because a Social Security number was obtained while ISIR data were being collected in CADE.
NOTE: All percentages are unweighted and based on the number of eligible students within the row under consideration.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

### 3.3 Abstracting Students' Institutional Records

As previously indicated, 999 of the 1,072 eligible sample institutions provided a student enrollment list or database that could be used for sample selection. These institutions were therefore eligible to participate in the student record abstraction phase of the study referred to as CADE (computer-assisted data entry). Table 3-3 shows the weighted and unweighted CADE participation rates by several domains of interest. NPSAS:2000 included four CADE abstraction methods-Web, data file, field interviewer, and abbreviated CADE-each of which is described below.

At the institution level, an institution was classified as a participating institution if sufficient data were obtained for at least one sample student to be classified as a CADE record respondent. Only one institution provided CADE data for a single sample member.

### 3.3.1 Web-CADE

Both NPSAS:93 and NPSAS:96 included a computer-based option for NPSAS institutions to provide student record data. This has traditionally been known as "self-CADE." For the first time, NPSAS:2000 employed a Web-based methodology for obtaining data from student records. Figure 3-1 presents the home page of the NPSAS CADE Web site. As can be seen, visitors to the Web site were provided with links to frequently asked questions, information about the study, and a mechanism to log into the CADE system. Each Institutional Coordinator was mailed a unique CADE identifier, and then was given a password by phone. The login page, and all further-nested pages within the CADE application, were protected via a Secure Socket Layer (SSL) encryption safeguard. Further security was provided by an automatic "time out" feature, through which the user was automatically logged out of the CADE application if the system was idle for 20 minutes or longer. The system did not use any persistent "cookies," thus adhering to ED's privacy policy. Selected Central Processing System (CPS) data were preloaded into the web-CADE application before data collection began to reduce data entry burden for institution staff.

In total, 707 of the 999 CADE institutions agreed to provide student data via WebCADE. Ultimately, 694 ( 74 percent) of the 937 institutions that provided CADE data did so via the NPSAS CADE Web site. This proportion was somewhat higher than anticipated, since in NPSAS:96, 57 percent of institutions completed "self-CADE." However, given the availability of Web browsers and access to the Internet within the postsecondary education environment, it is assumed that the overall familiarity with the Web as a communication medium led to this increase.

Table 3-3.-Institution-level rates for obtaining institutional record data (CADE), by institutional sector and method of data abstraction

| Type of institution ${ }^{1}$ | Number of institutions providing lists | Institutions providing CADE ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Unweighted percent ${ }^{3}$ | Weighted percent ${ }^{3}$ |
| All institutions | 999 | 937 | 93.8 | 95.0 |
| Institution level |  |  |  |  |
| Less-than-2-year | 103 | 89 | 86.4 | 91.1 |
| 2-year | 232 | 222 | 95.7 | 98.6 |
| 4-year non-doctorate-granting | 292 | 274 | 93.8 | 94.6 |
| 4-year doctorate-granting | 372 | 352 | 94.6 | 94.1 |
| Institutional control |  |  |  |  |
| Public | 545 | 514 | 94.3 | 95.8 |
| Private not-for-profit | 339 | 317 | 93.5 | 93.6 |
| Private for-profit | 115 | 106 | 92.2 | 95.6 |
| Institutional sector |  |  |  |  |
| Public less-than-2-year | 28 | 25 | 89.3 | 88.2 |
| Public 2-year | 185 | 176 | 95.1 | 97.3 |
| Public 4-year non-doctorate-granting | 123 | 117 | 95.1 | 95.4 |
| Public 4-year doctorate-granting | 209 | 196 | 93.8 | 93.8 |
| Private not-for-profit 2-year or less | 30 | 27 | 90.0 | 93.8 |
| Private not-for-profit 4-year non-doctorate-granting | 153 | 141 | 92.2 | 93.3 |
| Private not-for-profit 4-year doctorate-granting | 156 | 149 | 95.5 | 94.0 |
| Private for-profit less-than-2-year | 67 | 58 | 86.6 | 92.4 |
| Private for profit 2-year or more | 48 | 48 | 100.0 | 100.0 |
| Abstraction method |  |  |  |  |
| Web | 707 | 694 | 98.2 | 97.5 |
| Data file | 71 | 29 | 40.8 | 33.0 |
| Field interviewer | 221 | 214 | 96.8 | 98.9 |

${ }^{1}$ Institutional classifications were verified by participating institutions to correct classification errors on the sampling frame.
${ }^{2}$ Provided institutional record data for at least one sampled student.
${ }^{3}$ Percentages are based on the number of eligible institutions that provided a list for sampling.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

Figure 3-1.-NPSAS CADE home page



SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

### 3.3.2 Datafile-CADE

As an alternative to keying data into the Web-CADE application, institutions were given detailed specifications for developing a set of data files containing student record data. Twentynine institutions, predominantly 4-year institutions, opted for this method of CADE abstraction. The specifications were customized for each institution so that they would have their own coding schemes for reporting various types of institution and state aid (the names of which were obtained from the Institutional Coordinator during the institution contacting phase of the study). Eight data files, including student-level, term-level, and aid award-level files, were required from each datafile-CADE institution in order to accurately match the identical data structure of the database underlying the Web-CADE application. Upon completion of the datafile-CADE file preparation, institutions submitted their data files back to RTI via the Web-CADE application. Upon submission, an automated quality control system processed the files and instantly reported back to the institutions any anomalies in the data (e.g., incorrect student ID variables, lack of term-level data for sample students, incorrect file names, etc.).

### 3.3.3 Field-CADE

Consistent with procedures implemented in both NPSAS:93 and NPSAS:96, institutions were given the option of having an RTI-employed field data collector visit the institution and provide student record data-entry services at no expense to the institution. This CADE abstraction method is referred to as field-CADE. In total, 214 institutions opted for field-CADE. In most instances, field data collectors were able to complete the data collection activities in 1 week or less, although certain institutions with a relatively high number of sample students required as much as 2 weeks of field data collector activity to complete the collection.

Field data collectors used a laptop-based CADE system for entering data abstracted from student records. The system included real-time edit features to help detect out-of-range or inconsistent entries. Data previously obtained from the Central Processing System were preloaded into the system before data collection began, to reduce the data collectors' level of effort.

### 3.3.4 Abbreviated CADE

A fourth method of CADE abstraction was used for the first time in NPSAS:2000. This procedure, known as "abbreviated CADE," was intended as a last-ditch effort to obtain participation by sample institutions. Essentially, institutions that had not provided an enrollment list by late fall of 2000 were given the option of being excluded from the separate, complete CADE process. Instead, they were allowed to provide an enhanced enrollment list containing not only the data necessary for sampling, but also selected student attributes and locating data. ${ }^{5}$ This set of 17 variables was considered sufficient for use in initializing the telephone interviewing system for the sample students, thus providing an opportunity to interview the students. These data were considered insufficient for defining the student-level case as a CADE respondent. Although not shown in table 3-3, 40 institutions chose to participate in this manner; these instructions are included in the "data file" count.

Rates for obtaining CADE data for the NPSAS:2000 sample students are shown in table 3-4. Again, both weighted and unweighted results are shown. The CADE data collection phase of the study was restricted to those students enrolled in the institutions providing an enrollment list from which a student sample could be selected. About 5,800 of the 70,200 sampled were subsequently determined not to meet the study eligibility requirements. Hence, the eligible CADE student sample consisted of about 64,500 students.

[^2]Table 3-4.-Student-level rates for obtaining institutional record data (CADE), by selected institutional and student classifications

| Type of student ${ }^{1}$ | Number of eligible students ${ }^{2}$ | CADE completion |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number ${ }^{3}$ | Unweighted percent ${ }^{4}$ | Weighted percent ${ }^{4}$ |
| All students | 64,471 | 59,290 | 92 | 97 |
| Institution level |  |  |  |  |
| Less-than-2-year | 5,810 | 4,640 | 80 | 86 |
| 2-year | 11,548 | 10,970 | 95 | 95 |
| 4-year non-doctorate-granting | 17,383 | 16,280 | 94 | 92 |
| 4-year doctorate-granting | 29,730 | 27,400 | 92 | 94 |
| Institutional control |  |  |  |  |
| Public | 39,984 | 37,200 | 93 | 93 |
| Private not-for-profit | 17,995 | 16,440 | 91 | 94 |
| Private for-profit | 6,492 | 5,650 | 87 | 94 |
| Institutional sector |  |  |  |  |
| Public less-than-2-year | 1,169 | 910 | 78 | 82 |
| Public 2-year | 9,167 | 8,690 | 95 | 94 |
| Public 4-year non-doctorate-granting | 9,132 | 8,680 | 95 | 91 |
| Public 4-year doctorate-granting | 20,516 | 18,920 | 92 | 93 |
| Private not-for-profit 2-year or less | 1,659 | 1,480 | 89 | 97 |
| Private not-for-profit 4-year non-doctorate-granting | 7,481 | 6,840 | 91 | 92 |
| Private not-for-profit 4-year doctorate-granting | 8,855 | 8,130 | 92 | 95 |
| Private for-profit less-than-2-year | 4,096 | 3,320 | 81 | 87 |
| Private for profit 2-year or more | 2,396 | 2,330 | 97 | 98 |
| Student level |  |  |  |  |
| Undergraduate | 52,033 | 48,010 | 92 | 94 |
| Graduate | 11,155 | 10,150 | 91 | 92 |
| First-professional | 1,283 | 1,130 | 88 | 91 |
| Abstraction method ${ }^{5}$ |  |  |  |  |
| Web | 42,421 | 41,130 | 97 | 99 |
| Data file ${ }^{5}$ | 3,592 | 2,940 | 82 | 86 |
| Field interviewer | 16,016 | 15,210 | 95 | 96 |

${ }^{1}$ Institutional classifications were verified by participating institutions to correct classification errors on the sampling frame.
${ }^{2}$ Includes all 70,232 sampled students minus the 5,761 found to be NPSAS-ineligible at any stage of data collection.
${ }^{3}$ A student was classified as a CADE record completion if key demographic, enrollment, and financial aid data were provided.
${ }^{4}$ Percentages are based on eligible students within the row under consideration.
${ }^{5}$ Excludes 2,442 students with abbreviated CADE information.
NOTE: To protect confidentiality, some numbers have been rounded.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

A student record was considered to represent a CADE record respondent if it met the following criteria:

- the CADE financial aid gate question was answered (Yes or No, including derived answer from abbreviated CADE cases), AND
- some amount of CADE enrollment data was provided (as indicated by at least one of the 12 monthly enrollment indicators being nonzero), AND
- the CADE student characteristics section had at least one valid response for the set of items (date of birth, marital status, race, sex). If the case was a CPS match, it was considered to have successfully met this criterion.

Overall, the unweighted CADE student record response rate (the percentage of studyeligible cases for whom a sufficiently complete CADE record was obtained) was 92 percent. The rate was lowest among students from public less-than-2-year institutions ( 78 percent) and highest among students from private for-profit 2-year-or-more institutions ( 97 percent). As was previously mentioned, institutions classified as abstracted through abbreviated CADE did not actually complete the record abstraction process. Rather, these institutions provided a more thorough set of data as part of the enrollment list. However, this set of 17 variables was not considered sufficient for a student to be considered a CADE record respondent.

### 3.4 Matching to NSLDS for Loan and Grant Data

Results of the National Student Loan Data System (NSLDS) attempted loan matching are shown in table 3-5. Because NSLDS files are historical, information about receipt of such loans was available not only for the NPSAS year but also for prior years of postsecondary education (where applicable); therefore the table shows match rates for both the NPSAS year and historically. In total, 21,410 study respondents ( 34.9 percent of those submitted) were matched for the NPSAS year. This is consistent with the NPSAS:96 result of 34.2 percent. Over all years, 34,089 study respondents ( 55.6 percent) were matched, including both undergraduate and graduate students.

Table 3-5.-Results of NSLDS loan matching, by selected institutional and student classifications

| Type of student ${ }^{1}$ | $\begin{gathered} \text { Study } \\ \text { respondents } \end{gathered}$ | Matched to loan data ${ }^{3}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Loan during NPSAS year |  | Loan historically ${ }^{4}$ |  |
|  |  | Number | Percent | Number | Percent |
| All students | 61,330 | 21,410 | 35 | 34,090 | 56 |
| Institution level |  |  |  |  |  |
| Less-than-2-year | 5,080 | 1,840 | 36 | 2,860 | 56 |
| 2-year | 11,150 | 2,320 | 21 | 4,460 | 40 |
| 4-year non-doctorate-granting | 16,760 | 6,700 | 40 | 10,170 | 61 |
| 4-year doctorate-granting | 28,340 | 10,550 | 37 | 16,590 | 59 |
| Institutional control |  |  |  |  |  |
| Public | 38,570 | 11,140 | 29 | 19,300 | 50 |
| Private not-for-profit | 16,910 | 7,330 | 43 | 10,630 | 63 |
| Private for-profit | 5,850 | 2,940 | 50 | 4,160 | 71 |
| Institutional sector |  |  |  |  |  |
| Public less-than-2-year | 1,050 | 90 | 8 | 280 | 27 |
| Public 2-year | 8,910 | 1,030 | 12 | 2,810 | 32 |
| Public 4-year non-doctorate-granting | 8,940 | 3,040 | 34 | 5,010 | 56 |
| Public 4-year doctorate-granting | 19,680 | 6,990 | 36 | 11,200 | 57 |
| Private not-for-profit 2-year or less | 1,470 | 630 | 43 | 860 | 58 |
| Private not-for-profit 4-year non-doctorate-granting | 7,130 | 3,260 | 46 | 4,640 | 65 |
| Private not-for-profit 4-year doctorate-granting | 8,320 | 3,440 | 41 | 5,130 | 62 |
| Private for-profit less-than-2-year | 3,590 | 1,600 | 45 | 2,360 | 66 |
| Private for profit 2-year or more | 2,260 | 1,340 | 59 | 1,800 | 80 |
| Student level |  |  |  |  |  |
| Undergraduate | 49,620 | 18,140 | 37 | 27,360 | 55 |
| Graduate | 10,510 | 2,430 | 23 | 5,760 | 55 |
| First-professional | 1,200 | 840 | 70 | 980 | 81 |

[^3]For NSLDS matches for the NPSAS year and within the student classifications considered, the relative numbers of matches followed a pattern quite similar to that seen for the CPS matching. The table shows low match rates for graduate students and for those in public institutions with program offerings of 2 years or less, but high match rates for first professional students and those in private for-profit institutions. This was not surprising given the expectation that federal aid applications at public community colleges and technical institutions would be less than for other types of institutions. In addition, graduate students generally depend on institutional aid such as assistantships, while first-professional students tend to depend primarily on federal loans.

Results of attempted matches to the NSLDS Pell grant data are shown in table 3-6. Matches were obtained for 13,500 study respondents ( 22 percent of those submitted) for the NPSAS year.
Table 3-6.-Results of NSLDS Pell grant matching, by selected institutional and student classifications

| Type of student ${ }^{1}$ | Study respondents ${ }^{2}$ | Matched to Pell data |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Grants during NPSAS year |  | Grant historically ${ }^{3}$ |  |
|  |  | Number | Percent | Number | Percent |
| All students | 61,330 | 13,550 | 22 | 21,430 | 35 |
| Institution level |  |  |  |  |  |
| Less-than-2-year | 5,080 | 2,670 | 52 | 3,180 | 63 |
| 2-year | 11,150 | 2,750 | 25 | 4,090 | 37 |
| 4-year non-doctorate-granting | 16,760 | 3,990 | 24 | 6,370 | 38 |
| 4 -year doctorate-granting | 28,340 | 4,150 | 15 | 7,790 | 28 |
| Institutional control |  |  |  |  |  |
| Public | 38,570 | 7,320 | 19 | 12,510 | 32 |
| Private not-for-profit | 16,910 | 3,360 | 20 | 5,390 | 32 |
| Private for-profit | 5,850 | 3,870 | 66 | 3,520 | 60 |
| Institutional sector |  |  |  |  |  |
| Public less-than-2-year | 1,050 | 280 | 27 | 390 | 37 |
| Public 2-year | 8,910 | 1,760 | 20 | 2,830 | 32 |
| Public 4-year non-doctorate-granting | 8,940 | 2,070 | 23 | 3,430 | 38 |
| Public 4-year doctorate-granting | 19,680 | 3,210 | 16 | 5,870 | 30 |
| Private not-for-profit 2-year or less | 1,470 | 690 | 47 | 880 | 60 |
| Private not-for-profit 4-year non-doctorategranting | 7,130 | 1,740 | 24 | 2,670 | 38 |
| Private not-for-profit 4-year doctorate granting | 8,320 | 920 | 11 | 1,840 | 22 |
| Private for-profit less-than-2-year | 3,590 | 2,090 | 58 | 2,440 | 68 |
| Private for profit 2-year or more | 2,260 | 780 | 35 | 1,080 | 48 |
| Student level |  |  |  |  |  |
| Undergraduate | 49,620 | 13,490 | 27 | 19,750 | 40 |
| Graduate | 10,510 | 60 | 1 | 1,410 | 13 |
| First-professional | 1,200 | 10 | 1 | 260 | 22 |

${ }^{1}$ Both institutional and student classifications were verified to correct classification errors on the sampling frame.
${ }^{2}$ Includes study respondents for whom an apparently legitimate Social Security number was available. Study respondents were defined as eligible sample students for whom completed CADE and/or student interview data were obtained.
${ }^{3}$ Over all years of postsecondary education reflected in the NSLDS files.
NOTE: To protect confidentiality, some numbers have been rounded. All percentages are unweighted and based on the total number of study respondents within the row under consideration.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

This is consistent with the NPSAS:96 result of 22 percent. Over all years, 21,400 study respondents ( 35 percent) were matched. A handful of the matches for the NPSAS year involved graduate and first-professional students, who were not eligible for this form of financial aid. However, the matched graduate and first-professional sample members were undergraduates at some time during the year (and as such were eligible for this type of aid during the year). Consistent with expectations, the Pell match rate was highest among students at private for-profit less-than-2-year institutions.

### 3.5 Matching to ACT and SAT Data

Interview data pertaining to standard test scores have typically been characterized by high rates of nonresponse. To overcome this problem and provide this additional information to the student characteristics profile, student records were matched to the ACT and SAT files. Results of the ACT and SAT score matching are shown in table 3-7. A total of 16,500 unique cases matched to ACT data in the years 1991-92 through 1999-2000 (27 percent). If a student matched to more than one year, only the most recent test year information was kept on the file. SAT matches were acquired for 14,700 of the respondent cases ( 24 percent). This matching was conducted for test years 1995 through 1999. Similar to the ACT, if a student matched to more than one SAT test year, only the most recent record was kept in the file.

The highest rate of matches to the ACT file occurred with the public, 4-year institutions. These are the types of institutions that typically require the ACT, particularly in the middle part of the country. Students from schools with program offerings of 2 years or less experienced the lowest match rates. These students usually do not need to take the ACT. Another difference in match rates occurred among student levels. The graduate student match rate was much lower than the first-professional rate, and one would expect these to be comparable. This may be explained by looking at the average student age within the student levels. The first-professional average age was 27.8 years, while the graduate average age was 33.4 years. The graduate students were, on average, 5.6 years older than the first-professional students were. Therefore, the much lower rate for graduate students probably occurred because the matches of graduate test records did not extend far enough back in time to capture them.

The highest match rate to the SAT file was for students at schools with program offerings of 4 years. The rates were lowest for the 2 -year-or-less institutions. In addition, rates were fairly low for the private for-profit schools. Consistent with the ACT matches, these rates reflect the type of institutions requiring the SAT. The low graduate and first-professional rates (as well as the difference between those two) can probably be explained by the average age differences among the different student levels, as described in the ACT discussion above.

### 3.6 Student Locating and Interviewing

Collecting data directly from student sample members in NPSAS:2000 consisted of three sequential steps: locating (identifying an initial telephone number or address at which the sample member could be reached), contacting (making the necessary attempts to reach the sample member), and interviewing (convincing the sample member to cooperate and participate in the interview). The amount of time and level of effort required to complete these steps with any
given sample member varied considerably. Some sample members were reached and interviewed on the first attempt at contact. Others required considerable tracing (contacting of parents, former roommates, etc.) before they were successfully located and interviewed. Student interviewing for NPSAS was also complicated by the two-tiered study design (separate institutional and student data collections) and the varying rates of cooperation at the institution level. As a result, not all cases were available to be worked at the start of CATI data collection. Rather, the cases flowed into CATI after student lists were obtained from schools, students were sampled from the lists, and CADE information (particularly locating information) was collected from the participating institutions.

Figure 3-2 illustrates outcomes of student locating and interviewing and related caseresolution activities. Student data were collected primarily by computer-assisted telephone interview (CATI), with follow-up of nonrespondents by computer-assisted personal interview (CAPI) and/or self-administered mail survey. The data collection period ran from May 22, 2000, to February 28, 2001.

One week before a student case was released into CATI production, sample members were sent an advance mailing, which included a cover letter and study leaflet. These letters were mailed in batches twice a week as new cases were loaded into CATI to be worked. Letters were mailed to 64,800 sample. Additionally, 6,300 sample members requested that a letter be remailed during data collection, because they had either misplaced the letter or not received it.

Attempts were made to locate 66,300 of the original 70,200 sampled ( 3,300 cases were determined to be ineligible for NPSAS during CADE and 640 were sampled but not loaded into CATI because they had no locating/tracing information and/or such information was obtained too late). Overall, 54,400 (82 percent), including CATI ineligibles and exclusions, of the initial CATI sample were located; 12,000 ( 18 percent) of the original sample were not located. Of those located, 44,500 completed all or part of the interview; 6,500 were located, but did not complete the interview; 2,500 were determined to be ineligible for NPSAS based on their responses to the interview; and, about 900 were considered exclusion cases. ${ }^{6}$

Student interviewing results for those students who were located are also shown schematically in figure 3-2. Approximately 40,400 completed the entire interview, while 3,300 completed either a paper-copy mail questionnaire or an "abbreviated" interview (that is, a version of the questionnaire containing key data elements), and 750 completed only part (including at least section A) of the NPSAS interview. ${ }^{7}$

[^4]Table 3-7.-Results of ACT and SAT score matching, by selected institutional and student classifications

| Type of student ${ }^{1}$ | Study respondents ${ }^{2}$ | Matched to $\mathrm{ACT}^{3}$ |  | Matched to SAT ${ }^{4}$ |  | Matched to Either ACT and SAT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Percent ${ }^{5}$ | Number | Percent ${ }^{5}$ | Number | Percent ${ }^{5}$ |
| All students | 61,330 | 16,540 | 27 | 14,680 | 24 | 26,180 | 43 |
| Institution level |  |  |  |  |  |  |  |
| Less-than-2-year | 5,080 | 560 | 11 | 280 | 6 | 770 | 15 |
| 2-year | 11,150 | 2,150 | 19 | 1,610 | 15 | 3,330 | 30 |
| 4-year non-doctorate-granting | 16,760 | 4,890 | 29 | 4,490 | 27 | 8,100 | 48 |
| 4 -year doctorate-granting | 28,340 | 8,940 | 32 | 8,290 | 29 | 13,980 | 49 |
| Institutional control |  |  |  |  |  |  |  |
| Public | 38,570 | 11,630 | 30 | 9,160 | 24 | 17,540 | 46 |
| Private not-for-profit | 16,910 | 4,240 | 25 | 5,080 | 30 | 7,630 | 45 |
| Private for-profit | 5,850 | 670 | 12 | 440 | 8 | 1,010 | 17 |
| Institutional sector |  |  |  |  |  |  |  |
| Public less-than-2-year | 1,050 | 160 | 15 | 20 | 2 | 180 | 17 |
| Public 2-year | 8,910 | 1,680 | 19 | 1,240 | 14 | 2,570 | 29 |
| Public 4-year non-doctorate-granting | 8,940 | 2,750 | 31 | 2,310 | 26 | 4,440 | 50 |
| Public 4-year doctorate-granting | 19,680 | 7,050 | 36 | 5,580 | 28 | 10,350 | 53 |
| Private not-for-profit 2-year or less | 1,470 | 350 | 24 | 270 | 19 | 540 | 37 |
| Private not-for-profit 4-year non-doctorate-granting | 7,130 | 2,010 | 28 | 2,100 | 30 | 3,470 | 49 |
| Private not-for-profit 4-year doctorate-granting | 8,320 | 1,880 | 23 | 2,710 | 33 | 3,620 | 44 |
| Private for-profit less-than-2-year | 3,590 | 360 | 10 | 220 | 6 | 530 | 15 |
| Private for profit 2-year or more | 2,260 | 310 | 14 | 220 | 10 | 490 | 22 |
| Student level |  |  |  |  |  |  |  |
| Undergraduate | 49,620 | 15,410 | 31 | 14,330 | 29 | 24,840 | 50 |
| Graduate | 10,510 | 840 | 8 | 260 | 2 | 1,000 | 10 |
| First-professional | 1,200 | 290 | 24 | 90 | 8 | 340 | 28 |

${ }^{1}$ Both institutional and student classifications were verified to correct classification errors on the sampling frame.
${ }^{2}$ Includes study respondents for whom an apparently legitimate Social Security number was available. Study respondents were defined as eligible sample students for whom completed CADE and/or student interview data were obtained.
${ }^{3}$ Matching attempts included ACT's taken between 1991-1992
${ }^{3}$ Matching attempts included ACT's taken between 1991-1992 and 1999-2000.
${ }^{4}$ Matches attempts included SAT's taken from 1995-1999
${ }^{5}$.
${ }^{5}$ Percentages are unweighted and based on the total number of study respondents within the row under consideration.
NOTE: To protect confidentiality, some numbers have been rounded.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

Figure 3-2.-Student sample case flow through locating, CATI interviewing, and related case resolution


SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

A total of 6,500 potentially eligible students who were located were not interviewed. Of these, about 5,200 were explicit final refusals. These cases represent situations in which subsequent attempts at interviewing were determined to be infeasible or unwise. Also not interviewed were 1,340 sample members for whom time ran out before they could complete the interview. These cases were loaded late in the data collection period (in January or February 2001), restricting the time to adequately work them. ${ }^{8}$

NPSAS:2000 student locating and interviewing (for those located) results by institution type and student type are provided in table 3-8, for eligible sample members for whom CATI locating was attempted. Students in private for-profit institutions proved to be more difficult to find (locate rates: 72 percent private for-profit; 82 percent private not-for-profit; 82 percent public) and slightly less willing to participate once the student was located (interviewed-whenlocated rates: 85 percent private for-profit; 88 percent private not-for-profit; 87 percent public). Similarly, the locate rates were lower for students in less-than-2-year schools (71 percent) and 2year institutions ( 78 percent) than they were for either 4 -year doctorate-granting ( 88 percent) or 4 -year non-doctorate-granting ( 89 percent) institutions. In terms of student type, baccalaureate recipients ( 84 percent) and graduate and first-professional students ( 83 percent) were easier to locate than were non-baccalaureate-receiving undergraduates ( 79 percent). Once they were located, however, there were only slight differences among these groups in terms of the percentage interviewed.

Weighted overall CATI response rates are provided in table 3-9 and constitute the target population directly represented by the NPSAS:2000 study respondents. This rate was computed as the product of the weighted institution and student response rates. Coverage of entire clusters of students was lost when sample institutions did not participate. Additionally, coverage was lost when individual students in participating institutions failed to respond. The cumulative effect on coverage of the student population is reflected by the overall weighted student CATI response rate of 66 percent, ranging from 72 percent for students attending private, not-forprofit, doctorate-granting institutions to 57 percent for students attending public, less-than-2-year institutions.

### 3.7 Overall Study Participation

The students included in the final NPSAS:2000 analysis database were defined to be the overall "study respondents," meeting the requirements specified above for being a CADE record respondent and/or CATI respondent. Using this definition of the overall study response status, table 3-10 shows that about 62,000 of the 64,500 eligible sample students were classified as "study respondents" for an unweighted study response rate of 96 percent. This table also presents the study response rates, weighted and unweighted, by various institutional and student classifications. The weighted rates are based on the student sampling weights with adjustments for institutional nonresponse and for student multiplicity (attendance at more than one NPSASeligible institution during the NPSAS year). The overall weighted study response rate in table 3-

[^5]10 was 89 percent. Both weighted and unweighted response rates shown in table 3-10 are quite consistent.

Table 3-8.-NPSAS:2000 student locating and interview results by institution and student type

| Type of student ${ }^{\mathbf{1}}$ | Total ${ }^{2}$ | Located |  | Interviewed when located |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number located | Percent located | Number interviewed | Percent interviewed |
| All students | 62,970 | 51,010 | 81 | 44,490 | 87 |
| Institution level |  |  |  |  |  |
| Less-than-2-year | 5,560 | 3,940 | 71 | 3,360 | 85 |
| 2-year | 11,350 | 8,890 | 78 | 7,490 | 84 |
| 4-year non-doctorate-granting | 17,090 | 14,280 | 84 | 12,630 | 89 |
| 4-year doctorate-granting | 28,960 | 23,900 | 83 | 21,020 | 88 |
| Institutional control |  |  |  |  |  |
| Public | 39,330 | 32,250 | 82 | 28,060 | 87 |
| Private not-for-profit | 17,340 | 14,200 | 82 | 12,540 | 88 |
| Private for-profit | 6,300 | 4,560 | 72 | 3,890 | 85 |
| Institutional sector |  |  |  |  |  |
| Public less-than-2-year | 1,150 | 870 | 76 | 740 | 86 |
| Public 2-year | 9,050 | 7,130 | 79 | 5,950 | 84 |
| Public 4-year non-doctorate-granting | 9,040 | 7,620 | 84 | 6,730 | 88 |
| Public 4-year doctorate-granting | 20,090 | 16,630 | 83 | 14,640 | 88 |
| Private not-for-profit 2-year or less | 1,530 | 1,110 | 73 | 980 | 88 |
| Private not- 4-year non-doctorategranting | 7,290 | 6,090 | 84 | 5,410 | 89 |
| Private not-for-profit 4-year doctorategranting | 8,520 | 7,000 | 82 | 6,150 | 88 |
| Private for-profit less-than-2-year | 3,940 | 2,760 | 70 | 2,350 | 85 |
| Private for-profit 2-year or more | 2,360 | 1,800 | 76 | 1,550 | 86 |
| Student type |  |  |  |  |  |
| Total undergraduate | 50,840 | 40,890 | 80 | 35,540 | 87 |
| B\&B | 14,030 | 11,780 | 84 | 10,400 | 88 |
| Other undergraduates | 36,810 | 29,110 | 79 | 25,130 | 86 |
| Graduate | 10,870 | 9,080 | 84 | 8,040 | 89 |
| First-professional | 1,250 | 1,040 | 83 | 920 | 88 |

[^6]Table 3-9.-Student interview (CATI) response rates, by selected institutional and student classifications

| Type of student | Eligiblestudents $^{2}$ | Student interview completed |  |  | $\begin{aligned} & \text { Weighted } \\ & \text { institutional } \\ & \text { response } \\ & \text { rate } \end{aligned}$ | Overall weighted response rate ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Unweighted percent | Weighted percent |  |  |
| All students | 63,600 | 44,490 | 70 | 72 | 91 | 66 |
| Institutional level |  |  |  |  |  |  |
| Less-than-2-year | 5,740 | 3,540 | 62 | 68 | 88 | 59 |
| 2-year | 11,400 | 7,490 | 66 | 69 | 96 | 66 |
| 4-year non-doctorate-granting | 17,210 | 12,630 | 73 | 75 | 86 | 65 |
| 4-year doctorate-granting | 29,530 | 21,020 | 71 | 74 | 96 | 71 |
| Institutional control |  |  |  |  |  |  |
| Public | 39,490 | 28,060 | 71 | 72 | 94 | 68 |
| Private not-for-profit | 17,700 | 12,540 | 71 | 74 | 89 | 66 |
| Private for-profit | 6,420 | 3,890 | 61 | 69 | 91 | 63 |
| Institutional sector |  |  |  |  |  |  |
| Public less-than-2-year | 1,150 | 740 | 65 | 72 | 79 | 57 |
| Public 2-year | 9,050 | 5,950 | 66 | 69 | 96 | 66 |
| Public 4-year non-doctorate-granting | 9,050 | 6,730 | 74 | 76 | 94 | 71 |
| Public 4-year doctorate-granting | 20,240 | 14,640 | 72 | 74 | 95 | 70 |
| Private not-for-profit 2-year or less | 1,630 | 980 | 60 | 69 | 98 | 67 |
| Private not-for-profit 4-year non-doctorate-granting | 7,410 | 5,410 | 73 | 75 | 82 | 61 |
| Private not-for-profit 4-year doctorate-granting | 8,660 | 6,150 | 71 | 74 | 97 | 72 |
| Private for-profit less-than-2-year | 4,060 | 2,350 | 58 | 67 | 88 | 59 |
| Private for profit 2-year or more | 2,360 | 1,550 | 66 | 70 | 95 | 66 |
| Student level |  |  |  |  |  |  |
| Undergraduate | 51,340 | 35,540 | 69 | 71 | 93 | 66 |
| Graduate | 11,000 | 8,040 | 73 | 77 | 87 | 67 |
| First-professional | 1,270 | 920 | 73 | 78 | 96 | 75 |

[^7]Table 3-10.-Study respondents, by selected institutional and student classifications

| Type of student ${ }^{1}$ | Eligible students ${ }^{2}$ | Study respondents |  |  | Weighted institutional response rate | Overall weighted response ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Unweighted percent | Weighted percent ${ }^{3}$ |  |  |
| All students | 64,470 | 61,770 | 96 | 97 | 91 | 89 |
| Institution level |  |  |  |  |  |  |
| Less-than-2-year | 5,810 | 5,140 | 89 | 94 | 88 | 82 |
| 2-year | 11,550 | 11,220 | 97 | 97 | 96 | 93 |
| 4-year non-doctorate-granting | 17,380 | 16,910 | 97 | 97 | 86 | 84 |
| 4 -year doctorate-granting | 29,730 | 28,490 | 96 | 97 | 96 | 93 |
| Institutional control |  |  |  |  |  |  |
| Public | 39,980 | 38,680 | 97 | 97 | 94 | 92 |
| Private not-for-profit | 18,000 | 17,110 | 95 | 97 | 89 | 86 |
| Private for-profit | 6,490 | 5,980 | 92 | 97 | 91 | 88 |
| Institutional sector |  |  |  |  |  |  |
| Public less-than-2-year | 1,170 | 1,060 | 91 | 95 | 79 | 76 |
| Public 2-year | 9,170 | 8,930 | 97 | 97 | 96 | 94 |
| Public 4-year non-doctorate-granting | 9,130 | 8,950 | 98 | 97 | 94 | 91 |
| Public 4-year doctorate-granting | 20,520 | 19,730 | 96 | 97 | 95 | 92 |
| Private not-for-profit 2-year or less | 1,660 | 1,510 | 91 | 98 | 98 | 96 |
| Private not-for-profit 4-year non-doctorate-granting | 7,480 | 7,190 | 96 | 97 | 82 | 79 |
| Private not-for-profit 4-year doctorate-granting | 8,860 | 8,410 | 95 | 97 | 97 | 94 |
| Private for-profit less-than-2-year | 4,100 | 3,630 | 89 | 93 | 88 | 82 |
| Private for profit 2-year or more | 2,400 | 2,350 | 98 | 99 | 95 | 94 |
| Student level |  |  |  |  |  |  |
| Undergraduate | 52,030 | 49,930 | 96 | 97 | $93^{4}$ | 90 |
| Graduate | 11,160 | 10,640 | 95 | 97 | $87^{4}$ | 85 |
| First-professional | 1,280 | 1,200 | 93 | 95 | $96^{4}$ | 92 |

${ }^{1}$ Both institutional and student classifications were verified to correct classification errors on the sampling frame.
${ }^{2}$ The eligible group comprised all 70,200 sampled students minus the 5,800 found to be NPSAS-ineligible at any stage of data collection. However, in order to estimate "study" response most accurately, CATI exclusions as well as sample members never loaded into CATI were included in the eligible totals in this table.
${ }^{3}$ The overall study weighted response rate was computed as the product of the weighted student yield and the weighted institutional yield and, thus, accounts for nonresponse at each stage of data collection.
${ }^{4}$ The weighted institution response rate for a given student level was calculated as the response rate of all institutions with that level of offering.
NOTE: To protect confidentiality, some numbers have been rounded. Percentages are based on the eligible students within the row under consideration.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

### 3.8 Reinterviews

Among eligible sample members who completed the NPSAS:2000 interview, a random sample was selected to participate in a reliability reinterview that contained a small subset of the interview items. The reinterviews began approximately 1 month after the initial interview. ${ }^{9}$ A total of 275 respondents were selected for the reliability reinterview. The reinterview sample, together with rates of participation, are shown in table 3-11. ${ }^{10}$

Table 3-11.-Reliability reinterview results, by student and institution classifiers

| Type of student ${ }^{\mathbf{1}}$ | Selected for reinterview |  | Participated in reinterview |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Number | Percent $^{2}$ | Number | Percent $^{3}$ |
| All students | 275 | 100.0 | 235 | 85.5 |
| Institutional control |  |  |  |  |
| Public | 178 | 64.7 | 153 | 86.0 |
| Private not-for-profit | 75 | 27.3 | 66 | 88.0 |
| Private for-profit | 22 | 8.0 | 16 | 72.7 |
| Student level |  |  |  |  |
| Undergraduate | 231 | 84.0 | 195 | 84.4 |
| Graduate | 39 | 14.2 | 35 | 89.7 |
| First-professional | 1.8 | 5 | 100.0 |  |

${ }^{1}$ Institutional classifications were verified by participating institutions to correct classification errors on the sampling frame.
${ }^{2}$ Percentage of total cases selected for reinterview.
${ }^{3}$ Percentages are based on the number of students in the row under consideration.
SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

[^8]3. Outcomes of Data Collection


[^0]:    ${ }^{1}$ During institutional contacting, it was discovered that part of one institution had recently split off and formed a separate institution. Both institutions were considered to be in the sample and therefore increased the sample size from 1,082 to 1,083 .
    ${ }^{2}$ In this and subsequent tables, institutional classification errors on the sampling frame were corrected; consequently, counts within corrected classifications differ somewhat from those in Chapter 2 based on sampling strata.
    ${ }^{3}$ One institution provided only a baccalaureate list, which was not sufficient for sample selection.

[^1]:    ${ }^{4}$ The weighted response rates can be interpreted as the estimated percentages of institutions in the population that would have provided a usable student sampling list, if asked.

[^2]:    ${ }^{5}$ The 17 variables requested on the enrollment list for purposes of classifying an institution as participating in the study included student SSN, first name, last name, middle initial, student level, local phone and address variables, permanent phone and address variables, IPEDS ID of school attended, bachelor's degree recipient status, total institution grant aid, total state grant aid, and student major/field of study.

[^3]:    ${ }^{1}$ Both institutional and student classifications were verified to correct classification errors on the sampling frame.
    ${ }^{2}$ Includes study respondents for whom an apparently legitimate Social Security number was available. Study respondents were defined as eligible sample students for whom completed CADE and/or student interview data were obtained.
    ${ }^{3}$ The loan transaction matches for any year do not necessarily reflect a loan during the year. They may represent a consolidation or cancellation transaction.
    ${ }^{4}$ Over all years of postsecondary education reflected in the NSLDS files.
    NOTE: To protect confidentiality, some numbers have been rounded. All percentages are unweighted and based on the total number of study respondents within the row under consideration.
    SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

[^4]:    ${ }^{6}$ Exclusion cases consisted of students who were out of the country, unavailable during survey period, institutionalized, incapacitated or who had a language barrier.
    ${ }^{7}$ A large percentage $(2,450$ of 3,300$)$ of the "abbreviated" interviews were conducted with Spanish-speaking-only sample members.

[^5]:    ${ }^{8}$ This group likely contains, however, an unknown number of implicit refusal cases, individuals who after first contact used answering machines or friends/relatives as gatekeepers, as well as those who continued to make (and then break) appointments for an interview.

[^6]:    ${ }^{1}$ Both institution and student classifications were verified to correct classification errors on the sampling frame.
    ${ }^{2}$ Statistics exclude 5,761 NPSAS-ineligible sample members (as determined during record extraction or in CATI); 868 sample members who were either unavailable for the duration of the survey, out of country, or institutionalized; and 638 cases that were sampled but never worked in CATI.

    NOTE: To protect confidentiality, some numbers have been rounded. All percentages are unweighted and based on the eligible count within the row under consideration.
    SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999-2000 (NPSAS:2000).

[^7]:    Both institutional and student classifications were verified to correct classification errors on the sampling frame.
    ${ }^{2}$ The eligible group comprised all 70,200 sampled students minus the 5,800 found to be NPSAS-ineligible at any stage of data collection and 900 CATI exclusions. However, in order to estimate student interview response rates most accurately, the 638 sample members who were never loaded into CATI were included in the eligible totals in this table. ${ }^{3}$ The overall CATI weighted response rate was computed as the product of the weighted student CATI yield and the weighted institutional yield. ${ }^{4}$ The weighted institutional response rate for a given student level was calculated as the response rate of all institutions with that level of offering. NOTE: To protect confidentiality, some numbers have been rounded. Percentages are based on the eligible students within the row under consideration. SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 1999--2000 (NPSAS:2000).

[^8]:    ${ }^{9}$ Unfortunately, because of delays in relocating and recontacting some individuals selected for this substudy, the actual time interval between initial interview and reinterview was as long as 6 months.
    ${ }^{10}$ Due to the built-in delay in administering the reinterviews and the plan to complete the reinterviews during the same time frame as other interviews, the reinterview population was more heavily weighted with those who responded relatively early to the initial interview; consequently, reported response rates are probably biased upwards. Reinterview respondents were also disproportionately represented by those most easily located and most easily convinced to participate in the initial interview.

