## Appendix H <br> Item Nonresponse Analysis

## Appendix H

## Item Nonresponse Analysis

Item nonresponse occurs when a responding individual completes the interview but does not answer some of the survey questions. For these items, the individual is a nonrespondent. This differs from unit nonresponse (see chapter 6), in which a sampled individual fails to answer all of the interview questions. In this appendix, a brief analysis of item nonresponse among $\mathrm{B} \& \mathrm{~B}$ CATI respondents is given.

An item nonresponse occurs when a full-interview respondent ${ }^{1}$ fails to answer an item, and the failure is not due to legitimate skip. The item nonresponse rate is then the sum of the weights of item respondents over the sum of the weights of all eligible individuals. This rate is found using the final study weights. A variable was considered to have high item nonresponse if its weighted item nonresponse rate exceeded 0.15 .

All variables with high item nonresponse rates were identified, and those with at least 1,000 eligible sample members were considered for further analysis. The identified variables are given in table H.1, together with counts and unweighted and weighted item nonresponse rates. All of these variables have well less than 9,650 eligible full-interview respondents because of legitimate skips. The table shows that the percent weighted item nonresponse rate varies between 17 percent and 61 percent.

Table H.1. Item nonresponse rates for selected B\&B:2000/01 CATI variables

| Variable description | Number eligible | Number of item <br> respondents | Number of item nonrespondents | Unweighted item nonresponse rate | Weighted item nonresponse rate |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Education tax credits: Claim lifetime learning tax in 2001 | 4,170 | 3,460 | 710 | 17 | 17 |
| Spouse information: Spouse's income in 2000 | 3,090 | 2,400 | 690 | 22 | 23 |
| Education tax credits: Tax credit help to continue education | 2,690 | 1,720 | 970 | 36 | 35 |
| Current income: Hourly/weekly/monthly wage | 2,480 | 1,720 | 750 | 30 | 33 |
| Spouse information: Spouse repaying student loans | 2480 | 2,040 | 440 | 18 | 18 |
| Spouse information: Amount spouse owes on student loans | 2,480 | 2,040 | 440 | 18 | 18 |
| Spouse information: Amount spouse borrowed in loans | 2,480 | 2,070 | 410 | 17 | 17 |
| Spouse information: Spouse's monthly student loan payment | 2,270 | 1,810 | 460 | 20 | 21 |
| Current teaching job: Sections taught per day-current job | 1,500 | 1,060 | 450 | 30 | 29 |
| Current income: Time scale of pay-hourly/weekly/ monthly ${ }^{1}$ | 1,290 | 540 | 750 | 58 | 61 |

${ }^{1}$ Is not applicable for students who reported an annual salary.
NOTE: Statistics are based on sample members for whom specific items were applicable and asked. Details may not sum to total due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

[^0]Nonresponse bias analysis was then conducted for each of the variables with a high level of item nonresponse using the same methodology described in chapter 6 for unit nonresponse. The results of these analyses are presented in tables H. 2 through H.11.
Table H.2. Comparison of item respondents and nonrespondents for "Claim lifetime learning tax in 2001"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 2,730 | 2,270 | 460 | 66 | 66 | 65 | 0.1113 |
| Non-doctorate-granting | 830 | 690 | 140 | 19 | 19 | 19 | 0.0569 |
| Doctorate-granting | 1,910 | 1,590 | 320 | 47 | 47 | 47 | 0.0691 |
| Private not-for-profit 4-year | 1,400 | 1,150 | 250 | 33 | 32 | 34 | -0.3628 |
| Non-doctorate-granting | 740 | 610 | 130 | 18 | 18 | 19 | -0.2055 |
| Doctorate-granting | 650 | 540 | 120 | 14 | 14 | 15 | -0.1719 |
| Private for-profit 4-year | 50 | 40 | \# | 2 | 2 | 0 | 0.2514* |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 50 | 50 | 10 | 1 | 1 | 1 | 0.0614 |
| 2,500-4,999 | 150 | 130 | 10 | 3 | 4 | 2 | 0.3606* |
| 5,000-9,999 | 450 | 370 | 80 | 8 | 8 | 9 | -0.0478 |
| 10,000-19,999 | 730 | 610 | 120 | 17 | 17 | 17 | 0.1288 |
| 20,000 or more | 1,350 | 1,110 | 240 | 36 | 36 | 38 | -0.3918 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 100 | 80 | 20 | 2 | 2 | 2 | -0.0553 |
| 1,000-2,499 | 310 | 250 | 60 | 7 | 7 | 8 | -0.2305 |
| 2,500-4,999 | 370 | 310 | 70 | 9 | 9 | 10 | -0.2256 |
| 5,000-9,999 | 240 | 200 | 40 | 5 | 5 | 5 | 0.0686 |
| 10,000 or more | 380 | 320 | 60 | 9 | 10 | 10 | 0.0800 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | 10 | 0 | \# | 1 | 0 | 0.0834 |
| 1,000 or more | 40 | 30 | \# | 1 | 1 | \# | 0.1681 |
| Institution region |  |  |  |  |  |  |  |
| New England | 220 | 190 | 20 | 6 | 6 | 4 | 0.3525 |
| Mid East | 720 | 570 | 140 | 16 | 16 | 18 | -0.4442 |
| Great Lakes | 720 | 600 | 120 | 17 | 17 | 18 | -0.0501 |
| Plains | 370 | 310 | 60 | 9 | 9 | 10 | -0.1890 |
| South East | 1,000 | 820 | 180 | 21 | 21 | 23 | -0.3824 |
| South West | 430 | 370 | 60 | 11 | 11 | 8 | 0.4323 |
| Rocky Mountains | 180 | 150 | 30 | 4 | 4 | 3 | 0.1376 |
| Far West | 510 | 420 | 80 | 16 | 16 | 15 | 0.1213 |
| Outlying Area | 30 | 20 | 10 | 1 | 1 | 1 | 0.0220 |
| Gender |  |  |  |  |  |  |  |
| Male | 1,590 | 1,350 | 240 | 43 | 44 | 37 | 1.2292* |
| Female | 2,590 | 2,110 | 470 | 57 | 56 | 63 | -1.2292* |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 1,110 | 870 | 240 | 25 | 24 | 34 | -1.7566* |
| 22 | 1,010 | 820 | 200 | 23 | 22 | 28 | $-0.9216$ |
| 23 | 520 | 440 | 80 | 12 | 12 | 12 | 0.0410 |
| 24 to 27 | 630 | 540 | 90 | 17 | 18 | 12 | 1.0043* |
| 28 or older | 900 | 790 | 110 | 23 | 24 | 15 | 1.6329* |
| Race |  |  |  |  |  |  |  |
| White | 3,370 | 2,800 | 560 | 78 | 78 | 75 | 0.4780 |
| Black or African American | 350 | 290 | 70 | 9 | 9 | 11 | -0.3499 |
| Asian | 190 | 170 | 30 | 6 | 6 | 6 | 0.1178 |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 40 | 40 | \# | 1 | 1 | 1 | 0.0691 |
| Islander | 20 | 20 | 10 | 1 | 1 | 1 | -0.0149 |
| Other | 200 | 150 | 50 | 5 | 5 | 7 | -0.3001 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 280 | 240 | 40 | 9 | 10 | 6 | 0.6465* |
| No | 3,890 | 3,220 | 670 | 91 | 90 | 94 | -0.6465* |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 3,980 | 3,300 | 680 | 93 | 92 | 94 | -0.2236 |
| Resident alien | 120 | 100 | 20 | 5 | 5 | 4 | 0.1557 |
| Foreign/international student | 70 | 60 | 10 | 3 | 3 | 3 | 0.0679 |

[^1]Table H.2. Comparison of item respondents and nonrespondents for "Claim lifetime learning tax in 2001"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 2,010 | 1,650 | 370 | 47 | 46 | 50 | -0.7722 |
|  | 200 | 150 | 50 | 4 | 3 | 7 | -0.5808* |
|  | 830 | 700 | 120 | 19 | 20 | 16 | 0.6106 |
|  | 460 | 390 | 70 | 13 | 13 | 12 | 0.2391 |
|  | 80 | 70 | 10 | 2 | 2 | 1 | 0.1279 |
|  | 590 | 500 | 90 | 16 | 16 | 14 | 0.3753 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 80 | 70 | 20 | 2 | 2 | 2 | -0.0866 |
| \$10,000-\$19,999 | 110 | 90 | 30 | 3 | 3 | 4 | -0.3239 |
| \$20,000-\$29,999 | 220 | 180 | 40 | 5 | 5 | 6 | -0.1105 |
| \$30,000-\$39,999 | 210 | 170 | 40 | 5 | 5 | 6 | -0.1827 |
| \$40,000-\$49,999 | 240 | 190 | 50 | 5 | 5 | 6 | $-0.0809$ |
| \$50,000-\$59,999 | 250 | 200 | 60 | 6 | 5 | 8 | -0.5255 |
| \$60,000-\$69,999 | 220 | 180 | 40 | 5 | 5 | 5 | -0.0163 |
| \$70,000-\$79,999 | 210 | 170 | 50 | 5 | 4 | 6 | -0.2901 |
| \$80,000-\$99,999 | 310 | 250 | 60 | 7 | 7 | 9 | -0.3501 |
| \$100,000 or more | 520 | 420 | 100 | 12 | 12 | 14 | -0.4066 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 250 | 210 | 50 | 6 | 6 | 6 | -0.1002 |
| \$5,000-\$9,999 | 240 | 210 | 30 | 6 | 6 | 4 | 0.4155 |
| \$10,000-\$19,999 | 330 | 280 | 50 | 9 | 9 | 7 | 0.3098 |
| \$20,000-\$29,999 | 250 | 220 | 30 | 6 | 7 | 4 | 0.4314 |
| \$30,000-\$49,999 | 360 | 320 | 40 | 9 | 10 | 6 | 0.6649 |
| \$50,000 or more | 370 | 320 | 50 | 10 | 10 | 7 | 0.6519 |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 2,400 | 1,990 | 410 | 55 | 55 | 57 | -0.4722 |
| No | 1,770 | 1,470 | 300 | 45 | 46 | 43 | 0.4722 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 2,070 | 1,720 | 350 | 47 | 47 | 49 | -0.2324 |
| No | 2,100 | 1,740 | 360 | 53 | 53 | 51 | 0.2324 |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 930 | 780 | 150 | 20 | 21 | 21 | -0.0986 |
| No | 3,250 | 2,690 | 560 | 79 | 80 | 79 | 0.0986 |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 1,810 | 1,500 | 310 | 42 | 41 | 43 | -0.2845 |
| No | 2,360 | 1,960 | 400 | 59 | 59 | 57 | 0.2845 |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 800 | 650 | 150 | 17 | 16 | 20 | -0.6133 |
| No | 3,370 | 2,820 | 560 | 84 | 84 | 81 | 0.6133 |
| Receipt of institution aid |  |  |  |  |  |  |  |
| Yes | 1,390 | 1,130 | 260 | 31 | 30 | 35 | -0.9133* |
| No | 2,780 | 2,330 | 440 | 69 | 70 | 65 | 0.9133* |
| Receipt of any aid |  |  |  |  |  |  |  |
| Yes | 2,960 | 2,460 | 500 | 68 | 68 | 68 | 0.0189 |
| No | 1,220 | 1,010 | 210 | 32 | 32 | 32 | -0.0189 |
| Ever married |  |  |  |  |  |  |  |
| Yes | 1,580 | 1,380 | 200 | 37 | 39 | 27 | 2.0063* |
| No | 2,580 | 2,080 | 490 | 64 | 62 | 73 | -2.0063* |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 820 3 | $\begin{array}{r}720 \\ \hline\end{array}$ | 100 | 19 | 20 | 14 | 0.9841* |
| No | 3,330 | 2,740 | 590 | 81 | 80 | 86 | -0.9841* |

See notes at end of table.

Table H.2. Comparison of item respondents and nonrespondents for "Claim lifetime learning tax in 2001"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 200 | 170 | 30 | 5 | 5 | 4 | 0.2729 |
| Mid East | 730 | 580 | 150 | 17 | 16 | 20 | -0.5794 |
| Great Lakes | 710 | 590 | 120 | 17 | 17 | 18 | -0.1482 |
| Plains | 350 | 290 | 60 | 8 | 8 | 8 | 0.0400 |
| Southeast | 970 | 800 | 170 | 20 | 20 | 21 | -0.2145 |
| Southwest | 430 | 370 | 60 | 11 | 11 | 9 | 0.2434 |
| Rocky Mountains | 180 | 150 | 30 | 4 | 4 | 3 | 0.1567 |
| Far West | 550 | 460 | 90 | 17 | 17 | 16 | 0.1317 |
| Outlying Areas | 60 | 50 | 10 | 2 | 2 | 2 | 0.0973 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 2,930 | 2,500 | 430 | 72 | 73 | 62 | 1.9538* |
| Work part-time | 660 | 520 | 130 | 15 | 15 | 20 | -0.8390 |
| Waiting to report to work/layoff | 30 | 30 | 10 | 1 | 1 | 1 | -0.0220 |
| Not working | 510 | 400 | 120 | 12 | 11 | 18 | -1.1359* |
| Homemaker | 10 | 10 | \# | \# | \# | \# | 0.0284 |
| Disabled | \# | \# | 0 | \# | \# | 0 | 0.0148 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 2,100 | 1,740 | 360 | 53 | 53 | 52 | 0.2301 |
| \$1 to \$2,499 | 480 | 410 | 70 | 11 | 11 | 10 | 0.2157 |
| \$3,500 to \$7,499 | 860 | 700 | 160 | 19 | 20 | 21 | -0.4096 |
| \$7,500 or more | 710 | 600 | 120 | 17 | 17 | 17 | -0.0362 |

\# Rounds to zero. All zeros provided in this table are actual values.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.3. Comparison of item respondents and nonrespondents for "Spouse's income in 2000"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 2,100 | 1,630 | 460 | 66 | 67 | 64 | 0.6981 |
| Non-doctorate-granting | 740 | 570 | 180 | 23 | 23 | 23 | 0.1443 |
| Doctorate-granting | 1,350 | 1,060 | 290 | 43 | 44 | 40 | 0.8424 |
| Private not-for-profit 4-year | 950 | 730 | 220 | 31 | 31 | 34 | -0.6716 |
| Non-doctorate-granting | 650 | 500 | 160 | 22 | 22 | 25 | -0.8399 |
| Doctorate-granting | 290 | 230 | 60 | 9 | 9 | 8 | 0.1682 |
| Private for-profit 4-year | 50 | 40 | 10 | 3 | 2 | 3 | -0.0265 |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 50 | 40 | 10 | 1 | 1 | 1 | -0.0195 |
| 2,500-4,999 | 170 | 130 | 40 | 5 | 5 | 6 | -0.2541 |
| 5,000-9,999 | 390 | 310 | 80 | 10 | 11 | 8 | 0.5557 |
| 10,000-19,999 | 580 | 460 | 120 | 19 | 21 | 16 | 0.8919 |
| 20,000 or more | 900 | 690 | 210 | 32 | 31 | 33 | -0.4758 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 130 | 90 | 40 | 3 | 3 | 3 | 0.1226 |
| 1,000-2,499 | 240 | 180 | 60 | 8 | 7 | 10 | -0.5840 |
| 2,500-4,999 | 290 | 220 | 70 | 10 | 9 | 12 | -0.6181 |
| 5,000-9,999 | 130 | 110 | 30 | 4 | 4 | 4 | 0.0985 |
| 10,000 or more | 160 | 130 | 30 | 6 | 7 | 5 | 0.3094 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | 10 | \# | 1 | 1 | 1 | 0.0106 |
| 1,000 or more | 40 | 30 | 10 | 2 | 2 | 2 | -0.0371 |
| Institution region |  |  |  |  |  |  |  |
| New England | 90 | 60 | 30 | 3 | 3 | 5 | -0.4965 |
| Mid East | 360 | 270 | 100 | 11 | 10 | 13 | -0.5965 |
| Great Lakes | 520 | 380 | 140 | 18 | 16 | 22 | -1.1713 |
| Plains | 310 | 250 | 60 | 10 | 10 | 9 | 0.2669 |
| South East | 880 | 690 | 200 | 26 | 27 | 24 | 0.5220 |
| South West | 400 | 320 | 80 | 13 | 13 | 13 | $-0.0090$ |
| Rocky Mountains | 190 | 170 | 20 | 6 | 7 | 3 | 0.7400* |
| Far West | 310 | 250 | 60 | 13 | 14 | 11 | 0.6324 |
| Outlying Area | 20 | 20 | \# | 1 | 1 | 1 | 0.1120 |
| Gender |  |  |  |  |  |  |  |
| Male | 1,120 | 910 | 220 | 40 | 42 | 35 | 1.4703* |
| Female | 1,970 | 1,490 | 480 | 60 | 58 | 65 | -1.4703* |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 400 | 310 | 90 | 11 | 11 | 11 | -0.0405 |
| 22 | 560 | 440 | 120 | 16 | 17 | 14 | 0.6837 |
| 23 | 370 | 300 | 80 | 11 | 12 | 10 | 0.4419 |
| 24 to 27 | 600 | 480 | 120 | 21 | 22 | 18 | 0.7595 |
| 28 or older | 1,170 | 880 | 290 | 41 | 39 | 47 | -1.8446* |
| Race |  |  |  |  |  |  |  |
| White | 2,650 | 2,070 | 580 | 83 | 84 | 80 | 0.8017 |
| Black or African American | 190 | 140 | 50 | 7 | 7 | 8 | -0.4327 |
| Asian | 80 | 70 | 20 | 4 | 4 | 4 | 0.0371 |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 30 | 20 | 10 | 1 | 1 | 1 | 0.0250 |
| Islander | 10 | 10 | \# | 1 | \# | 1 | -0.1008 |
| Other | 120 | 100 | 30 | 5 | 5 | 6 | -0.3304 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 190 | 150 | 40 | 8 | 9 | 7 | 0.4941 |
| No | 2,900 | 2,250 | 660 | 92 | 91 | 93 | -0.4941 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,980 | 2,320 | 660 | 94 | 95 | 93 | 0.3897 |
| Resident alien | 80 | 60 | 20 | 4 | 4 | 5 | -0.3200 |
| Foreign/international student | 30 | 20 | 10 | 2 | 2 | 2 | -0.0698 |

[^2]Table H.3. Comparison of item respondents and nonrespondents for "Spouse's income in 2000"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution <br> Part-time/full year, more than 1 institution <br> Part-time/part year <br> Parents' income (for dependent students) <br> Less than \$10,000 <br> \$10,000-\$19,999 <br> \$20,000-\$29,999 <br> \$30,000-\$39,999 <br> \$40,000-\$49,999 <br> \$50,000-\$59,999 <br> \$60,000-\$69,999 <br> \$70,000-\$79,999 <br> \$80,000-\$99,999 <br> $\$ 100,000$ or more |  |  |  |  |  |  |  |
|  | 1,180 | 940 | 240 | 36 | 36 | 34 | 0.5007 |
|  | 90 | 70 | 20 | 3 | 3 | 3 | -0.0535 |
|  | 770 | 610 | 160 | 25 | 26 | 21 | 0.9877 |
|  | 440 | 320 | 120 | 16 | 15 | 20 | $-1.1400$ |
|  | 60 | 50 | 20 | 2 | 2 | 2 | -0.0872 |
|  | 550 | 410 | 140 | 20 | 19 | 20 | -0.2078 |
|  |  |  |  |  |  |  |  |
|  | 30 | 30 | 10 | 1 | 1 | 1 | -0.1014 |
|  | 50 | 40 | 10 | 2 | 2 | 1 | 0.0531 |
|  | 70 | 50 | 20 | 2 | 2 | 2 | -0.1515 |
|  | 90 | 60 | 30 | 3 | 2 | 4 | -0.3084 |
|  | 120 | 100 | 20 | 4 | 4 | 2 | 0.5427* |
|  | 110 | 80 | 30 | 3 | 3 | 4 | -0.2434 |
|  | 110 | 80 | 30 | 3 | 3 | 4 | -0.2082 |
|  | 80 | 60 | 20 | 2 | 3 | 1 | 0.3000 |
|  | 120 | 90 | 30 | 4 | 4 | 3 | 0.1040 |
|  | 150 | 120 | 30 | 5 | 5 | 5 | 0.0895 |
| Student's income (for independentstudents)Less than $\$ 5,000$$\$ 5,000-\$ 9,999$$\$ 10,000-\$ 19,999$$\$ 20,000-\$ 29,999$$\$ 30,000-\$ 49,999$$\$ 50,000$ or more |  |  |  |  |  |  |  |
|  | 160 | 130 | 40 | 5 | 5 | 5 | 0.1547 |
|  | 170 | 130 | 30 | 5 | 5 | 4 | 0.1796 |
|  | 360 | 300 | 70 | 11 | 12 | 8 | 0.8179 |
|  | 310 | 250 | 60 | 10 | 10 | 8 | 0.5194 |
|  | 520 | 420 | 100 | 17 | 18 | 16 | 0.3715 |
|  | 650 | 460 | 180 | 24 | 22 | 31 | -2.1198* |
| Applied for aidYesNo |  |  |  |  |  |  |  |
|  | 1,750 | 1,420 | 320 | 54 | 57 | 45 | 2.4983* |
|  | 1,350 | 970 | 370 | 46 | 44 | 55 | -2.4983* |
| Receipt of federal aidYesNo |  |  |  |  |  |  |  |
|  | 1,550 | 1,270 | 280 | 48 | 50 | 40 | 2.4034* |
|  | 1,550 | 1,130 | 410 | 52 | 50 | 60 | -2.4034* |
| Receipt of Pell grantYesNo |  |  |  |  |  |  |  |
|  | 800 | 660 | 140 | 24 | 26 | 19 | 1.6084* |
|  | 2,290 | 1,740 | 550 | 76 | 74 | 82 | -1.6084* |
| Receipt of Stafford loanYesNo |  |  |  |  |  |  |  |
|  | 1,290 | 1,050 | 230 | 40 | 42 | 34 | 1.9540* |
|  | 1,810 | 1,340 | 460 | 60 | 58 | 66 | -1.9540* |
| Receipt of state aidYesNo |  |  |  |  |  |  |  |
|  | 570 | 460 | 110 | 16 | 16 | 13 | 0.8179* |
|  | 2,520 | 1,940 | 580 | 85 | 84 | 87 | -0.8179* |
| Receipt of institution aidYesNo |  |  |  |  |  |  |  |
|  | 860 | 690 | 180 | 25 | 26 | 21 | 0.9920* |
|  | 2,230 | 1,710 | 520 | 75 | 74 | 79 | -0.9920* |
| Receipt of any aidYesNo |  |  |  |  |  |  |  |
|  | 2,240 | 1,790 | 450 | 70 | 72 | 64 | 1.7662* |
|  | 850 | 610 | 240 | 30 | 28 | 36 | -1.7662* |
| Dependents other than spouse Yes |  |  |  |  |  |  |  |
|  | 1,350 | 1,080 | 270 | 44 | 45 | 43 | 0.5005 |
| No | 1,720 | 1,320 | 400 | 56 | 55 | 58 | -0.5005 |

See notes at end of table.

Table H.3. Comparison of item respondents and nonrespondents for "Spouse's income in 2000"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 90 | 60 | 30 | 3 | 3 | 6 | -0.6514 |
| Mid East | 360 | 270 | 100 | 11 | 11 | 12 | -0.3491 |
| Great Lakes | 520 | 390 | 140 | 17 | 16 | 20 | -0.9698 |
| Plains | 290 | 220 | 60 | 9 | 9 | 9 | 0.0356 |
| Southeast | 880 | 690 | 190 | 27 | 26 | 24 | 0.5179 |
| Southwest | 410 | 330 | 80 | 13 | 13 | 13 | 0.1764 |
| Rocky Mountains | 180 | 160 | 20 | 6 | 6 | 4 | 0.5755 |
| Far West | 330 | 260 | 70 | 13 | 14 | 12 | 0.5469 |
| Outlying Areas | 40 | 30 | 10 | 2 | 2 | 2 | 0.1179 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 2,390 | 1,890 | 500 | 79 | 80 | 76 | 0.8666 |
| Work part-time | 320 | 240 | 80 | 9 | 9 | 10 | -0.2704 |
| Waiting to report to work/layoff | 30 | 20 | 10 | 1 | 1 | 1 | -0.1091 |
| Not working | 260 | 190 | 70 | 9 | 9 | 9 | -0.1372 |
| Homemaker | 70 | 50 | 20 | 2 | 2 | 3 | -0.2295 |
| Disabled | 10 | \# | \# | 1 | \# | 1 | -0.1204 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,550 | 1,130 | 410 | 52 | 50 | 61 | -2.3541* |
| \$1 to \$2,499 | 440 | 360 | 80 | 13 | 14 | 9 | 1.0432* |
| \$3,500 to \$7,499 | 630 | 510 | 120 | 19 | 20 | 16 | 0.9577 |
| \$7,500 or more | 470 | 380 | 80 | 15 | 16 | 14 | 0.3531 |

\# Rounds to zero.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.4. Comparison of item respondents and nonrespondents for "Tax credit help to continue education"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 1,730 | 1,110 | 620 | 65 | 65 | 65 | $-0.2508$ |
| Non-doctorate-granting | 540 | 350 | 200 | 19 | 20 | 19 | 0.4102 |
| Doctorate-granting | 1,190 | 760 | 430 | 45 | 45 | 46 | -0.6379 |
| Private not-for-profit 4-year | 930 | 590 | 340 | 34 | 33 | 34 | -0.3588 |
| Non-doctorate-granting | 490 | 310 | 180 | 19 | 19 | 20 | -0.2565 |
| Doctorate-granting | 430 | 280 | 160 | 15 | 15 | 15 | -0.1252 |
| Private for-profit 4-year | 30 | 20 | 10 | 2 | 2 | 0 | 0.6094* |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 40 | 30 | 10 | 1 | 1 | 1 | 0.1426 |
| 2,500-4,999 | 80 | 60 | 20 | 3 | 3 | 2 | 0.5838 |
| 5,000-9,999 | 300 | 180 | 120 | 8 | 8 | 9 | -0.1215 |
| 10,000-19,999 | 460 | 300 | 160 | 17 | 17 | 17 | 0.0444 |
| 20,000 or more | 860 | 550 | 320 | 36 | 35 | 38 | -0.9001 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 60 | 40 | 30 | 2 | 2 | 2 | -0.2076 |
| 1,000-2,499 | 210 | 130 | 80 | 8 | 8 | 8 | -0.0075 |
| 2,500-4,999 | 250 | 160 | 90 | 9 | 9 | 10 | -0.5028 |
| 5,000-9,999 | 160 | 100 | 60 | 5 | 5 | 5 | 0.0535 |
| 10,000 or more | 250 | 160 | 80 | 10 | 10 | 9 | 0.3055 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | 10 | 0 | \# | 1 | 0 | 0.2091 |
| 1,000 or more | 20 | 20 | 10 | 1 | 2 | \# | 0.4006 |
| Institution region |  |  |  |  |  |  |  |
| New England | 140 | 90 | 40 | 5 | 6 | 5 | 0.2906 |
| Mid East | 490 | 290 | 200 | 18 | 17 | 20 | -1.1262 |
| Great Lakes | 470 | 300 | 170 | 17 | 17 | 18 | -0.2966 |
| Plains | 250 | 160 | 90 | 9 | 9 | 9 | 0.0668 |
| South East | 630 | 400 | 230 | 20 | 19 | 22 | -0.9331 |
| South West | 260 | 180 | 80 | 10 | 11 | 8 | 0.9686 |
| Rocky Mountains | 120 | 90 | 40 | 5 | 5 | 3 | 0.5576 |
| Far West | 310 | 200 | 110 | 16 | 16 | 15 | 0.5236 |
| Outlying Area | 20 | 10 | 10 | 1 | 1 | 1 | -0.0513 |
| Gender |  |  |  |  |  |  |  |
| Male | 1,010 | 680 | 330 | 42 | 44 | 38 | 2.4106* |
| Female | 1,670 | 1,040 | 640 | 58 | 56 | 62 | -2.4106* |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 740 | 420 | 320 | 26 | 23 | 33 | -3.7275* |
| 22 | 630 | 370 | 270 | 23 | 20 | 27 | -2.4247* |
| 23 | 340 | 230 | 110 | 12 | 12 | 12 | 0.2342 |
| 24 to 27 | 410 | 300 | 120 | 17 | 20 | 12 | 2.6521* |
| 28 or older | 570 | 410 | 160 | 22 | 25 | 16 | 3.2658* |
| Race |  |  |  |  |  |  |  |
| White | 2,140 | 1,360 | 780 | 76 | 76 | 77 | -0.3196 |
| Black or African American | 250 | 170 | 80 | 11 | 11 | 10 | 0.4868 |
| Asian | 110 | 70 | 40 | 6 | 6 | 6 | -0.0179 |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 20 | 20 | 10 | 1 | 1 | 1 | 0.0944 |
| Islander | 20 | 10 | 10 | 1 | 1 | 1 | -0.1198 |
| Other | 140 | 90 | 50 | 6 | 6 | 6 | -0.1239 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 200 | 140 | 60 | 9 | 11 | 6 | 1.5560* |
| No | 2,490 | 1,580 | 910 | 91 | 89 | 94 | -1.5560* |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,570 | 1,640 | 930 | 93 | 92 | 94 | -0.4973 |
| Resident alien | 80 | 60 | 30 | 5 | 5 | 4 | 0.4881 |
| Foreign/international student | 30 | 20 | 10 | 3 | 3 | 3 | 0.0092 |

See notes at end of table.

Table H.4. Comparison of item respondents and nonrespondents for "Tax credit help to continue education"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 1,360 | 850 | 500 | 49 | 48 | 50 | $-0.7550$ |
|  | 150 | 80 | 70 | 5 | 4 | 6 | $-0.7881$ |
|  | 490 | 330 | 170 | 19 | 20 | 17 | 0.9750 |
|  | 300 | 200 | 100 | 13 | 13 | 12 | 0.5431 |
|  | 50 | 40 | 10 | 2 | 2 | 2 | 0.0040 |
|  | 350 | 230 | 120 | 14 | 14 | 14 | 0.0210 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 40 | 30 | 20 | 2 | 1 | 2 | -0.1637 |
| \$ 10,000-\$19,999 | 80 | 50 | 30 | 3 | 3 | 4 | -0.3286 |
| \$ 20,000-\$29,999 | 150 | 90 | 60 | 6 | 5 | 6 | -0.3437 |
| \$ 30,000-\$39,999 | 140 | 90 | 50 | 5 | 5 | 5 | -0.1619 |
| \$ 40,000-\$49,999 | 160 | 100 | 60 | 5 | 5 | 5 | -0.1188 |
| \$ 50,000-\$59,999 | 180 | 110 | 70 | 7 | 6 | 8 | $-0.5123$ |
| \$ 60,000-\$69,999 | 140 | 80 | 60 | 5 | 4 | 6 | -0.4663 |
| \$ 70,000-\$79,999 | 130 | 70 | 60 | 4 | 4 | 6 | -0.9176 |
| \$ 80,000-\$99,999 | 190 | 110 | 80 | 7 | 6 | 9 | $-1.1374$ |
| \$ 100,000 or more | 310 | 170 | 140 | 11 | 9 | 14 | -1.7611* |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 170 | 110 | 60 | 6 | 6 | 6 | $-0.0469$ |
| \$ 5,000-\$9,999 | 160 | 110 | 50 | 6 | 7 | 5 | 0.7779 |
| \$ 10,000-\$19,999 | 220 | 160 | 60 | 9 | 10 | 7 | 1.1468 |
| \$ 20,000-\$29,999 | 160 | 120 | 40 | 6 | 8 | 4 | 1.2170 |
| \$ 30,000-\$49,999 | 250 | 180 | 60 | 10 | 12 | 7 | 1.6693* |
| \$ 50,000 or more | 210 | 150 | 60 | 9 | 10 | 7 | 1.1474 |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 1,660 | 1,110 | 550 | 60 | 62 | 55 | 2.6030* |
| No | 1,030 | 610 | 420 | 40 | 38 | 45 | -2.6030* |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 1,450 | 970 | 480 | 52 | 55 | 47 | 2.7909* |
| No | 1,240 | 750 | 490 | 48 | 45 | 53 | -2.7909* |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 630 | 430 | 200 | 22 | 23 | 20 | 0.8867 |
| No | 2,060 | 1,290 | 770 | 78 | 77 | 80 | $-0.8867$ |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 1,290 | 870 | 420 | 47 | 50 | 42 | 2.7983* |
| No | 1,400 | 850 | 550 | 53 | 50 | 58 | -2.7983* |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 540 | 350 | 200 | 18 | 17 | 19 | $-0.5179$ |
| No | 2,140 | 1,370 | 770 | 82 | 83 | 82 | 0.5179 |
| Receipt of institution aid |  |  |  |  |  |  |  |
| Yes | 940 | 580 | 360 | 32 | 31 | 34 | -1.1556 |
| No | 1,750 | 1,140 | 610 | 68 | 69 | 66 | 1.1556 |
| Receipt of any aid |  |  |  |  |  |  |  |
| Yes | 1,980 | 1,290 | 690 | 70 | 72 | 67 | 2.0158* |
| No | 710 | 430 | 280 | 30 | 28 | 34 | -2.0158* |
| Ever married |  |  |  |  |  |  |  |
| Yes | 1,030 | 730 | 300 | 37 | 42 | 27 | 5.1391* |
| No | 1,650 | 990 | 660 | 63 | 58 | 73 | -5.1391* |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 530 | 380 | 150 | 19 | 22 | 15 | 2.4986* |
| No | 2,140 | 1,340 | 810 | 81 | 78 | 85 | -2.4986* |

See notes at end of table.

Table H.4. Comparison of item respondents and nonrespondents for "Tax credit help to continue education"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 120 | 80 | 40 | 5 | 5 | 4 | 0.4734 |
| Mid East | 500 | 290 | 210 | 18 | 17 | 21 | -1.2878 |
| Great Lakes | 470 | 310 | 160 | 17 | 17 | 17 | -0.1660 |
| Plains | 240 | 160 | 80 | 8 | 8 | 8 | 0.1817 |
| Southeast | 610 | 390 | 220 | 19 | 18 | 21 | -0.9714 |
| Southwest | 260 | 180 | 80 | 10 | 11 | 9 | 0.6991 |
| Rocky Mountains | 130 | 90 | 40 | 5 | 6 | 4 | 0.6213 |
| Far West | 330 | 210 | 120 | 16 | 16 | 15 | 0.2632 |
| Outlying Areas | 30 | 20 | 10 | 2 | 2 | 2 | 0.1866 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,850 | 1,240 | 610 | 70 | 73 | 64 | 3.3609* |
| Work part-time | 450 | 270 | 180 | 17 | 16 | 19 | $-0.9908$ |
| Waiting to report to work/layoff | 20 | 20 | 10 | 1 | 1 | 1 | 0.1973 |
| Not working | 330 | 180 | 150 | 12 | 10 | 17 | -2.6332* |
| Homemaker | \# | \# | \# | \# | \# | \# | 0.0423 |
| Disabled | \# | \# | \# | \# | \# | \# | 0.0234 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,240 | 750 | 490 | 48 | 46 | 53 | -2.7784* |
| \$1 to \$2,499 | 300 | 200 | 100 | 11 | 11 | 9 | 0.6979 |
| \$3,500 to \$7,499 | 610 | 400 | 210 | 22 | 23 | 21 | 0.5966 |
| \$7,500 or more | 520 | 360 | 160 | 19 | 21 | 17 | 1.4840 |

\# Rounds to zero. All zeros provided in this table are actual values.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.5. Comparison of item respondents and nonrespondents for "Hourly/weekly/monthly wage"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 1,530 | 1,040 | 490 | 64 | 63 | 65 | -0.5913 |
| Non-doctorate-granting | 470 | 310 | 160 | 18 | 18 | 18 | -0.1663 |
| Doctorate-granting | 1,060 | 730 | 340 | 46 | 45 | 47 | -0.5044 |
| Private not-for-profit 4-year | 920 | 670 | 250 | 35 | 36 | 33 | 1.0331 |
| Non-doctorate-granting | 470 | 320 | 150 | 20 | 18 | 22 | -1.3186 |
| Doctorate-granting | 450 | 350 | 90 | 15 | 18 | 10 | 2.4241* |
| Private for-profit 4-year | 30 | 10 | 20 | 2 | 1 | 2 | -0.4348 |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 20 | 20 | \# | 1 | 1 | \# | 0.1573 |
| 2,500-4,999 | 70 | 50 | 30 | 3 | 2 | 3 | -0.2405 |
| 5,000-9,999 | 240 | 160 | 80 | 8 | 7 | 8 | -0.2809 |
| 10,000-19,999 | 450 | 290 | 160 | 18 | 18 | 19 | -0.1431 |
| 20,000 or more | 750 | 520 | 230 | 35 | 34 | 35 | -0.0842 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 70 | 50 | 20 | 2 | 3 | 2 | 0.2237 |
| 1,000-2,499 | 220 | 160 | 60 | 9 | 9 | 8 | 0.2240 |
| 2,500-4,999 | 230 | 160 | 70 | 9 | 9 | 10 | -0.3085 |
| 5,000-9,999 | 150 | 100 | 50 | 6 | 5 | 6 | -0.3320 |
| 10,000 or more | 250 | 200 | 50 | 9 | 11 | 7 | 1.2259 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | \# | \# | \# | \# | \# | \# | -0.0584 |
| 1,000 or more | 30 | 10 | 10 | 1 | 1 | 2 | -0.3834 |
| Institution region |  |  |  |  |  |  |  |
| New England | 140 | 100 | 40 | 7 | 7 | 6 | 0.1206 |
| Mid East | 470 | 330 | 140 | 18 | 18 | 17 | 0.4751 |
| Great Lakes | 380 | 250 | 140 | 16 | 14 | 20 | -1.9217 |
| Plains | 200 | 130 | 70 | 8 | 8 | 10 | -0.6210 |
| South East | 620 | 420 | 200 | 22 | 23 | 22 | 0.3260 |
| South West | 240 | 160 | 80 | 10 | 9 | 11 | -0.6199 |
| Rocky Mountains | 100 | 80 | 20 | 3 | 4 | 3 | 0.1122 |
| Far West | 310 | 240 | 80 | 15 | 17 | 12 | 1.8344* |
| Outlying Area | 20 | 10 | \# | 1 | 1 | \# | 0.2944 |
| Gender |  |  |  |  |  |  |  |
| Male | 880 | 550 | 330 | 41 | 36 | 51 | -5.1618* |
| Female | 1,590 | 1,170 | 420 | 59 | 65 | 49 | 5.1618* |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 710 | 570 | 140 | 27 | 32 | 18 | 4.5815* |
| 22 | 570 | 410 | 160 | 21 | 22 | 19 | 0.9888 |
| 23 | 300 | 190 | 110 | 12 | 10 | 16 | -1.9783* |
| 24 to 27 | 370 | 250 | 120 | 16 | 17 | 15 | 0.4705 |
| 28 or older | 530 | 310 | 220 | 23 | 19 | 31 | -4.0625* |
| Race |  |  |  |  |  |  |  |
| White | 1,930 | 1,360 | 570 | 74 | 75 | 74 | 0.3233 |
| Black or African American | 220 | 140 | 90 | 10 | 9 | 11 | -0.5113 |
| Asian | 160 | 110 | 50 | 8 | 8 | 9 | $-0.1496$ |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 20 | 20 | \# | 1 | 1 | \# | 0.3259* |
| Islander | 10 | 10 | 10 | 1 | 1 | 1 | 0.0329 |
| Other | 130 | 90 | 40 | 6 | 6 | 6 | -0.0211 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 160 | 110 | 50 | 8 | 8 | 6 | 0.5941 |
| No | 2,320 | 1,610 | 710 | 92 | 92 | 94 | -0.5941 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,330 | 1,620 | 710 | 90 | 90 | 92 | -0.6309 |
| Resident alien | 90 | 70 | 30 | 6 | 6 | 4 | 0.5580 |
| Foreign/international student | 50 | 40 | 20 | 4 | 4 | 4 | 0.0729 |

See notes at end of table.

Table H.5. Comparison of item respondents and nonrespondents for "Hourly/weekly/monthly wage"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 1,230 | 920 | 310 | 48 | 52 | 38 | 4.8458* |
|  | 140 | 100 | 40 | 4 | 4 | 4 | 0.0370 |
|  | 450 | 290 | 150 | 19 | 17 | 23 | $-1.8350$ |
|  | 280 | 180 | 100 | 13 | 12 | 15 | -0.9936 |
|  | 50 | 30 | 20 | 1 | 1 | 2 | -0.2757 |
|  | 330 | 200 | 140 | 15 | 13 | 19 | -1.7784 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 40 | 30 | 10 | 1 | 1 | 1 | -0.0522 |
| \$10,000-\$19,999 | 80 | 50 | 30 | 3 | 3 | 4 | -0.3664 |
| \$20,000-\$29,999 | 120 | 80 | 40 | 5 | 4 | 6 | -0.6767 |
| \$30,000-\$39,999 | 120 | 90 | 30 | 4 | 5 | 4 | 0.0883 |
| \$40,000-\$49,999 | 130 | 100 | 30 | 5 | 6 | 4 | 0.5672 |
| \$50,000-\$59,999 | 150 | 120 | 30 | 6 | 6 | 5 | 0.6321 |
| \$60,000-\$69,999 | 140 | 90 | 40 | 5 | 5 | 6 | -0.1854 |
| \$70,000-\$79,999 | 120 | 90 | 30 | 5 | 5 | 4 | 0.2574 |
| \$80,000-\$99,999 | 210 | 160 | 50 | 8 | 9 | 6 | 1.0731 |
| \$100,000 or more | 310 | 240 | 70 | 12 | 13 | 9 | 1.5415 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 200 | 130 | 60 | 8 | 8 | 6 | 0.6776 |
| \$5,000-\$9,999 | 160 | 120 | 40 | 6 | 7 | 5 | 0.6491 |
| \$10,000-\$19,999 | 180 | 130 | 50 | 7 | 8 | 6 | 0.4926 |
| \$20,000-\$29,999 | 130 | 80 | 50 | 5 | 5 | 5 | -0.1381 |
| \$30,000-\$49,999 | 180 | 100 | 80 | 8 | 6 | 12 | -1.9012* |
| \$50,000 or more | 240 | 120 | 120 | 11 | 8 | 17 | -2.6587* |
| Applied for aidYesNo |  |  |  |  |  |  |  |
|  | 1,320 | 970 | 350 | 50 | 51 | 46 | 1.8096 |
|  | 1,160 | 760 | 400 | 51 | 49 | 54 | -1.8096 |
| Receipt of federal aidYesNo |  |  |  |  |  |  |  |
|  | 1,130 | 830 | 310 | 44 | 45 | 40 | 1.6588 |
|  | 1,340 | 890 | 450 | 56 | 55 | 60 | -1.6588 |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 540 | 400 | 140 | 20 | 22 | 18 | 1.3843 |
| No | 1,940 | 1,330 | 610 | 80 | 78 | 82 | -1.3843 |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 950 | 690 | 260 | 37 | 38 | 36 | 0.8265 |
| No | 1,520 | 1,030 | 490 | 63 | 62 | 64 | -0.8265 |
| Receipt of state aidYesNo |  |  |  |  |  |  |  |
|  | 460 | 340 | 120 | 16 | 17 | 14 | 0.8809 |
|  | 2,020 | 1,380 | 630 | 84 | 83 | 86 | -0.8809 |
| Receipt of institution aidYesNo |  |  |  |  |  |  |  |
|  | 810 | 610 | 200 | 29 | 32 | 23 | 2.8667* |
|  | 1,660 | 1,110 | 550 | 71 | 68 | 77 | -2.8667* |
| Receipt of any aidYesNo |  |  |  |  |  |  |  |
|  | 1,650 | 1,150 | 500 | 63 | 62 | 65 | -0.8851 |
|  | 820 | 570 | 250 | 37 | 38 | 35 | 0.8851 |
| Ever marriedYesNo |  |  |  |  |  |  |  |
|  | 870 | 560 | 320 | 34 | 31 | 41 | -3.1920* |
|  | 1,580 | 1,160 | 420 | 66 | 69 | 59 | 3.1920* |
| Dependents other than spouseYes |  |  |  |  |  |  |  |
|  | 460 | 300 | 160 | 18 | 17 | 21 | $-1.1835$ |
| No | 1,990 | 1,420 | 570 | 82 | 83 | 79 | 1.1835 |

See notes at end of table.

Table H.5. Comparison of item respondents and nonrespondents for "Hourly/weekly/monthly wage"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 130 | 90 | 40 | 6 | 6 | 6 | -0.1038 |
| Mid East | 460 | 320 | 140 | 17 | 17 | 18 | -0.3219 |
| Great Lakes | 380 | 250 | 130 | 16 | 14 | 18 | -1.1095 |
| Plains | 190 | 130 | 60 | 8 | 3 | 9 | -0.5255 |
| Southeast | 610 | 420 | 200 | 22 | 23 | 21 | 0.3953 |
| Southwest | 240 | 160 | 80 | 10 | 9 | 12 | -0.7650 |
| Rocky Mountains | 90 | 70 | 20 | 3 | 3 | 4 | -0.1189 |
| Far West | 340 | 260 | 80 | 17 | 19 | 13 | 1.9770* |
| Outlying Areas | 40 | 30 | 10 | 2 | 3 | 1 | 0.5722 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 910 | 290 | 620 | 39 | 16 | 87 | -23.2064* |
| Work part-time | 360 | 250 | 110 | 14 | 14 | 14 | 0.1508 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,340 | 890 | 450 | 57 | 55 | 60 | -1.6497 |
| \$1 to \$2,499 | 260 | 180 | 80 | 10 | 10 | 9 | 0.0467 |
| \$3,500 to \$7,499 | 480 | 350 | 130 | 18 | 19 | 17 | 0.4751 |
| \$7,500 or more | 390 | 290 | 90 | 16 | 17 | 14 | 1.1279 |

\# Rounds to zero.
$\dagger$ Not Applicable.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.6. Comparison of item respondents and nonrespondents for "Spouse repaying student loans"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 1,680 | 1,390 | 290 | 67 | 68 | 64 | 0.7361 |
| Non-doctorate-granting | 570 | 470 | 100 | 22 | 22 | 22 | -0.1260 |
| Doctorate-granting | 1,120 | 920 | 190 | 45 | 46 | 42 | 0.8621 |
| Private not-for-profit 4-year | 760 | 630 | 140 | 31 | 31 | 34 | -0.5661 |
| Non-doctorate-granting | 520 | 420 | 100 | 22 | 21 | 26 | -0.9292 |
| Doctorate-granting | 250 | 200 | 40 | 9 | 10 | 8 | 0.3631 |
| Private for-profit 4-year | 30 | 20 | 10 | 2 | 2 | 2 | -0.1700 |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 40 | 30 | 10 | 2 | 1 | 1 | -0.0290 |
| 2,500-4,999 | 130 | 120 | 20 | 5 | 6 | 4 | 0.3254 |
| 5,000-9,999 | 290 | 240 | 50 | 10 | 10 | 8 | 0.2726 |
| 10,000-19,999 | 460 | 380 | 80 | 19 | 19 | 20 | -0.1244 |
| 20,000 or more | 760 | 620 | 130 | 33 | 33 | 31 | 0.2914 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 100 | 80 | 20 | 3 | 3 | 3 | -0.0377 |
| 1,000-2,499 | 190 | 160 | 40 | 8 | 8 | 8 | -0.1222 |
| 2,500-4,999 | 230 | 180 | 50 | 9 | 9 | 12 | -0.6637 |
| 5,000-9,999 | 110 | 200 | 10 | 5 | 5 | 3 | 0.3448 |
| 10,000 or more | 130 | 110 | 20 | 6 | 6 | 7 | -0.0872 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | \# | \# | \# | \# | 1 | -0.1483 |
| 1,000 or more | 30 | 20 | 10 | 1 | 1 | 2 | -0.0217 |
| Institution region |  |  |  |  |  |  |  |
| New England | 71 | 60 | 20 | 3 | 3 | 4 | -0.2472 |
| Mid East | 272 | 200 | 70 | 10 | 9 | 14 | -0.8455 |
| Great Lakes | 429 | 350 | 80 | 18 | 18 | 17 | 0.1674 |
| Plains | 262 | 220 | 50 | 10 | 10 | 13 | -0.6088 |
| South East | 690 | 580 | 110 | 26 | 27 | 22 | 0.8376 |
| South West | 322 | 280 | 50 | 13 | 14 | 9 | 0.9039 |
| Rocky Mountains | 162 | 150 | 20 | 6 | 6 | 6 | 0.0818 |
| Far West | 248 | 200 | 50 | 13 | 13 | 15 | -0.4280 |
| Outlying Area | 19 | 20 | \# | 1 | 1 | 1 | 0.1388 |
| Gender |  |  |  |  |  |  |  |
| Male | 950 | 800 | 150 | 41 | 42 | 40 | 0.4052 |
| Female | 1,530 | 1,240 | 290 | 59 | 58 | 60 | -0.4052 |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 320 | 280 | 50 | 12 | 12 | 10 | 0.4756 |
| 22 | 460 | 390 | 70 | 17 | 18 | 14 | 0.7619 |
| 23 | 310 | 260 | 50 | 12 | 12 | 11 | 0.2467 |
| 24 to 27 | 480 | 410 | 80 | 21 | 21 | 16 | 0.9280 |
| 28 or older | 900 | 700 | 200 | 39 | 36 | 50 | -2.4123* |
| Race |  |  |  |  |  |  |  |
| White | 2,130 | 1,770 | 360 | 83 | 84 | 78 | 0.9978 |
| Black or African American | 140 | 100 | 40 | 7 | 6 | 12 | -1.1493* |
| Asian | 70 | 60 | 10 | 4 | 5 | 3 | 0.3180 |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 20 | 20 | \# | 1 | 1 | 1 | 0.0120 |
| Islander | 10 | 10 | \# | 1 | \# | 1 | -0.0348 |
| Other | 100 | 80 | 20 | 5 | 4 | 5 | $-0.1437$ |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 140 | 120 | 30 | 8 | 8 | 8 | -0.0282 |
| No | 2,330 | 1,920 | 410 | 92 | 92 | 92 | 0.0282 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,380 | 1,960 | 420 | 94 | 95 | 93 | 0.1885 |
| Resident alien | 70 | 50 | 10 | 4 | 4 | 4 | -0.0867 |
| Foreign/international student | 30 | 20 | 10 | 2 | 2 | 2 | -0.1018 |

See notes at end of table.

Table H.6. Comparison of item respondents and nonrespondents for "Spouse repaying student loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 960 | 790 | 170 | 37 | 37 | 34 | 0.5475 |
|  | 70 | 60 | 10 | 3 | 3 | 4 | -0.1850 |
|  | 620 | 520 | 100 | 25 | 25 | 23 | 0.3967 |
|  | 350 | 280 | 70 | 16 | 15 | 19 | -0.7943 |
|  | 50 | 40 | 10 | 2 | 1 | 2 | -0.1722 |
|  | 430 | 350 | 80 | 19 | 19 | 18 | 0.2073 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 20 | 20 | 10 | 1 | 1 | 2 | -0.1275 |
| \$10,000-\$19,999 | 40 | 30 | 10 | 2 | 2 | 3 | -0.1989 |
| \$20,000-\$29,999 | 60 | 50 | 10 | 2 | 2 | 2 | -0.0528 |
| \$30,000-\$39,999 | 80 | 70 | 10 | 3 | 3 | 2 | 0.2141 |
| \$40,000-\$49,999 | 100 | 90 | 10 | 4 | 4 | 2 | 0.3409 |
| \$50,000-\$59,999 | 90 | 80 | 10 | 3 | 4 | 2 | 0.2571 |
| \$60,000-\$69,999 | 90 | 70 | 20 | 4 | 4 | 4 | -0.0726 |
| \$70,000-\$79,999 | 70 | 50 | 20 | 3 | 3 | 3 | -0.0537 |
| \$80,000-\$99,999 | 110 | 90 | 20 | 4 | 4 | 4 | 0.0723 |
| \$100,000 or more | 130 | 110 | 20 | 5 | 5 | 4 | 0.3255 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 140 | 110 | 20 | 6 | 6 | 4 | 0.3641 |
| \$5,000-\$9,999 | 140 | 110 | 30 | 5 | 5 | 5 | 0.0601 |
| \$10,000-\$19,999 | 290 | 240 | 40 | 11 | 11 | 9 | 0.3459 |
| \$20,000-\$29,999 | 230 | 190 | 40 | 9 | 9 | 9 | -0.0034 |
| \$30,000-\$49,999 | 380 | 310 | 70 | 16 | 16 | 16 | -0.0571 |
| \$50,000 or more | 530 | 410 | 110 | 23 | 22 | 30 | -1.4142 |
| Applied for aidYesNo |  |  |  |  |  |  |  |
|  | 1,390 | 1,150 | 240 | 54 | 55 | 52 | 0.6011 |
|  | 1,090 | 890 | 200 | 46 | 45 | 48 | -0.6011 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 1,220 | 1,010 | 210 | 48 | 48 | 45 | 0.5619 |
| No | 1,250 | 1,030 | 230 | 52 | 52 | 55 | -0.5619 |
| Receipt of Pell grantYesNo |  |  |  |  |  |  |  |
|  | 630 | 530 | 110 | 24 | 24 | 23 | 0.2219 |
|  | 1,840 | 1,510 | 330 | 76 | 76 | 77 | -0.2219 |
| Receipt of Stafford loanYesNo |  |  |  |  |  |  |  |
|  | 1,020 | 830 | 180 | 40 | 40 | 39 | 0.1501 |
|  | 1,460 | 1,200 | 260 | 60 | 60 | 61 | -0.1501 |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 450 | 370 | 90 | 16 | 16 | 16 | 0.0532 |
| No | 2,020 | 1,670 | 350 | 84 | 84 | 84 | -0.0532 |
| Receipt of institution aidYesNo |  |  |  |  |  |  |  |
|  | 710 | 600 | 120 | 26 | 26 | 24 | 0.3907 |
|  | 1,760 | 1,440 | 320 | 74 | 74 | 76 | -0.3907 |
| Receipt of any aidYesNo |  |  |  |  |  |  |  |
|  | 1,790 | 1,480 | 310 | 70 | 70 | 69 | 0.3118 |
|  | 690 | 560 | 130 | 30 | 30 | 32 | -0.3118 |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 1,020 | 830 | 190 | 41 | 40 | 46 | -1.0602 |
| No | 1,430 | 1,200 | 230 | 59 | 60 | 54 | 1.0602 |

See notes at end of table.

Table H.6. Comparison of item respondents and nonrespondents for "Spouse repaying student loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 80 | 60 | 20 | 3 | 3 | 4 | -0.1989 |
| Mid East | 270 | 200 | 70 | 10 | 9 | 15 | -1.1113 |
| Great Lakes | 430 | 350 | 80 | 17 | 17 | 18 | -0.0764 |
| Plains | 240 | 190 | 50 | 9 | 9 | 12 | -0.6802 |
| Southeast | 690 | 590 | 100 | 26 | 27 | 21 | 1.0505 |
| Southwest | 320 | 270 | 50 | 13 | 14 | 9 | 0.8478 |
| Rocky Mountains | 150 | 140 | 10 | 6 | 6 | 5 | 0.2114 |
| Far West | 270 | 220 | 50 | 13 | 13 | 15 | -0.2916 |
| Outlying Areas | 40 | 30 | 10 | 2 | 3 | 1 | 0.2486 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,870 | 1,560 | 310 | 77 | 77 | 76 | 0.2937 |
| Work part-time | 270 | 210 | 60 | 10 | 9 | 13 | -0.6247 |
| Waiting to report to work/layoff | 30 | 30 | 10 | 1 | 1 | 2 | -0.2235 |
| Not working | 220 | 180 | 40 | 9 | 10 | 9 | 0.1841 |
| Homemaker | 60 | 50 | 10 | 2 | 3 | 1 | 0.4240* |
| Disabled | \# | \# | \# | \# | \# | \# | -0.0537 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,250 | 1,030 | 230 | 52 | 52 | 55 | $-0.5423$ |
| \$1 to \$2,499 | 340 | 290 | 50 | 13 | 14 | 11 | 0.5627 |
| \$3,500 to \$7,499 | 510 | 410 | 100 | 20 | 19 | 21 | -0.4318 |
| \$7,500 or more | 370 | 310 | 60 | 15 | 15 | 13 | 0.4115 |

\# Rounds to zero.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.7. Comparison of item respondents and nonrespondents for "Amount spouse owes on student loans"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector <br> Public 4-year <br> Non-doctorate-granting Doctorate-granting <br> Private not-for-profit 4-year <br> Non-doctorate-granting <br> Doctorate-granting <br> Private for-profit 4-year |  |  |  |  |  |  |  |
|  | 1,680 | 1,390 | 290 | 67 | 68 | 64 | 0.7425 |
|  | 570 | 470 | 100 | 22 | 22 | 22 | -0.1103 |
|  | 1,120 | 920 | 190 | 45 | 46 | 42 | 0.8528 |
|  | 760 | 630 | 140 | 31 | 31 | 34 | -0.5722 |
|  | 520 | 420 | 100 | 22 | 21 | 26 | -0.9333 |
|  | 250 | 200 | 40 | 9 | 10 | 8 | 0.3612 |
|  | 30 | 20 | 10 | 2 | 2 | 2 | -0.1704 |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 40 | 30 | 10 | 1 | 1 | 1 | -0.0292 |
| 2,500-4,999 | 130 | 120 | 20 | 5 | 6 | 4 | 0.3243 |
| 5,000-9,999 | 290 | 240 | 50 | 10 | 10 | 8 | 0.2908 |
| 10,000-19,999 | 460 | 380 | 80 | 19 | 19 | 20 | -0.1282 |
| 20,000 or more | 760 | 620 | 130 | 33 | 33 | 31 | 0.2848 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 100 | 80 | 20 | 3 | 3 | 3 | -0.0384 |
| 1,000-2,499 | 190 | 160 | 40 | 8 | 8 | 8 | -0.1238 |
| 2,500-4,999 | 230 | 180 | 50 | 9 | 9 | 12 | -0.6655 |
| 5,000-9,999 | 110 | 100 | 10 | 5 | 5 | 3 | 0.3438 |
| 10,000 or more | 130 | 110 | 20 | 6 | 6 | 7 | -0.0884 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | \# | \# | \# | \# | 1 | -0.1484 |
| 1,000 or more | 30 | 20 | 10 | 1 | 1 | 2 | -0.0220 |
| Institution region |  |  |  |  |  |  |  |
| New England | 70 | 60 | 20 | 3 | 3 | 4 | -0.2478 |
| Mid East | 270 | 200 | 70 | 10 | 9 | 14 | -0.8272 |
| Great Lakes | 430 | 350 | 80 | 18 | 18 | 17 | 0.1638 |
| Plains | 260 | 210 | 50 | 10 | 10 | 13 | -0.6107 |
| South East | 690 | 580 | 110 | 26 | 27 | 22 | 0.8322 |
| South West | 320 | 280 | 50 | 13 | 14 | 9 | 0.9011 |
| Rocky Mountains | 160 | 150 | 20 | 6 | 6 | 6 | 0.0805 |
| Far West | 250 | 200 | 50 | 13 | 13 | 15 | -0.4306 |
| Outlying Area | 20 | 20 | \# | 1 | 1 | 1 | 0.1385 |
| Gender |  |  |  |  |  |  |  |
| Male | 950 | 800 | 150 | 41 | 42 | 40 | 0.3968 |
| Female | 1,530 | 1,240 | 290 | 59 | 58 | 60 | -0.3968 |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 320 | 280 | 50 | 12 | 12 | 10 | 0.4933 |
| 22 | 460 | 390 | 70 | 17 | 18 | 14 | 0.7583 |
| 23 | 3010 | 260 | 50 | 12 | 12 | 11 | 0.2443 |
| 24 to 27 | 480 | 410 | 80 | 21 | 21 | 16 | 0.9237 |
| 28 or older | 900 | 700 | 200 | 39 | 36 | 50 | -2.4196* |
| Race |  |  |  |  |  |  |  |
| White | 2,130 | 1,770 | 360 | 83 | 84 | 78 | 0.9809 |
| Black or African American | 140 | 100 | 40 | 7 | 6 | 12 | -1.1504* |
| Asian | 70 | 60 | 10 | 4 | 5 | 3 | 0.3170 |
| American Indian/Alaska Native | 20 | 20 | \# | 1 | 1 | 1 | 0.0118 |
| Native Hawaiian/Other Pacific Islander | 10 | 10 | \# | 1 | \# | 1 | -0.0349 |
| Other | 100 | 80 | 20 | 5 | 4 | 5 | -0.1245 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 140 | 120 | 30 | 8 | 8 | 8 | -0.0298 |
| No | 2,330 | 1,920 | 410 | 92 | 92 | 92 | 0.0298 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,380 | 1,970 | 420 | 94 | 95 | 93 | 0.1897 |
| Resident alien | 70 | 50 | 10 | 4 | 4 | 4 | -0.0875 |
| Foreign/international student | 30 | 20 | 10 | 2 | 2 | 2 | -0.1022 |

See notes at end of table.

Table H.7. Comparison of item respondents and nonrespondents for "Amount spouse owes on student loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 960 | 790 | 170 | 37 | 37 | 34 | 0.5400 |
|  | 70 | 60 | 10 | 3 | 3 | 4 | -0.1855 |
|  | 620 | 520 | 100 | 25 | 25 | 23 | 0.4118 |
|  | 350 | 280 | 70 | 16 | 15 | 19 | -0.7973 |
|  | 50 | 40 | 10 | 2 | 1 | 2 | -0.1725 |
|  | 430 | 350 | 80 | 19 | 19 | 18 | 0.2034 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 20 | 20 | 10 | 1 | 1 | 2 | -0.1276 |
| \$10,000-\$19,999 | 40 | 30 | 10 | 2 | 2 | 3 | -0.1992 |
| \$20,000-\$29,999 | 60 | 50 | 10 | 2 | 2 | 2 | -0.0532 |
| \$30,000-\$39,999 | 80 | 70 | 10 | 3 | 3 | 2 | 0.2135 |
| \$40,000-\$49,999 | 100 | 90 | 10 | 4 | 4 | 2 | 0.3400 |
| \$50,000-\$59,999 | 90 | 80 | 10 | 3 | 4 | 2 | 0.2564 |
| \$60,000-\$69,999 | 90 | 70 | 20 | 4 | 4 | 4 | -0.0733 |
| \$70,000-\$79,999 | 70 | 50 | 20 | 3 | 3 | 3 | -0.0542 |
| \$80,000-\$99,999 | 110 | 90 | 20 | 4 | 4 | 4 | 0.0715 |
| \$100,000 or more | 130 | 110 | 20 | 5 | 5 | 4 | 0.3245 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 140 | 110 | 20 | 6 | 6 | 4 | 0.3629 |
| \$5,000-\$9,999 | 140 | 110 | 30 | 5 | 5 | 5 | 0.0591 |
| \$10,000-\$19,999 | 290 | 240 | 40 | 11 | 11 | 9 | 0.3638 |
| \$20,000-\$29,999 | 230 | 190 | 40 | 9 | 9 | 9 | -0.0053 |
| \$30,000-\$49,999 | 380 | 310 | 70 | 16 | 16 | 16 | -0.0603 |
| \$50,000 or more | 530 | 410 | 110 | 23 | 22 | 30 | -1.4186 |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 1,390 | 1,150 | 240 | 54 | 55 | 52 | 0.6102 |
| No | 1,090 | 890 | 200 | 46 | 45 | 48 | -0.6102 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 1,220 | 1,010 | 210 | 48 | 49 | 45 | 0.5722 |
| No | 1,250 | 1,030 | 230 | 52 | 52 | 55 | $-0.5722$ |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 630 | 530 | 110 | 24 | 24 | 23 | 0.2371 |
| No | 1,840 | 1,510 | 330 | 76 | 76 | 77 | $-0.2371$ |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 1,020 | 830 | 180 | 40 | 40 | 39 | 0.1622 |
| No | 1,460 | 1,200 | 260 | 60 | 60 | 61 | $-0.1622$ |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 450 | 370 | 90 | 16 | 16 | 16 | 0.0701 |
| No | 2,020 | 1,670 | 350 | 84 | 84 | 85 | $-0.0701$ |
| Receipt of institution aid |  |  |  |  |  |  |  |
| Yes | 710 | 600 | 110 | 26 | 26 | 24 | 0.4055 |
| No | 1,760 | 1,440 | 320 | 74 | 74 | 76 | -0.4055 |
| Receipt of any aid |  |  |  |  |  |  |  |
| Yes | 1,790 | 1,480 | 300 | 70 | 70 | 69 | 0.3178 |
| No | 690 | 560 | 130 | 30 | 30 | 32 | $-0.3178$ |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 1,020 | 830 | 190 | 41 | 40 | 46 | -1.0475 |
| No | 1,430 | 1,200 | 230 | 59 | 60 | 54 | 1.0475 |

See notes at end of table.

Table H.7. Comparison of item respondents and nonrespondents for "Amount spouse owes on student loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence 1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 80 | 60 | 20 | 3 | 3 | 4 | -0.1995 |
| Mid East | 270 | 200 | 70 | 10 | 9 | 15 | -1.0930 |
| Great Lakes | 430 | 350 | 80 | 17 | 17 | 18 | -0.0798 |
| Plains | 240 | 190 | 50 | 9 | 9 | 12 | -0.6819 |
| Southeast | 690 | 590 | 100 | 26 | 27 | 21 | 1.0450 |
| Southwest | 320 | 270 | 50 | 13 | 14 | 9 | 0.8450 |
| Rocky Mountains | 150 | 140 | 10 | 6 | 6 | 5 | 0.2103 |
| Far West | 270 | 220 | 50 | 13 | 13 | 15 | -0.2942 |
| Outlying Areas | 40 | 30 | 10 | 2 | 3 | 1 | 0.2481 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,870 | 1,560 | 310 | 77 | 77 | 76 | 0.2985 |
| Work part-time | 270 | 210 | 60 | 10 | 9 | 13 | -0.6266 |
| Waiting to report to work/layoff | 30 | 30 | 10 | 1 | 1 | 2 | -0.2237 |
| Not working | 220 | 180 | 40 | 9 | 10 | 9 | 0.1821 |
| Homemaker | 60 | 50 | 10 | 2 | 3 | 1 | 0.4234* |
| Disabled | \# | \# | \# | \# | \# | \# | -0.0537 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,250 | 1,030 | 230 | 52 | 52 | 55 | $-0.5528$ |
| \$1 to \$2,499 | 340 | 290 | 50 | 13 | 14 | 11 | 0.5599 |
| \$3,500 to \$7,499 | 510 | 410 | 100 | 20 | 19 | 21 | -0.4155 |
| \$7,500 or more | 370 | 310 | 60 | 15 | 15 | 13 | 0.4084 |

\# Rounds to zero.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.8. Comparison of item respondents and nonrespondents for "Amount spouse borrowed in loans"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector |  |  |  |  |  |  |  |
| Public 4-year | 1,680 | 1,410 | 2,710 | 67 | 68 | 63 | 0.8360 |
| Non-doctorate-granting | 570 | 480 | 90 | 22 | 22 | 22 | 0.0436 |
| Doctorate-granting | 1,120 | 930 | 180 | 45 | 46 | 42 | 0.7924 |
| Private not-for-profit 4-year | 760 | 630 | 130 | 31 | 30 | 34 | -0.6470 |
| Non-doctorate-granting | 520 | 430 | 90 | 22 | 21 | 26 | -0.9166 |
| Doctorate-granting | 250 | 210 | 40 | 9 | 10 | 8 | 0.2696 |
| Private for-profit 4-year | 30 | 20 | 10 | 2 | 2 | 3 | -0.1890 |
| Institutional control and enrollment category Public |  |  |  |  |  |  |  |
| Fewer than 2,500 | 40 | 30 | 10 | 1 | 1 | 1 | 0.0350 |
| 2,500-4,999 | 130 | 120 | 10 | 5 | 6 | 4 | 0.3228 |
| 5,000-9,999 | 290 | 240 | 50 | 10 | 10 | 8 | 0.2503 |
| 10,000-19,999 | 460 | 390 | 80 | 19 | 19 | 20 | -0.0736 |
| 20,000 or more | 760 | 630 | 130 | 33 | 33 | 31 | 0.3017 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 100 | 80 | 20 | 3 | 3 | 3 | -0.0369 |
| 1,000-2,499 | 190 | 160 | 30 | 8 | 8 | 8 | -0.1152 |
| 2,500-4,999 | 230 | 180 | 40 | 9 | 9 | 12 | -0.6424 |
| 5,000-9,999 | 110 | 100 | 10 | 5 | 5 | 3 | 0.3108 |
| 10,000 or more | 130 | 110 | 20 | 6 | 6 | 7 | -0.1634 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | 10 | \# | \# | \# | \# | 1 | -0.1499 |
| 1,000 or more | 30 | 20 | 10 | 1 | 1 | 2 | -0.0391 |
| Institution region |  |  |  |  |  |  |  |
| New England | 70 | 60 | 20 | 3 | 3 | 4 | -0.2802 |
| Mid East | 270 | 210 | 60 | 10 | 9 | 13 | -0.6513 |
| Great Lakes | 430 | 360 | 70 | 18 | 18 | 17 | 0.1660 |
| Plains | 260 | 210 | 50 | 10 | 10 | 13 | -0.5707 |
| South East | 690 | 590 | 100 | 26 | 27 | 23 | 0.7642 |
| South West | 320 | 280 | 50 | 13 | 14 | 9 | 0.7463 |
| Rocky Mountains | 160 | 150 | 20 | 6 | 6 | 6 | 0.0633 |
| Far West | 250 | 200 | 40 | 13 | 13 | 15 | -0.4063 |
| Outlying Area | 20 | 20 | \# | 1 | 1 | \# | 0.1687 |
| Gender |  |  |  |  |  |  |  |
| Male | 950 | 810 | 140 | 41 | 42 | 40 | 0.4018 |
| Female | 1,530 | 1,260 | 270 | 59 | 58 | 61 | -0.4018 |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 30 | 280 | 40 | 12 | 12 | 10 | 0.4998 |
| 22 | 460 | 400 | 70 | 17 | 18 | 13 | 0.8095 |
| 23 | 310 | 270 | 40 | 12 | 12 | 11 | 0.2525 |
| 24 to 27 | 480 | 420 | 80 | 21 | 21 | 16 | 0.9283 |
| 28 or older | 900 | 700 | 190 | 39 | 36 | 51 | -2.4901* |
| Race |  |  |  |  |  |  |  |
| White | 2,130 | 1,800 | 340 | 83 | 84 | 79 | 0.8761 |
| Black or African American | 140 | 100 | 40 | 7 | 6 | 11 | -0.9610 |
| Asian | 70 | 60 | 10 | 4 | 5 | 3 | 0.2603 |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 20 | 20 | \# | 1 | 1 | 1 | -0.0033 |
| Native Hawaiian/Other Pacific Islander | 10 | 10 | \# | 1 | \# | 1 | -0.0401 |
| Other | 100 | 80 | 20 | 5 | 4 | 5 | -0.1321 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 140 | 120 | 20 | 8 | 8 | 8 | 0.0666 |
| No | 2,330 | 1,950 | 390 | 92 | 92 | 92 | -0.0666 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 2,380 | 1,990 | 390 | 94 | 94 | 94 | 0.1115 |
| Resident alien | 70 | 50 | 10 | 4 | 4 | 5 | -0.1345 |
| Foreign/international student | 30 | 20 | 10 | 2 | 2 | 2 | 0.0229 |

See notes at end of table.

Table H.8. Comparison of item respondents and nonrespondents for "Amount spouse borrowed in loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution Full-time/part year Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 960 | 810 | 150 | 37 | 37 | 34 | 0.5188 |
|  | 70 | 60 | 10 | 3 | 2 | 4 | -0.2157 |
|  | 620 | 520 | 90 | 25 | 25 | 22 | 0.4472 |
|  | 350 | 280 | 70 | 16 | 15 | 19 | $-0.7378$ |
|  | 50 | 40 | 10 | 2 | 1 | 2 | -0.1605 |
|  | 430 | 350 | 70 | 19 | 19 | 18 | 0.1480 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 20 | 20 | \# | 1 | 1 | 1 | -0.0216 |
| \$10,000-\$19,999 | 40 | 30 | 10 | 2 | 2 | 3 | -0.1725 |
| \$20,000-\$29,999 | 60 | 50 | 10 | 2 | 2 | 2 | -0.0298 |
| \$30,000-\$39,999 | 80 | 70 | 10 | 3 | 3 | 2 | 0.2366 |
| \$40,000-\$49,999 | 100 | 90 | 10 | 4 | 4 | 3 | 0.2877 |
| \$50,000-\$59,999 | 90 | 80 | 100 | 3 | 4 | 2 | 0.2685 |
| \$60,000-\$69,999 | 90 | 80 | 10 | 4 | 4 | 4 | 0.0284 |
| \$70,000-\$79,999 | 70 | 60 | 10 | 3 | 3 | 3 | -0.0494 |
| \$80,000-\$99,999 | 110 | 100 | 20 | 4 | 4 | 4 | 0.0491 |
| \$100,000 or more | 130 | 110 | 20 | 5 | 5 | 4 | 0.2602 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 140 | 110 | 20 | 6 | 6 | 4 | 0.2907 |
| \$5,000-\$9,999 | 140 | 110 | 30 | 5 | 5 | 5 | 0.0242 |
| \$10,000-\$19,999 | 290 | 250 | 40 | 11 | 11 | 9 | 0.4727 |
| \$20,000-\$29,999 | 230 | 190 | 40 | 9 | 9 | 10 | -0.1018 |
| \$30,000-\$49,999 | 380 | 320 | 60 | 16 | 16 | 16 | -0.0550 |
| \$50,000 or more | 530 | 420 | 110 | 23 | 22 | 31 | -1.4880 |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 1,390 | 1,170 | 220 | 54 | 55 | 50 | 0.8481 |
| No | 1,090 | 900 | 190 | 46 | 45 | 50 | -0.8481 |
| Receipt of federal aidYesNo |  |  |  |  |  |  |  |
|  | 1,220 | 1,030 | 190 | 48 | 49 | 44 | 0.7318 |
|  | 1,250 | 1,040 | 220 | 52 | 51 | 56 | $-0.7318$ |
| Receipt of Pell grantYesNo |  |  |  |  |  |  |  |
|  | 630 | 540 | 90 | 24 | 25 | 22 | 0.4371 |
|  | 1,840 | 1,530 | 320 | 76 | 75 | 78 | -0.4371 |
| Receipt of Stafford loanYesNo |  |  |  |  |  |  |  |
|  | 1,020 | 850 | 170 | 40 | 41 | 38 | 0.3662 |
|  | 1,460 | 1,220 | 240 | 60 | 60 | 62 | $-0.3662$ |
| Receipt of state aidYesNo |  |  |  |  |  |  |  |
|  | 450 | 370 | 80 | 16 | 16 | 15 | 0.1769 |
|  | 2,020 | 1,690 | 330 | 84 | 84 | 85 | $-0.1769$ |
| Receipt of institution aidYesNo |  |  |  |  |  |  |  |
|  | 710 | 610 | 100 | 26 | 26 | 23 | 0.5828 |
|  | 1,760 | 1,460 | 310 | 74 | 74 | 77 | -0.5828 |
| Receipt of any aidYesNo |  |  |  |  |  |  |  |
|  | 1,790 | 1,500 | 280 | 70 | 70 | 69 | 0.2533 |
|  | 690 | 560 | 130 | 30 | 30 | 31 | -0.2533 |
| Ever married |  |  |  |  |  |  |  |
| Yes | 0 | 0 | 0 | 0 | 0 | 0 | 0.0000 |
| No | 2,450 | 2,070 | 380 | 100 | 100 | 100 | 0.0000 |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 1,020 | 840 | 180 | 41 | 40 | 47 | -1.1658 |
| No | 1,430 | 1,220 | 210 | 59 | 60 | 53 | 1.1658 |

See notes at end of table.

Table H.8. Comparison of item respondents and nonrespondents for "Amount spouse borrowed in loans"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 80 | 60 | 20 | 3 | 3 | 4 | -0.2358 |
| Mid East | 270 | 210 | 60 | 10 | 9 | 14 | -0.9069 |
| Great Lakes | 430 | 350 | 80 | 17 | 17 | 18 | -0.0663 |
| Plains | 240 | 190 | 50 | 9 | 9 | 12 | -0.6314 |
| Southeast | 690 | 590 | 90 | 26 | 27 | 21 | 0.9664 |
| Southwest | 320 | 270 | 50 | 13 | 14 | 10 | 0.6914 |
| Rocky Mountains | 150 | 140 | 10 | 6 | 6 | 5 | 0.1940 |
| Far West | 270 | 220 | 50 | 13 | 13 | 15 | -0.2745 |
| Outlying Areas | 40 | 30 | 10 | 2 | 3 | 1 | 0.2631 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,870 | 1,580 | 290 | 77 | 77 | 76 | 0.2477 |
| Work part-time | 270 | 220 | 60 | 10 | 9 | 13 | -0.6266 |
| Waiting to report to work/layoff | 30 | 30 | 10 | 1 | 1 | 2 | $-0.0868$ |
| Not working | 220 | 190 | 30 | 9 | 10 | 9 | 0.1317 |
| Homemaker | 60 | 50 | 10 | 2 | 3 | 1 | 0.3885* |
| Disabled | \# | \# | \# | \# | \# | \# | $-0.0546$ |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,250 | 1,040 | 220 | 52 | 52 | 56 | $-0.7154$ |
| \$1 to \$2,499 | 340 | 290 | 50 | 13 | 14 | 10 | 0.6585 |
| \$3,500 to \$7,499 | 510 | 420 | 90 | 20 | 19 | 21 | -0.2920 |
| \$7,500 or more | 370 | 310 | 60 | 15 | 15 | 13 | 0.3490 |

\# Rounds to zero.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.9. Comparison of item respondents and nonrespondents for "Spouse's monthly student loan payment"


See notes at end of table.

Table H.9. Comparison of item respondents and nonrespondents for "Spouse's monthly student loan payment"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 850 | 680 | 180 | 35 | 36 | 34 | 0.2465 |
|  | 70 | 50 | 20 | 3 | 3 | 4 | $-0.2060$ |
|  | 570 | 460 | 110 | 24 | 25 | 23 | 0.2761 |
|  | 320 | 250 | 70 | 16 | 15 | 19 | $-0.7873$ |
|  | 50 | 40 | 10 | 2 | 1 | 2 | -0.1913 |
|  | 410 | 340 | 80 | 21 | 21 | 18 | 0.6620 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 20 | 10 | 10 | 1 | 1 | 2 | -0.1287 |
| \$10,000-\$19,999 | 40 | 30 | 10 | 2 | 1 | 3 | -0.2451 |
| \$20,000-\$29,999 | 50 | 40 | 10 | 2 | 2 | 2 | $-0.0773$ |
| \$30,000-\$39,999 | 60 | 50 | 10 | 3 | 3 | 2 | 0.1316 |
| \$40,000-\$49,999 | 80 | 70 | 10 | 4 | 4 | 3 | 0.3052 |
| \$50,000-\$59,999 | 80 | 70 | 10 | 3 | 4 | 2 | 0.2443 |
| \$60,000-\$69,999 | 80 | 60 | 20 | 4 | 4 | 4 | -0.0413 |
| \$70,000-\$79,999 | 70 | 50 | 20 | 3 | 2 | 3 | -0.2103 |
| \$80,000-\$99,999 | 100 | 80 | 20 | 4 | 4 | 4 | 0.0639 |
| \$100,000 or more | 120 | 100 | 20 | 5 | 6 | 4 | 0.3829 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 120 | 90 | 20 | 5 | 6 | 5 | 0.2063 |
| \$5,000-\$9,999 | 120 | 90 | 30 | 5 | 4 | 5 | -0.0674 |
| \$10,000-\$19,999 | 250 | 200 | 50 | 10 | 10 | 9 | 0.1404 |
| \$20,000-\$29,999 | 210 | 170 | 40 | 9 | 9 | 9 | 0.0440 |
| \$30,000-\$49,999 | 360 | 300 | 70 | 16 | 17 | 16 | 0.2273 |
| \$50,000 or more | 520 | 400 | 120 | 25 | 24 | 29 | $-0.9759$ |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 1,220 | 970 | 250 | 52 | 52 | 52 | 0.0806 |
| No | 1,040 | 840 | 200 | 48 | 48 | 48 | -0.0806 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 1,070 | 850 | 220 | 46 | 46 | 46 | -0.0232 |
| No | 1,200 | 960 | 240 | 54 | 55 | 54 | 0.0232 |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 540 | 430 | 110 | 22 | 22 | 23 | $-0.1501$ |
| No | 1,730 | 1,380 | 350 | 78 | 78 | 77 | 0.1501 |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 890 | 690 | 190 | 38 | 37 | 40 | $-0.5345$ |
| No | 1,380 | 1,120 | 260 | 62 | 63 | 60 | 0.5345 |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 400 | 310 | 90 | 15 | 14 | 16 | $-0.3566$ |
| No | 1,870 | 1,510 | 370 | 85 | 86 | 84 | 0.3566 |
| Receipt of institution aid |  |  |  |  |  |  |  |
| Yes | 630 | 510 | 120 | 25 | 26 | 24 | 0.2969 |
| No | 1,640 | 1,300 | 340 | 75 | 75 | 76 | -0.2969 |
| Receipt of any aid |  |  |  |  |  |  |  |
| Yes | 1,610 | 1,290 | 320 | 69 | 69 | 69 | $-0.0090$ |
| No | 660 | 520 | 140 | 31 | 31 | 31 | 0.0090 |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 930 | 740 | 190 | 41 | 40 | 46 | -1.2412 |
| No | 1,310 | 1,070 | 240 | 59 | 60 | 54 | 1.2412 |

See notes at end of table.

Table H.9. Comparison of item respondents and nonrespondents for "Spouse's monthly student loan payment"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence 1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 70 | 60 | 20 | 3 | 3 | 4 | -0.1875 |
| Mid East | 250 | 180 | 70 | 10 | 9 | 15 | -1.2487 |
| Great Lakes | 380 | 300 | 90 | 17 | 17 | 18 | -0.1606 |
| Plains | 210 | 160 | 50 | 9 | 8 | 12 | -0.8074 |
| Southeast | 640 | 540 | 100 | 27 | 28 | 21 | 1.4805 |
| Southwest | 290 | 240 | 50 | 13 | 14 | 10 | 0.7701 |
| Rocky Mountains | 140 | 120 | 20 | 6 | 6 | 5 | 0.2372 |
| Far West | 240 | 190 | 50 | 13 | 13 | 15 | -0.3911 |
| Outlying Areas | 30 | 30 | 10 | 2 | 3 | 1 | 0.3074 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,720 | 1,400 | 330 | 77 | 78 | 76 | 0.3792 |
| Work part-time | 250 | 180 | 70 | 9 | 9 | 12 | -0.7918 |
| Waiting to report to work/layoff | 30 | 20 | 10 | 1 | 1 | 2 | -0.2175 |
| Not working | 200 | 160 | 40 | 10 | 10 | 9 | 0.2231 |
| Homemaker | 50 | 50 | 10 | 2 | 3 | 1 | 0.4634* |
| Disabled | \# | \# | \# | \# | \# | \# | -0.0565 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 1,200 | 960 | 240 | 55 | 55 | 54 | 0.0423 |
| \$1 to \$2,499 | 300 | 250 | 60 | 13 | 13 | 11 | 0.3986 |
| \$3,500 to \$7,499 | 450 | 350 | 100 | 19 | 18 | 21 | -0.6774 |
| \$7,500 or more | 310 | 250 | 60 | 14 | 14 | 13 | 0.2365 |

\# Rounds to zero.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.10. Comparison of item respondents and nonrespondents for "Sections taught per day-current job"

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Institutional sector <br> Public 4-year <br> Non-doctorate-granting <br> Doctorate-granting <br> Private not-for-profit 4-year <br> Non-doctorate-granting <br> Doctorate-granting <br> Private for-profit 4-year |  |  |  |  |  |  |  |
|  | 1,020 | 730 | 290 | 68 | 69 | 65 | 0.9440 |
|  | 430 | 300 | 120 | 27 | 28 | 26 | 0.5400 |
|  | 590 | 420 | 170 | 40 | 41 | 39 | 0.4040 |
|  | 480 | 330 | 150 | 32 | 31 | 34 | -0.8670 |
|  | 330 | 230 | 100 | 22 | 21 | 25 | -1.0493 |
|  | 150 | 100 | 50 | 10 | 10 | 9 | 0.1823 |
|  | \# | \# | \# | \# | \# | \# | -0.0770 |
| Institutional control and enrollment category |  |  |  |  |  |  |  |
| Fewer than 2,500 | 20 | 20 | 10 | 1 | 1 | 0 | 0.1017 |
| 2,500-4,999 | 80 | 60 | 20 | 6 | 6 | 6 | 0.1237 |
| 5,000-9,999 | 230 | 170 | 60 | 13 | 14 | 11 | 0.8714 |
| 10,000-19,999 | 310 | 230 | 90 | 21 | 21 | 20 | 0.1723 |
| 20,000 or more | 370 | 260 | 110 | 27 | 27 | 28 | -0.3251 |
| Private not-for-profit |  |  |  |  |  |  |  |
| Fewer than 1,000 | 60 | 40 | 20 | 3 | 3 | 5 | -0.6041 |
| 1,000-2,499 | 120 | 100 | 30 | 8 | 9 | 5 | 1.1645 |
| 2,500-4,999 | 150 | 100 | 60 | 10 | 8 | 13 | -1.3248 |
| 5,000-9,999 | 80 | 50 | 20 | 5 | 5 | 5 | 0.2264 |
| 10,000 or more | 70 | 50 | 20 | 6 | 6 | 7 | -0.3290 |
| Private for-profit |  |  |  |  |  |  |  |
| Fewer than 999 | \# | \# | 0 | \# | \# | 0 | 0.0181 |
| 1,000 or more | \# | 0 | \# | \# | 0 | \# | -0.0951 |
| Institution region |  |  |  |  |  |  |  |
| New England | 80 | 50 | 30 | 6 | 6 | 6 | 0.0400 |
| Mid East | 270 | 180 | 80 | 16 | 17 | 15 | 0.3263 |
| Great Lakes | 240 | 170 | 60 | 18 | 19 | 16 | 0.6883 |
| Plains | 150 | 100 | 40 | 9 | 9 | 9 | -0.1996 |
| South East | 430 | 320 | 120 | 25 | 25 | 24 | 0.3632 |
| South West | 180 | 120 | 50 | 13 | 13 | 14 | -0.3551 |
| Rocky Mountains | 50 | 40 | 10 | 3 | 3 | 3 | 0.0406 |
| Far West | 110 | 60 | 50 | 10 | 9 | 13 | -1.3076 |
| Outlying Area | 10 | 10 | 0 | 1 | 1 | 0 | 0.4040 |
| GenderMaleFemale |  |  |  |  |  |  |  |
|  | 370 | 310 | 60 | 28 | 32 | 19 | 3.7080* |
|  | 1,130 | 750 | 390 | 72 | 68 | 81 | -3.7080* |
| Age |  |  |  |  |  |  |  |
| 21 or younger | 360 | 240 | 120 | 22 | 21 | 24 | -0.8458 |
| 22 | 420 | 300 | 120 | 26 | 26 | 24 | 0.7371 |
| 23 | 220 | 170 | 60 | 16 | 17 | 12 | 1.4465 |
| 24 to 27 | 240 | 170 | 70 | 18 | 17 | 20 | -0.9659 |
| 28 or older | 270 | 190 | 80 | 19 | 19 | 20 | -0.3720 |
| Race |  |  |  |  |  |  |  |
| White | 1,280 | 920 | 360 | 82 | 84 | 76 | 2.1173 |
| Black or African American | 120 | 80 | 40 | 9 | 9 | 10 | -0.2173 |
| Asian | 20 | 10 | 10 | 1 |  | 2 | $-0.4571$ |
| American Indian/Alaska Native Native Hawaiian/Other Pacific | 10 | 10 | \# | 1 | 1 | 1 | -0.0841 |
| Islander | 10 | \# | \# | 1 | \# | 1 | -0.2559 |
| Other | 80 | 50 | 30 | 7 | 6 | 9 | -1.1029 |
| Hispanic |  |  |  |  |  |  |  |
| Yes | 130 | 90 | 40 | 13 | 12 | 15 | -1.1161 |
| No | 1,380 | 970 | 400 | 87 | 88 | 85 | 1.1161 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. citizen | 1,470 | 1,040 | 440 | 96 | 96 | 97 | -0.4949 |
| Resident alien | 30 | 20 | 10 | 3 | 4 | 2 | 0.4810 |
| Foreign/international student | \# | \# | \# | 1 | 1 | 1 | 0.0139 |

See notes at end of table.

Table H.10. Comparison of item respondents and nonrespondents for "Sections taught per day-current job"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 710 | 490 | 220 | 44 | 42 | 47 | $-1.4680$ |
|  | 50 | 40 | 20 | 3 | 3 | 3 | 0.0501 |
|  | 430 | 310 | 120 | 28 | 29 | 26 | 0.7231 |
|  | 140 | 100 | 40 | 11 | 11 | 11 | 0.0705 |
|  | 20 | 20 | \# | 2 | 2 | 1 | 0.4841 |
|  | 150 | 100 | 40 | 13 | 13 | 12 | 0.1401 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 30 | 20 | 10 | 2 | 2 | 2 | 0.0255 |
| \$10,000-\$19,999 | 40 | 30 | 10 | 3 | 3 | 3 | 0.1995 |
| \$20,000-\$29,999 | 70 | 50 | 20 | 4 | 4 | 5 | -0.4716 |
| \$30,000-\$39,999 | 80 | 50 | 30 | 6 | 5 | 6 | -0.3169 |
| \$40,000-\$49,999 | 90 | 70 | 20 | 6 | 6 | 4 | 0.8390 |
| \$50,000-\$59,999 | 100 | 70 | 30 | 6 | 6 | 6 | -0.0533 |
| \$60,000-\$69,999 | 100 | 70 | 30 | 7 | 7 | 7 | 0.1211 |
| \$70,000-\$79,999 | 90 | 60 | 30 | 5 | 6 | 5 | 0.2454 |
| \$80,000-\$99,999 | 100 | 70 | 30 | 6 | 6 | 5 | 0.2879 |
| \$100,000 or more | 150 | 100 | 50 | 9 | 9 | 9 | 0.0360 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 120 | 90 | 40 | 8 | 8 | 8 | 0.1865 |
| \$5,000-\$9,999 | 110 | 80 | 30 | 8 | 7 | 9 | -0.5451 |
| \$10,000-\$19,999 | 140 | 100 | 40 | 9 | 9 | 9 | 0.0265 |
| \$20,000-\$29,999 | 110 | 80 | 30 | 7 | 7 | 7 | -0.0913 |
| \$30,000-\$49,999 | 120 | 80 | 30 | 8 | 8 | 7 | 0.3577 |
| \$50,000 or more | 70 | 50 | 20 | 6 | 5 | 8 | -0.8470 |
| Applied for aidYesNo |  |  |  |  |  |  |  |
|  | 1,040 | 720 | 320 | 69 | 68 | 73 | -1.4705 |
|  | 470 | 340 | 130 | 31 | 33 | 27 | 1.4705 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 900 | 630 | 280 | 60 | 59 | 63 | -1.0389 |
| No | 600 | 430 | 170 | 40 | 41 | 37 | 1.0389 |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 460 | 330 | 130 | 30 | 29 | 32 | -0.7415 |
| No | 1,050 | 730 | 310 | 70 | 71 | 68 | 0.7415 |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 770 | 530 | 240 | 52 | 50 | 55 | -1.5828 |
| No | 740 | 530 | 210 | 49 | 50 | 45 | 1.5828 |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 370 | 260 | 110 | 21 | 21 | 22 | -0.3446 |
| No | 1,130 | 800 | 330 | 79 | 79 | 78 | 0.3446 |
| Receipt of institution aidYesNo |  |  |  |  |  |  |  |
|  | 550 | 400 | 150 | 33 | 34 | 32 | 0.7520 |
|  | 960 | 660 | 300 | 67 | 66 | 68 | -0.7520 |
| Receipt of any aidYesNo |  |  |  |  |  |  |  |
|  | 1,140 | 800 | 340 | 73 | 73 | 74 | -0.2587 |
|  | 370 | 260 | 110 | 27 | 27 | 26 | 0.2587 |
| Ever marriedYesNo |  |  |  |  |  |  |  |
|  | 700 | 510 | 190 | 44 | 45 | 41 | 1.4111 |
|  | 790 | 550 | 240 | 56 | 55 | 59 | -1.4111 |
| Dependents other than spouseYes |  |  |  |  |  |  |  |
|  | 380 | 270 | 110 | 25 | 24 | 27 | -0.9323 |
| No | 1,120 | 790 | 330 | 75 | 76 | 73 | 0.9323 |

See notes at end of table.

Table H.10. Comparison of item respondents and nonrespondents for "Sections taught per day-current job"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 70 | 40 | 30 | 5 | 5 | 4 | 0.0892 |
| Mid East | 270 | 180 | 90 | 17 | 18 | 17 | 0.2028 |
| Great Lakes | 250 | 190 | 70 | 19 | 19 | 18 | 0.3560 |
| Plains | 120 | 90 | 30 | 7 | 7 | 5 | 0.6483 |
| Southeast | 430 | 310 | 120 | 24 | 25 | 24 | 0.1197 |
| Southwest | 170 | 120 | 50 | 13 | 13 | 14 | -0.3820 |
| Rocky Mountains | 50 | 40 | 10 | 3 | 3 | 3 | 0.1068 |
| Far West | 120 | 70 | 50 | 11 | 9 | 15 | -1.7000 |
| Outlying Areas | 10 | 10 | \# | 2 | 2 | \# | 0.5593* |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Work full-time | 1,360 | 970 | 380 | 91 | 90 | 91 | -0.2527 |
| Work part-time | 70 | 50 | 20 | 5 | 5 | 4 | 0.4418 |
| Waiting to report to work/layoff | 10 | 10 | 0 | 1 | 1 | 0 | 0.2272 |
| Not working | 40 | 20 | 20 | 4 | 3 | 5 | -0.5067 |
| Homemaker | 10 | 10 | 0 | \# | \# | 0 | 0.0903 |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| $\$ 0$ | 600 | 430 | 170 | 40 | 41 | 38 | 0.9937 |
| \$1 to \$2,499 | 260 | 170 | 80 | 15 | 16 | 15 | 0.1149 |
| \$3,500 to \$7,499 | 400 | 280 | 120 | 28 | 28 | 27 | 0.2893 |
| \$7,500 or more | 240 | 170 | 80 | 17 | 16 | 20 | -1.3979 |

\# Rounds to zero. All zeros provided in this table are actual values.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Table H.11. Comparison of item respondents and nonrespondents for "Time scale of pay-hourly/weekly/monthly"


See notes at end of table.

Table H.11. Comparison of item respondents and nonrespondents for "Time scale of pay-hourly/weekly/monthly"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Attendance status <br> Full-time/full year, 1 institution Full-time/full year, more than 1 institution <br> Full-time/part year <br> Part-time/full year, 1 institution Part-time/full year, more than 1 institution Part-time/part year |  |  |  |  |  |  |  |
|  | 610 | 310 | 300 | 45 | 57 | 38 | 11.8537* |
|  | 70 | 30 | 40 | 4 | 4 | 4 | -0.4853 |
|  | 240 | 90 | 150 | 20 | 15 | 23 | -4.5966* |
|  | 150 | 50 | 100 | 14 | 11 | 15 | -2.5997 |
|  | 30 | 10 | 20 | 1 | \# | 2 | -0.9117* |
|  | 190 | 60 | 140 | 16 | 13 | 18 | -3.2604 |
| Parents' income (for dependent students) |  |  |  |  |  |  |  |
| Less than \$10,000 | 20 | 10 | 10 | 1 | 2 | 1 | 0.6395* |
| \$10,000-\$19,999 | 50 | 20 | 30 | 4 | 3 | 4 | -0.5192* |
| \$20,000-\$29,999 | 70 | 30 | 40 | 6 | 5 | 6 | -0.9832 |
| \$30,000-\$39,999 | 60 | 30 | 30 | 4 | 5 | 4 | 0.7944 |
| \$40,000-\$49,999 | 70 | 40 | 30 | 5 | 7 | 4 | 1.7741 |
| \$50,000-\$59,999 | 80 | 50 | 30 | 6 | 8 | 5 | 1.7748 |
| \$60,000-\$69,999 | 70 | 30 | 40 | 5 | 4 | 6 | -1.0113 |
| \$70,000-\$79,999 | 60 | 30 | 30 | 5 | 7 | 4 | 1.8085 |
| \$80,000-\$99,999 | 100 | 50 | 50 | 7 | 9 | 6 | 1.9046 |
| \$100,000 or more | 140 | 80 | 70 | 11 | 14 | 9 | 3.3712 |
| Student's income (for independent students) |  |  |  |  |  |  |  |
| Less than \$5,000 | 110 | 50 | 60 | 8 | 10 | 6 | 2.1374 |
| \$5,000-\$9,999 | 70 | 30 | 40 | 6 | 7 | 5 | 0.7952 |
| \$10,000-\$19,999 | 80 | 30 | 50 | 6 | 6 | 7 | -0.1246 |
| \$20,000-\$29,999 | 60 | 20 | 50 | 4 | 2 | 5 | -1.7866 |
| \$30,000-\$49,999 | 110 | 30 | 80 | 10 | 7 | 12 | -3.2168 |
| \$50,000 or more | 140 | 20 | 120 | 12 | 5 | 17 | -7.3581* |
| Applied for aid |  |  |  |  |  |  |  |
| Yes | 660 | 310 | 350 | 48 | 52 | 45 | 3.7668 |
| No | 630 | 230 | 400 | 52 | 49 | 55 | -3.7668 |
| Receipt of federal aid |  |  |  |  |  |  |  |
| Yes | 580 | 270 | 300 | 43 | 47 | 40 | 4.2548 |
| No | 720 | 270 | 450 | 58 | 53 | 60 | -4.2548 |
| Receipt of Pell grant |  |  |  |  |  |  |  |
| Yes | 270 | 130 | 140 | 19 | 23 | 17 | 3.7764* |
| No | 1030 | 410 | 610 | 81 | 77 | 83 | -3.7764* |
| Receipt of Stafford loan |  |  |  |  |  |  |  |
| Yes | 500 | 240 | 260 | 38 | 41 | 36 | 3.5187 |
| No | 800 | 310 | 490 | 62 | 59 | 64 | -3.5187 |
| Receipt of state aid |  |  |  |  |  |  |  |
| Yes | 240 | 120 | 120 | 15 | 18 | 13 | 3.1255* |
| No | 1,060 | 430 | 630 | 85 | 82 | 87 | -3.1255* |
| Receipt of institution aid |  |  |  |  |  |  |  |
| Yes | 410 | 210 | 200 | 28 | 37 | 23 | 8.5329* |
| No | 880 | 330 | 550 | 72 | 63 | 77 | -8.5329* |
| Receipt of any aid |  |  |  |  |  |  |  |
| Yes | 880 | 380 | 500 | 65 | 65 | 65 | 0.0878 |
| No | 420 | 160 | 250 | 35 | 35 | 35 | -0.0878 |
| Ever married |  |  |  |  |  |  |  |
| Yes | 460 | 150 | 310 | 35 | 25 | 41 | -9.5585* |
| No | 810 | 400 | 420 | 65 | 75 | 59 | 9.5585* |
| Dependents other than spouse |  |  |  |  |  |  |  |
| Yes | 230 | 80 | 160 | 18 | 13 | 21 | -4.7552* |
| No | 1,040 | 470 | 570 | 82 | 87 | 79 | 4.7552* |

See notes at end of table.

Table H.11. Comparison of item respondents and nonrespondents for "Time scale of pay-hourly/weekly/monthly"-Continued

| Variable description | Sample size |  |  | Percent estimate |  |  | Bias |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Respondent | Nonrespondent | Total | Respondent | Nonrespondent |  |
| Student's state of legal residence 1999-2000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| New England | 70 | 20 | 40 | 5 | 4 | 6 | -1.3318 |
| Mid East | 250 | 110 | 140 | 18 | 20 | 18 | 1.3114 |
| Great Lakes | 220 | 90 | 130 | 17 | 16 | 18 | -0.9344 |
| Plains | 120 | 60 | 60 | 9 | 9 | 9 | 0.4107 |
| Southeast | 320 | 120 | 200 | 22 | 21 | 22 | -0.3971 |
| Southwest | 130 | 50 | 80 | 11 | 9 | 12 | -1.8302 |
| Rocky Mountains | 40 | 20 | 20 | 3 | 2 | 4 | -0.8048 |
| Far West | 140 | 70 | 80 | 13 | 15 | 12 | 1.7147 |
| Outlying Areas | 20 | 10 | 10 | 2 | 4 | 1 | 1.8615 |
| Current employment status for B\&B interview |  |  |  |  |  |  |  |
| Work full-time | 910 | 290 | 620 | 74 | 55 | 86 | -20.1531* |
| Work part-time | 360 | 250 | 110 | 26 | 46 | 14 | 20.1531* |
| Cumulative amount of Federal loans |  |  |  |  |  |  |  |
| \$0 | 720 | 270 | 450 | 58 | 53 | 60 | -4.2938 |
| \$1 to \$2,499 | 130 | 60 | 80 | 9 | 8 | 9 | -0.7430 |
| \$3,500 to \$7,499 | 260 | 120 | 130 | 19 | 21 | 17 | 2.0223 |
| \$7,500 or more | 190 | 90 | 90 | 15 | 18 | 13 | 3.0145 |

\# Rounds to zero.
$\dagger$ Not Applicable.
*Bias is significant at the $.05 /(\mathrm{c}-1)$ level, where c is the number of categories within the primary variable.
NOTE: Details may not sum to 100 due to rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B: 2000/01).

Appendix I
Using the B\&B:2000/01 Survey Weights

## Appendix I <br> Using the B\&B:2000/01 Survey Weights

The B\&B sampling design consisted of three stratified stages. A stratified sample of postsecondary institutions was selected with probabilities proportional to a composite measure of size at the first stage, a stratified systematic sample of students was selected from sample institutions at the second stage, and a stratified sample of individuals identified as confirmed or potential baccalaureate recipients was selected at the third stage. With three sample stages and stratified sampling at each stage, the B\&B data were obtained from a complex sampling design and require specialized software for appropriate estimation. In this appendix, sample code from SUDAAN, one such package, is provided to show how the estimation can be done. Also provided are the names and locations of available weight variables, and a description of a design effects based approach that can be used as a rough guide in situations in which appropriate software is not available.

## I. 1 B\&B:2000/01 Weight Variables and Location

The B\&B:2000/01 weight variables can be found in two files on the ECB: the Weights file and the Analysis file.

The Analysis file contains, in addition to many other variables, the final Taylor series weight variable BB01AWT, together with its analysis strata variable BB01ASTR and analysis PSU variable BB01APSU.

The Weights file contains the above three Analysis file variables and also contains BRR weights BB1BRR01 through BB1BRR64, and the initial NPSAS institution weight INSTWT. The student ID variable ZRID is provided for merging, as well as an indicator of B\&B:2000/01 respondent status, B01INT.

## I. 2 Using the B\&B:2000/01 Survey Weights in Practice

Most commonly used statistical computing packages (e.g., SAS and SPSS) assume independent, identically distributed observations from a population of infinite size. When the data come from a finite population and have been collected using a complex sampling design, then the assumptions of the commonly used packages usually lead to an underestimate of the sampling variance, producing artificially small confidence intervals and nonconservative hypothesis test results (i.e., rejecting the null hypothesis when it is in fact true more often than indicated by the nominal Type I error level) (Carlson et al, 1993). ${ }^{1}$

[^3]Statistical strategies that have been developed to address this issue include first-order Taylor series expansion, balanced repeated replication, and the Jackknife approach. The first two of these approaches are described briefly in chapter 6; all are covered in-depth in Wölter (1985). ${ }^{2}$

Special-purpose software packages that have been developed for analysis of complex sample survey data include SUDAAN, WesVar, and Stata. Evaluations of the relative performances of these packages are reported by Cohen (1997). ${ }^{3}$ SUDAAN is a commercial product developed by RTI, and information regarding the features of this package is available from http://www.rti.org/sudaan Information regarding WesVar, a product of Westat, Inc., is available from the website http://www.westat.com/wesvar; and information regarding Stata, a product of Stata Corporation, is available at http://www.stata.com NCES also has developed a software tool called the DAS for analysis of complex survey data. Information about using the DAS is available from http://nces.ed.gov/das

For Taylor series approximation of standard errors using SUDAAN or Stata, analysis strata and analysis PSUs for the baccalaureate recipients of the B\&B study are provided in the B\&B:2000/01 ECB Weights file by variables BB01ASTR and BB01APSU, respectively. The study weights used with these strata and PSUs are the final weights (the rounded $w_{5 i}$ of chapter 6) given by the variable BB01AWT .

Below is an example of generic SUDAAN code to produce estimates and standard errors using Taylor Series approximation for baccalaureate recipients. The symbols /* and */ in the code indicate the beginning and end of a comment. The data set must already be sorted by analysis strata and analysis PSUs within strata.

```
proc descript data=/* insert dataset filename*/ design=wr;
nest bb01astr bb01apsu;
weight bb01awt;
var /*insert NPSAS:2000 or B&B:2000/2001 variables*/;
subpopn /* insert domain of interest if domain is a subset of baccalaureates*/;
print nsum mean semean / style=nchs;
run;
```

For BRR approximation of standard errors using SUDAAN or WesVar, there are 64 separate BRR weights, and these are provided in the B\&B:2000/01 ECB Weights file by the variables BB1BRR01 through BB1BRR64.

Below is an example of generic SUDAAN code to produce BRR standard errors for baccalaureate recipients. For the BRR approach, the data set does not need to be sorted by analysis strata and PSUs.
proc descript data=/* insert dataset filename*/ design=brr;
repwgt bb1brr01-bb1brr64;
weight bb01awt;
var /*insert NPSAS:2000 or B\&B:2000/2001 variables*/;

[^4]subpopn /* insert domain of interest if domain is a subset of baccalaureates*/; print nsum mean semean / style=nchs;
run;

## I. 3 Using Design Effects Without Analysis Software

If one must perform an analysis of B\&B:2000/01 data using a software package that does not allow for complex survey data analysis, the design effects in appendix $G$ can provide a rough guide to the adjustment needed for the resulting standard errors. See appendix G for more details.

Appendix J
GEM Adjustment Procedure

## Appendix J <br> GEM Adjustment Procedure

Weight adjustments are obtained using a generalized exponential model (GEM) with weight adjustment at adjustment step $j$ for individual $i$ having the following form:

$$
a_{j i}\left(\lambda_{j}\right)=\frac{l_{j i}\left(u_{j i}-c_{j i}\right)+u_{j i}\left(c_{j i}-l_{j i}\right) \exp \left(A_{j i} x_{j i}{ }^{\prime} \lambda_{j}\right)}{\left(u_{j i}-c_{j i}\right)+\left(c_{j i}-l_{j i}\right) \exp \left(A_{j i} x_{j i}{ }^{\prime} \lambda_{j}\right)}
$$

where the $l_{j i}, u_{j i}$ are lower and upper bounds on $a_{j i}$, the $c_{j i}$ are pre-specified centering constants such that $l_{j i}<c_{j i}<u_{j i}, \boldsymbol{x}_{j i}$ is a $p x l$ covariate-vector, and, $A_{j i}=u_{j i}-l_{j i} /\left(u_{j i}-c_{j i}\right)\left(c_{j i}-l_{j i}\right)$ is a scale factor. ${ }^{1}$ The $p$-dimensional parameter vector $\lambda_{j}$ is estimated by solving

$$
\begin{equation*}
\sum_{i \in A} x_{j i} w_{j i} a_{j i}\left(\lambda_{j}\right)-T_{x}=0 \tag{1}
\end{equation*}
$$

where $T_{x}$ is a control total vector and $A$ is the set of individuals whose weights are being adjusted.

To fit a GEM, at adjustment step $j$, individuals are first stratified and then grouped according to extreme weights within strata: low-extreme, normal, or high-extreme weights. Depending on the strata and extreme weight group they are in, each individual is then assigned a bounds adjustment multiple. Furthermore, across all strata, each extreme weight group is given group-specific bounds. Each individual's final adjustment bounds for model fitting is obtained by multiplying their individual adjustment multiple by the group-specific bounds. The GEM can then be fit with individual weight adjustments constrained to lie within the obtained bounds

The first step in finding individual bounds was to stratify individuals by institutional sector, the five level cross of institutional control, and highest level of offering. ${ }^{2}$ These strata were used in the sampling design, as outlined in section 2.1, and so should group similar weights together.

For each stratum, individuals were then further partitioned into extreme weight groups: low-extreme, normal, and high-extreme. This partitioning was accomplished using a standard nonparametric approach to outlier detection based on the interquartile range. Within stratum $k$ for $k=1, \ldots, 5$, the interquartile range, $I Q R_{k}$ is as follows:

[^5]$$
I Q R_{j k}=\hat{P}_{j k, 75}-\hat{P}_{j k, 25},
$$
the difference of the estimated $75^{\text {th }}$ and $25^{\text {th }}$ percentiles (the third and first quartiles). Using $\hat{P}_{j k, 50}$, the estimated stratum $k$ sample median, outlier bounds $b_{j k 1}, b_{j k 2}$ were computed where
\[

$$
\begin{aligned}
b_{j k 1} & =\hat{P}_{j k, 50}-3 I Q R_{j k} \\
b_{j k 2} & =\hat{P}_{j k, 50}+3 I Q R_{j k}
\end{aligned}
$$
\]

and the weights in stratum $k$ could then be grouped: $w_{j i}$ is considered low-extreme if $w_{j i}<b_{j k 1}, w_{j i}$ is considered high-extreme if $w_{j i}>b_{j k 2}$, and $w_{j i}$ is considered normal otherwise. The individual $i$ bounds adjustment multiple, $m_{j i}$, is then obtained as follows:

$$
\begin{aligned}
m_{j i} & =\frac{b_{j k 1}}{w_{j i}} & & \text { if } w_{j i} \text { is low-extreme } \\
& =1 & & \text { if } w_{j i} \text { is normal } \\
& =\frac{b_{j k 2}}{w_{j i}} & & \text { if } w_{j i} \text { is high-extreme }
\end{aligned}
$$

and so $m_{j i}>1$ for low-extreme weights and $m_{j i}<1$ for high-extreme weights. This has the desirable effect of increasing the lower bound for low-extreme weights and decreasing the upper bound for high-extreme weights.

To obtain the extreme weight group bounds, let $g$ give the grouping, with $g=1$ being low-extreme, $g=2$ being normal, and $g=3$ being high-extreme. The group bounds are then a lower bound $l_{j g}^{*}$, and an upper bound $u_{j g}^{*}$, and also a centering constant $c_{j}^{*}$. To reduce the total number of bounds in the model and so simplify the fitting process, $l_{j 2}^{*}=l_{j 3}^{*}$, and $u_{j 1}^{*}=u_{j 2}^{*}$ was always constrained. Extreme weight group bounds were then further constrained depending on whether the adjustment step was for nonresponse or poststratification.

The additional constraints on the extreme weight group bounds for nonresponse adjustment are that $l_{j 1}^{*}=l_{j 2}^{*}=l_{j 3}^{*}=1$ because individual weight adjustments were restricted to be greater than 1. This is desirable as nonresponse adjustments represent the inverse of response probabilities. The centering constant $c_{j}^{*}$ is then set equal to the reciprocal of the estimated weighted response rate.

The additional constraints on the extreme weight group bounds for poststratification, the fourth adjustment step, are that centering constant $c_{4}^{*}=1$ in order to not adjust the weights too far away from the original design weight. This forces $l_{4 g}^{*}<1$
and $u_{4 g}^{*}>1$, which are consistent with the control totals being either larger or smaller than the estimated totals based on the design weights.

Subject to all of the above constraints, the extreme weight group bounds used in adjusting the $\mathrm{B} \& \mathrm{~B}$ initial weights are provided in table J.1. All further specifications of these bounds were made to ensure model convergence.

Table J.1. Bounds and centering constants for group weight adjustments for each GEM adjustment step

| Adjustment step | Lower Bounds |  |  | Centering constant$c_{j}^{*}$ | Upper bounds |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Low- } \\ \text { extreme } \\ l_{j 1}^{*} \end{gathered}$ | Normal $l_{j 2}^{*}$ | $\begin{gathered} \text { High } \\ \text { extreme } \\ l_{j 3}^{*} \end{gathered}$ |  | Lowextreme $u_{j 1}^{*}$ | Normal $u_{j 2}^{*}$ | High extreme $u_{j 3}^{*}$ |
| Location adjustment, $j=1$ | 1.00 | 1.00 | 1.00 | 1.09 | 1.10 | 3.00 | 3.00 |
| Refusal adjustment, $j=2$ | 1.00 | 1.00 | 1.00 | 1.08 | 1.80 | 2.00 | 2.00 |
| Other nonresponse adjustment, $j=3$ | 1.00 | 1.00 | 1.00 | 1.05 | 2.20 | 2.20 | 2.20 |
| Poststratification adjustment, $j=4$ | 0.70 | 0.70 | 0.90 | 1.00 | 1.10 | 1.30 | 1.30 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2000-2001 Baccalaureate and Beyond Longitudinal Study (B\&B:2000/01).

Once the group bounds had been determined, individual weight adjustment bounds were found by multiplying the individual bounds adjustment multiples by the appropriate group specific bounds:

$$
\begin{gathered}
l_{j i}=l_{j g}^{*} m_{j i} \\
c_{j i}=c_{j}^{*} m_{j i} \\
u_{j i}=u_{j g}^{*} m_{j i}
\end{gathered}
$$

where $g$ is determined by the group to which $w_{j i}$ belongs.
GEM adjustment for nonresponse and poststratification also differs by choice of covariate vector $\boldsymbol{x}_{j i}$, and the composition of control total vector $T_{x}$.

For nonresponse adjustment, the components of $\boldsymbol{x}_{j i}$ are the predictors of nonresponse. Vector $T_{x}$ is in this case the full sample (respondents and nonrespondents) weight totals for the levels of the predictors in $\boldsymbol{x}_{j i}$. Solution of equation (1) is then equivalent to finding the $\lambda_{j}$ for which $\sum_{i \in A} x_{j i} w_{j i} a_{j i}\left(\lambda_{j}\right)=T_{x}$ where $A$ is the set of all respondents. That is, the lambda is found such that its associated adjustments have the property that sums of adjusted weights for respondents equal sums of the current weights over the entire sample. Since nonrespondents have adjusted weights set equal to zero, it is then also true that over all sampled individuals, sums of adjusted weights equal those of current weights.

For poststratification adjustment, the components of $\boldsymbol{x}_{j i}$ are the levels of the selected variables for which population level control totals are available. In this case, vector $T_{x}$ contains these IPEDS totals, and the resulting weights have been adjusted to preserve the totals.


[^0]:    ${ }^{1}$ There were 9,650 full-interview respondents. Other types of respondents are 370 abbreviated-interview respondents and 10 partial-interview respondents.

[^1]:    See notes at end of table.

[^2]:    See notes at end of table.

[^3]:    ${ }^{1}$ Carlson, B.L., Johnson, A.E., and Cohen, S.B. (1993). An evaluation of the use of personal computers for variance estimation with complex survey data. Journal of Official Statistics, 9: 795-814.

[^4]:    ${ }^{2}$ Wölter, K.N. (1985). Introduction to variance estimation. New York, Springer-Verlag.
    ${ }^{3}$ Cohen, S.B. (1997). An evaluation of alternative PC-based software packages developed for the analysis of complex survey data. The American Statistician, 57:285-292.

[^5]:    ${ }^{1}$ To see the relationship to a logit model, let the lower bound $l_{j i}$ equal 1 , the centering constant $c_{j i}$ equal 2 , and let the upper bound $u_{j i}$ go to infinity. In the limit there is $a_{j i}=1+\exp \left(x_{\mathrm{ji}}{ }^{\prime} \boldsymbol{\lambda}_{\mathrm{j}}\right)$, a logit model in which $a_{j i}$ is the reciprocal of a response probability.
    ${ }^{2}$ At institution where degree was received.

