

Trends in College Spending:

2001-2011

A Delta Data Update
July 2014



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Trends in College Spending: 2001–2011

This *Trends in College Spending* update presents national-level estimates for the Delta Cost Project data metrics during the period 2001–11. The figures and tables in this report replicate the revenue, spending, subsidy, and outcome metrics presented in earlier Delta Cost Project *Trends in College Spending* reports and recent Delta Cost Project data updates (see http://www.deltacostproject.org/product-types/trends-and-data-updates). To accelerate the release of more current trend data, however, this update includes only a brief summary of the financial patterns and trends observed during the decade 2001–11, with greatest attention given to recent changes between fiscal year (FY) 2010 and FY 2011.

Summary of Findings

Four years after the Great Recession began, higher education appeared to have weathered the worst of the financial storm. By 2011, the free-fall in state funding per student had eased at public colleges and universities, and average revenues per student were steady or increasing at both public and private four-year institutions.

Spending declines had also more or less stabilized. Yet public and private research universities still showed cutbacks in education-related spending during 2011, despite posting larger revenue increases than other types of institutions. Institutional support spending was reigned in as four-year institutions continued to invest in noninstructional student services—although sometimes at the expense of instructional spending. Community colleges continued to show the greatest financial strain across higher education (even amid slower enrollment growth), with declines in revenue per student accompanied by widespread spending cuts.

As in years past, students paid an ever-larger share of the costs institutions incur to provide a college education—particularly students enrolled at public colleges and universities—as cuts in institutional subsidies persisted across most types of institutions. However, degree productivity¹ began to rise again at public institutions in 2011, accompanied by progress in lowering overall production costs per degree. Private institutions were less successful in boosting degree productivity and controlling costs per degree in 2011 but made longer-term gains in degree productivity, if not costs, over the decade.

¹ Degree productivity is measured as a change in the number of degrees awarded per FTE student in an academic year. Cost per degree measures total institutional spending on education and related activities per degree awarded; it does not reflect the cost incurred by students to finance a college education.

Revenue: Where Does the Money Come From?

Per-student revenues increased at research universities and private colleges in 2011; funding levels were unchanged at broadly accessible public four-year colleges but declined at public community colleges.

- Revenues per full-time equivalent (FTE) student increased an average of 1 percent to 4 percent in inflation-adjusted dollars at public research universities and private institutions in 2011.²
 Although community colleges suffered a 2 percent decline, this represented the smallest contraction in three years (see Figure 1 and Figure S1).
- Rising revenues at public research universities and private colleges were boosted by private gifts, investment returns, and endowment income and auxiliary services (residence halls, bookstores, meal services); public research universities also relied on increases in net tuition revenue more than private institutions. But in the rest of the public sector, declines in other revenue streams offset the rise in net tuition revenue.

Cuts in state and local appropriations per student eased considerably in 2011, accompanying smaller increases in net tuition revenue. Nevertheless, the damage from the recession was done: net tuition revenue nearly equaled or exceeded government funding at public four-year institutions in 2011.

- Among public colleges and universities, state and local funding per student decreased 2 percent to 4 percent in 2011—substantially lower than the 6 percent to 15 percent declines observed during the recession (see Figure 2 and Figure S1). However, state and local support reached a decadelong low in 2011, averaging about \$6,000 to \$8,000 per student at public four-year colleges and universities.
- Net tuition revenue also rose more slowly compared to the sharp increases observed in 2010; but at 4 percent to 6 percent, the increases were similar to those seen in 2009.

Trends in College Spending, 2001-2011: A Delta Data Update

² Changes exclude revenue from private gifts, investment returns, and endowment income, which tend to reflect volatility in the financial markets.

Spending: Where Does the Money Go?

Sharp declines in education and related (E&R)³ spending per student that were evident during the recession had ended by 2011; however, spending still declined at the most and least selective institutions (research universities and community colleges), which fared worse than other four-year colleges.

- E&R spending per student decreased by roughly 1 percent at public and private research universities and community colleges in 2011⁴, while increasing by less than 1 percent (or remaining unchanged) at nonresearch colleges (see Figure 4 and Figure S2).
- Despite financial difficulties during the 2008 recession and subsequent recovery, average E&R spending per student at four-year institutions was still higher in 2011 than it had been five and ten years earlier, reflecting spending between 2007 and 2009 levels. But for the second year in a row, community colleges posted the lowest spending levels in a decade (see Figure 4 and Figure S2).

Four-year institutions generally continued to invest in noninstructional student services while pulling back on institutional support; efforts to preserve instructional spending were mixed.

- Only public and private master's institutions and public bachelor's institutions boosted average instructional spending per student (by roughly 1 percent each); elsewhere per-student spending on instruction remained steady or declined (see Figure 5).
- The student services share of E&R spending continued to grow over the decade, particularly at private institutions (see Figure 6). Increases in the proportion of spending devoted to student services during this period were largely offset by declines in the share going toward "overhead" expenses; however, the share of spending going to instruction also declined at private institutions and public research universities.

³ E&R spending incorporates expenditures for the academic mission of higher education. It includes costs related to instruction and student services and a prorated portion of spending on institutional and academic support and operations and maintenance. E&R spending excludes direct and indirect costs associated with research and public service, as well as spending on auxiliaries (e.g., bookstores, dormitories), hospitals, and other independent operations. For a complete description of the different spending categories, see http://www.deltacostproject.org/sites/default/files/products/Trends2011 Final 090711.pdf

⁴ Broader measures of spending were unchanged, buoyed by spending on research and auxiliary services.

Spending, Subsidies, and Tuition: Why Are Prices Going Up?

Institutional subsidies⁵ continued to decline across public institutions in 2011, with average subsidies hitting a decade-long low across nearly all types of higher education institutions.

- Subsidies declined by 2 percent to 4 percent at public nonresearch institutions in 2011—a slowdown compared to 2010 when declines averaged 8 percent or more. Public research universities were hit hardest, suffering a second year of 8 percent declines.
- At private research universities, average subsidies declined for a second year (4 percent), continuing to erode a long trend of rising subsidies across most of the decade. Average subsidies at other types of private institutions changed modestly in 2011 but were close to their lowest levels in a decade.

Educational costs have increasingly shifted onto students, and for the first time in 2011, tuitions paid for at least one-half of E&R costs across all types of public and private four-year institutions.

- The student share of E&R spending increased across most types of institutions by an additional 1–2 percentage points in 2011; the largest increase was at public research institutions (4 percentage points).
- Research institutions experienced a second year of similarly large increases in the student share of
 costs; at other public institutions, the increase in 2011 was only half as large as the substantial
 jumps experienced the year before.

At public institutions, the student share of costs has increased by more than 50 percent in a decade.

- At public four-year institutions, students now pay between 50 percent and 60 percent of the cost of their education—an 18–22 percentage point increase over the decade. At community colleges the student share of costs also rose by 15 percentage points but covered only 38 percent of total educational costs. Increases in the student share of costs at public institutions grew between 54 percent and 62 percent, on average, over the decade.
- Private institutions had smaller increases in the student share of costs, averaging 8 percentage
 points or less over the decade (a 7 percent to 11 percent increase). But their students already pay a
 much larger share of the total educational costs (72 percent to 92 percent) compared to public
 institutions.

⁵ Institutional subsidies reflect the difference between what institutions spend to provide students with an education and the net tuition revenue institutions receive to pay for students' education. At public institutions, institutional subsidies typically come from state and local appropriations, while at private institutions these subsidies often come from private gifts, investment returns, or endowment income.

Spending and Results: What Does the Money Buy?

Degree productivity at public institutions was on the upswing once again in 2011; changes at private institutions were more modest, but degree productivity showed a decade-long improvement at research and master's institutions.

- After recent declines, all types of public institutions increased degree productivity in 2011 (measured by the number of degrees awarded relative to the number of FTE students), with public research and master's institutions reaching a decade-long high.
- Degree productivity declined slightly at private research universities in 2011, but rose steadily across most of the decade at both private research and master's institutions.

The average production cost per degree decreased at public institutions in 2011, but only community colleges showed sustained declines across the decade.

- Average spending per degree declined across all types of public institutions in 2011 but was still higher at public four-year institutions than during the middle of the previous decade. Public community colleges, however, had the lowest cost per degree/completion⁶ in 10 years.
- Private colleges and universities managed to contain average spending per degree in 2011. While spending at private research and bachelor's institutions reached its peak in 2009, moreover, private research universities still spent considerably more per degree in 2011 (16 percent) than a decade earlier.

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⁶ Completions include degrees and certificates.

About the Data

The 2001–10 data used in this report came from the official *IPEDS Analytics: Delta Cost Project Database 1987-2010*, which has been maintained by the U.S. Department of Education since January 2012. The 2011 data shown in the report were generated by the Delta Cost Project using the same procedures and formulas as those applied to prior year database updates, thus providing comparable estimates over time. The 2011 data, however, are not part of the official *IPEDS Analytics: Delta Cost Project Database*.

All data were drawn from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) surveys. Adjustments have been made to harmonize and standardize the data to the extent possible in order to account for changes in accounting standards and IPEDS reporting formats. These adjustments ensure reasonable consistency in the patterns over time and allow broad comparisons between public and private institutions. The financial data for each institution are standardized by fall FTE enrollments and further adjusted for inflation. National averages are derived for each sector from these FTE- and inflation-adjusted institutional data.

As is true of prior Delta Cost Project data updates, these data are not directly comparable with previously published estimates for several reasons. These data were generated using a panel of institutions to ensure that variations in spending across time are not explained by differences in the number of institutions reporting data. This panel is updated with each additional year of data added; more than 2,100 institutions are included in the 11-year matched set (2001–11) used in this report. In addition, inflation adjustments are also advanced each year; the data in this report are presented in 2011 dollars (using a fiscal year Consumer Price Index adjustment).

The 2001–11 data are organized using the new Carnegie 2010 institutional classification. Prior reports used the Carnegie 2005 designation. Although the Carnegie classification structure remains unchanged, nearly 170 public and private nonprofit institutions changed Carnegie categories as a result of the 2010 update (although not all are included in the panel of institutions used in this analysis) and were reclassified across all years to reflect their current Carnegie 2010 designations. For additional information about the database, metrics, and definitions, refer to prior *Trends in College Spending* publications and updates.

Revenue: Where Does the Money Come From?

Figure 1
Total Revenues per FTE Student, FY 2001–FY 2011 (in 2011 dollars)



Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

Figure 2Net Tuition Revenue and State and Local Appropriations per FTE Student, FY 2001–FY 2011 (in 2011 dollars)



Figure 3
Pricing Versus Revenues per FTE Student, FY 2001–FY 2011 (in 2011 dollars)

					201020 ⁻	11 chang
Public research	2001	2006	2010	2011	\$	%
Sticker price	\$4,639	\$6,394	\$7,490	\$7,939	\$449	6.0%
Gross tuition revenue	\$6,681	\$9,022	\$10,619	\$11,230	\$610	5.79
Net tuition revenue	\$5,566	\$7,447	\$8,706	\$9,194	\$488	5.69
Fuition discount rate	16%	17%	18%	18%	0	%
					201020	
Public master's	2001	2006	2010	2011	\$	%
Sticker price	\$3,904	\$5,263	\$6,179	\$6,425	\$246	4.09
Gross tuition revenue	\$4,772	\$6,262	\$7,321	\$7,604	\$283	3.9%
Net tuition revenue	\$4,198	\$5,573	\$6,434	\$6,681	\$247	3.89
Fuition discount rate	13%	11%	12%	12%	0	%
					201020 ⁻	
Public bachelor's	2001	2006	2010	2011	\$	%
Sticker price	\$3,962	\$5,102	\$5,874	\$6,018	\$143	2.49
Gross tuition revenue	\$4,388	\$5,957	\$6,847	\$7,190	\$343	5.0%
Net tuition revenue	\$3,791	\$5,144	\$5,881	\$6,134	\$254	4.3%
Tuition discount rate	14%	14%	14%	15%	1	%
					201020	
Public community college	2001	2006	2010	2011	\$	%
Sticker price	\$1,845	\$2,355	\$2,585	\$2,718	\$133	5.1%
Gross tuition revenue	\$2,606	\$3,210	\$3,595	\$3,707	\$112	3.19
Net tuition revenue	\$2,410	\$2,964	\$3,321	\$3,424	\$102	3.1%
Tuition discount rate	9%	10%	10%	11%	1	%
					201020 ⁻	11 chang
Private research	2001	2006	2010	2011	\$	%
Sticker price	\$23,876	\$28,029	\$31,753	\$32,471	\$718	2.3%
Gross tuition revenue	\$23,581	\$26,961	\$30,271	\$30,840	\$569	1.9%
Net tuition revenue	\$17,792	\$19,532	\$20,890	\$21,151	\$261	1.3%
Fuition discount rate	23%	26%	30%	30%	0	%
					201020	
Private master's	2001	2006	2010	2011	\$	%
Sticker price	\$17,562	\$20,640	\$23,709	\$24,288	\$579	2.4%
Gross tuition revenue	\$16,593	\$19,092	\$21,640	\$22,130	\$491	2.3%
Net tuition revenue	\$12,643	\$14,207	\$15,563	\$15,680	\$118	0.8%
Fuition discount rate	24%	25%	28%	28%		%
					201020 ⁻	11 chanc
Private bachelor's	2001	2006	2010	2011	\$	% %
Sticker price	\$17,810	\$20,860	\$23,733	\$24,490	\$757	3.2%
Gross tuition revenue	\$17,896	\$20,231	\$23,027	\$23,493	\$466	2.0%
Not tuition revenue	φ17,090 Φ40,055	Φ40,231	Φ25,021	ψ20, 43 3	φ400	2.07

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

\$13,321

33%

\$14,484

38%

\$14,448

36%

\$12,255

32%

Net tuition revenue

Tuition discount rate

0.2%

\$35

2%

Spending: Where Does the Money Go?

Figure 4
Total Expenditures per FTE Student by Grouped Expense Categories, FY 2001–FY 2011 (in 2011 dollars)

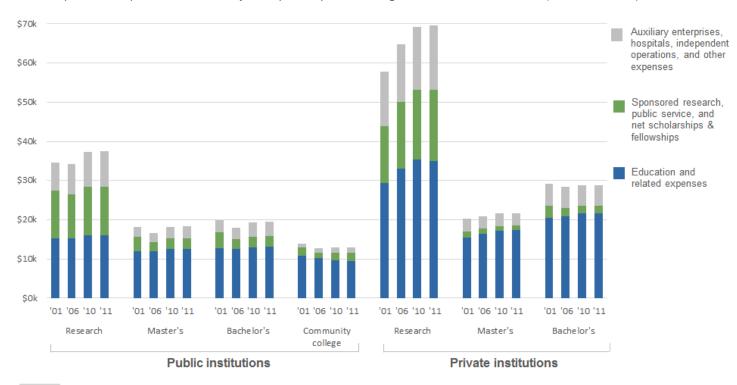


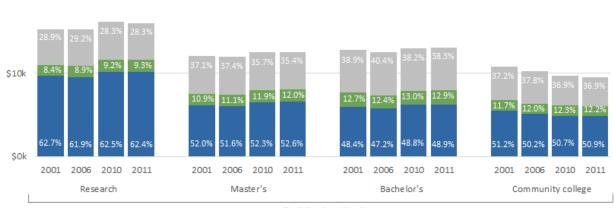
Figure 5Total Expenditures per FTE Student by Standard Expense Categories, FY 2001–FY 2011 (in 2011 dollars)

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Public receives	2004	2006	2040	2044		r change		change
Public research Instruction	2001 \$9,708	2006 \$9,551	2010 \$10,187	2011 \$10,134	\$ \$426	% 4.4%	\$ -\$53	% -0.5%
		- ' '						
Research	\$5,261	\$5,529	\$6,010	\$6,090	\$830	15.8%	\$80	1.3%
Student services	\$1,227	\$1,298	\$1,424	\$1,429	\$202	16.4%	\$5	0.4%
Public service	\$1,956	\$1,939	\$2,048	\$2,028	\$72	3.7%	-\$19	-0.9%
Academic support	\$2,701	\$2,526	\$2,957	\$2,838	\$137	5.1%	-\$120	-4.0%
Institutional support	\$2,268	\$2,327	\$2,550	\$2,514	\$246	10.9%	-\$36	-1.4%
Operation and maintenance	\$1,924	\$2,208	\$1,818	\$1,838	-\$86	-4.5%	\$20	1.1%
					10-year	r change	1-year	change
Public master's	2001	2006	2010	2011	\$	%	\$	%
Instruction	\$6,171	\$6,061	\$6,469	\$6,545	\$374	6.1%	\$76	1.2%
Research	\$383	\$382	\$409	\$400	\$17	4.4%	-\$9	-2.1%
Student services	\$1,312	\$1,318	\$1,485	\$1,507	\$196	14.9%	\$22	1.5%
Public service	\$652	\$633	\$590	\$570	-\$82	-12.6%	-\$20	-3.4%
Academic support	\$1,561	\$1,448	\$1,547	\$1,534	-\$27	-1.7%	-\$13	-0.8%
Institutional support	\$2,060	\$1,970	\$2,071	\$2,038	-\$22	-1.1%	-\$33	-1.6%
					- φ 22 -\$68	-4.6%	\$2	0.1%
Operation and maintenance	\$1,468	\$1,655	\$1,398	\$1,400	-\$00	-4.0%	φZ	0.1%
						r change		change
Public bachelor's	2001	2006	2010	2011	\$	%	\$	%
Instruction	\$5,981	\$5,763	\$6,200	\$6,249	\$268	4.5%	\$49	0.8%
Research	\$403	\$491	\$459	\$434	\$30	7.5%	-\$26	-5.6%
Student services	\$1,721	\$1,583	\$1,696	\$1,694	-\$27	-1.6%	-\$2	-0.1%
Public service	\$801	\$685	\$524	\$556	-\$245	-30.6%	\$31	6.0%
Academic support	\$1,578	\$1,367	\$1,509	\$1,502	-\$77	-4.9%	-\$7	-0.5%
Institutional support	\$2,421	\$2,362	\$2,464	\$2,471	\$49	2.0%	\$6	0.3%
Operation and maintenance	\$1,782	\$2,058	\$1,617	\$1,659	-\$122	-6.9%	\$42	2.6%
operation and maintenance	Ψ1,702	Ψ2,030	Ψ1,017	Ψ1,000	·		ΨΤΖ	2.070
Public community college	2001	2006	2010	2011	10-yeai \$	r change %		change %
					<u> </u>		\$	
Instruction	\$5,514	\$5,120	\$4,894	\$4,843	-\$671	-12.2%	-\$51	-1.0%
Research	\$41	\$69	\$59	\$64	\$23	55.6%	\$5	7.8%
Student services	\$1,259	\$1,236	\$1,207	\$1,172	-\$87	-6.9%	-\$35	-2.9%
Public service	\$447	\$377	\$327	\$310	-\$137	-30.7%	-\$17	-5.3%
Academic support	\$1,113	\$983	\$933	\$919	-\$194	-17.4%	-\$14	-1.5%
Institutional support	\$1,910	\$1,804	\$1,714	\$1,716	-\$194	-10.2%	\$2	0.1%
Operation and maintenance	\$1,191	\$1,228	\$1,061	\$1,029	-\$162	-13.6%	-\$32	-3.0%
					10-vea	r change	1-vear	change
Private research	2001	2006	2010	2011	\$	%	\$	%
Instruction					<u> </u>	18.7%		
	\$16,942	\$19,111	\$20,114	\$20,103	\$3,161		-\$11	-0.1%
Research	\$9,613	\$11,819	\$12,201	\$12,617	\$3,005	31.3%	\$416	3.4%
Student services	\$2,706	\$3,165	\$3,489	\$3,511	\$805	29.8%	\$21	0.6%
Public service	\$1,172	\$1,334	\$1,322	\$1,330	\$157	13.4%	\$8	0.6%
Academic support	\$4,690	\$5,199	\$5,681	\$5,756	\$1,066	22.7%	\$75	1.3%
Institutional support	\$5,837	\$6,527	\$6,943	\$6,829	\$992	17.0%	-\$114	-1.6%
Operation and maintenance	\$3,027	\$3,979	\$4,045	\$3,735	\$707	23.4%	-\$311	-7.7%
					10-vea	r change	1-vear	change
Private master's	2001	2006	2010	2011	\$	%	\$	%
Instruction	\$6,707	\$7,142	\$7,377	\$7,439	\$732	10.9%	\$62	0.8%
Research	\$567	\$522	\$514	\$481	-\$86	-15.2%	-\$33	-6.4%
Student services	\$2,387	\$2,676	\$2,897	\$2,967	\$580	24.3%	\$70	2.4%
Public service	\$586	\$533	\$491	\$503	-\$83	-14.2%	\$12	2.5%
Academic support	\$1,587	\$1,694	\$1,736	\$1,769	\$182	11.5%	\$33	1.9%
Institutional support	\$3,566	\$3,816	\$3,929	\$3,913	\$347	9.7%	-\$16	-0.4%
Operation and maintenance	\$1,391	\$1,511	\$1,473	\$1,445	\$54	3.9%	-\$28	-1.9%
					10-year	r change	1-year	change
Private bachelor's	2001	2006	2010	2011	\$	%	\$	%
Instruction	\$8,098	\$8,368	\$8,588	\$8,547	\$449	5.5%	-\$42	-0.5%
Research	\$919	\$866	\$823	\$807	-\$112	-12.1%	-\$15	-1.8%
	\$3,340	\$3,754	\$3,997	\$4,052	\$711	21.3%	\$55	1.4%
Student services							\$30	5.1%
		¢ear.	OF-00					5 1%
Public service	\$687	\$625	\$598	\$629	-\$58	-8.5%		
Student services Public service Academic support	\$687 \$1,996	\$2,084	\$2,150	\$2,120	\$124	6.2%	-\$30	-1.4%
Public service	\$687							-1.4% -1.1% 1.5%

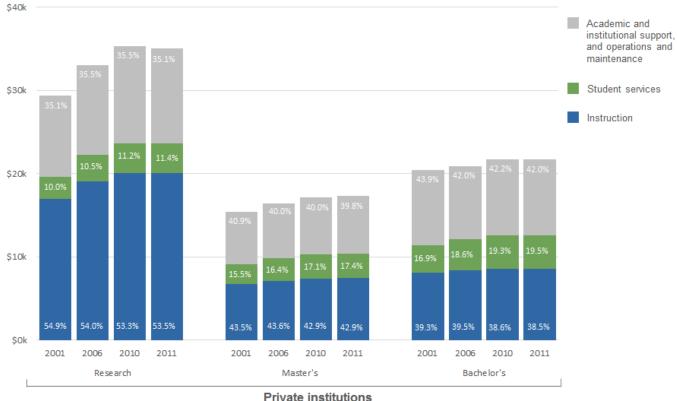
Figure 6 Average Education and Related Spending per FTE Student by Component, FY 2001-FY 2011

\$30k

\$20k



Public institutions

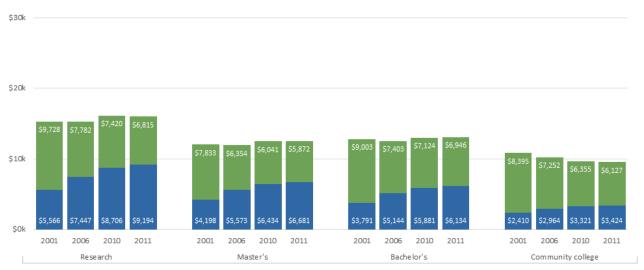


Private institutions

Spending, Subsidies, and Tuitions: Why Are Prices Going Up?

Figure 7

Average Education and Related Spending per FTE Student by Net Tuition and Subsidy, FY 2001–FY 2011 (in 2011 dollars)



Public institutions

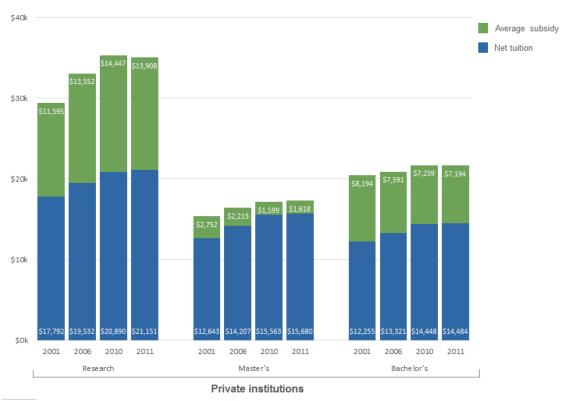
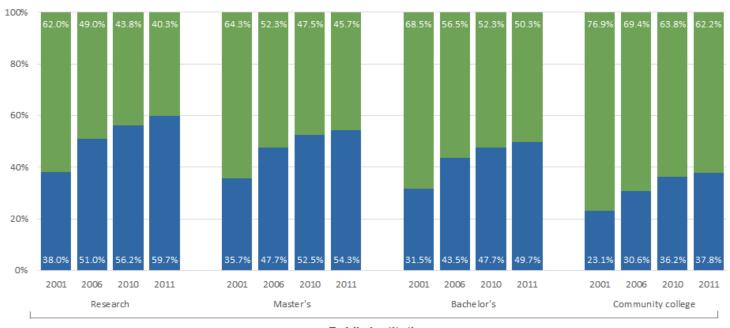


Figure 8

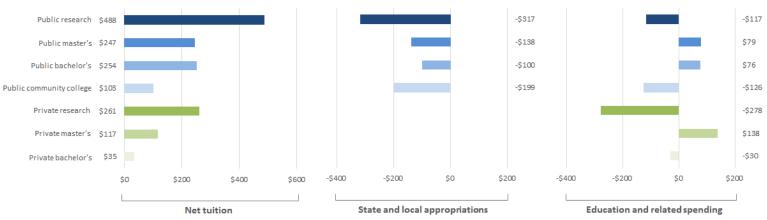
Net Tuition and Subsidy Shares of Education and Related Costs, FY 2001–FY 2011



Public institutions 100% Subsidy share of E&R costs Tuition share of E&R costs 80% 60% 40% 20% 74.3% 76.1% 77.6% 84.6% 88.1% 92.2% 92.1% 64.6% 67.5% 71.1% 71.6% 0% 2011 2001 2006 2010 2011 2001 2006 2010 2001 2006 2010 2011 Master's Research Bachelor's

Private institutions

Figure 9Changes in Net Tuition Revenue, State and Local Appropriations, and Education and Related Costs, FY 2010–FY 2011 (in 2011 dollars)



Spending and Results: What Does the Money Buy?

Figure 10Total Degrees and Completions per 100 FTE Students, FY 2001–FY 2011

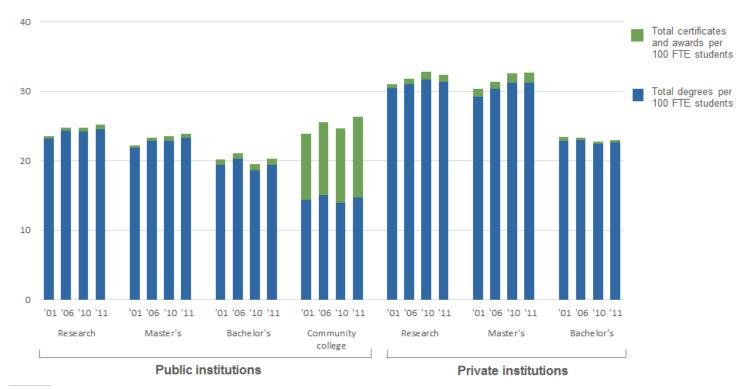
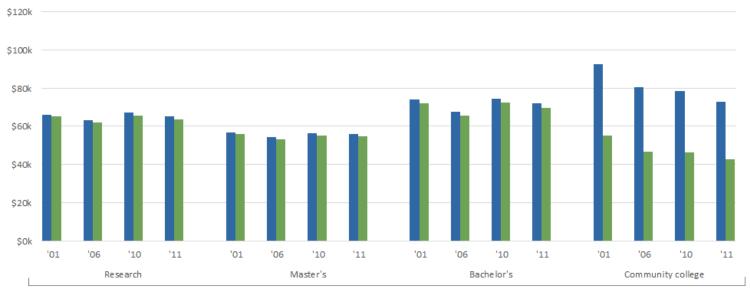
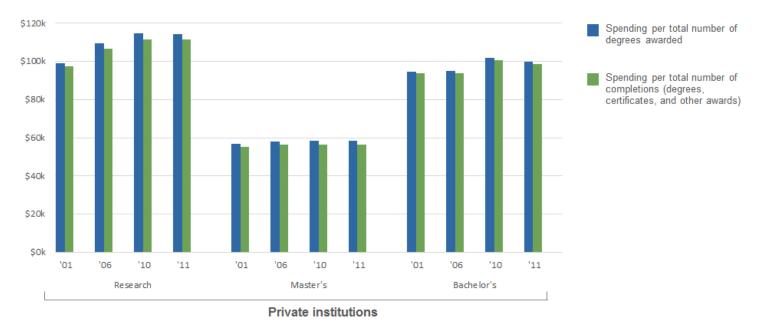


Figure 11
Education and Related Spending per Degree and Completion per 100 FTE Students, FY 2001–FY 2011 (in 2011 dollars)



Public institutions



Supplemental Tables

Figure S1
Average Revenues per FTE Student, FY 2001–FY 2011 (in 2011 dollars)

Public research institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$5,566	\$5.834	\$6,192	\$6,776	\$7,171	\$7,447	\$7,640	\$7,784	\$8,180	\$8,706	\$9,194
State and local appropriations	\$10,983	\$10,636	\$9,798	\$9,265	\$9,063	\$9,336	\$9,679	\$9,841	\$9,049	\$8,219	\$7,902
Federal appropriations and federal, state, and local grants	Ψ10,000	ψ10,000	ψ0,100	ψ0,200	ψ0,000	ψ0,000	ψο,στο	ψο,στι	ψο,ο το	ψ0,210	ψ1,002
and contracts	\$5.665	\$7,204	\$7,579	\$7,815	\$7,964	\$7,984	\$7,949	\$7,853	\$8,115	\$8.334	\$8,401
Auxiliary enterprises, hospitals, independent operations,	ψ0,000	Ψ1,201	ψ1,010	ψ1,010	ψ1,001	ψ1,001	Ψ1,010	ψ1,000	ψο, 110	ψ0,001	ψο, το τ
and other sources	\$9,486	\$9,454	\$9.273	\$9.766	\$9.850	\$10.108	\$10,434	\$10.653	\$11,101	\$11.397	\$11.662
Operating revenues (excluding PIE)	\$31,700	\$33,129	\$32,843	\$33,621	\$34,048	\$34,640	\$35,459	\$35,945	\$36,275	\$36.501	\$37,011
Private and affiliated gifts, grants, contracts, investment	ψ51,700	ψ55,125	ψ02,040	ψ55,021	ψ54,040	ψ54,040	ψ55,455	ψ55,545	ψ30,273	ψ50,501	ψ57,011
returns, and endowment income (PIE)	\$2,567	\$1,341	\$1,991	\$2,102	\$2,195	\$2,386	\$3,346	\$1,587	-\$334	\$2,309	\$2,797
Total operating revenue	\$34,267	\$34,470	\$34,834	\$35,723	\$36,243	\$37,027	\$38,804	\$37,532	\$35,941	\$38,810	\$39,808
Total operating revenue	φ54,201	φ54,470	φ54,054	φυυ,120	φ30,243	φ31,021	φ30,004	φυ1,υυΖ	φυυ, σ4 Ι	φ30,010	φ39,000
Public master's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$4,198	\$4,339	\$4,642	\$5,151	\$5,422	\$5,573	\$5,708	\$5,829	\$6,046	\$6,434	\$6,681
State and local appropriations	\$7,883	\$7,678	\$7,083	\$6,724	\$6,556	\$6,742	\$6,951	\$7,160	\$6,557	\$5,961	\$5,823
Federal appropriations and federal, state, and local grants											
and contracts	\$1,783	\$1,873	\$1,913	\$1,953	\$1,914	\$1,957	\$1,992	\$2,050	\$1,975	\$2,156	\$2,102
Auxiliary enterprises, hospitals, independent operations,											
and other sources	\$3,219	\$3,058	\$3,034	\$3,129	\$3,303	\$3,200	\$3,307	\$3,334	\$3,547	\$3,712	\$3,725
Operating revenues (excluding PIE)	\$17,081	\$16,947	\$16,672	\$16,956	\$17,195	\$17,386	\$17,869	\$18,282	\$18,043	\$18,187	\$18,256
Private and affiliated gifts, grants, contracts, investment											
returns, and endowment income (PIE)	\$515	\$365	\$339	\$325	\$360	\$450	\$610	\$448	\$266	\$371	\$387
Total operating revenue	\$17,585	\$17,310	\$17,009	\$17,280	\$17,555	\$17,836	\$18,480	\$18,728	\$18,307	\$18,557	\$18,643
Public bachelor's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$3,791	\$3,795	\$4,193	\$4,642	\$4,919	\$5,144	\$5,271	\$5,412	\$5,587	\$5,881	\$6,134
Net tuition State and local appropriations											
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants	\$3,791 \$8,568	\$3,795 \$8,292	\$4,193 \$7,472	\$4,642 \$7,108	\$4,919 \$6,931	\$5,144 \$7,272	\$5,271 \$7,837	\$5,412 \$8,010	\$5,587	\$5,881 \$6,491	\$6,134 \$6,391
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts	\$3,791	\$3,795	\$4,193	\$4,642	\$4,919	\$5,144	\$5,271	\$5,412	\$5,587	\$5,881	\$6,134
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants	\$3,791 \$8,568	\$3,795 \$8,292	\$4,193 \$7,472	\$4,642 \$7,108	\$4,919 \$6,931	\$5,144 \$7,272	\$5,271 \$7,837	\$5,412 \$8,010	\$5,587 \$7,565	\$5,881 \$6,491	\$6,134 \$6,391
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources	\$3,791 \$8,568	\$3,795 \$8,292	\$4,193 \$7,472	\$4,642 \$7,108	\$4,919 \$6,931	\$5,144 \$7,272	\$5,271 \$7,837	\$5,412 \$8,010	\$5,587 \$7,565	\$5,881 \$6,491	\$6,134 \$6,391
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE)	\$3,791 \$8,568 \$2,067	\$3,795 \$8,292 \$2,319	\$4,193 \$7,472 \$2,422	\$4,642 \$7,108 \$2,325	\$4,919 \$6,931 \$2,372	\$5,144 \$7,272 \$2,530	\$5,271 \$7,837 \$2,460	\$5,412 \$8,010 \$2,525	\$5,587 \$7,565 \$2,442	\$5,881 \$6,491 \$2,648	\$6,134 \$6,391 \$2,345
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources	\$3,791 \$8,568 \$2,067 \$3,462	\$3,795 \$8,292 \$2,319 \$3,788	\$4,193 \$7,472 \$2,422 \$3,656	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624	\$4,919 \$6,931 \$2,372 \$3,558	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229	\$5,271 \$7,837 \$2,460 \$3,788	\$5,412 \$8,010 \$2,525 \$3,760	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128	\$5,881 \$6,491 \$2,648 \$4,039	\$6,134 \$6,391 \$2,345 \$4,182
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE)	\$3,791 \$8,568 \$2,067 \$3,462	\$3,795 \$8,292 \$2,319 \$3,788	\$4,193 \$7,472 \$2,422 \$3,656	\$4,642 \$7,108 \$2,325 \$3,548	\$4,919 \$6,931 \$2,372 \$3,558	\$5,144 \$7,272 \$2,530 \$3,563	\$5,271 \$7,837 \$2,460 \$3,788	\$5,412 \$8,010 \$2,525 \$3,760	\$5,587 \$7,565 \$2,442 \$3,922	\$5,881 \$6,491 \$2,648 \$4,039	\$6,134 \$6,391 \$2,345 \$4,182
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE)	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations,	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320 \$1,807	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458 \$1,840	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849 \$1,984	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837 \$1,860	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638 \$1,782
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752 \$1,416	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872 \$1,366	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760 \$1,272	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803 \$1,253	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912 \$1,339	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE)	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320 \$1,807	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458 \$1,840	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849 \$1,984	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837 \$1,860	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638 \$1,782
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320 \$1,807 \$1,330	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752 \$1,416	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458 \$1,840 \$1,317	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872 \$1,366	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760 \$1,272	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803 \$1,253	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912 \$1,339	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849 \$1,984	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837 \$1,860 \$1,331	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638 \$1,782 \$1,314
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE)	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320 \$1,807 \$1,330	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752 \$1,416	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458 \$1,840 \$1,317	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872 \$1,366	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760 \$1,272 \$12,280 \$229	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803 \$1,253	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912 \$1,339	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849 \$1,984	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837 \$1,860 \$1,331	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638 \$1,782 \$1,314
Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment returns, and endowment income (PIE) Total operating revenue Public community colleges Net tuition State and local appropriations Federal appropriations and federal, state, and local grants and contracts Auxiliary enterprises, hospitals, independent operations, and other sources Operating revenues (excluding PIE) Private and affiliated gifts, grants, contracts, investment	\$3,791 \$8,568 \$2,067 \$3,462 \$17,888 \$715 \$18,575 2001 \$2,410 \$7,320 \$1,807 \$1,330 \$12,817	\$3,795 \$8,292 \$2,319 \$3,788 \$18,194 \$540 \$18,721 2002 \$2,458 \$6,938 \$1,752 \$1,416 \$12,507	\$4,193 \$7,472 \$2,422 \$3,656 \$17,743 \$645 \$18,388 2003 \$2,630 \$6,458 \$1,840 \$1,317 \$12,189	\$4,642 \$7,108 \$2,325 \$3,548 \$17,624 \$624 \$18,249 2004 \$2,809 \$6,389 \$1,872 \$1,366 \$12,392	\$4,919 \$6,931 \$2,372 \$3,558 \$17,780 \$645 \$18,424 2005 \$2,887 \$6,396 \$1,760 \$1,272 \$12,280	\$5,144 \$7,272 \$2,530 \$3,563 \$18,229 \$699 \$18,928 2006 \$2,964 \$6,829 \$1,803 \$1,253 \$12,708	\$5,271 \$7,837 \$2,460 \$3,788 \$18,954 \$878 \$19,832 2007 \$3,053 \$7,140 \$1,867 \$1,274 \$13,197	\$5,412 \$8,010 \$2,525 \$3,760 \$19,297 \$681 \$19,978 2008 \$3,068 \$7,367 \$1,912 \$1,339 \$13,559	\$5,587 \$7,565 \$2,442 \$3,922 \$19,128 \$403 \$19,531 2009 \$3,176 \$6,849 \$1,984 \$1,279 \$13,169	\$5,881 \$6,491 \$2,648 \$4,039 \$18,725 \$647 \$19,373 2010 \$3,321 \$5,837 \$1,860 \$1,331 \$12,238	\$6,134 \$6,391 \$2,345 \$4,182 \$18,725 \$714 \$19,429 2011 \$3,424 \$5,638 \$1,782 \$1,314 \$12,049

Note: The federal grants category excludes Pell grants; they are included in net tuition revenue. Investment returns include unrealized gains/losses. Data may not sum to totals because revenues were summed at the institution level before calculating aggregate category averages.

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

Figure S1, continued

Average Revenues per FTE Student, FY 2001-FY 2011 (in 2011 dollars)

Private research institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$17,792	\$18,423	\$18,755	\$19,039	\$19,564	\$19,532	\$20,207	\$20,438	\$20,736	\$20,890	\$21,151
State and local appropriations	\$518	\$513	\$1,037	\$836	\$740	\$814	\$853	\$897	\$757	\$658	\$821
Federal appropriations and federal, state, and local grants											
and contracts	\$9,849	\$10,736	\$11,199	\$12,026	\$12,380	\$11,977	\$11,690	\$11,483	\$11,495	\$11,821	\$11,811
Auxiliary enterprises, hospitals, independent operations,											
and other sources	\$18,567	\$18,954	\$19,331	\$20,232	\$21,183	\$21,602	\$22,808	\$23,439	\$22,501	\$23,218	\$25,115
Operating revenues (excluding PIE)	\$45,855	\$47,714	\$49,228	\$51,137	\$53,066	\$53,067	\$54,676	\$55,230	\$54,568	\$55,850	\$58,115
Private and affiliated gifts, grants, contracts, investment											
returns, and endowment income (PIE)	\$7,616	\$4,819	\$15,776	\$31,238	\$31,564	\$34,423	\$47,176	\$15,734	-\$30,879	\$24,291	\$39,323
Total operating revenue	\$53,471	\$52,533	\$65,004	\$82,375	\$84,630	\$87,490	\$101,852	\$70,964	\$23,689	\$80,141	\$97,438
Private master's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$12,643	\$13,076	\$13,326	\$13,749	\$14,116	\$14,207	\$14,661	\$14,785	\$15,317	\$15,563	\$15,680
State and local appropriations	\$594	\$553	\$479	\$453	\$447	\$433	\$406	\$436	\$426	\$324	\$312
Federal appropriations and federal, state, and local grants											
and contracts	\$973	\$1,074	\$1,021	\$1,012	\$917	\$884	\$825	\$788	\$823	\$850	\$806
Auxiliary enterprises, hospitals, independent operations,											
and other sources	\$3,950	\$4,066	\$4,044	\$4,177	\$4,119	\$4,295	\$4,398	\$4,166	\$4,141	\$4,171	\$4,316
Operating revenues (excluding PIE)	\$17,604	\$18,240	\$18,406	\$18,929	\$19,149	\$19,394	\$19,891	\$19,760	\$20,298	\$20,587	\$20,792
Private and affiliated gifts, grants, contracts, investment											
returns, and endowment income (PIE)	\$3,255	\$2,235	\$3,037	\$5,002	\$4,413	\$4,734	\$6,065	\$2,690	-\$1,314	\$3,631	\$4,978
Total operating revenue	\$20,859	\$20,475	\$21,444	\$23,931	\$23,562	\$24,128	\$25,956	\$22,449	\$18,984	\$24,218	\$25,769
Private bachelor's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net tuition	\$12,255	\$12,304	\$12,440	\$12,860	\$13,136	\$13,321	\$13,673	\$13,864	\$14,255	\$14,448	\$14,484
State and local appropriations	\$427	\$439	\$380	\$339	\$297	\$415	\$450	\$545	\$513	\$393	\$493
Federal appropriations and federal, state, and local grants											
and contracts	\$1,903	\$1,751	\$1,733	\$1,600	\$1,582	\$1,534	\$1,470	\$1,380	\$1,455	\$1,459	\$1,392
Auxiliary enterprises, hospitals, independent operations,											
and other sources	\$6,232	\$6,206	\$6,277	\$7,553	\$6,726	\$6,885	\$6,495	\$6,533	\$6,910	\$6,619	\$6,894
Operating revenues (excluding PIE)	\$20,251	\$20,126	\$20,310	\$21,872	\$21,308	\$21,632	\$21,554	\$21,698	\$22,545	\$22,449	\$22,691
Private and affiliated gifts, grants, contracts, investment	. ,	. ,	. , -	. , –	. ,	. ,	, , , , ,	. , -	. , -	. , -	. ,
returns, and endowment income (PIE)	\$6,542	\$4.127	\$7.745	\$15,263	\$12,689	\$14,563	\$20.978	\$5,881	-\$8,519	\$12,583	\$17,327
Total operating revenue	\$26,793	\$24,297	\$28.039	\$37,102	\$33,970	\$36,163	\$42,532	\$27,579	\$14.045	\$34.977	\$39,942

Note: The federal grants category excludes Pell grants; they are included in net tuition revenue. Investment returns include unrealized gains/losses. Data may not sum to totals because revenues were summed at the institution level before calculating aggregate category averages.

Figure S2Average Expenditures per FTE Student, FY 2001–FY 2011 (in 2011 dollars)

	Public research institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	- Instruction	\$9,708	\$9,606	\$9,422	\$9,308	\$9,404	\$9,551	\$9,798	\$9,990	\$10,106	\$10,187	\$10,134
	Research	\$5,261	\$5,265	\$5,421	\$5,550	\$5,587	\$5,529	\$5,538	\$5,597	\$5,751	\$6,010	\$6,090
	Student services	\$1,227	\$1,262	\$1,242	\$1,251	\$1,265	\$1,298	\$1,329	\$1,364	\$1,401	\$1,424	\$1,429
	Public service	\$1,956	\$1,973	\$1,931	\$1,980	\$1,971	\$1,939	\$1,964	\$2,016	\$1,989	\$2,048	\$2,028
Standard	Academic support	\$2,701	\$2,443	\$2,398	\$2,410	\$2,446	\$2,526	\$2,595	\$2,842	\$2,882	\$2,957	\$2,838
expense	Institutional support	\$2,268	\$2,244	\$2,232	\$2,201	\$2,235	\$2,327	\$2,434	\$2,557	\$2,563	\$2,550	\$2,514
categories	Operations and maintenance	\$1,924	\$2,034	\$1,934	\$1,997	\$2,064	\$2,208	\$2,248	\$2,218	\$2,188	\$1,818	\$1,838
	Net scholarships and fellowships	\$2,316	\$1,197	\$1,118	\$1,046	\$1,093	\$1,100	\$1,125	\$1,147	\$1,207	\$1,442	\$1,496
	Education and general	\$27,348	\$26,012	\$25,671	\$25,718	\$26,039	\$26,451	\$26,998	\$27,697	\$28,051	\$28,395	\$28,339
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$7,280	\$7,262	\$7,183	\$7,344	\$7,423	\$7,665	\$7,857	\$8,428	\$8,634	\$8,834	\$9,069
	Total operating expenditures	\$34,628	\$33,274	\$32,854	\$33,063	\$33,462	\$34,116	\$34,855	\$36,125	\$36,684	\$37,229	\$37,408
	Education and related	\$15,295	\$15,092	\$14,739	\$14,623	\$14,814	\$15,229	\$15,669	\$16,100	\$16,266	\$16,126	\$16,009
	Research and related	\$7,124	\$7,095	\$7,264	\$7,430	\$7,511	\$7,514	\$7,559	\$7,715	\$7,902	\$8,119	\$8,152
Grouped	Public service and related	\$2,630	\$2,645	\$2,580	\$2,649	\$2,651	\$2,639	\$2,683	\$2,774	\$2,715	\$2,753	\$2,710
expense	Net scholarships and fellowships	\$2,316	\$1,197	\$1,118	\$1,046	\$1,093	\$1,100	\$1,125	\$1,147	\$1,207	\$1,442	\$1,496
categories	Education and general	\$27,348	\$26,012	\$25,671	\$25,718	\$26,039	\$26,451	\$26,998	\$27,697	\$28,051	\$28,395	\$28,339
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$7,280	\$7,262	\$7,183	\$7,344	\$7,423	\$7,665	\$7,857	\$8,428	\$8,634	\$8,834	\$9,069
	Total operating expenditures	\$34,628	\$33,274	\$32,854	\$33,063	\$33,462	\$34,116	\$34,855	\$36,125	\$36,684	\$37,229	\$37,408
	Public master's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	Public master's institutions Instruction	\$6,171	\$6,143	\$6,056	\$6,008	\$6,018	\$6,061	\$6,217	\$6,415	\$6,439	\$6,469	\$6,545
		\$6,171 \$383	\$6,143 \$361	\$6,056 \$360	\$6,008 \$355	\$6,018 \$380	\$6,061 \$382	\$6,217 \$380	\$6,415 \$384	\$6,439 \$374	\$6,469 \$409	\$6,545 \$400
	Instruction	\$6,171 \$383 \$1,312	\$6,143 \$361 \$1,304	\$6,056 \$360 \$1,270	\$6,008 \$355 \$1,266	\$6,018 \$380 \$1,302	\$6,061 \$382 \$1,318	\$6,217 \$380 \$1,365	\$6,415 \$384 \$1,438	\$6,439 \$374 \$1,462	\$6,469 \$409 \$1,485	\$6,545 \$400 \$1,507
	Instruction Research Student services Public service	\$6,171 \$383 \$1,312 \$652	\$6,143 \$361 \$1,304 \$644	\$6,056 \$360 \$1,270 \$659	\$6,008 \$355 \$1,266 \$637	\$6,018 \$380 \$1,302 \$621	\$6,061 \$382 \$1,318 \$633	\$6,217 \$380 \$1,365 \$624	\$6,415 \$384 \$1,438 \$609	\$6,439 \$374 \$1,462 \$604	\$6,469 \$409 \$1,485 \$590	\$6,545 \$400 \$1,507 \$570
Standard	Instruction Research Student services Public service Academic support	\$6,171 \$383 \$1,312 \$652 \$1,561	\$6,143 \$361 \$1,304 \$644 \$1,449	\$6,056 \$360 \$1,270 \$659 \$1,418	\$6,008 \$355 \$1,266 \$637 \$1,412	\$6,018 \$380 \$1,302 \$621 \$1,437	\$6,061 \$382 \$1,318 \$633 \$1,448	\$6,217 \$380 \$1,365 \$624 \$1,475	\$6,415 \$384 \$1,438 \$609 \$1,522	\$6,439 \$374 \$1,462 \$604 \$1,558	\$6,469 \$409 \$1,485 \$590 \$1,547	\$6,545 \$400 \$1,507 \$570 \$1,534
expense	Instruction Research Student services Public service Academic support Institutional support	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038
	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals,	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals,	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554
expense	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related Public service and related Net scholarships and fellowships	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009 \$2,127	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560 \$993 \$1,155	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008 \$1,028	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984 \$990	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955 \$934	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974 \$892	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957 \$910	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940 \$953	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931 \$1,048	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897 \$1,304	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860 \$1,418
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related Public service and related Net scholarships and fellowships Education and general	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560 \$993	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related Public service and related Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals,	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560 \$993 \$1,155	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931 \$1,048 \$15,159	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897 \$1,304	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860 \$1,418 \$15,349
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related Public service and related Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560 \$993 \$1,155 \$14,487	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931 \$1,048 \$15,159 \$2,828	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897 \$1,304 \$15,216	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860 \$1,418 \$15,349
expense categories	Instruction Research Student services Public service Academic support Institutional support Operations and maintenance Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals, independent and other operations Total operating expenditures Education and related Research and related Public service and related Net scholarships and fellowships Education and general Auxiliary enterprises, hospitals,	\$6,171 \$383 \$1,312 \$652 \$1,561 \$2,060 \$1,468 \$2,127 \$15,677 \$2,493 \$18,170 \$12,030 \$599 \$1,009 \$2,127 \$15,677	\$6,143 \$361 \$1,304 \$644 \$1,449 \$2,014 \$1,490 \$1,155 \$14,487 \$2,390 \$16,877 \$11,880 \$560 \$993 \$1,155 \$14,487	\$6,056 \$360 \$1,270 \$659 \$1,418 \$2,013 \$1,472 \$1,028 \$14,198 \$2,355 \$16,553 \$11,713 \$556 \$1,008 \$1,028 \$14,198	\$6,008 \$355 \$1,266 \$637 \$1,412 \$2,013 \$1,462 \$990 \$14,062 \$2,378 \$16,440 \$11,648 \$551 \$984 \$990 \$14,062	\$6,018 \$380 \$1,302 \$621 \$1,437 \$1,932 \$1,576 \$934 \$14,127 \$2,402 \$16,529 \$11,752 \$594 \$955 \$934 \$14,127	\$6,061 \$382 \$1,318 \$633 \$1,448 \$1,970 \$1,655 \$892 \$14,293 \$2,408 \$16,701 \$11,926 \$599 \$974 \$892 \$14,293	\$6,217 \$380 \$1,365 \$624 \$1,475 \$2,023 \$1,663 \$910 \$14,590 \$2,494 \$17,085 \$12,223 \$600 \$957 \$910 \$14,590	\$6,415 \$384 \$1,438 \$609 \$1,522 \$2,092 \$1,713 \$953 \$15,040 \$2,730 \$17,769 \$12,650 \$599 \$940 \$953 \$15,040	\$6,439 \$374 \$1,462 \$604 \$1,558 \$2,063 \$1,695 \$1,048 \$15,159 \$2,828 \$17,987 \$12,695 \$583 \$931 \$1,048 \$15,159	\$6,469 \$409 \$1,485 \$590 \$1,547 \$2,071 \$1,398 \$1,304 \$15,216 \$2,950 \$18,166 \$12,475 \$621 \$897 \$1,304 \$15,216	\$6,545 \$400 \$1,507 \$570 \$1,534 \$2,038 \$1,400 \$1,418 \$15,349 \$2,993 \$18,342 \$12,554 \$604 \$860 \$1,418 \$15,349

Note: Public institutions reported gross scholarships and fellowships prior to 2002, with some institutions reporting gross amounts through 2004. Data may not sum to totals because expenditures were summed at the institution level before calculating aggregate category averages.

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

Figure S2, continued

Public bachelor's institutions

Average Expenditures per FTE Student, FY 2001-FY 2011 (in 2011 dollars)

	I ublic bachelor a mantanona	2001	2002	2000	2004	2000	2000	2001	2000	2009	2010	2011
	_ Instruction	\$5,981	\$5,896	\$5,779	\$5,672	\$5,670	\$5,763	\$6,053	\$6,234	\$6,187	\$6,200	\$6,249
	Research	\$403	\$510	\$527	\$504	\$527	\$491	\$483	\$471	\$462	\$459	\$434
	Student services	\$1,721	\$1,664	\$1,627	\$1,588	\$1,570	\$1,583	\$1,643	\$1,713	\$1,667	\$1,696	\$1,694
	Public service	\$801	\$715	\$721	\$627	\$667	\$685	\$601	\$578	\$552	\$524	\$556
	Academic support	\$1,578	\$1,425	\$1,365	\$1,338	\$1,341	\$1,367	\$1,422	\$1,486	\$1,489	\$1,509	\$1,502
Standard	Institutional support	\$2,421	\$2,349	\$2,326	\$2,265	\$2,286	\$2,362	\$2,455	\$2,557	\$2,555	\$2,464	\$2,471
expense categories	Operations and maintenance	\$1,782	\$1,961	\$1,751	\$1,796	\$1,888	\$2,058	\$2,090	\$2,086	\$2,047	\$1,617	\$1,659
categories	Net scholarships and fellowships	\$2,430	\$1,414	\$1,160	\$1,110	\$1,047	\$1,008	\$1,000	\$1,053	\$1,013	\$1,314	\$1,382
	Education and general	\$16.863	\$15,637	\$14,973	\$14.657	\$14,709	\$15,045	\$15,516	\$15,971	\$15,772	\$15,597	\$15,766
	Auxiliary enterprises, hospitals,	¥ ,	+,	¥ · · ·,= · ·	¥ · · · / · · ·	¥ · · · /·	¥,	· · · · · · ·	¥ ,	*,	¥,	 ,
	independent and other operations	\$2,989	\$3,000	\$2,962	\$2,784	\$2,860	\$2,956	\$3,077	\$3,626	\$3,417	\$3,705	\$3,658
	Total operating expenditures	\$19,699	\$18,560	\$17,859	\$17,441	\$17,532	\$17,963	\$18,593	\$19,597	\$19,189	\$19,254	\$19,377
	Total operating experience	ψ10,000	ψ10,000	Ψ11,000	Ψ11,111	Ψ11,002	Ψ11,000	Ψ10,000	Ψ10,001	ψ10,100	Ψ10,201	Ψ10,011
	Education and related	\$12,795	\$12,617	\$12,245	\$12,109	\$12,192	\$12,547	\$13,106	\$13,533	\$13,411	\$13,004	\$13,081
	Research and related	\$659	\$879	\$822	\$784	\$831	\$779	\$779	\$754	\$755	\$721	\$689
O	Public service and related	\$1,365	\$1,191	\$1,199	\$1,038	\$1,100	\$1,153	\$998	\$959	\$914	\$845	\$891
Grouped expense	Net scholarships and fellowships	\$2,430	\$1,414	\$1,160	\$1,110	\$1,047	\$1,008	\$1,000	\$1,053	\$1,013	\$1,314	\$1,382
categories	Education and general	\$16,863	\$15,637	\$14,973	\$14,657	\$14,709	\$15,045	\$15,516	\$15,971	\$15,772	\$15,597	\$15,766
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$2,989	\$3,000	\$2,962	\$2,784	\$2,860	\$2,956	\$3,077	\$3,626	\$3,417	\$3,705	\$3,658
	Total operating expenditures	\$19,699	\$18,560	\$17,859	\$17,441	\$17,532	\$17,963	\$18,593	\$19,597	\$19,189	\$19,254	\$19,377
		. ,	, ,	, ,		, ,	. ,	. ,	, ,	. ,	, ,	, , , , , , , , , , , , , , , , , , , ,
	Public community colleges	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	Instruction	\$5,514	\$5,259	\$4,997	\$4,971	\$4,987	\$5,120	\$5,312	\$5,408	\$5,241	\$4,894	\$4,843
	Research	\$41	\$66	\$56	\$40	\$54	\$69	\$53	\$44	\$72	\$59	\$64
	Student services	\$1,259	\$1,232	\$1,206	\$1,187	\$1,204	\$1,236	\$1,291	\$1,297	\$1,292	\$1,207	\$1,172
	Public service	\$447	\$417	\$402	\$374	\$372	\$377	\$361	\$372	\$357	\$327	\$310
Ctondord	Academic support	\$1,113	\$1,058	\$964	\$944	\$952	\$983	\$1,009	\$1,043	\$1,012	\$933	\$919
Standard expense	Institutional support	\$1,910	\$1,819	\$1,717	\$1,762	\$1,741	\$1,804	\$1,875	\$1,947	\$1,889	\$1,714	\$1,716
categories	Operations and maintenance	\$1,191	\$1,189	\$1,136	\$1,119	\$1,141	\$1,228	\$1,263	\$1,278	\$1,247	\$1,061	\$1,029
	Net scholarships and fellowships	\$1,710	\$1,401	\$1,242	\$1,152	\$1,058	\$979	\$944	\$1,031	\$1,188	\$1,645	\$1,766
	Education and general	\$12,987	\$12,220	\$11,457	\$11,300	\$11,255	\$11,542	\$11,882	\$12,173	\$12,016	\$11,577	\$11,560
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$922	\$1,189	\$1,030	\$1,110	\$1,102	\$1,087	\$1,171	\$1,270	\$1,370	\$1,392	\$1,422
	Total operating expenditures	\$13,822	\$13,328	\$12,423	\$12,354	\$12,304	\$12,573	\$12,989	\$13,385	\$13,322	\$12,915	\$12,918
		. ,	. ,	. ,	. ,	. ,	,	. ,	. ,	. ,	. ,	. ,
	Education and related	\$10,805	\$10,379	\$9,863	\$9,829	\$9,875	\$10,216	\$10,609	\$10,812	\$10,518	\$9,676	\$9,550
	Research and related	\$64	\$102	\$87	\$64	\$89	\$111	\$82	\$70	\$109	\$91	\$97
Grouped	Public service and related	\$703	\$661	\$630	\$592	\$584	\$598	\$571	\$591	\$569	\$510	\$484
expense	Net scholarships and fellowships	\$1,710	\$1,401	\$1,242	\$1,152	\$1,058	\$979	\$944	\$1,031	\$1,188	\$1,645	\$1,766
categories	Education and general	\$12,987	\$12,220	\$11,457	\$11,300	\$11,255	\$11,542	\$11,882	\$12,173	\$12,016	\$11,577	\$11,560
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$922	\$1,189	\$1,030	\$1,110	\$1,102	\$1,087	\$1,171	\$1,270	\$1,370	\$1,392	\$1,422
	Total operating expenditures	\$13,822	\$13,328	\$12,423	\$12,354	\$12,304	\$12,573	\$12,989	\$13,385	\$13,322	\$12,915	\$12,918
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Note: Public institutions reported gross scholarships and fellowships prior to 2002, with some institutions reporting gross amounts through 2004.

Data may not sum to totals because expenditures were summed at the institution level before calculating aggregate category averages.

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

Figure S2, continued

Average Expenditures per FTE Student, FY 2001-FY 2011 (in 2011 dollars)

	Private research institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	- Instruction	\$16,942	\$17,915	\$18,509	\$18,720	\$19,203	\$19,111	\$19,957	\$20,052	\$20,505	\$20,114	\$20,103
	Research	\$9,613	\$10,552	\$11,283	\$11,736	\$12,080	\$11,819	\$11,733	\$11,675	\$11,861	\$12,201	\$12,617
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	Student services	\$2,706	\$2,859	\$2,868	\$2,902	\$3,029	\$3,165	\$3,284	\$3,346	\$3,493	\$3,489	\$3,511
	Public service	\$1,172	\$1,505	\$1,589	\$1,450	\$1,479	\$1,334	\$1,325	\$1,349	\$1,349	\$1,322	\$1,330
	Academic support	\$4,690	\$4,848	\$4,895	\$4,920	\$4,998	\$5,199	\$5,376	\$5,631	\$5,815	\$5,681	\$5,756
Standard	Institutional support	\$5,837	\$6,027	\$6,206	\$6,346	\$6,433	\$6,527	\$6,750	\$7,093	\$7,212	\$6,943	\$6,829
expense	Operations and maintenance	\$3,027		\$3,127	\$3,536	\$3,676	\$3,979	\$3,880	\$4,102	\$4,340	\$4,045	\$3,735
categories	•		\$3,210				. ,	- '			. ,	
	Net scholarships and fellowships	\$1,301	\$1,360	\$1,439	\$1,558	\$1,383	\$1,241	\$1,284	\$1,307	\$1,425	\$1,418	\$1,363
	Education and general	\$42,114	\$44,754	\$46,172	\$47,114	\$48,337	\$48,543	\$49,790	\$50,831	\$52,145	\$51,332	\$51,418
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$13,845	\$14,010	\$14,210	\$14,330	\$14,557	\$14,756	\$14,921	\$15,129	\$15,809	\$16,136	\$16,266
	Total operating expenditures	\$55,821	\$58,623	\$60,240	\$61,158	\$62,604	\$63,004	\$64,562	\$65.657	\$67,796	\$67,306	\$67,359
	Total operating expenditures	φυυ,οΖ Ι	φυο,020	φ00,240	φ01,130	φυ2,004	φ03,004	φ04,302	φ05,057	φ01,190	φ01,300	φ01,339
Γ	Education and related	\$29,387	\$30,802	\$31,396	\$31,731	\$32,637	\$33,084	\$34,457	\$35,256	\$36,200	\$35,336	\$35,059
	Research and related	\$13,852	\$15,006	\$15,885	\$16,438	\$16,873	\$16,852	\$16,672	\$16,947	\$17,349	\$17,674	\$18,102
Grouped	Public service and related	\$1,724	\$2,154	\$2,279	\$2,085	\$2,135	\$1,948	\$1,958	\$2,005	\$2,005	\$1,946	\$1,959
expense	Net scholarships and fellowships	\$1,301	\$1,360	\$1,439	\$1,558	\$1,383	\$1,241	\$1,284	\$1,307	\$1,425	\$1,418	\$1,363
categories												
oatogones	Education and general	\$42,114	\$44,754	\$46,172	\$47,114	\$48,337	\$48,543	\$49,790	\$50,831	\$52,145	\$51,332	\$51,418
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$13,845	\$14,010	\$14,210	\$14,330	\$14,557	\$14,756	\$14,921	\$15,129	\$15,809	\$16,136	\$16,266
L	Total operating expenditures	\$55,821	\$58,623	\$60,240	\$61,158	\$62,604	\$63,004	\$64,562	\$65,657	\$67,796	\$67,306	\$67,359
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	Deivota mantaria institutiona	2004	2002	2002	2004	2005	2006	2007	2000	2000	2010	2014
	Private master's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Γ	Instruction	\$6,707	\$6,930	\$6,974	\$7,053	\$7,100	\$7,142	\$7,290	\$7,245	\$7,425	\$7,377	\$7,439
	Research	\$567	\$604	\$631	\$623	\$597	\$522	\$515	\$503	\$481	\$514	\$481
	Student services	\$2,387	\$2,466	\$2,498	\$2,549	\$2,601	\$2,676	\$2,771	\$2,792	\$2,879	\$2,897	\$2,967
	Public service	\$586	\$754	\$659	\$620	\$558	\$533	\$529	\$524	\$521	\$491	\$503
Standard			\$1,641	\$1,649	\$1,699	\$1,705		\$1,734	\$1,746	\$1,771	\$1,736	\$1,769
expense	Academic support	\$1,587					\$1,694					
categories	Institutional support	\$3,566	\$3,704	\$3,765	\$3,783	\$3,838	\$3,816	\$3,953	\$3,951	\$4,036	\$3,929	\$3,913
catogonico	Operations and maintenance	\$1,391	\$1,407	\$1,440	\$1,484	\$1,497	\$1,511	\$1,518	\$1,564	\$1,556	\$1,473	\$1,445
	Net scholarships and fellowships	\$1,533	\$1,527	\$1,370	\$1,273	\$1,350	\$985	\$1,112	\$1,005	\$1,017	\$1,122	\$996
	Education and general	\$16,414	\$16,947	\$17,045	\$17,053	\$17,197	\$17,183	\$17,624	\$17,642	\$18,011	\$17,896	\$18,003
	Auxiliary enterprises, hospitals,	Ψ10,111	Ψ10,511	Ψ11,010	Ψ11,000	Ψ11,131	Ψ11,100	Ψ17,021	Ψ11,012	Ψ10,011	Ψ11,000	Ψ10,000
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	independent and other operations	\$3,373	\$3,484	\$3,245	\$3,221	\$3,149	\$3,202	\$3,202	\$3,284	\$3,383	\$3,193	\$3,203
_	Total operating expenditures	\$19,737	\$20,368	\$20,241	\$20,225	\$20,299	\$20,347	\$20,778	\$20,876	\$21,303	\$21,012	\$21,130
Г	Education and related	\$15,395	\$15,870	\$16,060	\$16,086	\$16,282	\$16,420	\$16,861	\$16,909	\$17,290	\$17,161	\$17,299
	Research and related	\$899	\$937	\$979	\$969	\$948	\$841	\$814	\$809	\$781	\$817	\$772
Grouped	Public service and related	\$977	\$1,221	\$1,080	\$1,013	\$925	\$892	\$895	\$875	\$874	\$835	\$844
expense	Net scholarships and fellowships	\$1,533	\$1,527	\$1,370	\$1,273	\$1,350	\$985	\$1,112	\$1,005	\$1,017	\$1,122	\$996
categories	Education and general	\$16,414	\$16,947	\$17,045	\$17,053	\$17,197	\$17,183	\$17,624	\$17,642	\$18,011	\$17,896	\$18,003
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$3,373	\$3,484	\$3,245	\$3,221	\$3,149	\$3,202	\$3,202	\$3,284	\$3,383	\$3,193	\$3,203
L	Total operating expenditures							- ' '			- ' '	
	Total operating expenditures	\$19,737	\$20,368	\$20,241	\$20,225	\$20,299	\$20,347	\$20,778	\$20,876	\$21,303	\$21,012	\$21,130
	Private bachelor's institutions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Г	Instruction	\$8,098	\$8,034	\$8,213	\$8,339	\$8,378	\$8,368	\$8,539	\$8,671	\$8,784	\$8,588	\$8,547
	Research	\$919	\$975	\$851	\$877	\$899	\$866	\$844	\$809	\$807	\$823	\$807
	Student services	\$3,340	\$3,355	\$3,498	\$3,559	\$3.639	\$3,754	\$3.900	\$3.982	\$4.092	\$3.997	\$4,052
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	Public service	\$687	\$716	\$800	\$707	\$647	\$625	\$643	\$584	\$602	\$598	\$629
Standard	Academic support	\$1,996	\$2,007	\$2,014	\$2,058	\$2,056	\$2,084	\$2,132	\$2,148	\$2,205	\$2,150	\$2,120
expense	Institutional support	\$5,360	\$5,154	\$5,093	\$5,139	\$5,068	\$5,171	\$5,292	\$5,366	\$5,421	\$5,208	\$5,152
categories	Operations and maintenance	\$2,012	\$2,008	\$2,013	\$2,211	\$2,239	\$2,265	\$2,344	\$2,367	\$2,352	\$2,167	\$2,201
3	Net scholarships and fellowships	\$3,424	\$3,065	\$2,785	\$2,832	\$2,832	\$1,779	\$1,659	\$1,622	\$1,818	\$1,742	\$1,527
	Education and general	\$22,356		\$22,073	\$22,198		\$22,112	\$22,614		\$23,307		
		φ22,300	\$21,945	φ22,013	ΦΖΖ, 190	\$22,197	φ ΖΖ , ΓΙΖ	φ22,014	\$22,924	Φ23,301	\$22,760	\$22,705
	Auxiliary enterprises, hospitals,											
	independent and other operations	\$5,634	\$5,424	\$5,252	\$5,318	\$5,268	\$5,446	\$5,465	\$5,504	\$5,409	\$5,173	\$5,138
	Total operating expenditures	\$27,916	\$27,309	\$27,245	\$27,435	\$27,363	\$27,451	\$27,972	\$28,332	\$28,634	\$27,877	\$27,798
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г	Education and related	\$20,450	\$20,190	\$20,443	\$20 527	\$20,654	\$20.042	\$21,484	\$21 000	\$22.222	\$21.707	\$21,677
		. ,			\$20,527		\$20,912		\$21,882	\$22,232	\$21,707	
	Research and related	\$1,489	\$1,555	\$1,412	\$1,469	\$1,491	\$1,443	\$1,428	\$1,360	\$1,366	\$1,379	\$1,383
Grouped	Public service and related	\$1,235	\$1,284	\$1,382	\$1,202	\$1,096	\$1,055	\$1,075	\$974	\$1,015	\$1,001	\$1,066
expense	Net scholarships and fellowships	\$3,424	\$3,065	\$2,785	\$2,832	\$2,832	\$1,779	\$1,659	\$1,622	\$1,818	\$1,742	\$1,527
categories	Education and general	\$22,356	\$21,945	\$22,073	\$22,198	\$22,197	\$22,112	\$22,614	\$22,924	\$23,307	\$22,760	\$22,705
	Auxiliary enterprises, hospitals,	+,000	+= .,0 10	+,010	+,100	+, 101	+,	+,017	+,0-1	+==,001	+,,,,,,,	+,,,,,,,
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	independent and other operations	\$5,634	\$5,424	\$5,252	\$5,318	\$5,268	\$5,446	\$5,465	\$5,504	\$5,409	\$5,173	\$5,138
	Total operating expenditures	\$27,916	\$27,309	\$27,245	\$27,435	\$27,363	\$27,451	\$27,972	\$28,332	\$28,634	\$27,877	\$27,798

Note: Public institutions reported gross scholarships and fellowships prior to 2002, with some institutions reporting gross amounts through 2004. Data may not sum to totals because expenditures were summed at the institution level before calculating aggregate category averages.

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 and Finance FY2011 surveys (11-year matched set).

Figure S3
Fall FTE Enrollment, FY 2001–FY 2011

	2001	2006	2010	2011	10-year change	1-year change
Public research	3,113,987	3,463,496	3,756,635	3,842,189	23.4%	2.3%
Public master's	1,732,573	1,957,235	2,140,314	2,174,590	25.5%	1.6%
Public bachelor's	207,703	240,899	273,489	286,506	37.9%	4.8%
Community colleges	3,017,667	3,513,551	4,273,255	4,420,199	46.5%	3.4%
Private research	838,742	933,109	992,470	1,017,831	21.4%	2.6%
Private master's	862,639	1,021,111	1,117,879	1,152,952	33.7%	3.1%
Private bachelor's	576,248	631,908	670,656	683,891	18.7%	2.0%

Sources. IPEDS Analytics: Delta Cost Project Database 1987-2010, IPEDS Fall Enrollment 2010 (11-year matched set).



About the Delta Cost Project

The Delta Cost Project at American Institutes for Research provides data and tools to help higher education administrators and policymakers improve college affordability by controlling institutional costs and increasing productivity. The work is animated by the belief that college costs can be contained without sacrificing access or educational quality through better use of data to inform strategic decision making. For more information about the Delta Cost Project, visit www.deltacostproject.org.

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