

NEJHE's Trends & Indicators in Higher Education, 2008

N EJHE's Trends & Indicators in Higher Education features 64 tables and charts exploring New England's demography, high school performance and graduation, college enrollment, college graduation rates and degree production, higher education financing and university research.

The figures presented are organized to correspond with the four goals of the New England Board of Higher Education's *College Ready New England* initiative. They are:

High School Success *Increasing the number of high school graduates and GED recipients in New England;*

College Readiness *Increasing the number of high school graduates prepared for college and career success;*

College Access *Increasing the number of people enrolling in college; and*

College Success *Increasing the number of college graduates.*

Some highlights from Trends & Indicators in Higher Education, 2008:

- Since 1990, New England's population has grown by just 8 percent, compared with more than 56 percent for the Mountain states and 21 percent for the nation as a whole.

- Four of the six New England states appear in the bottom five nationally in terms of growth of the 25 to 34 year old population.

- 76 percent of New England 9th-graders graduate from high school in the normal four years time compared with 56 percent nationally. Of those high school graduates, 83 percent enroll in college the following fall.

- Fewer than half of New England students who finish high school have completed the necessary courses and mastered the skills to be considered "college ready." However, the New England states perform above the national norm on most indicators of college readiness.

- About 80 percent of first-time freshmen from New England stay in the region and enroll in a New England college or university.

- Most college-bound high school seniors in New England name "Business and Commerce" as their intended college major followed closely by "Health and Allied Services."

- New England's colleges and universities enrolled 886,000 in 2006, but the region's once disproportionate share of total U.S. enrollment stayed at just 5 percent.

- Half of New England college students attend private institutions compared with less than one quarter nationally.

- Women students outnumber men on New England college and university campuses by more than 136,000.

- More than 44,000 foreign students are enrolled on New England campuses comprising 7.6 percent of the national total.

- Less than 20 percent of students graduate from New England community colleges within three years of enrolling—and substantial gaps exist among racial and ethnic groups.

- Three in 10 doctorates awarded by New England universities go to foreign students, while just one in 10 go to U.S. minority students.

- Nearly 60 percent of all higher education degrees awarded in New England are awarded to women.

- Total yearly charges for resident students, including room and board, top \$40,000 at New England's private four-year institutions and \$20,000 at the region's public institutions—far above national figures.

- Americans pay an average of \$257 each in annual state taxes to support public higher education and student aid in their states. New Englanders, however, pay just \$190.

- More than 60 percent of family income is required to cover college costs at New England private colleges and universities. In some of the region's states, that figure exceeds 80 percent.

- New England universities performed \$3.6 billion worth of research and development in 2006, and the region's share of all U.S. university R&D was level with 2004 at 7.6 percent.

The data presented on the following pages are collected and analyzed annually by the New England Board of Higher Education. The data are drawn from a variety of sources, including the U.S. Department of Education, the National Science Foundation, the College Board, the National Center for Higher Education Management Systems, and NEBHE's own Annual Survey of New England Colleges and Universities.

Data compiled by former NEBHE research analyst Sue Klemer, now with North Shore Community College's Department of Planning and Research.



An Index of Figures appears on page 38.

INDEX OF FIGURES

DEMOGRAPHY

- Fig. 1: Change in Population, 1990 to 2007, New England States and Other Regions
- Fig. 2: Population of New England by Race, 2006
- Fig. 3: Change in Population Ages 25 to 34, 1990 to 2006, Top Five and Bottom Five States
- Fig. 4: Racial Composition of Northern and Southern New England, 2006
- Fig. 5: Growth in the Number of Persons Obtaining Legal Permanent Resident Status in New England, 1997 to 2006

HIGH SCHOOL SUCCESS

- Fig. 6: Public High School Graduates in New England, Projected 2000 to 2016
- Fig. 7: New England Public High School Graduates by Race, Projected 2007 to 2018
- Fig. 8: Public High School Graduation Rates, 2004-05
- Fig. 9: New England High School Graduation Rates by Race/Ethnicity and Gender, 2003-04
- Fig. 10: High School Graduation Rates by OECD Country, 2004
- Fig. 11: Education Pipeline: High School Graduation, College Participation and Success, 2004

COLLEGE READINESS

- Fig. 12: Indicators of College Readiness: A State-by-State Comparison

COLLEGE ACCESS

- Fig. 13: Percent of High School Graduates Enrolling in College the Fall after Graduating High School, 2006
- Fig. 14: Stock and Flow of College Educated Human Capital in New England, 1989 and 2001
- Fig. 15: Migration of First-Time Freshmen to and from New England, 2006
- Fig. 16: Intended College Majors of College-Bound Seniors in New England, 2007
- Fig. 17: Total Enrollment at New England Colleges and Universities and New England's Share of U.S. Enrollment, 1996 to 2006
- Fig. 18: Higher Education Enrollment in New England by Type of Institution and Full-Time Status, 2006
- Fig. 19: Distribution of Higher Education Enrollment, Public vs. Private, 2006
- Fig. 20: Public vs. Private College Enrollment in New England, 1996 to 2006
- Fig. 21: Undergraduate vs. Graduate Enrollment in New England, 1996 to 2006
- Fig. 22: Full-Time vs. Part-Time College Enrollment in New England, 1996 to 2006
- Fig. 23: Total Higher Education Enrollment by Gender in New England, 1976 to 2006
- Fig. 24: New England Institutions with the Largest Undergraduate Enrollments, Fall 2006
- Fig. 25: New England Cities with the Largest Total College Enrollments, 2006
- Fig. 26: Enrollment at New England Colleges and Universities by Race/Ethnicity, 2006
- Fig. 27: Minority Enrollment by State and Race/Ethnicity, 1996 and 2006
- Fig. 28: Public vs. Private College Enrollment in New England by Race/Ethnicity, 2006
- Fig. 29: Foreign Enrollment at New England Colleges and Universities and Share of U.S. Foreign Enrollment, 1980 to 2007
- Fig. 30: Foreign Students in New England by Countries of Origin and Fields of Study, 2007
- Fig. 31: Estimated Economic Impact from International Students, 2006-07
- Fig. 32: New England Institutions Enrolling More than 1,000 Foreign Students, 2007
- Fig. 33: New England Institutions with More than 10% of Undergraduates Studying Abroad, 2006

COLLEGE SUCCESS

- Fig. 34: Graduation Rates by State, Race/Ethnicity and Type of Institution, 2006

- Fig. 35: Graduation and Transfer Rates by State and Type of Institution, 2006
- Fig. 36: Total Degrees Awarded at New England's Colleges and Universities and New England's Share of U.S. Degrees, 1996 to 2006
- Fig. 37: Degrees Awarded in New England by Gender, 1973 to 2006
- Fig. 38: Attainment of Tertiary-Type A and Advanced Research Degrees by 25-34-year-olds by Country, 2004
- Fig. 39: Associate Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006
- Fig. 40: Associate Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006
- Fig. 41: Bachelor's Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006
- Fig. 42: Bachelor's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006
- Fig. 43: Master's Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006
- Fig. 44: Master's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006
- Fig. 45: First-Professional Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006
- Fig. 46: First-Professional Degrees Awarded at New England Colleges and Universities by Fields of Study, 1971 to 2006
- Fig. 47: Doctorates Awarded to Men, Women, Minorities and Foreign Students, 2006
- Fig. 48: Doctorates Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006

FINANCING HIGHER EDUCATION

- Fig. 49: Average Student Expenses, New England vs. United States, Academic Year 2007-08
- Fig. 50: Tuition and Fees, Academic Years 2006-07 to 2007-08 with Percent Change
- Fig. 51: Appropriations of State Tax Funds for Higher Education Operating Expenses, Fiscal 2008
- Fig. 52: Undergraduate and Graduate Student Aid by Source, 2006-07
- Fig. 53: Federal Student Financial Aid Programs, Total Expenditures or Allocations and Number of Recipients
- Fig. 54: Total Grant Aid Awarded by State, 1995-96, 2000-01, 2004-05, 2005-06
- Fig. 55: State Need-Based Aid as a Percent of Federal Pell Grant Aid, 2006
- Fig. 56: Percent of Family Income Needed to Pay for College by Income Groups, 2006
- Fig. 57: Average Amounts of Federal and Private Loans Borrowed by Full-Time Dependent Undergraduate Students, 1993 to 2004
- Fig. 58: Average Student Debt and Percent of Students with Debt by State, Class of 2006
- Fig. 59: New England's 10 Largest College Endowments, Fiscal 2007

UNIVERSITY RESEARCH

- Fig. 60: Research and Development Expenditures at New England's Universities and Colleges and New England's Share of U.S. R&D Expenditures, 2001 to 2006
- Fig. 61: Regional Comparison of Research and Development Expenditures at Universities and Colleges, 2001 and 2006
- Fig. 62: Research and Development Expenditures at New England Universities and Colleges by Field, 2006
- Fig. 63: Research and Development Expenditures at New England Universities and Colleges by Source of Funds, 2001 to 2006
- Fig. 64: Research and Development Expenditures at New England Colleges and Universities by U.S. Rank and Source of Funds, 2006

Since 1990, New England's population has grown by just 8 percent compared with more than 56 percent for the Mountain states and 21 percent for the nation as a whole. All six New England states are among the bottom 10 nationally in growth of 25-34-year olds. New England continues to see greater racial/ethnic diversity in its southern tier.

Fig. 1: Change in Population, 1990 to 2007, New England States and Other Regions

	1990	2000	2003	2004	2005	2006	2007	% Change 1990 to 2007	% Change 2006 to 2007
Connecticut	3,287,116	3,411,990	3,472,964	3,481,890	3,486,490	3,495,753	3,502,309	7%	-0.2%
Maine	1,227,928	1,277,225	1,303,441	1,308,892	1,312,222	1,314,910	1,317,207	7	0.2
Massachusetts	6,016,425	6,363,190	6,438,510	6,433,676	6,429,137	6,434,389	6,449,755	7	0.2
New Hampshire	1,109,252	1,240,442	1,282,844	1,294,285	1,303,112	1,311,821	1,315,828	19	0.3
Rhode Island	1,003,464	1,050,807	1,072,629	1,072,859	1,066,721	1,061,641	1,057,832	5	-0.4
Vermont	562,758	609,909	617,101	618,794	619,736	620,778	621,254	10	0.1
New England	13,206,943	13,953,563	14,187,489	14,210,396	14,217,418	14,239,292	14,264,185	8	0.2
Middle Atlantic	37,602,286	39,714,086	40,139,892	40,248,332	40,287,266	40,350,880	40,416,441	7	0.2
East North Central	42,008,942	45,224,913	45,796,229	45,964,643	46,084,860	46,218,183	46,338,216	10	0.3
West North Central	17,659,690	19,271,732	19,551,070	19,662,113	19,768,987	19,910,300	20,050,579	14	0.7
South Atlantic	43,566,853	51,964,860	54,328,359	55,217,414	56,136,808	57,088,309	57,860,260	33	1.4
East South Central	15,176,284	17,052,775	17,323,854	17,447,322	17,600,392	17,768,709	17,944,829	18	1.0
West South Central	26,702,793	31,550,342	32,779,595	33,202,227	33,647,747	34,037,564	34,649,697	30	1.8
Mountain	13,658,776	18,276,190	19,397,087	19,828,344	20,324,318	20,869,631	21,360,990	56	2.4
Pacific	39,127,306	45,185,847	46,944,069	47,410,720	47,828,101	48,271,951	48,735,960	25	1.0
United States	248,709,873	282,194,308	290,447,644	293,191,511	295,895,897	298,754,819	301,621,157	21%	1.0%

Note: Middle Atlantic includes New Jersey, New York, Pennsylvania. East North Central includes Ohio, Illinois, Indiana, Michigan, Wisconsin. West North Central includes Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas. South Atlantic includes Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida. East South Central includes Kentucky, Tennessee, Alabama, Mississippi. West South Central includes Arkansas, Louisiana, Oklahoma, Texas. Mountain includes Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada. Pacific includes Washington, Oregon, California, Alaska, Hawaii.

Source: New England Board of Higher Education analysis of U.S. Census Bureau data; www.census.gov.

Fig. 2: Population of New England by Race, 2006

	White alone	Black or African-American alone	American Indian and Alaska Native alone	Asian-American alone	Native Hawaiian and Other Pacific Islander alone	Two or more races	Total
Connecticut	2,966,187	358,210	12,497	117,986	2,597	47,332	3,504,809
Maine	1,278,398	10,918	7,582	11,490	433	12,753	1,321,574
Massachusetts	5,568,643	446,721	19,044	313,942	5,126	83,717	6,437,193
New Hampshire	1,259,738	13,905	3,458	24,389	514	12,891	1,314,895
Rhode Island	947,030	67,328	6,574	29,177	1,287	16,214	1,067,610
Vermont	603,345	4,329	2,386	6,847	172	6,829	623,908
New England	12,623,341	901,411	51,541	503,831	10,129	179,736	14,269,989
United States	239,746,254	38,342,549	2,902,851	13,159,343	528,818	4,718,669	299,398,484

Note: The above categories reflect the U.S. Census Bureau Guidance on the Presentation and Comparison of Race and Hispanic Origin. For additional information, see www.census.gov

Source: New England Board of Higher Education analysis of U.S. Census Bureau data; www.census.gov.

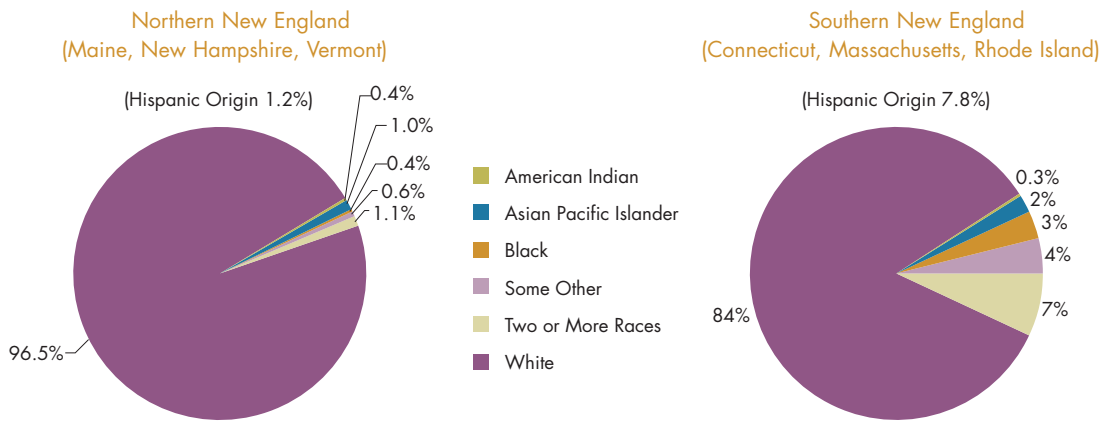
DEMOGRAPHY, *continued*

Fig. 3: Change in Population Ages 25 to 34, 1990 to 2006, Top Five and Bottom Five States

Rank	State	1990	2006	1990-2006 Percentage Change
1st	Nevada	222,027	372,343	68%
2nd	Utah	274,898	406,703	48
3rd	Arizona	634,899	899,531	42
4th	Idaho	152,800	199,904	31
5th	Colorado	611,849	711,501	61
	United States	43,175,932	39,905,599	-8%
46th	Massachusetts	1,105,544	817,050	-26
47th	Maine	205,235	151,992	-26
48th	Vermont	95,257	70,002	-27
49th	North Dakota	105,010	74,205	-29
50th	Connecticut	583,882	407,930	-30%

Source: New England Board of Higher Education analysis of U.S. Census Bureau data; www.census.gov.

Fig. 4: Racial Composition of Northern and Southern New England, 2006



Source: New England Board of Higher Education analysis of U.S. Census Bureau data; www.census.gov.

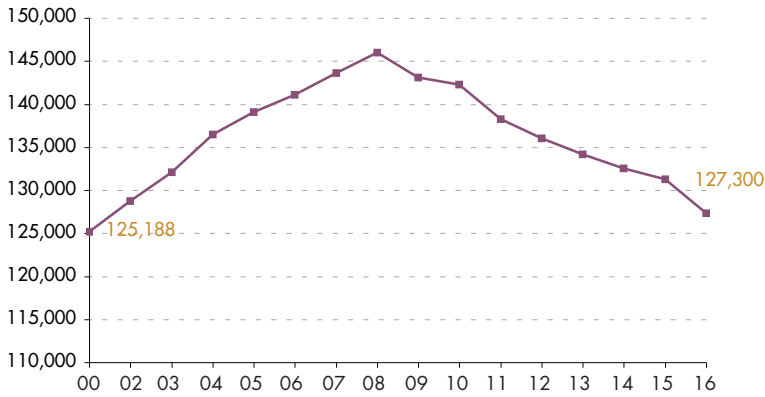
Fig. 5: Growth in the Number of Persons Obtaining Legal Permanent Resident Status in New England, 1997 to 2006



Source: New England Board of Higher Education Analysis of U.S. Department of Homeland Security Data.

High school graduating classes will continue to shrink forcing the region's colleges and universities to adjust. High school graduation rates for minority students still lag behind while women graduate at higher rates than their male counterparts.

Fig. 6: Public High School Graduates in New England, Projected 2000 to 2016



Note: 2001 to 2005 represents actual data.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 7: New England Public High School Graduates by Race, Projected 2007 to 2018

	2006-07	2017-18	Projected % Change
Connecticut			
American Indian	103	159	54%
Asian	1,271	2,858	125%
Hispanic	3,885	5,166	33%
African-American	4,355	4,067	-7%
White	26,511	22,422	-15%
Maine			
American Indian	66	94	42%
Asian	155	259	67%
Hispanic	114	202	77%
African-American	241	540	124%
White	12,310	9,841	-20%
Massachusetts			
American Indian	219	490	124%
Asian	3,260	5,074	56%
Hispanic	5,042	5,948	18%
African-American	5,057	4,614	-9%
White	46,978	40,093	-15%
New Hampshire			
American Indian	29	61	110%
Asian	213	874	310%
Hispanic	315	912	190%
African-American	152	378	149%
White	11,886	9,902	-17%
Rhode Island			
American Indian	51	120	135%
Asian	299	335	12%
Hispanic	1,513	2,713	79%
African-American	944	1,240	31%
White	7,240	5,828	-20%
Vermont			
American Indian	33	24	-27%
Asian	114	213	87%
Hispanic	88	873	892%
African-American	43	47	9%
White	6,339	4,786	-25%

Source: New England Board of Higher Education analysis of Western Interstate Commission for Higher Education (WICHE) data.

HIGH SCHOOL SUCCESS, *continued***Fig. 8: Public High School Graduation Rates, 2004-05**

	Fall 2001 9th-Graders	2004-05 High School Graduates	Percent Graduating within Four Years
Connecticut	46,621	35,515	76%
Maine	16,689	13,073	78
Massachusetts	80,394	59,665	74
New Hampshire	17,646	13,771	78
Rhode Island	13,538	9,881	73
Vermont	8,595	7,152	83
New England	183,483	139,057	76
United States	4,012,333	2,760,672	56%

Source: National Center for Higher Education Management Systems (NCHEMS); www.higheredinfo.org.

Fig. 9: New England High School Graduation Rates by Race/Ethnicity and Gender, 2003-04

	All Students	Male	Female	Native American	Asian American	Hispanic	African-American	White
Connecticut	79.8%	75.9%	82.9%	NA	79.3%	53.6%	63.5%	85.5%
Maine	76.2	73.4	77.4	29.9	57.2	NA	NA	76.1
Massachusetts	73.2	69.8	76.4	32.5	75.8	44	56.6	79.4
New Hampshire	76.0	NA	NA	NA	NA	NA	NA	NA
Rhode Island	70.6	66.0	74.8	28.3	53.7	54.4	57.2	74.3
Vermont	81.0	71.0	76.6	NA	77.7	NA	NA	80.9
United States	69.9%	66.0%	73.6%	49.3%	80.2%	57.8%	53.4%	76.2%

Source: New England Board of Higher Education analysis of Editorial Projects in Education (EPE) Research Center data, *Diplomas Count* 2007.

Fig. 10 : High School Graduation Rates by OECD Country, 2004

	Percentage with a High School Credential
Norway	100%
Germany	99
South Korea	96
Ireland	92
Japan	91
Denmark	90
Finland	90
Switzerland	89
Czech Republic	87
Hungary	86
Iceland	84
Slovak Republic	83
France	81
Italy	81
OECD average	81
Poland	79
New Zealand	75
Sweden	75
United States	75
Luxembourg	69
Spain	66
Turkey	53
Mexico	38%

Notes: High School graduation rate is percentage of population at typical upper secondary graduation age (e.g., 18 years old in United States) completing upper secondary education programs. OECD average based on all OECD countries with available data.

Source: Organisation for Economic Co-operation and Development (OECD), *Education at a Glance*; OECD Indicators 2006.

Fig. 11: Education Pipeline: High School Graduation, College Participation and Success, 2004

	For every 100 public high school 9th graders...			
	Graduate from High School	Enter College the Following Fall	Return to the Same College for Sophomore Year	Graduate College within 150% Time
Connecticut	76	46	35	24
Maine	77	38	28	20
Massachusetts	75	47	36	26
New Hampshire	76	42	31	24
Rhode Island	72	40	29	20
Vermont	83	36	28	22
United States	69	39	27	18

Note: 150% percent of time means that students attending four-year institutions graduate within six years and students attending two-year institutions graduate within three years.

Source: National Center for Higher Education Management Systems analysis of US Department of Education data.

State-by-state indicators of college readiness include: children living in poverty, preschool funding and attendance, K-12 course taking, student-teacher ratios, NAEP and SAT performance, AP scores, high school graduation and college enrollment. On most indicators all six New England states perform above the national norm.

Fig. 12: Indicators of College Readiness: A State-by-State Comparison

	Conn.	Maine	Mass.	N.H.	R.I.	Vt.	New England	United States
Percentage of Children in Poverty, 2007	11%	18%	12%	10%	15%	13%	NA	18%
Children in households where the household head is a high school dropout, 2006	10%	7%	10%	6%	16%	9%	NA	16%
State Preschool Programs, 2006								
Percent of 3- and 4-year-olds enrolled	17%	16%	19%	NA	NA	61%	NA	23%
State spending per child enrolled	\$7,101	\$1,793	\$3,619	NA	NA	\$2,439	NA	\$3,482
NAEP Achievement Levels, 2007								
4th Grade Math	45%	42%	58%	52%	34%	49%	NA	39%
4th Grade Reading	41%	36%	49%	41%	31%	41%	NA	32%
8th Grade Math	35%	34%	51%	38%	28%	41%	NA	31%
8th Grade Reading	37%	37%	43%	37%	27%	42%	NA	29%
8th Grade Writing, 2002	45%	36%	42%	NA	29%	41%	NA	NA
Expenditures per Student in Public K-12 Schools, 2006	\$13,914	\$12,358	\$13,981	\$11,205	\$11,609	\$13,995	NA	\$10,643
Student-Teacher Ratios in Public K-12 Schools, 2006	14.5	11.7	13.2	13.2	10.7	10.9	NA	15.7
% of 2006 Graduating Class who scored 3 (out of 5) or higher on an AP Exam at some point in H.S. career	19.4%	14.4%	19.8%	13.6%	8.4%	16.3%	NA	14.8%
PSAT Participation, 2007								
Percent of 11th Graders Taking PSAT	88%	97%	84%	72%	NA	66%	87%	47%
Percent of 10th Graders Taking PSAT	65%	NA	55%	41%	NA	19%	64%	43%
SAT Performance, 2007								
Participation Rate	84%	100%	85%	83%	68%	67%	NA	48%
Mean Critical Reading Scores	510	466	513	521	496	516	NA	502
Mean Math Scores	512	465	522	521	498	518	NA	515
Mean Writing Scores	511	457	511	512	492	508	NA	494
Percent of Seniors with College-Ready Transcripts	40%	42%	41%	40%	40%	45%	NA	36%
High School Graduation Rate, 2005	76%	78%	74%	78%	73%	83%	76%	69%
Percentage of High School Graduates entering College the Fall after Graduation, 2005	86%	76%	88%	77%	68%	62%	83%	70%

Notes: For Maine, preschool data refer to 4 year olds only; New Hampshire and Rhode Island have no distinct state preschool programs. NAEP Achievement Levels represent the percent of students that scored proficient on the National Assessment of Educational Progress or NAEP exams. In order to have a "College-Ready Transcript" students must have taken at least four years of English, three years of math, and two years of natural science, social science and foreign language before graduating from high school.

Sources: U.S. Census Bureau, www.census.gov; National Institute for Early Education Research; Editorial Projects in Education Research Center; The College Board, www.collegeboard.com; The National Center for Public Policy and Higher Education; Kids Count, Annie Casey Foundation; National Education Association.

COLLEGE ACCESS

Fig. 13: Percent of High School Graduates Enrolling in College the Fall after Graduating High School, 2006

	High School Graduates 2006	First-Time Freshmen Enrolled Directly from High School Anywhere in the U.S. Fall 2006	Percent of High School Graduates Going Directly to College
Connecticut	35,515	30,370	86%
Maine	13,077	9,988	76
Massachusetts	59,665	52,647	88
New Hampshire	13,775	10,628	77
Rhode Island	9,881	6,762	68
Vermont	7,152	4,426	62
New England	139,065	114,821	83
United States	2,799,250	1,951,054	70%

Source: New England Board of Higher Education analysis of National Center for Education Statistics data; www.nces.ed.gov.

Fig. 14: Stock and Flow of College Educated Human Capital in New England, 1989 and 2001

State	March 1989 Stock			March 2001 Stock			Increase in Stock between 1989 & 2001	Production Additions to Stock	Net Migration: Stock Increase less Production 1989 to 2001
	Pop. Age 25 & over	Bachelor's or More	Population with Bachelor's Degrees	Pop. Age 25 & over	Bachelor's or More	Population with Bachelor's Degrees			
Connecticut	2,145,000	27.5%	589,875	2,281,000	32.4%	739,044	149,169	172,724	(23,555)
Maine	789,000	18.5%	145,965	867,000	22.2%	192,474	46,509	66,823	(20,314)
Massachusetts	3,839,000	28.1%	1,078,759	4,283,000	32.5%	1,391,975	313,216	506,336	(193,120)
New Hampshire	705,000	23.5%	165,675	837,000	31.6%	264,492	98,817	88,783	10,034
Rhode Island	643,000	20.2%	129,886	697,000	27.4%	190,978	61,092	105,178	(44,086)
Vermont	342,000	26.7%	91,314	409,000	29.0%	118,610	27,296	54,607	(27,311)
New England	8,463,000	26.0%	2,201,474	9,374,000	30.9%	2,897,573	696,099	994,451	(298,352)
United States	154,162,000	21.1%	32,553,042	180,386	26.2%	47,234,518	14,681,476	13,723,402	958,074

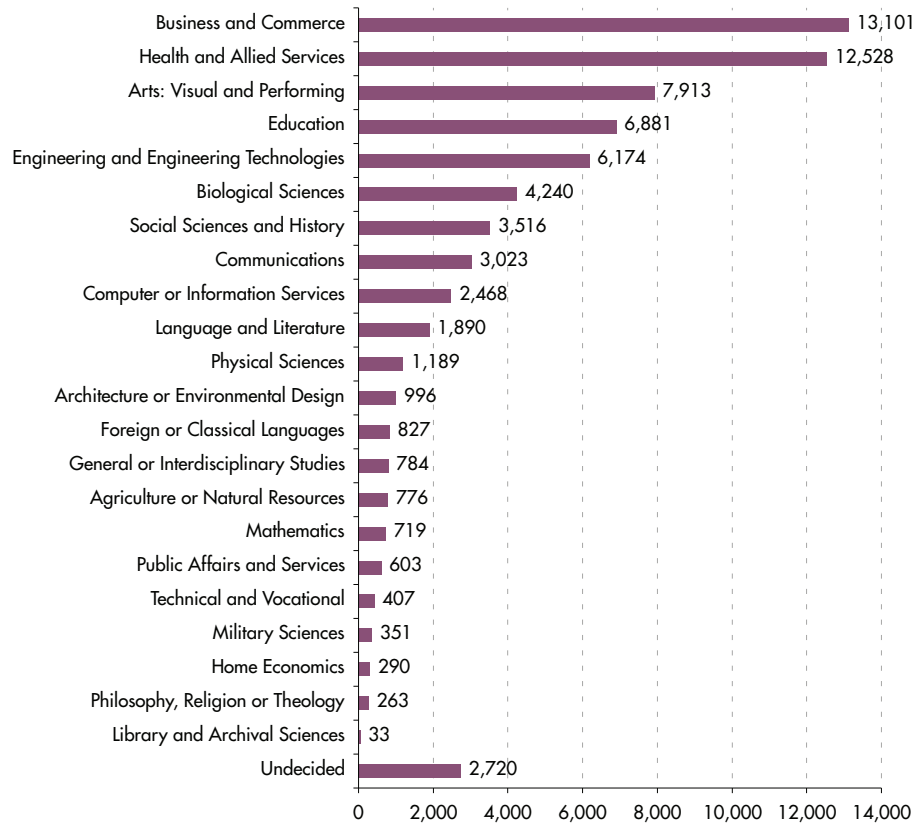
Note: Stock and flow measures net migration into and out of a state.

Source: New England Board of Higher Education analysis of Postsecondary Education Opportunity data; www.postsecondary.org.

Fig. 15: Migration of First-Time Freshmen to and from New England, 2006

State of Origin	Total Freshmen from State	Destination State						Total Enrolling in New England
		Conn.	Maine	Mass.	N.H.	R.I.	Vt.	
Connecticut	30,370	15,554	285	3,409	763	1,356	545	21,912
Maine	9,988	151	6,399	961	476	177	242	8,406
Massachusetts	52,647	1,734	834	34,474	2,401	2,707	1,056	43,206
New Hampshire	10,628	248	422	1,676	5,470	330	374	8,520
Rhode Island	6,762	222	66	937	242	3,877	96	5,440
Vermont	4,426	74	167	486	298	96	1,898	3,019
New England	114,821	17,983	8,173	41,943	9,650	8,543	4,211	90,503

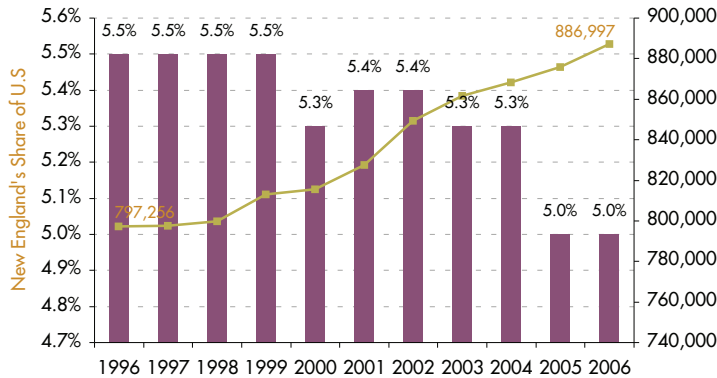
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 16: Intended College Majors of College-Bound Seniors in New England, 2007

Source: The College Board; www.collegeboard.com.

New England college and university enrollment reached 886,997 in 2006, and represents 5 percent of all U.S. higher education enrollment. Students attending college in New England are more likely to be attending full-time and women outnumber men on New England campuses by more than 136,000.

Fig. 17: Total Enrollment at New England Colleges and Universities and New England's Share of U.S. Enrollment, 1996 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

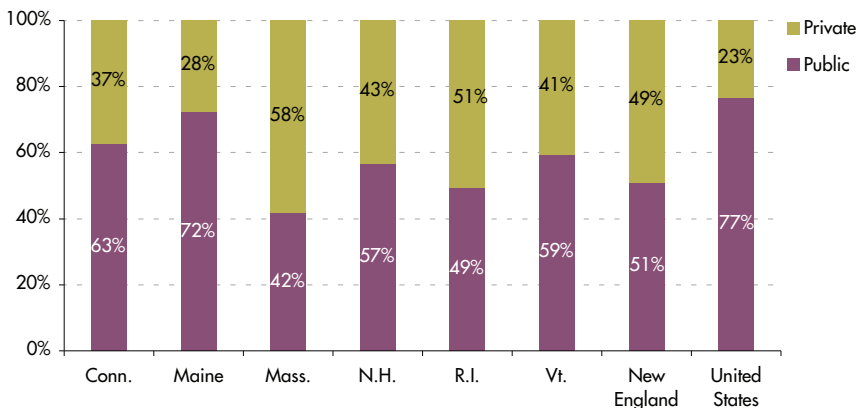
Fig. 18: Higher Education Enrollment in New England by Type of Institution and Full-Time Status, 2006

	All Institutions			Public Institutions			Private Institutions		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
Connecticut	176,977	113,567	63,410	110,765	64,171	46,594	66,212	49,396	16,816
Maine	66,149	41,316	24,833	47,770	27,623	20,147	18,379	13,693	4,686
Massachusetts	450,309	309,738	140,571	187,925	107,062	80,863	262,384	202,676	59,708
New Hampshire	70,669	48,343	22,326	39,977	25,846	14,131	30,692	22,497	8,195
Rhode Island	81,798	59,836	21,962	40,374	23,456	16,918	41,424	36,380	5,044
Vermont	41,095	30,296	10,799	24,385	16,030	8,355	16,710	14,266	2,444
New England	886,997	603,096	283,901	451,196	264,188	187,008	435,801	338,908	96,893
United States	17,664,000	10,706,000	6,957,000	13,518,000	NA	NA	4,146,000	NA	NA
New England as a % of United States	5.0	5.6	4.1	3.3	NA	NA	10.5	NA	NA

Note: U.S. totals are projected by the U.S. Department of Education. Full-time and part-time breakdowns for public and private institutions were not available.

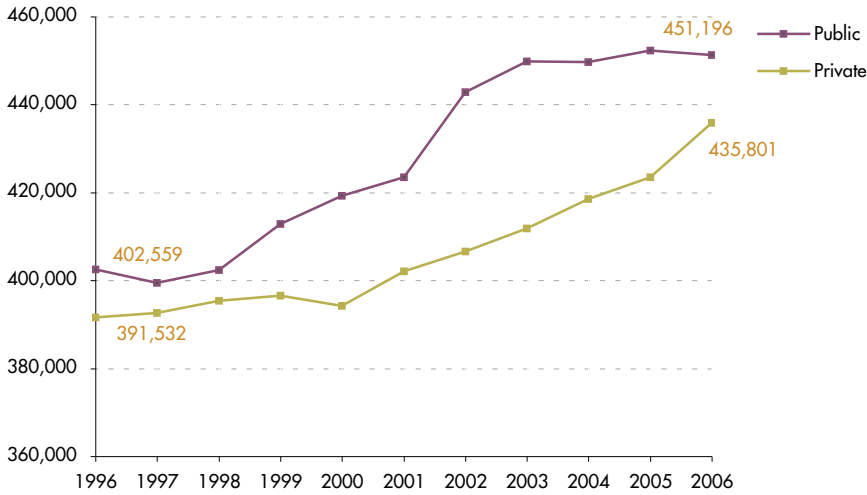
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 19: Distribution of Higher Education Enrollment, Public vs. Private, 2006



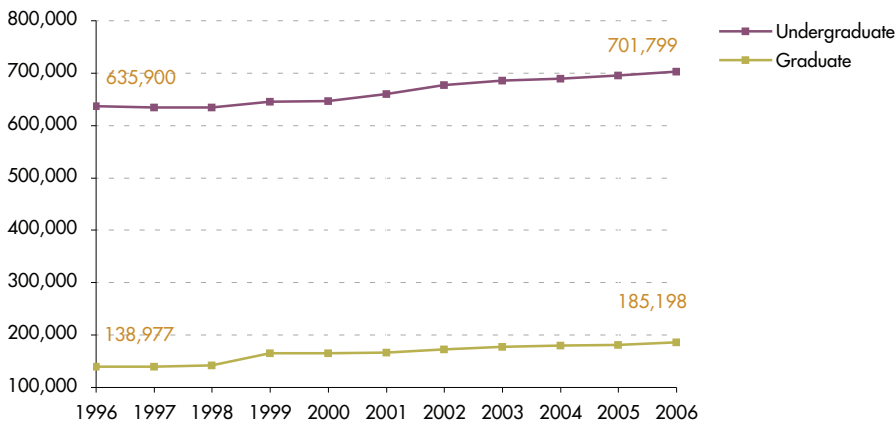
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 20: Public vs. Private College Enrollment in New England, 1996 to 2006



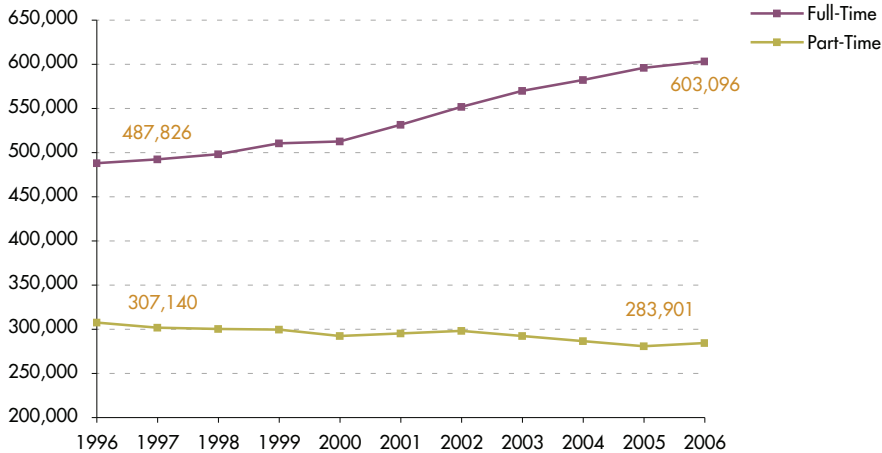
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 21: Undergraduate vs. Graduate Enrollment in New England, 1996 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

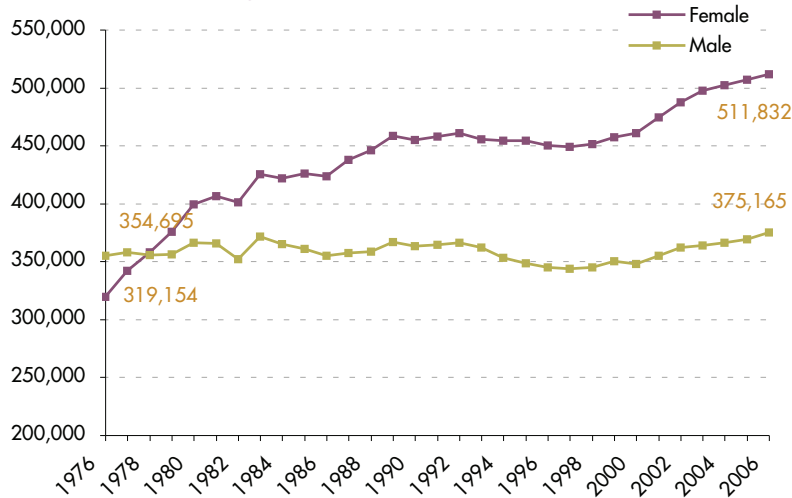
Fig. 22: Full-Time vs. Part-Time College Enrollment in New England, 1996 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

COLLEGE ACCESS, *continued*

Fig. 23: Total Higher Education Enrollment by Gender in New England, 1976 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 24: New England Institutions with the Largest Undergraduate Enrollments, Fall 2006

Institution Name	Full-time	Part-time	Total
University of Massachusetts Amherst	18,435	1,388	19,823
Boston University	17,095	1,426	18,521
Northeastern University	15,195	2,806	18,001
Community College of Rhode Island	6,127	10,246	16,373
University of Connecticut	15,602	745	16,347
University of New Hampshire	11,388	570	11,958
University of Rhode Island	10,210	1,665	11,875
University of Vermont	8,908	1,174	10,082
Harvard University	7,209	2,759	9,968
Boston College	9,405	475	9,880
Central Connecticut State University	7,463	2,181	9,644
University of Maine	7,746	1,781	9,527
Johnson & Wales University	8,437	912	9,349
University of Massachusetts Boston	5,779	3,467	9,246
University of Massachusetts Lowell	5,899	2,749	8,648
Southern Connecticut State University	7,052	1,525	8,577
University of Southern Maine	4,802	3,485	8,287
Bunker Hill Community College	2,487	5,725	8,212
Middlesex Community College (Mass.)	3,576	4,533	8,109
Bridgewater State College	6,457	1,368	7,825
University of Massachusetts Dartmouth	6,600	1,026	7,626
Rhode Island College	5,280	2,302	7,582
Salem State College	5,624	1,831	7,455
Massasoit Community College	3,311	3,664	6,975
North Shore Community College	2,873	4,037	6,910
Total 25 Largest Institutions	202,960	63,840	266,800

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

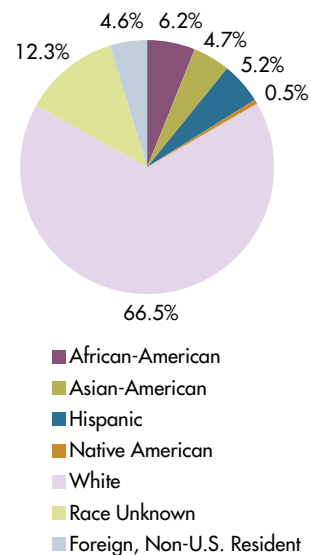
Fig. 25: New England Cities with the Largest Total College Enrollments, 2006

City	Number of Colleges & Universities	Total Enrollment
Boston, Mass.	33	135,349
Cambridge, Mass.	8	49,760
Providence, R.I.	5	46,176
New Haven, Conn.	4	32,438
Storrs, Conn.	1	28,481
Amherst, Mass.	3	28,005
Worcester, Mass.	8	26,926
Warwick, R.I.	2	19,382
Newton, Mass.	7	19,337
Lowell, Mass.	2	19,317
Springfield, Mass.	4	17,102
Burlington, Vt.	4	15,067
Kingston, R.I.	1	15,062
Durham, N.H.	1	14,849
Manchester, N.H.	6	14,318
New Britain, Conn.	2	13,855
Portland, Maine	4	12,184
Waltham, Mass.	1	10,810
Medford, Mass.	1	10,336
Salem, Mass.	1	10,230

Note: Total enrollment includes full- and part-time undergraduate, graduate and non-degree students.

Source: New England Board of Higher Education Annual Survey of new England Colleges and Universities, 2007.

Fig. 26: Enrollment at New England Colleges and Universities by Race/Ethnicity, 2006



Note: The U.S. Department of Education's designations of race and ethnicity differ from those of the U.S. Bureau of the Census used in other figures.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 27: Minority Enrollment by State and Race/Ethnicity, 1996 and 2006

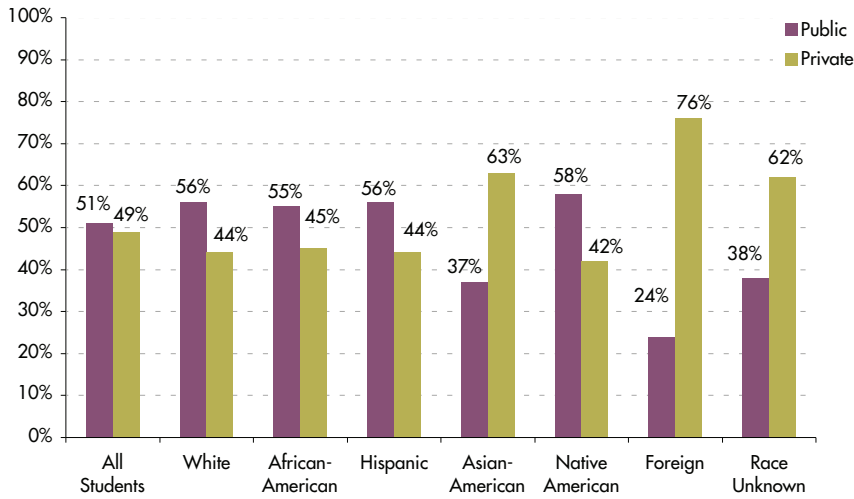
		Students Enrolled				As % of 18-to 24-Year-Old Population 2006	% Change in Enrollment 1996-2006
		1996	% of Total	2006	% of Total		
Connecticut	African-American	11,403	7.3%	17,395	9.8%	12%	53%
	Asian-American	5,507	3.5	7,293	4.1	3	32
	Hispanic	7,716	5.0	13,711	7.7	15	78
	Native American	515	0.3	639	0.4	1	24
	White	117,909	75.9	116,339	65.7	63	-1
	Race Unknown	6,497	4.2	14,679	8.3	NA	126
Maine	African-American	359	0.6	1,001	1.5	1	179
	Asian-American	681	1.2	1,021	1.5	1	50
	Hispanic	322	0.6	694	1.0	1	116
	Native American	658	1.2	862	1.3	1	31
	White	47,061	84.5	56,519	85.4	95	20
	Race Unknown	6,024	10.8	4,645	7.0	NA	-23
Massachusetts	African-American	20,212	4.9	30,804	6.8	7	52
	Asian-American	22,065	5.4	27,779	6.2	6	26
	Hispanic	15,511	3.8	24,799	5.5	10	60
	Native American	1,485	0.4	1,646	0.4	0.3	11
	White	271,656	66.2	274,995	61.1	71	1
	Race Unknown	54,226	13.2	63,191	14.0	NA	17
New Hampshire	African-American	701	1.1	1,178	1.7	1	68
	Asian-American	892	1.4	1,584	2.2	2	78
	Hispanic	715	1.1	1,435	2.0	1	101
	Native American	233	0.4	375	0.5	1	61
	White	49,307	76.5	52,576	74.4	93	7
	Race Unknown	11,324	17.6	11,791	16.7	NA	4
Rhode Island	African-American	2,954	4.1	4,296	5.3	6	45
	Asian-American	2,491	3.4	2,930	3.6	4	18
	Hispanic	2,724	3.8	4,800	5.9	12	76
	Native American	243	0.3	295	0.4	1	21
	White	55,112	76.1	55,032	67.3	71	0
	Race Unknown	6,267	8.7	11,510	14.1	NA	84
Vermont	African-American	348	1.0	708	1.7	1	103
	Asian-American	473	1.3	899	2.2	1	90
	Hispanic	464	1.3	838	2.0	2	81
	Native American	167	0.5	226	0.5	1	35
	White	29,640	84.5	34,438	83.8	95	16
	Race Unknown	3,197	9.1	3,169	7.7	NA	-1
New England	African-American	35,977	4.4	55,382	6.2	7	54
	Asian-American	32,109	3.9	41,506	4.7	4	29
	Hispanic	27,452	3.4	46,277	5.2	10	69
	Native American	3,301	0.4	4,043	0.5	0.4	22
	White	570,685	69.7	589,899	66.5	74	3
	Race Unknown	87,535	10.7	108,985	12.3	NA	25
United States	African-American	1,505,600	10.5	2,214,561	12.7	12	47
	Asian-American	828,200	5.8	1,134,382	6.5	4	37
	Hispanic	1,166,100	8.2	1,881,975	10.8	15	61
	Native American	137,600	1.0	176,303	1.0	1	28
	White	10,263,900	71.8%	11,495,440	65.7%	68%	12%

Note: Table does not include enrollment at military academies. African-American, Asian-American, Native American and White totals reflect non-Hispanic population. Does not include the category non-resident alien. United States data is 2005.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

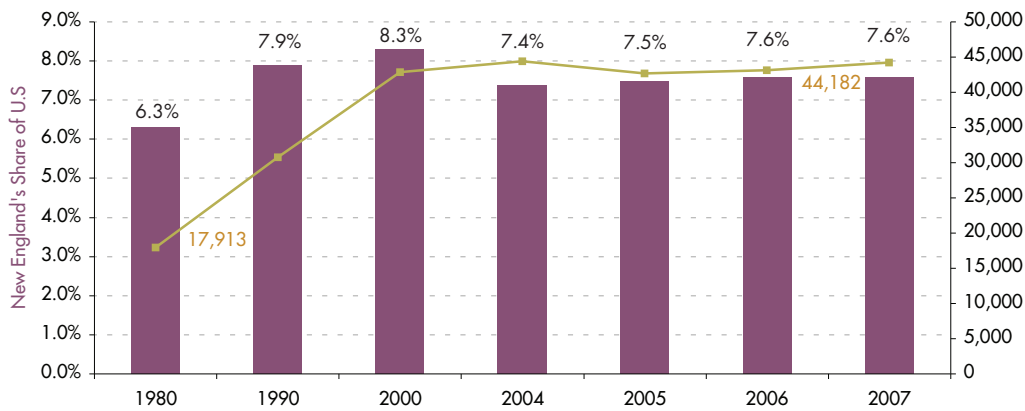
COLLEGE ACCESS, *continued*

Fig. 28: Public vs. Private College Enrollment in New England by Race/Ethnicity, 2006



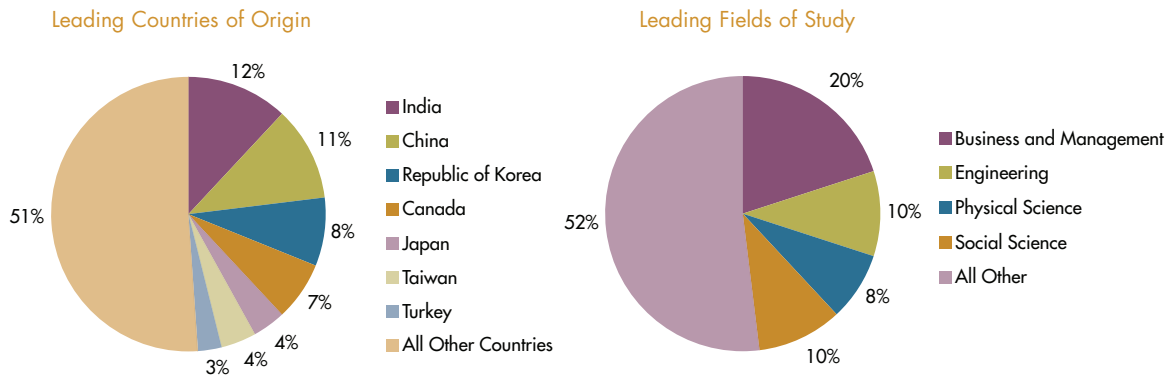
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 29: Foreign Enrollment at New England Colleges and Universities and Share of U.S. Foreign Enrollment, 1980 to 2007



Source: New England Board of Higher Education analysis of Institute of International Education data.

Fig. 30: Foreign Students in New England by Countries of Origin and Fields of Study, 2007



Source: New England Board of Higher Education analysis of Institute of International Education data; www.iie.org.

Fig. 31: Estimated Economic Impact from International Students, 2006-07

	Number of Foreign Students	Tuition & Fees	Living Expenses & Dependents	U.S. Funding	Total Contribution Minus U.S. Support
Connecticut	7,403	\$168,799,490	\$163,909,938	\$115,114,259	\$217,595,169
Maine	1,388	26,560,266	23,501,223	17,018,806	33,042,68
Massachusetts	28,680	739,579,366	669,604,019	471,572,405	937,610,980
New Hampshire	2,099	50,509,876	42,446,059	29,246,095	63,709,840
Rhode Island	3,629	85,620,234	70,988,488	41,830,688	114,778,034
Vermont	983	23,807,722	16,223,888	12,010,916	28,020,694
New England	44,182	\$1,094,876,954	\$986,673,615	\$686,793,169	\$1,361,714,717
United States	582,984	\$9,928,605,656	\$10,850,201,226	\$6,279,696,060	\$14,499,110,822

Source: New England Board of Higher Education analysis of Institute of International Education data; www.iie.org.

Fig. 32: New England Institutions Enrolling More than 1,000 Foreign Students, 2007

U.S. Rank	Institution	Foreign Enrollment	Total Enrollment	Foreign Students as a % of Total Enrollment
9th	Harvard University	4,514	20,042	23%
10th	Boston University	4,484	31,574	14
32nd	Massachusetts Institute of Technology	3,042	11,032	28
47th	Northeastern University	2,223	23,385	10
55th	University of Massachusetts Boston	2,061	12,362	17
58th	Yale University	2,026	11,416	18
76th	University of Massachusetts Amherst	1,739	25,093	7
84th	University of Connecticut	1,616	28,481	6
105th	University of Bridgeport	1,423	4,018	35
116th	Johnson & Wales	1,280	10,171	13
146th	Brown University	1,073	8,125	13
Total of Above Institutions		25,481	185,699	14%
Total of All New England Institutions		44,182	886,997	5%
Above Institutions as a Share of All New England Institutions		58%	21%	

Source: New England Board of Higher Education analysis of Institute of International Education data; www.iie.org.

Fig. 33: New England Institutions with More than 10% of Undergraduates Studying Abroad, 2006

Institution	Undergraduates Studying Abroad	Total Undergraduate Enrollment	Percentage of Students Studying Abroad
Norwich University	686	1,958	35%
Colby College	407	1,865	22
Babson College	350	1,776	20
Bates College	296	1,744	17
Dartmouth College	627	4,085	15
Tufts University	690	4,995	14
Bowdoin College	239	1,734	14
Trinity College	300	2,323	13
Salve Regina University	259	2,090	12
Smith College	317	2,634	12
Wheaton College	184	1,551	12
Wesleyan University	312	2,813	11
Mount Holyoke College	235	2,149	11
Worcester Polytechnic Institute	307	2,866	11%

Source: New England Board of Higher Education analysis of Institute for International Education data; www.iie.org.

COLLEGE SUCCESS

Less than 20 percent of students graduate from New England community colleges within three years of starting and rates vary dramatically among racial/ethnic groups. Less than half of students enrolled at public four year institutions (excluding land-grants) graduate within six years of starting.

Fig. 34: Graduation Rates by State, Race/Ethnicity and Type of Institution, 2006

	Foreign	Black, non-Hispanic	American Indian or Alaskan Native	Asian or Pacific Islander	Hispanic	White, non-Hispanic	Race/Ethnicity Unknown	Total
Public Two-Year								
Connecticut	30%	7%	7%	13%	8%	13%	9%	11%
Maine	30	17	33	9	22	32	29	31
Massachusetts	23	13	14	14	11	20	15	18
New Hampshire	NA	18	25	26	24	29	37	30
Rhode Island	NA	8	NA	9	5	11	8	10
Vermont	NA	NA	17	NA	50	14	28	16
New England	24	11	21	14	10	20	18	18
Public Four-Year								
Connecticut	24	32	29	37	34	42	43	40
Maine	53	9	30	24	42	36	46	37
Massachusetts	47	36	32	40	42	51	43	48
New Hampshire	NA	14	40	38	25	55	55	55
Rhode Island	50	22	NA	35	27	48	47	45
Vermont	NA	NA	20	25	25	46	29	42
New England	42	33	29	38	33	47	42	45
Public Land Grant								
Connecticut	41	61	75	78	65	76	69	74
Maine	72	45	38	40	42	59	50	59
Massachusetts	69	54	73	58	55	67	67	66
New Hampshire	88	56	50	67	64	75	62	73
Rhode Island	9	40	10	44	59	59	59	57
Vermont	56	43	67	74	80	67	52	67
New England	59	54	51	63	61	68	64	67
Private Four-Year								
Connecticut	74	61	54	82	67	73	68	72
Maine	92	68	56	73	70	72	60	72
Massachusetts	70	67	74	83	71	74	70	74
New Hampshire	69	67	73	87	83	67	66	68
Rhode Island	78	61	71	79	63	67	80	68
Vermont	76	43	50	84	59	68	48	66
New England	72%	64%	69%	82%	69%	72%	70%	72%

Note: The graduation rate is the percentage of students who complete an associate degree (at two-year institutions) within three years or a bachelor's degree (at four-year institutions) within six years.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 35: Graduation and Transfer Rates by State and Type of Institution, 2006

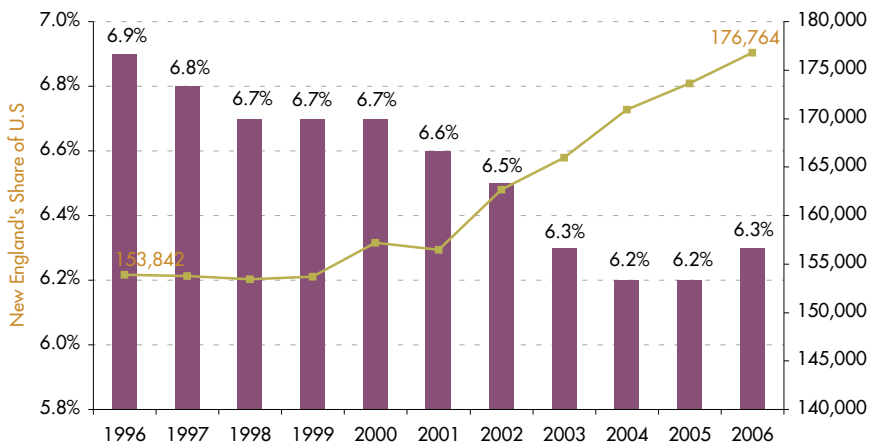
	Public Two-Year		Public Four-Year		Public Land Grant		Private Four-Year	
	% Graduating	% Transferring to other Institutions	% Graduating	% Transferring to other Institutions	% Graduating	% Transferring to other Institutions	% Graduating	% Transferring to other Institutions
Connecticut	11%	20%	40%	12%	74%	18%	72%	NA
Maine	31	13	37	8	59	NA	72	3
Massachusetts	18	19	48	16	66	NA	74	NA
New Hampshire	30	NA	55	NA	73	NA	68	5
Rhode Island	10	20	45	NA	57	NA	68	NA
Vermont	16	NA	42	NA	67	NA	66	6
New England	18%	17%	45%	NA	67%	NA	72%	2%

Note: The graduation rate is the percentage of students who complete an associate degree (at two-year institutions only) within three years or a bachelor's degree (at four-year institutions) within six years. Figures are based on cohorts entering in 2000 (four-year institutions) or 2003 (two-year institutions). The New England figures are based on the aggregate numbers of all institutions of a given type, rather than an average of the states' graduation rates.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

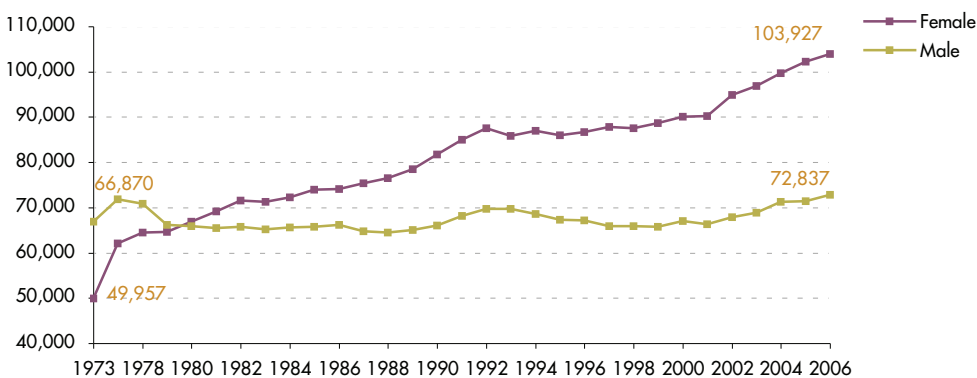
The region awards over 6 percent of all higher education degrees in the United States—nearly 60 percent are awarded to women.

Fig. 36: Total Degrees Awarded at New England's Colleges and Universities and New England's Share of U.S. Degrees, 1996 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

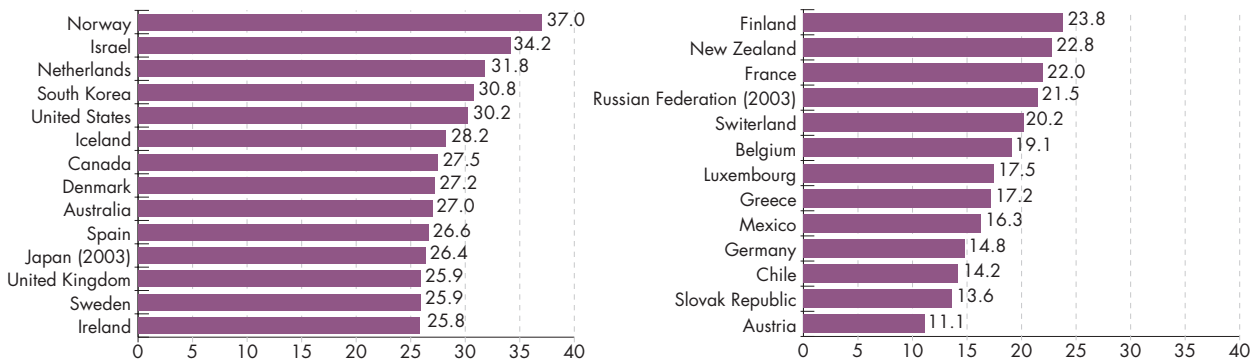
Fig. 37: Degrees Awarded in New England by Gender, 1973 to 2006



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

COLLEGE SUCCESS, *continued*

Fig. 38: Attainment of Tertiary-Type A and Advanced Research Degrees by 25–34-year-olds by Country, 2004



Notes: Tertiary-type A programs are largely theory-based and designed to provide sufficient qualifications for entry to advanced research programs and professions with high skill requirements such as medicine, dentistry, or architecture and have a minimum duration of 3 years' full-time equivalent, although typically last 4 years. In United States, correspond to bachelor's and master's degrees. Advanced research programs are tertiary programs leading directly to an advanced research qualification, such as doctorate.

Source: Organisation for Economic Co-operation and Development (OECD), Education at a Glance: OECD Indicators 2006

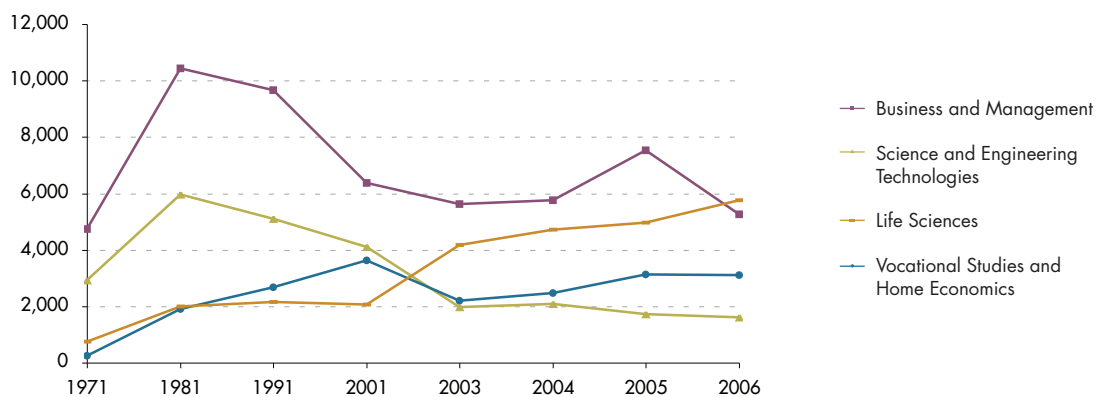
Fig. 39: Associate Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	4,993	1,579	3,414	104	771	26	110	558	3,186	238
Maine	2,416	877	1,539	11	27	32	11	15	2,136	184
Massachusetts	11,126	4,040	7,086	235	945	38	426	678	7,777	1,027
New Hampshire	3,237	1,217	2,020	11	62	43	45	87	2,575	414
Rhode Island	3,844	1,844	2,000	107	274	16	96	230	2,771	350
Vermont	1,380	604	776	9	14	13	28	14	1,174	128
New England	26,996	10,161	16,835	477	2,093	168	716	1,582	19,619	2,341
% of New England Associate Degrees		38%	62%	2%	8%	0.6%	3%	6%	73%	9%

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 40: Associate Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006

Total Associate Degrees Awarded 1971: 16,782; 2006: 26,996



Note: Disciplines not listed include: Arts and Music, Education, Social Service Professions, Communication and Librarianship, Engineering, Psychology, Social Sciences, Geosciences, Law, Interdisciplinary or other Sciences, Physical Sciences, Architecture and Environmental Design, Humanities, Religion and Theology, Math and Computer Sciences and unknown disciplines. These unlisted disciplines awarded 11,250 degrees in 2006.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

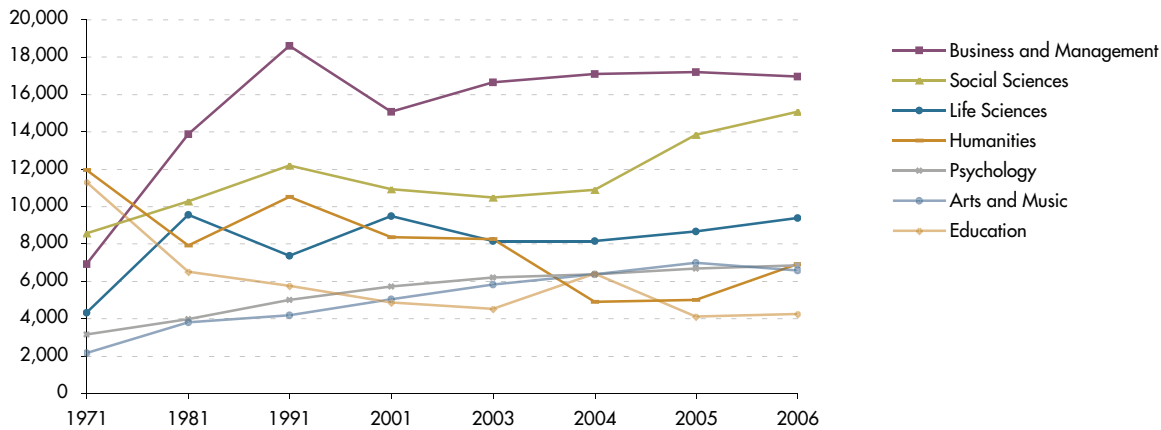
Fig. 41: Bachelor's Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	17,786	7,424	10,362	511	1,185	81	811	913	12,880	1,405
Maine	6,544	2,802	3,742	415	75	57	133	84	5,517	263
Massachusetts	46,973	19,757	27,216	2,176	2,502	169	3,410	2,132	31,363	5,221
New Hampshire	8,030	3,406	4,624	266	130	48	221	160	6,347	858
Rhode Island	9,686	4,042	5,644	325	432	27	449	436	7,127	890
Vermont	4,981	2,263	2,718	92	57	24	96	76	4,332	304
New England	94,000	39,694	54,306	3,785	4,381	406	5,120	3,801	67,566	8,941
% of New England Bachelor's Degrees		42%	58%	4%	5%	0.4%	5%	4%	72%	10%

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 42: Bachelor's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006

Total Bachelor Degrees Awarded 1971: 70,024; 2006: 94,000



Note: Disciplines not listed include: Communication and Librarianship, Math and Computer Sciences, Engineering, Vocational Studies and Home Economics, Science and Engineering Technologies, Social Service Professions, Physical Sciences, Architecture and Environmental Design, Geosciences, Religion and Theology, Interdisciplinary or other Science, Law and unknown disciplines. These unlisted disciplines awarded 28,017 degrees in 2006.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 43: Master's Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006

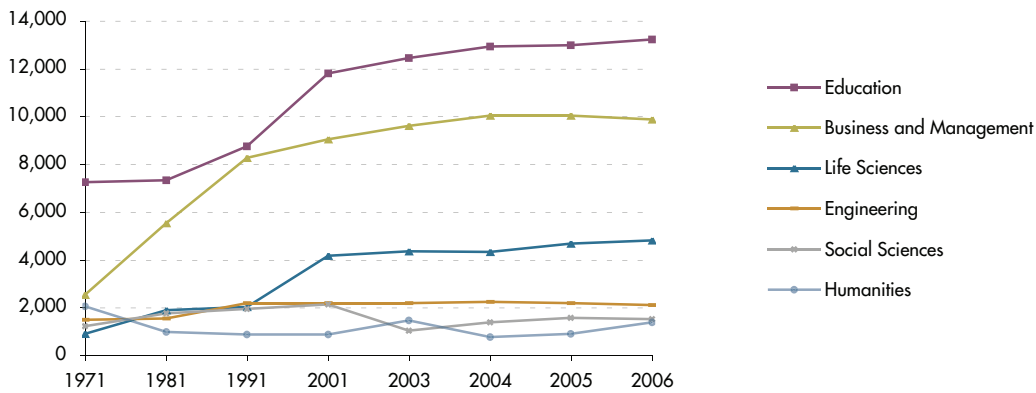
	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	8,778	3,444	5,334	1,067	525	23	336	261	5,663	903
Maine	1,655	476	1,179	47	16	12	24	15	1,394	147
Massachusetts	27,603	10,842	16,761	3,856	1,518	113	1,445	920	14,136	5,615
New Hampshire	3,068	1,308	1,760	361	36	6	75	45	1,931	614
Rhode Island	2,146	853	1,293	344	65	8	69	45	1,276	339
Vermont	1,782	709	1,073	102	37	8	36	63	1,221	315
New England	45,032	17,632	27,400	5,777	2,197	170	1,985	1,349	25,621	7,933
% of New England Master's Degrees		39%	61%	13%	5%	0.4%	4%	3%	57%	18%

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

COLLEGE SUCCESS, *continued*

Fig. 44: Master's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006

Total Master's Degrees Awarded: 1971: 19,113; 2006: 45,032



Note: Disciplines not listed include: Physical Science, Geosciences, Math and Computer Science, Psychology, Science and Engineering Technologies, Interdisciplinary or other Sciences, Religion and Theology, Arts and Music, Architecture and Environmental Design, Communication and Librarianship, Law, Social Service Professions, Vocational Studies and Home Economics, unknown Disciplines. These unlisted disciplines awarded 13,470 degrees in 2006.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

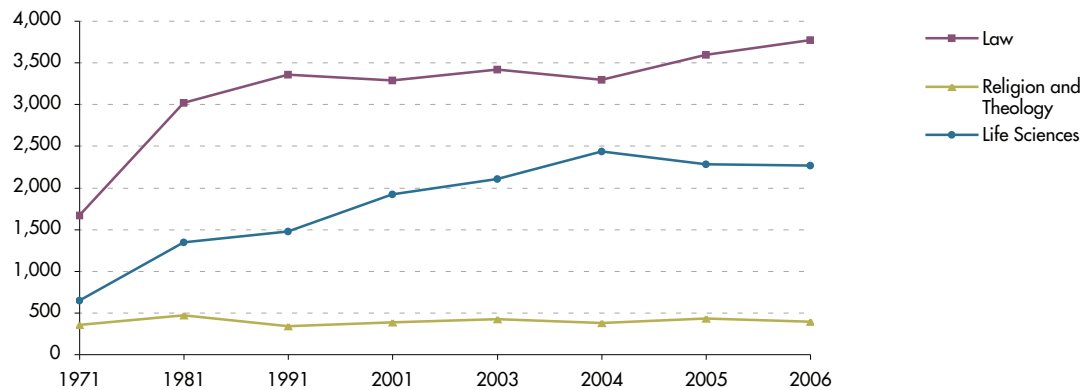
Fig. 45: First-Professional Degrees Awarded to Men, Women, Minorities and Foreign Students, 2006

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	1,054	517	537	23	61	1	96	62	756	55
Maine	214	116	98	1	1	0	10	1	201	0
Massachusetts	4,321	2,111	2,210	193	207	18	625	145	2,685	448
New Hampshire	206	120	86	11	3	1	23	3	159	6
Rhode Island	354	162	192	4	18	1	36	9	242	44
Vermont	272	128	144	4	16	2	18	10	208	14
New England	6,421	3,154	3,267	236	306	23	808	230	4,251	567
% of New England First-Professional Degrees		49%	51%	4%	5%	0.4%	13%	4%	66%	9%

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 46: First-Professional Degrees Awarded at New England Colleges and Universities by Fields of Study, 1971 to 2006

Total First-Professional Degrees Awarded: 1971: 2,664; 2006: 6,421



Source: New England Board of Higher Education analysis of U.S. Department of Education data.

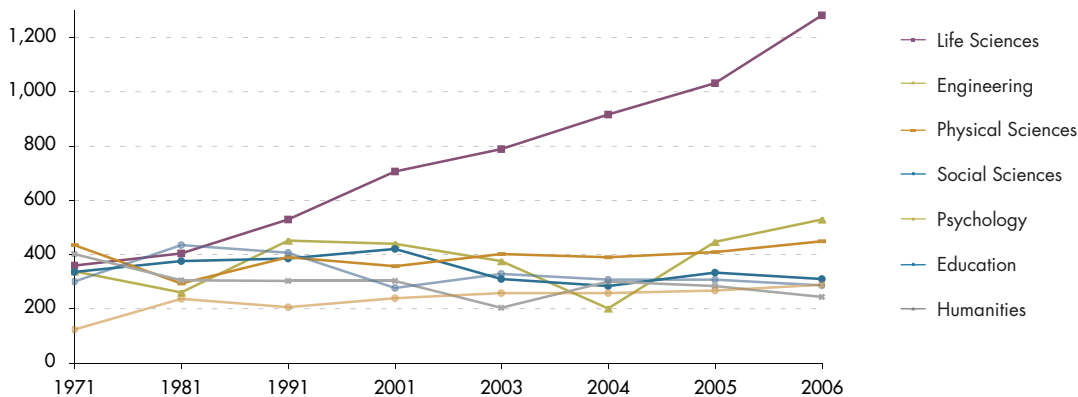
Fig. 47: Doctorates Awarded to Men, Women, Minorities and Foreign Students, 2006

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	735	359	376	238	28	0	28	26	313	102
Maine	39	19	20	10	0	0	1	0	28	0
Massachusetts	3,001	1,542	1,459	843	85	7	153	77	1,307	529
New Hampshire	175	80	95	47	2	2	3	2	93	26
Rhode Island	301	164	137	106	7	0	13	5	104	66
Vermont	64	32	32	18	0	0	1	2	41	2
New England	4,315	2,196	2,119	1,262	122	9	199	112	1,886	725
% of New England Doctorates		51%	49%	29%	3%	0.2%	5%	3%	44%	17%

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 48: Doctorates Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2006

Total Doctorates Awarded 1971: 2,624; 2006: 4,315



Note: Disciplines not listed include: Geosciences, Math and Computer Science, Science and Engineering Technologies, Interdisciplinary or other Sciences, Religion and Theology, Arts and Music, Architecture and Environmental Design, Business and Management, Communication and Librarianship, Law, Social Service Professions, Vocational Studies and Home Economics, unknown Disciplines. These unknown disciplines awarded 932 Degrees in 2006.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

FINANCING HIGHER EDUCATION

Average total yearly charges for resident students, including room and board, top \$40,000 at New England's private four-year institutions and \$20,000 at the region's public institutions—far above national rates.

Fig. 49: Average Student Expenses, New England vs. United States, Academic Year 2007-08

	Tuition & Fees for State Residents	Additional Charges for Out-of-State Residents	Books & Supplies	Resident			Commuter		
				Room & Board	Transportation	Other	Room & Board	Transportation	Other
New England									
Two-year public	\$3,492	\$5,985	\$805	NA	NA	NA	\$6,708	\$1,170	\$1,680
Four-year public	8,116	11,920	906	8,043	531	1,262	6,862	929	1,586
Four-year private	30,154	NA	913	10,232	584	1,126	8,827	905	1,257
United States									
Two-year public	\$2,361	\$4,202	\$921	NA	NA	NA	\$6,875	\$1,270	\$1,699
Four-year public	6,185	10,455	988	7,404	911	1,848	7,419	1,284	2,138
Four-year private	23,712	NA	988	8,595	768	1,311	7,499	1,138	1,664

Note: Room & board costs for commuter students are average estimated living expenses for students living off-campus but not with parents.

Source: Table 5, Average Student Expenses, by College Board Region, 2007-2008 (Enrollment-Weighted). Trends in College Pricing 2007, Copyright © 2007 College Entrance Examination Board. Reprinted with permission. All rights reserved. www.collegeboard.com.

FINANCING HIGHER EDUCATION, *continued***Fig. 50: Tuition and Fees, Academic Years 2006-07 and 2007-08 with Percent Change**

	2006-07	2007-08	Percent Change		2006-07	2007-08	Percent Change
Connecticut				New Hampshire			
Two-year public	\$2,672	\$2,828	6%	Two-year public	\$5,234	\$5,692	9%
Four-year public	7,135	7,586	6	Four-year public	9,127	9,673	6
Four-year private	28,547	30,273	6	Four-year private	26,841	28,365	6
Maine				Rhode Island			
Two-year public	2,926	3,171	8	Two-year public	2,686	2,846	6
Four-year public	6,616	7,316	11	Four-year public	6,787	7,192	6
Four-year private	26,635	28,073	5	Four-year private	26,541	28,066	6
Massachusetts				Vermont			
Two-year public	3,579	3,702	3	Two-year public	5,230	5,500	5
Four-year public	7,583	7,897	4	Four-year public	9,783	10,428	7
Four-year private	29,299	31,052	6%	Four-year private	25,629	28,117	10%

Note: Figures for public institutions show rates for state residents. All data are enrollment-weighted averages, intended to reflect the average costs that students face in various types of institutions.

Source: Table 6, Tuition and Fees by Region and Institution Type, in Current Dollars, 1997-1999 to 2007-2008 (Enrollment-Weighted), Trends in College Pricing 2007, (2007); 14. Copyright © 2007 College Entrance Examination Board. Reprinted with permission. All rights reserved. www.collegeboard.com.

Americans pay an average of \$257 each in state taxes to support public higher education and student aid in their states. New Englanders, however, pay just \$190.

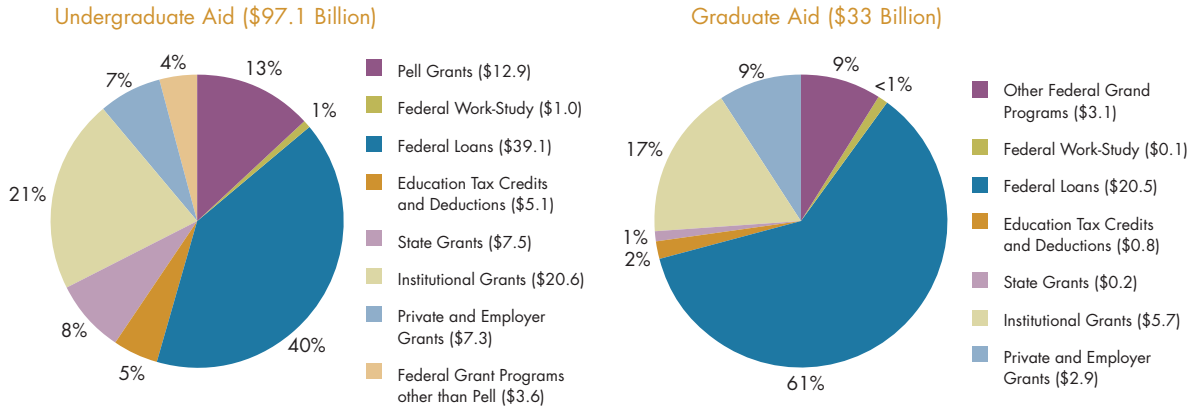
Fig. 51: Appropriations of State Tax Funds for Higher Education Operating Expenses, Fiscal 2008

	Appropriations	1-Year % Change	10-Year % Change	Per-Capita Appropriations	U. S. Rank 2008	Appropriations Per \$1,000 of Personal Income	U.S. Rank 2008	FY06 Appropriations Per FTE Student	U. S. Rank 2006
Connecticut	\$989,436,000	7%	70%	\$282.51	18th	\$5.24	42nd	\$9,503	3rd
Maine	274,767,000	6	47	208.60	37th	6.22	31st	6,096	25th
Massachusetts	1,051,518,000	2	13	163.03	46th	3.35	49th	8,372	7th
New Hampshire	133,607,000	8	50	101.54	50th	2.45	50th	3,193	49th
Rhode Island	180,177,000	-1	35	170.33	45th	4.35	46th	6,413	20th
Vermont	88,195,000	3	54	141.96	49th	3.91	47th	3,030	50th
New England	2,717,700,000	7	39	190.52		4.08		6,958	
United States	\$77,504,009,000	7.5%	56%	\$257.46		\$6.59		\$6,325	

Note: FY06 appropriations per FTE data obtained via NCHEMS Information Center; www.higheredinfo.org/analyses.

Source: New England Board of Higher Education analysis of data from Illinois State University Center for Higher Education and Education Finance; www.grapevine.ilstu.edu.

Fig. 52: Undergraduate and Graduate Student Aid by Source, 2006-07



Source: Trends in Student Aid. Copyright ©2007 The College Board. All rights reserved; www.collegeboard.com.

Fig. 53: Federal Student Financial Aid Programs, Total Expenditures or Allocations and Number of Recipients

	Pell Grants		College Work-Study		Perkins Loans		Supplemental Educational	
	2005-06 Expenditures	2006 Total Recipients	2007-08 Allocations	2006 Total Recipients	2007-08 Level of Expenditure*	2006 Total Recipients	2007-08 Allocations	2006 Total Recipients
Connecticut	\$82,847,284	37,415	\$11,410,778	9,864	\$29,267,987	8,713	\$8,853,733	13,767
Maine	44,884,410	18,469	7,945,206	6,805	21,889,884	7,252	6,869,693	10,564
Massachusetts	178,832,502	74,931	45,308,430	36,931	124,892,877	36,652	29,483,968	40,642
New Hampshire	29,102,132	13,060	6,601,275	6,343	18,701,821	6,558	4,988,766	8,457
Rhode Island	48,479,050	20,842	7,888,917	7,014	27,850,412	10,032	6,956,367	11,861
Vermont	19,567,065	8,326	5,823,156	5,541	14,911,584	5,664	5,294,824	5,195
New England	403,712,443	173,043	84,977,762	72,498	237,514,565	74,871	62,447,351	90,486
United States	\$12,693,127,982	5,167,979	\$973,884,748	710,907	\$2,230,817,783	727,600	\$770,690,892	1,419,055
New England as a % of United States	3.2%	3.3%	8.7%	10.2%	11%	10.3%	8.1%	6.4%

Note: Spending on federal campus-based programs is reported as 2007-08 allocations. Spending on Pell Grants is reported as 2005-06 expenditures. *Level of Expenditure (LOE): A school must request and have approved for each award year an LOE authorization that represents the maximum amount it may expend from its revolving Federal Perkins Loan fund.

Source: New England Board of Higher Education analysis of U.S. Department of Education data.

Fig. 54: Total Grant Aid Awarded by State, 1995-96, 2000-01, 2004-05, 2005-06

	1995-96	2000-01	2004-05	2005-06	5-Year % Change	10-Year % Change
Connecticut	\$20,414,000	\$44,763,000	\$36,773,000	\$39,382,000	-12%	93%
Maine	8,262,000	12,351,000	12,984,000	13,387,000	8	62
Massachusetts	54,646,000	116,892,000	79,526,000	80,093,000	-31	47
New Hampshire	773,000	1,497,000	3,648,000	3,753,000	151	386
Rhode Island	5,741,000	6,164,000	13,945,000	12,883,000	109	124
Vermont	12,022,000	14,625,000	16,884,000	18,580,000	27	55
New England	\$101,858,000	\$196,292,000	\$163,760,000	\$168,078,000	-14%	65%
United States	2,913,641,000	4,677,795,000	6,683,668,000	7,043,186,000	51	142

Note: Figures may not include aid funds provided through entities other than the principal state student aid agency.

Source: National Association of State Student Grant and Aid Programs; www.nassgap.org.

FINANCING HIGHER EDUCATION, *continued***Fig. 55: State Need-Based Aid as a Percent of Federal Pell Grant Aid, 2006**

	State Need-Based Grant Total	Federal Pell Grant Total	State Need-Based Aid as a Percent of Federal Pell Grant Aid
Connecticut	\$39,382,000	\$82,847,284	48%
Maine	13,387,000	44,884,410	30
Massachusetts	80,093,000	178,832,502	45
New Hampshire	3,753,000	29,102,132	13
Rhode Island	12,883,000	48,479,050	27
Vermont	18,580,000	19,567,065	95
New England	\$168,078,000	\$403,712,443	42%
United States	7,043,186,000	12,693,127,982	55

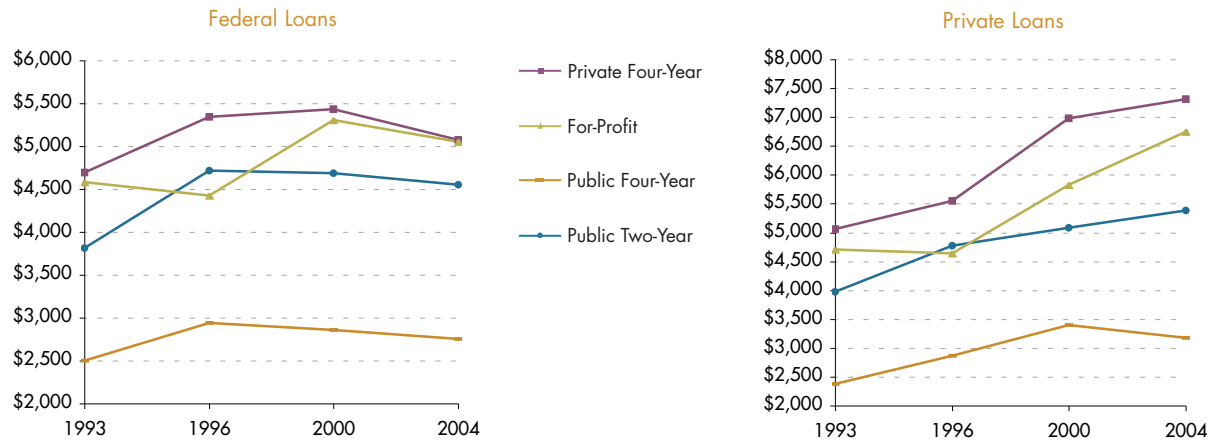
Source: The New England Board of Higher Education analysis of data from National Association of State Student Grant and Aid Programs; www.nassgap.org and U.S. Department of Education data.

Fig. 56: Percent of Family Income Needed to Pay for College by Income Groups, 2006

	% of All Family Income Needed to Pay	% Lowest Income Quintile	% 2nd Income Quintile	% 3rd Income Quintile	% 4th Income Quintile	% Highest Income Quintile
Connecticut						
Public Two-Year	25%	66%	26%	16%	11%	7%
Public Four-Year	33	85	34	21	14	9
Private Four-Year	76	208	78	45	30	19
Maine						
Public Two-Year	30	73	34	21	14	9
Public Four-Year	36	86	40	27	18	11
Private Four-Year	78	205	85	49	32	21
Massachusetts						
Public Two-Year	25	64	27	16	11	6
Public Four-Year	34	88	37	23	15	9
Private Four-Year	83	225	89	50	32	19
New Hampshire						
Public Two-Year	28	70	31	20	14	8
Public Four-Year	32	79	35	23	16	10
Private Four-Year	60	152	65	39	27	17
Rhode Island						
Public Two-Year	30	77	32	20	13	8
Public Four-Year	39	98	41	26	17	10
Private Four-Year	85	227	91	53	34	22
Vermont						
Public Two-Year	31	74	34	22	15	9
Public Four-Year	41	98	45	30	20	12
Private Four-Year	65	166	71	42	28	18
United States						
Public Two-Year	24	58	27	17	11	7
Public Four-Year	31	73	34	23	15	9
Private Four-Year	72%	183%	78%	47%	31%	18%

Source: The National Center for Higher Education Management Systems (NCHEMS); www.higheredinfo.org.

Fig. 57: Average Amounts of Federal and Private Loans Borrowed by Full-Time Dependent Undergraduate Students, 1993 to 2004



Source: New England Board of Higher Education analysis of College Board data; www.collegeboard.org

Fig. 58: Average Student Debt and Percent of Students with Debt by State, Class of 2006

	Average Debt				Percent of Students with Debt		
	2006	2005	1-Year Change in Debt	U.S. Rank 2006	2006	2005	U.S. Rank 2006
Connecticut	\$23,469	\$21,402	\$2,067	4th	58%	59%	24th
Maine	22,877	21,900	977	7th	72	71	3rd
Massachusetts	19,018	17,721	1,297	26th	60	59	20th
New Hampshire	24,800	22,789	2,011	2nd	71	71	5th
Rhode Island	21,577	23,616	-2,039	NA	52	51	NA
Vermont	23,839	19,660	4,179	3rd	66	66	10th
United States	\$19,646	\$18,259	\$1,387		58%	58%	

Source: New England Board of Higher Education analysis of data from The Project on Student Debt; www.projectstudentdebt.org.

Fig. 59: New England's Ten Largest College Endowments, Fiscal 2007

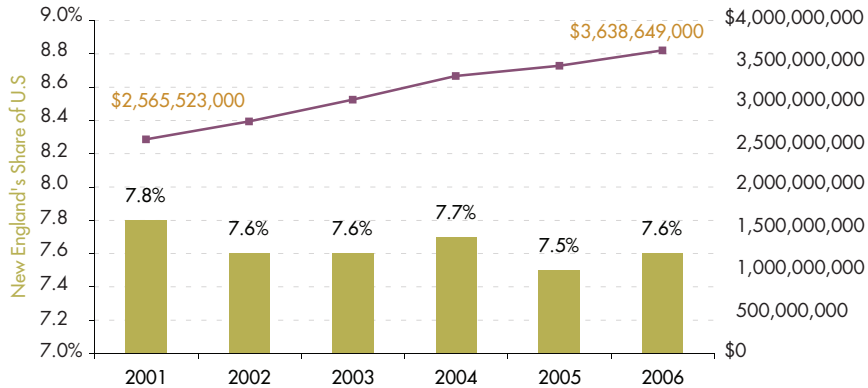
U.S. Rank	New England Rank	Institution	Market Value at End of Fiscal 2007	% Change from Fiscal 2006
1st	1st	Harvard University	\$34,634,906,000	20%
2nd	2nd	Yale University	22,530,200,000	25
6th	3rd	Massachusetts Institute of Technology	9,980,410,000	19
21st	4th	Dartmouth College	3,760,234,000	22
26th	5th	Brown University	2,780,798,000	21
33rd	6th	Williams College	1,892,055,000	29
41st	7th	Boston College	1,670,092,000	15
42nd	8th	Amherst College	1,662,377,000	24
43rd	9th	Wellesley College	1,656,565,000	17
49th	10th	Tufts University	1,452,058,000	26%

Source: New England Board of Higher Education analysis of 2007 National Association of College and University Business Officers data; www.nacubo.org.

UNIVERSITY RESEARCH

New England universities performed \$3.6 billion worth of research and development in 2006 and the region's share of all U.S. university R&D was level with 2004 at 7.6 percent—the region might never re-capture the 10 percent share of the mid-1980s.

Fig. 60: Research and Development Expenditures at New England's Universities and Colleges and New England's Share of U.S. R&D Expenditures, 2001 to 2006



Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.

Fig. 61: Regional Comparison of Research and Development Expenditures at Universities and Colleges, 2001 and 2006

	2001	2006	5-Year % Change	Per-Capita Expenditures		Per-Capita U.S. Rank	
				2001	2006	2001	2006
East North Central	4,699,000,000	6,795,803,000	45%	\$103.4	\$146.9	7th	6th
East South Central	1,435,812,000	2,193,224,000	53	83.8	123.5	9th	9th
Middle Atlantic	4,797,558,000	7,076,417,000	48	120.2	174.8	3rd	2nd
Mountain	2,033,640,000	2,992,233,000	47	108.9	143.5	6th	7th
New England	2,565,523,000	3,638,649,000	42	182.5	255.0	1st	1st
Pacific	5,775,719,000	8,458,928,000	46	125.9	174.4	2nd	3rd
South Atlantic	6,126,987,000	9,108,654,000	49	116.1	159.4	4th	4th
West North Central	2,214,989,000	3,024,145,000	37	114.3	151.6	5th	5th
West South Central	3,085,849,000	4,345,254,000	41	96.5	127.1	8th	8th
United States	32,811,229,000	47,760,402,000	46%	\$115.0	\$159.5		

Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.

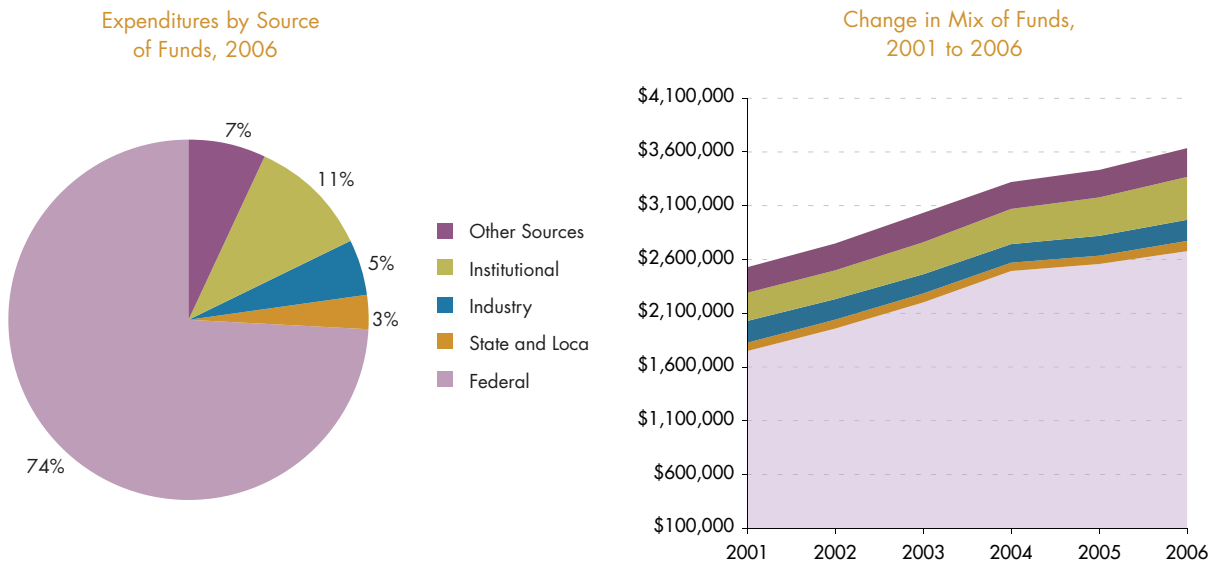
Fig. 62: Research and Development Expenditures at New England Universities and Colleges by Field, 2006

	Engineering	Physical Sciences	Environmental Sciences	Math and Computer Sciences
Connecticut	32,702,000	34,849,000	14,252,000	11,329,000
Maine	14,944,000	5,774,000	23,006,000	2,511,000
Massachusetts	382,945,000	261,201,000	191,482,000	100,654,000
New Hampshire	43,774,000	11,202,000	56,986,000	6,537,000
Rhode Island	26,722,000	14,297,000	34,620,000	17,860,000
Vermont	2,265,000	1,372,000	539,000	1,388,000
New England	503,352,000	328,695,000	320,885,000	140,279,000
United States	7,076,182,000	3,823,362,000	2,601,993,000	1,967,831,000
New England as a % of U.S.	7%	9%	12%	7%

	Life Sciences	Psychology	Social Sciences	Other Sciences	Total
Connecticut	562,523,000	24,107,000	12,300,000	462,000	692,524,000
Maine	45,887,000	1,542,000	21,334,000	5,040,000	120,038,000
Massachusetts	1,057,381,000	38,425,000	81,447,000	45,213,000	2,158,748,000
New Hampshire	164,545,000	8,048,000	5,756,000	18,546,000	315,394,000
Rhode Island	107,015,000	4,632,000	12,972,000	11,986,000	230,104,000
Vermont	107,137,000	1,770,000	288,000	7,082,000	121,841,000
New England	2,044,488,000	78,524,000	134,097,000	88,329,000	3,638,649,000
United States	28,831,208,000	874,831,000	1,703,365,000	881,630,000	47,760,402,000
New England as a % of U.S.	7%	9%	8%	10%	8%

Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.

Fig. 63: Research and Development Expenditures at New England Universities and Colleges by Source of Funds, 2001 to 2006



Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.

Fig. 64: Research and Development Expenditures at New England Colleges and Universities by U.S. Rank and Source of Funds, 2006

Rank	Institution	All R&D Expenditures	Federal Government	State and Local Government	Industry	Institutional Funds	All Other Sources
14th	Massachusetts Institute of Technology	\$600,748,000	\$476,362,000	\$681,000	\$75,790,000	\$10,576,000	\$37,339,000
27th	Yale University	460,075,000	348,500,000	867,000	16,664,000	29,828,000	64,216,000
29th	Harvard University	453,156,000	403,458,000	915,000	6,155,000	0	42,628,000
66th	Boston University	255,615,000	238,560,000	534,000	7,344,000	0	9,177,000
78th	University of Connecticut (all campuses)	215,184,000	124,837,000	7,180,000	7,096,000	62,034,000	14,037,000
82nd	Dartmouth College	200,277,000	140,430,000	4,593,000	4,543,000	37,092,000	13,619,000
85th	University of Massachusetts Worcester	191,659,000	136,141,000	35,242,000	9,465,000	2,377,000	8,434,000
100th	Brown University	157,926,000	96,922,000	130,000	11,766,000	47,746,000	1,362,000
107th	University of Massachusetts Amherst	136,057,000	69,642,000	5,684,000	5,934,000	45,773,000	9,024,000
109th	Tufts University	128,965,000	95,964,000	848,000	8,161,000	8,836,000	15,156,000
115th	Woods Hole Oceanographic Institution	121,888,000	101,631,000	117,000	881,000	12,528,000	6,731,000
116th	University of Vermont	121,841,000	82,519,000	5,679,000	7,874,000	18,806,000	6,963,000
118th	University of New Hampshire	115,117,000	86,416,000	4,832,000	5,818,000	14,602,000	3,449,000
133rd	University of Maine	93,153,000	41,394,000	6,133,000	3,469,000	39,269,000	2,888,000
145th	University of Rhode Island	70,696,000	46,898,000	7,891,000	3,865,000	12,042,000	0
150th	Northeastern University	66,495,000	36,071,000	1,428,000	9,595,000	19,401,000	0
159th	Brandeis University	57,017,000	41,184,000	31,000	0	5,835,000	9,967,000
185th	Boston College	35,659,000	18,344,000	251,000	861,000	6,803,000	9,400,000
Total, Above New England Institutions		\$3,481,528,000	\$2,585,273,000	\$83,036,000	\$185,281,000	\$373,548,000	\$254,390,000
Total, All U.S. Institutions		47,760,402,000	30,033,156,000	3,016,240,000	2,427,627,000	9,062,058,000	3,221,321,000
Above New England Institutions as % of U.S. Total		7.3%	8.6%	2.8%	7.6%	4.1%	7.9%

Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.