Student Aid Policy Analysis

Growth in Cumulative Education Debt at College Graduation

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EXECUTIVE SUMMARY

The number of college students graduating with debt and the average cumulative debt continues to grow, especially among students demonstrating financial need. Significantly more Pell Grant recipients graduate with student loans than non-recipients and with much higher cumulative debt.

The key findings of this report are as follows:

- Two-thirds of Bachelor's degree recipients graduated with student loans in 2007-08, with an average of \$23,186 in cumulative debt. Cumulative debt at the 90th percentile is \$44,668. The cumulative debt at graduation is increasing by \$1,139 (5.6%) per year. If Parent PLUS loans are included, the average cumulative education debt is \$27,803. Of those who applied for federal student aid, nearly seven-eighths graduated with student loans and a cumulative student loan debt of \$24,651.
- Nearly half of Associate's degree recipients graduated with student loans in 2007-08, with an average of \$13,289 in cumulative debt. The cumulative debt at graduation is increasing by \$701 (6.7%) per year. Of those who applied for federal student aid, two-thirds graduated with student loans and a cumulative student loan debt of \$14,350.
- 86.8% of Bachelor's degree recipients who applied for federal student aid with a family adjusted gross income less than \$25,000 graduated with student loans and an average of \$24,951 in cumulative education debt in 2007-08.
- More Pell Grant recipients graduate with student loans than non-recipients, and their cumulative debt is higher. Closing the debt gap among those who apply for financial aid would require increasing the maximum Pell Grant by \$330 to \$5,680 in 2009-10.
- Eliminating all debt at graduation among Pell Grant recipients at all 4-year colleges would require doubling the maximum Pell Grant to \$11,700 in 2009-10.
- Three-fifths of Bachelor's degree recipients at 4-year public colleges, nearly three-quarters of Bachelor's degree recipients at 4-year nonprofit colleges and virtually all Bachelor's degree recipients at 4-year for-profit colleges graduate with student loans, with cumulative debt of about \$20,000, \$27,500 and \$33,000, respectively.
- Almost two-fifths of Associate's degree recipients at 2-year public colleges, two thirds of Associate's degree recipients at 2-year nonprofit colleges and virtually all Associate's degree recipients at 2-year for-profit colleges graduate with student loans, with cumulative debt of about \$10,000, \$15,000 and \$20,000, respectively.

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¹ This update adds tables for cumulative debt at graduation for students who applied for federal student aid. It also adds a Masters of Education or Teaching row to two tables.

- The percentage of Bachelor's degree recipients graduating with student loans and the cumulative debt increases with increasing cost of attendance.
- About a quarter of undergraduate students and about a third of graduate and professional students (and about half of law and medical school students) graduate with both federal and non-federal education loans. More than a sixth of undergraduate students at public colleges, more than a third of undergraduate students at nonprofit colleges and more than half of undergraduate students at proprietary colleges graduate with both federal and private student loans. Among students graduating with both types of debt, the split is roughly 60% federal and 40% non-federal except for doctoral degree recipients where the split is 50/50 and professional degree recipients where the split is roughly 40/60.
- Debt is unavoidable for students pursuing degrees in law, medicine or business who need to apply for federal student aid, with almost all graduating with debt.
- Bachelor's degree recipients who graduate with no debt are 1.7 times more likely to enroll in graduate and professional school than Bachelor's degree recipients who graduate with some debt.
- Recommendation: Establish a \$2,500 challenge grant for zero-EFC Pell Grant recipients provided that the recipient's college agrees to replace all loans with grants in the financial aid packages of challenge grant recipients.

METHODOLOGY

The analysis was performed using the data analysis systems for the 2003-04 and 2007-08 National Postsecondary Student Aid Study (NPSAS). The NPSAS is a large survey conducted every four years by the National Center for Education Statistics at the US Department of Education. The 2003-04 NPSAS surveyed 80,000 undergraduate students and 11,000 graduate and professional students and the 2007-08 NPSAS surveyed 114,000 undergraduate students and 14,000 graduate and professional students.

CUMULATIVE DEBT AT GRADUATION

About two-thirds of Bachelor's degree recipients and nearly half of Associate's degree recipients graduated with education debt in 2007-08. The average cumulative debt at graduation was more than \$23,000 and \$13,000, respectively, and is increasing faster than the consumer price index. Of students who applied for federal student aid, nearly seven-eighths of Bachelor's degree recipients and two-thirds of Associate's degree recipients graduated with education debt.

65.6% of Bachelor's degree recipients at 4-year colleges graduated with student loans in 2007-08, up from 64.5% in 2003-04. The average cumulative debt² among these students was \$23,186 in 2007-08, up from \$18,630 in 2003-04. This represents an annual increase in education debt of \$1,139 (5.6%). Cumulative debt for Bachelor's degree recipients increased at an annual rate of \$805 (4.5%) at 4-year public colleges, from \$16,874 in 2003-04 to \$20,092 in 2007-08, and at an annual rate of \$1,565 (6.7%) at 4-year private non-profit colleges, from \$21,281 in 2003-04 to \$27,542 in 2007-08. The median cumulative debt in 2007-08 was \$19,999, with the 75th

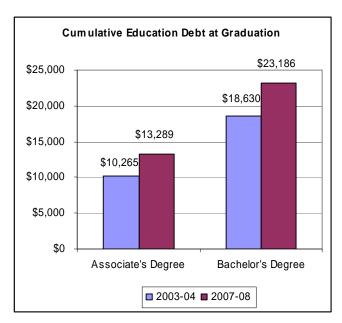
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² Except where noted, the term "cumulative education debt" excludes the Parent PLUS loan but includes Stafford, Perkins, state, college and private student loans. It is based on the BORAMT1 NPSAS variable.

percentile at \$30,526 and the 90th percentile at \$44,668. If Parent PLUS loans are included in the total, overall 66.0% of Bachelor's degree recipients at 4-year colleges graduated with debt and

the cumulative debt at graduation was \$27,803. (Roughly 2 out of 15 parents (13.5%) borrowed from the Parent PLUS loan program, with an average cumulative PLUS loan debt of \$23,298.)

47.1% of Associate's degree recipients at 2-year colleges graduated with student loans in 2007-08, up from 36.4% in 2003-04. The average cumulative debt among these students was \$13,289 in 2007-08, up from \$10,265 in 2003-04. This represents an annual increase in cumulative education debt of \$756 (6.7%). The median cumulative debt in 2007-08 was \$8,988, with the 75th percentile at \$17,333 and the 90th percentile at \$26,613.

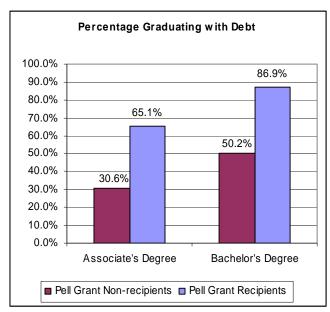


A much greater percentage of students who applied for federal student aid graduated with education debt. 86.3% of Bachelor's degree recipients who applied for federal student aid graduated with an average of \$24,651 in cumulative education debt in 2007-08, compared with 86.2% and \$19,521 in 2003-04. This represents an annual increase in education debt of \$1,282 (6.0%). 65.4% of Associate's degree recipients who applied for federal student aid graduated with an average of \$14,350 in cumulative education debt in 2007-08, compared with 54.3% and \$10,436 in 2003-04. This represents an annual increase in education debt of \$979 (8.3%).

PELL GRANT RECIPIENTS GRADUATE WITH MORE EDUCATION DEBT

Pell Grant recipients are forced to borrow more for their education than non-recipients even though low income students have a greater aversion to debt. Moderate and upper income families

don't like debt, but it doesn't prevent them from enrolling in college. Among low income families, however, the prospect of debt can have a chilling effect on enrollment. Low income students may intellectually appreciate that a college education leads to higherpaying employment and that they'll be able to repay the debt, but on an emotional level they fear debt. Low income families often have very little experience with debt, and when they do have some experience with debt, it is usually negative. The current student aid system does not adequately improve access to higher education by low

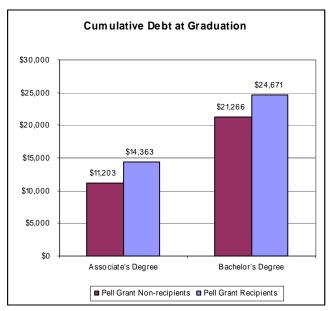


income students because it provides insufficient need-based grant aid. As a result, low income students are burdened with more education debt than moderate and upper income students.

Among Bachelor's degree recipients, 86.9% of those who received at least one Pell Grant during their undergraduate education graduated with an average cumulative student loan debt of \$24,671 in 2007-08, compared with 50.2% and \$21,266 for graduating seniors who never

received a Pell Grant.³ Pell Grant recipients were 73% more likely to graduate with debt, and the average debt was \$3,405 higher. Statistics in 2003-04 were similar, with 88.0% of Pell Grant recipients graduating with an average of \$19,750 in cumulative education debt. They were 80% more likely to graduate with debt and accumulated \$2,473 more debt than students who never received a Pell Grant, for whom 48.8% graduated with an average of \$17,277 in cumulative education debt.

Among Associate's degree recipients, 65.1% of those who received a Pell Grant during their education graduated with an average cumulative debt of \$14,363 in



2007-08, compared with 30.6% and \$11,203 for graduating students who never received a Pell Grant. Pell grant recipients were more than twice as likely (113%) to graduate with debt, and the average debt was \$3,159 higher.

The disparity between Pell Grant recipients and non-recipients is more muted when the analysis is limited to students who applied for federal student aid. 88.7% of Bachelor's degree recipients who applied for federal student aid and received a Pell Grant during their undergraduate education graduated with student loans and an average of \$25,262 in cumulative student loan debt in 2007-08, compared with 82.9% and \$23,730 among non-recipients. Among students who applied for federal student aid, Pell Grant recipients were 7% more likely to graduate with debt and the average cumulative debt was \$1,532 higher.

Similar results occur with Associate's degree recipients who applied for federal student aid and received a Pell Grant during their education, with 67.5% graduating with student loans and an average of \$14,848 in cumulative education debt in 2007-08, compared with 60.1% and \$12,975 among non-recipients. Pell grant recipients were 12% more likely to graduate with debt and the average cumulative debt was \$1,873 higher.

It is unclear whether Pell Grant recipients have a greater cumulative debt at graduation because the Pell Grant is facilitating choice in addition to access. As the following table demonstrates, the average cost of attendance was lower for Pell Grant recipients than non-recipients among first year undergraduate students who applied for federal student aid in 2007-08. However, the

³ Among Bachelor's degree recipients with a zero expected family contribution (EFC) in their graduation year, 86.0% graduated with student loans and an average cumulative student loan debt of \$24,466. Zero EFC students have exceptional financial need yet are graduating with roughly the same debt as other Pell Grant recipients.

average cost of attendance was higher for Pell Grant recipients pursuing a certificate or Associate's degree or attending a 2-year or less than 2-year institution. Most of the difference, though, was due to a higher cost of attendance for Pell Grant recipients at public 2-year and forprofit less than 2-year institutions. Pell Grant recipients are also less likely to pursue a Bachelor's degree than non-recipients. This suggests that Pell Grant recipients are generally not trading up to a more expensive institution. However, it is also possible that non-recipients are using their greater financial strength, institutional merit aid and/or other resources to facilitate choice to a greater extent than recipients. When AGI is limited to \$50,000 or less, Pell Grant recipients have a higher average cost of attendance than non-recipients overall, mainly because the average cost of attendance for non-recipients drops from \$15,023 to \$11,004 while the average cost of attendance for Pell Grant recipients decreases only slightly from \$14,108 to \$14,029.

2007-08	Pell Grant Recipients		Pell Grant No	n-recipients
	Average Cost of		Average Cost of	
Program	Attendance	Distribution	Attendance	Distribution
Certificate	\$15,304	19.1%	\$13,730	9.5%
Associate's Degree	\$11,274	54.0%	\$9,308	49.4%
Bachelor's Degree	\$19,040	26.8%	\$22,377	41.2%
Overall	\$14,108		\$15,023	_
4-Year	\$18,999	37.0%	\$22,064	45.4%
2-Year	\$10,226	51.9%	\$8,537	50.8%
< 2-Year	\$16,012	11.2%	\$15,793	3.9%
Public	\$10,301	58.8%	\$10,487	71.5%
Public 4-Year	\$14,895	16.5%	\$16,148	24.5%
Public 2-Year	\$8,428	41.2%	\$7,447	46.5%
Public < 2-Year	\$11,958	1.1%	\$12,141	0.5%
Nonprofit	\$24,193	8.4%	\$31,410	14.3%
Nonprofit 4-Year	\$25,621	7.5%	\$32,120	13.6%
Nonprofit 2-Year	\$12,838	0.5%	\$16,272	0.5%
Nonprofit < 2-Year	\$13,967	0.4%	\$18,655	0.2%
For-profit	\$18,186	32.9%	\$20,487	14.3%
For-profit 4-Year	\$20,304	13.0%	\$22,719	7.3%
For-profit 2-Year	\$17,187	10.2%	\$19,873	3.8%
For-profit < 2-Year	\$16,560	9.7%	\$16,193	3.2%

The strongest predictors of a Pell Grant recipient graduating with no debt include attendance at a public college, attendance at a low-cost college and pursuit of an Associate's degree or certificate. Roughly one in five (22%) students who received a Pell Grant during their undergraduate education graduated from college without debt in 2007-08. Of these students, 86.2% attend public colleges, with 60.0% attending public 2-year institutions and 23.5% attending public 4-year institutions. That compares with 55.1% of those graduating with debt attending public colleges. Nearly three-quarters (72.3%) received either an Associate's degree or a certificate, compared with almost half (48.1%) among those who graduated with debt. The average cost of attendance was \$10,323, with more than half (56.7%) attending colleges with a cost of attendance of \$10,000 or less and four fifths (80.3%) attending colleges with a cost of attendance of \$15,000 or less. The average net cost of attendance after subtracting all aid was \$6,887 (\$7,215 after subtracting just grants). Since the average family AGI was \$27,609, the net cost represented about a quarter (24.9%) of family income. (More than three-fifths (60.7%) had

family AGI under \$25,000 and 87.1% had family AGI under \$50,000, similar to the distribution for the students who graduated with some debt.) Curiously, one third (33.3%) were male and two thirds (66.7%) were female. A quarter (25.2%) of Pell Grant recipients graduating with no debt had institutional grants, greater than the percentage (15.5%) of non-recipients graduating with no debt, but the average grant was lower at \$2,698 vs. \$4,615. More than a quarter (26.6%) of recipients had state grants, averaging \$2,073, compared with about a quarter (7.9%) of non-recipients, averaging \$2,564. Pell Grant recipients who graduated with no education debt were more likely to be independent than non-recipients (64.6% vs. 44.7%), with 36.6% of recipients independent with dependents other than a spouse compared with 20.6% of non-recipients. Pell Grant recipients with no education debt were more likely to have Federal Work Study (FWS) than non-recipients, 6.4% vs. 2.9%, but the average awards were less at \$2,512 vs. \$3,527.

Closing the debt gap between Pell Grant recipients and non-recipients who apply for federal student aid would require increasing the maximum Pell Grant by \$330 to \$5,680 in 2009-10. While this would equalize the amount of debt at graduation, it still would not address the chilling effect that the prospect of education debt has on enrollment by low income students. For example, 86.8% of Bachelor's degree recipients who applied for federal student aid and who have family AGI less than \$25,000 graduated with an average of \$24,951 in cumulative education debt in 2007-08. In other words, the current federal student aid system expects low income students with exceptional financial need to assume more cumulative education debt for their education than their parents earn in a year.

The following table illustrates the percentage of graduating Pell Grant recipients at 4-year institutions who graduate at each class level, as well as the cumulative debt. The weighted average of the debt divided by the number of years in school is \$6,529, yielding a reasonable estimate of the increase in the maximum Pell Grant necessary to eliminate debt from the financial aid packages of low income students. That would yield a maximum Pell Grant of \$10,839 in 2007-08. If we assume that the average Pell Grant increases by 3% each year and adjust accordingly, then the maximum Pell Grant would have to have been \$6,800 higher in 2007-08 to eliminate debt at graduation, yielding a maximum Pell Grant of \$11,110 in 2007-08. That suggests that the maximum Pell Grant would have to be around \$11,700 in 2009-10 to eliminate debt from the financial aid packages of low income students, 2.2 times higher than the current maximum Pell Grant of \$5,350.

2007-08 Class Level (All 4-Year Colleges)	Percent of Graduates	Cumulative Debt at Graduation
1st Year Undergraduate	2.0%	\$15,952
2nd Year Undergraduate	2.8%	\$16,347
3rd Year Undergraduate	12.6%	\$24,053
4th Year Undergraduate	66.6%	\$24,242
5th Year Undergraduate	15.9%	\$29,408

The following table illustrates a similar result, but restricted to 4-year public colleges. The weighted average of the debt per number of years in school is \$5,646. Adjusted for an annual

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⁴ Because the cumulative debt figures are averages, some Pell Grant recipients would still graduate with debt. But increasing the maximum Pell Grant as indicated would make it possible for all Pell Grant recipients to graduate without debt, and this message would have a big impact on college enrollment by low income students.

increase in the average Pell Grant of 3% per year would yield \$5,889 instead, yielding a maximum Pell Grant of \$10,199 in 2007-08. The corresponding figure for 2009-10 would be around \$10,600, almost twice the actual maximum Pell Grant.

2007-08 Class Level (4-Year Public Colleges)	Percent of Graduates	Cumulative Debt at Graduation
1st Year Undergraduate	1.7%	\$10,996
2nd Year Undergraduate	2.3%	\$15,200
3rd Year Undergraduate	10.4%	\$19,433
4th Year Undergraduate	69.2%	\$21,374
5th Year Undergraduate	16.4%	\$27,847

Increasing the maximum Pell Grant by \$5,000 would cost approximately \$35 billion a year, and Congress lacks the political will to pursue such a change. But there are a variety of less expensive approaches that would still increase Bachelor's degree attainment by a subset of Pell Grant recipients, namely the zero-EFC students.

- The current need analysis methodology does not allow the EFC to go negative, setting the EFC to zero. In 2008 Senator Kennedy proposed allowing the EFC to go negative and increasing the amount of the Pell Grant by the absolute value of the negative EFC, capped at \$750. About two-fifths of Pell Grant recipients have a zero EFC, so this could cost up to \$5 billion a year. Allowing the EFC to go negative would help differentiate among students with exceptional financial need.
- Congress could establish a supplemental annual \$2,500 grant for zero-EFC Pell Grant recipients (call it a Simon Grant) which would be contingent on the college agreeing to replace all loans with grants in the financial aid packages of students who received this grant. This would challenge colleges to increase need-based grant aid to students with exceptional financial need. The availability of the Simon Grant would encourage zero-EFC students to enroll at colleges that adopted no loans policies, putting pressure on colleges with less generous financial aid policies. It would also encourage colleges with no loans policies to increase the number of Pell Grant recipients they enroll. This is similar to the idea of providing colleges with a graduation bounty for Pell Grant recipients, ⁵ but would provide an intermediate benefit for improvements in the retention of Pell Grant recipients, would focus aid on the neediest of the needy, and would stimulate increases in institutional need-based grants. Depending on the number of colleges that adopted such no loans policies, this would cost \$1.8 billion to \$7.0 billion per year.

CUMULATIVE DEBT BY INSTITUTIONAL CHARACTERISTICS

The following table shows the percentage of Bachelor's degree recipients graduating with debt at undergraduate 4-year institutions and the average cumulative debt at graduation among these borrowers by control of institution in 2003-04 and 2007-08. It demonstrates that the percentage

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⁵ See Robert Shireman, *What Would Higher Education Do With \$6 Billion a Year?*, Chronicle of Higher Education 50(41):B17, June 18, 2004. http://chronicle.com/weekly/v50/i41/41b01701.htm

borrowing and the cumulative debt at graduation is higher at for-profit colleges than at non-profit colleges, and likewise higher at non-profit colleges than at public colleges.

Bachelor's Degree and 4-Year by Control of Institution	Percentage Graduating with Debt 2007-08	Cumulative Debt at Graduation 2007-08	Percentage Graduating with Debt 2003-04	Cumulative Debt at Graduation 2003-04	Annual Increase
Overall	65.6%	\$23,186	64.5%	\$18,630	\$1,139 (5.6%)
Public	61.7%	\$20,092	61.0%	\$16,874	\$805 (4.5%)
Private Not-for-Profit	70.5%	\$27,542	70.8%	\$21,281	\$1,565 (6.7%)
Private For-Profit	96.1%	\$32,906	83.8%	\$26,849	\$1,514 (5.2%)

The following table shows the percentage of Associate's degree recipients graduating with debt at undergraduate 2-year institutions and the average cumulative debt at graduation among these borrowers by control of institution in 2003-04 and 2007-08. The percentage borrowing and the cumulative debt at graduation, as well as the increase in cumulative education debt, is higher at for-profit colleges than at non-profit colleges, and likewise higher at non-profit colleges than at public colleges.

Associate's Degree and 2-Year by Control of Institution	Percentage Graduating with Debt 2007-08	Cumulative Debt at Graduation 2007-08	Percentage Graduating with Debt 2003-04	Cumulative Debt at Graduation 2003-04	Annual Increase
Overall	43.4%	\$12,206	33.5%	\$9,404	\$701 (6.7%)
Public	38.2%	\$10,329	30.2%	\$8,662	\$417 (4.5%)
Private Not-for-Profit	67.8%	\$15,035	61.9%	\$11,459	\$894 (7.0%)
Private For-Profit	98.2%	\$20,188	91.2%	\$13,799	\$1,597 (10.0%)

The following table illustrates a strong correlation between an institution's cost of attendance and cumulative debt at graduation for Bachelor's degree recipients.

2007-08 Cost of Attendance	Percentage Graduating with Debt	Cumulative Debt at Graduation
≤ \$10,000	56.8%	\$19,494
\$10,000 to \$20,000	65.8%	\$21,010
\$20,000 to \$30,000	69.5%	\$24,624
> \$30,000	70.8%	\$30,446

The following table shows the percentage of graduating undergraduate students who graduated with debt and the average cumulative debt at graduation according to level and control of institution. Compared with 2003-04, there was significant growth in the cumulative debt at private for-profit colleges, mostly due to the growth in cumulative debt at 2-year private for-profit colleges. There was also significant growth in both the percentage borrowing and

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public 4-year institutions.

⁶ This table focuses on level and control of institution, not degree received. The previous tables focus on degree received. The overall total for private for-profit colleges is lower because of a greater mix of 2-year institutions in the overall total. The overall total for 4-year private for-profit institutions is lower than for Bachelor's degree recipients because for-profit 4-year institutions are more likely to also award Associate's degrees than non-profit and

cumulative debt at private non-profit less-than-2-year institutions, bringing the cumulative debt into the same ballpark as for public and proprietary institutions.

2007-08 (All Students)	-	raduate ion Debt
Institution Level & Control	Percent Borrowing	Cumulative Debt
Overall Total (4, 2 and < 2 year)	58.8%	\$18,625
Public	49.4%	\$16,369
Private Non-Profit	69.7%	\$26,683
Private For-Profit	93.1%	\$17,162
4-year Total	66.5%	\$22,656
4-year Public	61.1%	\$19,839
4-year Private Non-Profit	70.6%	\$27,349
4-year Private For-Profit	97.0%	\$24,635
2-year Total	44.8%	\$12,307
2-year Public	37.2%	\$10,444
2-year Private Non-Profit	64.0%	\$14,790
2-year Private For-Profit	97.6%	\$17,310
Less than 2-year Total	74.7%	\$10,172
Less than 2-year Public	36.1%	\$10,321
Less than 2-year Private Non-Profit	45.0%	\$10,990
Less than 2-year Private For-Profit	86.0%	\$10,123

The following table shows the same data but restricted to students who submitted the FAFSA.

2007-08 (Submitted FAFSA)	-	raduate ion Debt
Institution Level & Control	Percent Borrowing	Cumulative Debt
Overall Total (4, 2 and < 2 year)	79.0%	\$19,891
Public	70.2%	\$17,868
Private Non-Profit	87.4%	\$27,684
Private For-Profit	96.2%	\$17,436
4-year Total	86.9%	\$24,012
4-year Public	83.3%	\$21,289
4-year Private Non-Profit	89.1%	\$28,420
4-year Private For-Profit	98.9%	\$24,702
2-year Total	63.7%	\$13,236
2-year Public	53.2%	\$10,889
2-year Private Non-Profit	71.7%	\$15,175
2-year Private For-Profit	98.3%	\$17,362
Less than 2-year Total	84.5%	\$10,201
Less than 2-year Public	51.0%	\$9,898
Less than 2-year Private Non-Profit	53.2%	\$9,999
Less than 2-year Private For-Profit	91.5%	\$10,233

CUMULATIVE DEBT BY BORROWER CHARACTERISTICS

The following table shows the percentage of Bachelor's degree recipients at 4-year undergraduate institutions who graduated with debt and the average cumulative debt at graduation according to race. These trends persist even when controlled for differences in adjusted gross income or Pell Grant recipient status, although the percentage graduating with debt increases in all races for lower-income students and Pell Grant recipients.

2007-08 Race	Percentage Graduating with Debt	Cumulative Debt at Graduation
White	64.1%	\$23,440
Black or African American	81.2%	\$25,634
Hispanic or Latino	66.4%	\$20,806
Asian	54.4%	\$19,235
American Indian or Alaska Native	79.6%	\$25,763
Native Hawaiian or Pacific Islander	67.5%	\$21,284
Other	87.2%	\$26,157
More than one race	70.4%	\$23,618

The following table shows the percentage of Bachelor's degree recipients at 4-year undergraduate institutions who graduated with debt and the average cumulative debt at graduation according to gender. Women are somewhat more likely to graduate with debt and to have higher cumulative debt at graduation.

2007-08		Percentage Graduating	Cumulative Debt at	
	Gender	with Debt	Graduation	
Male		62.5%	\$22,431	
Female		67.9%	\$23,718	

The following table shows the percentage of Bachelor's degree recipients at 4-year undergraduate institutions who graduated with debt and the average cumulative debt at graduation according to various patterns of borrowing federal and private student loans during their undergraduate education.

2007-08 Borrowing Pattern During Undergraduate Education	Percentage of Student Population	Percentage Graduating with Debt	Cumulative Debt at Graduation
Did not borrow private	66.8%	48.5%	\$17,579
Borrowed private	33.2%	100.0%	\$28,661
Did not borrow federal	38.4%	10.4%	\$15,557
Borrowed federal	61.6%	100.0%	\$23,683
Borrowed both federal and private	29.2%	100.0%	\$30,460

Overall, 61.6% of Bachelor's degree recipients at 4-year undergraduate institutions graduated with federal education debt and the cumulative federal education debt was \$17,878. 33.2% graduated with private student loan debt and the average cumulative private student loan debt was \$12,649. This compares with the 65.6% and \$23,186 figures for total education debt.

PERCENTAGE GRADUATING WITH BOTH FEDERAL AND PRIVATE LOANS

About a quarter of undergraduate students and about a third of graduate and professional students (and about half of law and medical school students) have both federal and private⁷ (non-federal) student loans when they graduate.⁸ More than a sixth of undergraduate students at public colleges, more than a third of undergraduate students at nonprofit colleges and more than half of undergraduate students at proprietary colleges graduate with both federal and private student loans. Since federal and private student loans cannot be consolidated together, this means that these students will have at least two monthly loan payments. The following tables illustrate the percentage of students graduating with both federal and private student loans according to various characteristics.

Percentage of Undergraduate Students Graduating with both Federal and Private Student Loans			
Undergraduate Student Characteristics at Graduation, 2007-08 NPSAS	Percentage with both Federal and Private Loans		
Overall	24.9%		
Degree: Certificate	28.3%		
Degree: Associate's	17.2%		
Degree: Bachelor's	28.9%		
Level: 4-year	30.4%		
Level: 2-year	15.4%		
Level: Less than 2-year	32.9%		
Control: Public	16.6%		
Control: Private Not-for-Profit	36.8%		
Control: Private For-Profit	52.3%		
Sector: Public 4-year	23.2%		
Sector: Public 2-year	9.7%		
Sector: Public Less than 2-year	8.6%		
Sector: Nonprofit 4-year	37.6%		
Sector: Nonprofit 2-year	26.8%		
Sector: Nonprofit Less than 2-year	20.0%		
Sector: For-profit 4-year	64.2%		
Sector: For-profit 2-year	55.7%		
Sector: For-profit Less than 2-year	39.6%		

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⁷ In this section the term "private student loan" refers to non-federal education loans, including loans from college, state government and non-profit lenders in addition to alternative loans from for-profit lenders. The 2007-08 NPSAS doesn't include a variable for cumulative private student loan debt, but does include the NFEDCUM1 variable corresponding to cumulative non-federal education loan debt.

⁸ This analysis predates the increases in the unsubsidized Stafford loan for undergraduate students as enacted by the Ensuring Continued Access to Student Loans Act of 2008 (ECASLA). These increases will likely shift borrowing from private and other non-federal loans to federal loans and may reduce the percentage of students graduating with both federal and private student loans.

Percentage of Graduate Students Graduating with both Federal and Private Student Loans			
Graduate Student Characteristics at Graduation, 2007-08 NPSAS	Percentage with both Federal and Private Loans (Graduate Only)	Percentage with both Federal and Private Loans (Graduate + Undergraduate)	
Overall	17.8%	32.2%	
Master's Degree	15.3%	30.6%	
Doctoral Degree	14.6%	26.3%	
Professional Degree	43.7%	52.0%	
Master of Science (MS)	11.5%	24.3%	
Master of Arts (MA)	18.9%	34.7%	
Master of Business Administration (MBA)	16.9%	30.1%	
Master of Social Work (MSW)	31.0%	47.5%	
PhD	9.3%	20.7%	
Law (LLB or JD)	50.0%	55.5%	
Medicine or Osteopathic Medicine	36.5%	46.6%	

Of the undergraduate students graduating with both federal and non-federal loans, about three-fifths (60.3%) of the debt is federal and two-fifths (39.7%) is non-federal. A similar split occurs regardless of degree or level and control of institution. The range is from 53.3% federal at nonprofit 4-year colleges to 66.5% federal at private for-profit 4-year colleges.

The split for graduate and professional students who graduate with both types of debt is 54.0% federal and 46.0% non-federal. Master's degree recipients who graduate with both federal and non-federal debt have 55.7% federal and 44.3% non-federal. (A major exception is MBA recipients which 60.0% of the debt at graduation is federal and 40.0% is non-federal.) Doctoral degree recipients who graduate with both types of debt have a nearly even split with 50.8% federal and 49.2% non-federal. With professional degree programs the split is 44.3% federal and 55.7% non-federal. Professional degree recipients may tilt more toward private student loans because there is no federal equivalent of bar study and residency loans.

CUMULATIVE DEBT FOR GRADUATE AND PROFESSIONAL STUDENTS

The following table shows the percentage of graduating students at graduate and professional institutions who graduated with debt and the average cumulative debt at graduation according to degree program.

2007-08 (All Students)		ion Debt ate Only)		ation Debt Indergrad)
Graduate & Professional Degree Programs	Percent Borrowing	Cumulative Debt	Percent Borrowing	Cumulative Debt
Total	56.4%	\$40,297	69.6%	\$47,503
Master's Degree	55.2%	\$31,031	69.4%	\$40,208
Doctoral Degree	45.8%	\$57,860	56.3%	\$58,967
Professional Degree	86.2%	\$87,308	87.9%	\$98,711
Master of Business Administration (MBA)	55.5%	\$31,927	68.9%	\$41,676
Master of Social Work (MSW)	72.3%	\$35,516	77.7%	\$49,017
Master of Science (MS)	49.8%	\$30,684	63.5%	\$40,362
Master of Arts (MA)	60.8%	\$29,975	73.7%	\$40,500
Master of Education or Teaching	55.9%	\$26,487	74.5%	\$35,946
PhD	35.4%	\$44,995	48.0%	\$45,455
EdD	65.1%	\$43,812	73.3%	\$44,880
Law (LLB or JD)	88.6%	\$80,081	88.6%	\$92,937
Medicine or Osteopathic Medicine	81.9%	\$119,424	83.2%	\$127,272
Pharmacy (PharmD)	82.2%	\$63,412	85.0%	\$81,838

The following table shows the percentage of graduating students at graduate and professional institutions who applied for federal student aid and graduated with debt and the average cumulative debt at graduation according to degree program. This demonstrates that graduating with debt is unavoidable for students pursuing degrees in law, medicine or business who need to apply for federal student aid.

2007-08 (Submitted FAFSA)		ion Debt ate Only)		ation Debt Indergrad)
Graduate & Professional Degree Programs	Percent Borrowing	Cumulative Debt	Percent Borrowing	Cumulative Debt
Total	94.3%	\$46,865	96.9%	\$62,285
Master's Degree	94.5%	\$34,741	97.7%	\$51,223
Doctoral Degree	82.8%	\$73,885	85.0%	\$85,366
Professional Degree	99.4%	\$92,575	99.9%	\$105,705
Master of Business Administration (MBA)	98.2%	\$34,691	98.9%	\$53,779
Master of Social Work (MSW)	91.9%	\$36,924	91.9%	\$54,020
Master of Science (MS)	95.2%	\$34,824	98.3%	\$52,102
Master of Arts (MA)	94.0%	\$34,357	97.4%	\$50,102
Master of Education or Teaching	92.6%	\$31,540	96.8%	\$49,286
PhD	67.5%	\$58,353	72.0%	\$69,754
EdD	94.5%	\$51,695	94.5%	\$61,121
Law (LLB or JD)	99.9%	\$82,601	99.9%	\$95,914
Medicine or Osteopathic Medicine	100.0%	\$126,152	100.0%	\$136,474
Pharmacy (PharmD)	100.0%	\$66,319	100.0%	\$88,648

The adjusted gross income (AGI) among graduate and professional students who applied for federal student aid was lower among those who applied for federal student aid than among those who did not, with medians of \$26,219 and \$41,422 and averages of \$35,384 and \$49,779, respectively. This suggests that students who have greater financial strength are less likely to apply for federal student aid or to borrow to pay for their graduate and professional education.

The following tables show the percentile distribution of cumulative debt for graduating students at graduate and professional institutions among students graduating with debt. The first table shows just debt incurred during graduate school while the second table also includes undergraduate debt. As a general rule, debt levels at the 90th percentile should be considered excessive unless there is a strong financial justification, such as pursuing a degree in a specialty which is likely to yield a debt to income ratio of 1.0 or less.

	Cumulative Debt at Graduation (Graduate Only)		
Graduate & Professional Degree Programs, 2007-08	Median	75th Percentile	90th Percentile
Total	\$29,576	\$53,415	\$82,044
Master's Degree	\$25,000	\$42,898	\$59,869
Doctoral Degree	\$52,000	\$75,712	\$123,650
Professional Degree	\$79,836	\$118,500	\$159,750
Master of Business Administration (MBA)	\$24,516	\$42,000	\$66,707
Master of Social Work (MSW)	\$30,639	\$45,658	\$57,500
Master of Science (MS)	\$24,698	\$49,000	\$58,000
Master of Arts (MA)	\$24,670	\$39,594	\$58,907
Masters of Education or Teaching	\$21,276	\$37,484	\$50,000
PhD	\$34,410	\$62,000	\$96,000
EdD	\$40,000	\$65,906	\$80,416
Law (LLB or JD)	\$77,190	\$107,005	\$135,000
Medicine or Osteopathic Medicine	\$128,643	\$173,797	\$197,175
Pharmacy (PharmD)	\$58,000	\$100,000	\$110,000

Cumulative	Debt at Graduation
(Graduate	+ Undergraduate)

Graduate & Professional Degree Programs, 2007-08	Median	75th Percentile	90th Percentile
Total	\$38,500	\$65,732	\$96,887
Master's Degree	\$35,427	\$56,500	\$78,088
Doctoral Degree	\$46,789	\$79,932	\$130,000
Professional Degree	\$88,984	\$136,436	\$180,000
Master of Business Administration (MBA)	\$36,634	\$58,750	\$78,006
Master of Social Work (MSW)	\$49,457	\$62,072	\$86,444
Master of Science (MS)	\$35,538	\$59,157	\$78,088
Master of Arts (MA)	\$35,938	\$54,053	\$87,295
Masters of Education or Teaching	\$28,472	\$49,987	\$75,631
PhD	\$33,457	\$71,028	\$95,500
EdD	\$39,615	\$66,959	\$82,893
Law (LLB or JD)	\$85,000	\$127,750	\$160,500
Medicine or Osteopathic Medicine	\$128,774	\$179,000	\$216,270
Pharmacy (PharmD)	\$69,250	\$112,715	\$140,000

IMPACT OF EDUCATION DEBT ON FURTHER EDUCATION

Undergraduate debt has a significant impact on further education plans. 47.5% of undergraduate Bachelor's degree recipients who graduate with debt go to graduate school, compared with 81.1% of undergraduate Bachelor's degree recipients who graduated with no debt. Overall 59.2% of undergraduate Bachelor's degree recipients go to graduate school, including Master's, doctoral and professional degree programs. Thus Bachelor's degree recipients who graduate with no debt are 1.7 times (70.6%) more likely to go to graduate and professional school that Bachelor's degree recipients who graduate with some debt.

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⁹ These percentages are calculated by comparing the number of undergraduate Bachelor's degree recipients graduating with and without debt in 2007-08 with the number of first-year graduate students with and without undergraduate debt in 2007-08. These figures are not based on a longitudinal study and do not correspond to the same cohort of students.