

# NEJHE's Trends & Indicators in Higher Education, 2009

**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.

Some highlights from Trends & Indicators in Higher Education, 2009:

- Since 1990, New England's population has grown by just 8%, compared with more than 59% for the Mountain states and 22% for the nation as a whole.
- More than three-quarters of New England 9th-graders graduate from high school in the expected four years time, compared with 69% nationally.
- 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.
- Most college-bound high school seniors in New England name health or business fields as their intended college majors.
- New England's colleges and universities enrolled 904,000 students in 2007, but the region's once-disproportionate share of total U.S. enrollment stayed at just 5%.
- Nearly half of New England college students attend private institutions, compared with about one-quarter nationally.
- Women students outnumber men on New England college and university campuses by more than 134,000.
- More than 48,000 foreign students are enrolled on New England campuses comprising 7.7% of the national total.
- Only 20% of students graduate from New England community colleges within three years of enrolling—and the rate is even lower among minority groups.
- About three in 10 doctorates awarded by New England universities go to foreign students, while just one in 10 goes to U.S. minority students.
- Nearly 60% of all higher education degrees awarded in New England are awarded to women.
- Total yearly charges, including room and board, top \$42,000 at New England's private four-year institutions and \$17,000 for most state residents 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 \$188.

- More than 70% 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 nears 100%.

- New England universities performed \$3.6 billion worth of research and development in 2007, but the region's share of all U.S. university R&D dropped slightly to 7.4%.

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.

The data are organized in part to correspond with the four goals of NEBHE's College Ready New England initiative:

**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.*

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*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 34.

# INDEX OF FIGURES

## DEMOGRAPHY

- Fig. 1: Change in Population, 1990 to 2008, New England States and Other Regions
- Fig. 2: Population of New England by Race, 2007
- Fig. 3: Components of Resident Population Change, 2000 to 2008
- Fig. 4: Racial Composition of Northern and Southern New England, 2007
- Fig. 5: Growth in the Number of Persons Obtaining Legal Permanent Resident Status in New England, 1998 to 2007

## HIGH SCHOOL SUCCESS

- Fig. 6: Public High School Graduates in New England, Projected 2009 to 2022
- Fig. 7: New England Public High School Graduates by Race, Projected 2009 to 2022
- Fig. 8: Public High School Graduation Rates, 2006
- Fig. 9: New England High School Graduation Rates by Race/Ethnicity and Gender, 2005
- Fig. 10: High School Graduation Rates by OECD Country, 2006
- Fig. 11: Education Pipeline: High School Graduation, College Participation and Success, 2006

## COLLEGE READINESS

- Fig. 12: Indicators of College Readiness: A State-by-State Comparison
- Fig. 13: Projection of High School Graduates and Nongraduates in New England and the United States
- Fig. 14: Percent of High School Graduates Enrolling in College the Fall after Graduating High School, 2007
- Fig. 15: Migration of First-Time Freshmen to and from New England, 2007
- Fig. 16: Intended College Majors of College-Bound Seniors in New England, 2008

## HIGHER EDUCATION ENROLLMENT

- Fig. 17: Total Enrollment at New England Colleges and Universities and New England's Share of U.S. Enrollment, 1997 to 2007
- Fig. 18: Higher Education Enrollment in New England by Type of Institution and Enrollment Status, 2007
- Fig. 19: Distribution of Higher Education Enrollment, Public vs. Private, 2007
- Fig. 20: Public vs. Private College Enrollment in New England, 1997-2007
- Fig. 21: Undergraduate vs. Graduate Enrollment in New England, 1997-2007
- Fig. 22: New England's Opening Fall Enrollment: 1997 to 2007
- Fig. 23: Total Higher Education Enrollment by Gender in New England, 1977 to 2007
- Fig. 24: New England Institutions with the Largest Undergraduate Enrollments, Fall 2007
- Fig. 25: New England Cities with the Largest Total College Enrollments, 2007
- Fig. 26: Enrollment at New England Colleges and Universities by Race/Ethnicity, 2007
- Fig. 27: Minority Enrollment by State and Race/Ethnicity, 1997 and 2007
- Fig. 28: Public vs. Private College Enrollment in New England by Race/Ethnicity, 2007
- Fig. 29: Foreign Enrollment at New England Colleges and Universities and Share of U.S. Foreign Enrollment, 1980 to 2008
- Fig. 30: Foreign Students in New England by Countries of Origin and Fields of Study, 2008
- Fig. 31: Estimated Economic Impact from International Students, 2007-08
- Fig. 32: New England Institutions Enrolling More than 1,000 Foreign Students, 2008
- Fig. 33: New England Institutions with More than 10% of Undergraduates Studying Abroad, 2007

## COLLEGE SUCCESS

- Fig. 34: Graduation Rates by State, Race/Ethnicity and Type of Institution, 2007
- Fig. 35: Graduation and Transfer Rates by State and Type of Institution, 2007
- Fig. 36: Total Degrees Awarded at New England's Colleges and Universities and New England's Share of U.S. Degrees, 1997 to 2007
- Fig. 37: Degrees Awarded in New England by Gender, 1977 to 2007
- Fig. 38: Attainment of College (Tertiary-Type A) Degrees, by Country, 2006
- Fig. 39: Associate Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007
- Fig. 40: Associate Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2007
- Fig. 41: Bachelor's Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007
- Fig. 42: Bachelor's Degrees Awarded at New England Colleges and Universities by Selected Field of Study, 1971 to 2007
- Fig. 43: Master's Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007
- Fig. 44: Master's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2007
- Fig. 45: First-Professional Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007
- Fig. 46: First-Professional Degrees Awarded at New England Colleges and Universities by Field of Study, 1971 to 2007
- Fig. 47: Doctorates Conferred on Men, Women, Minorities and Foreign Students, 2007
- Fig. 48: Doctorates Awarded at New England Colleges and Universities by Selected Field of Study, 1971 to 2007

## FINANCING HIGHER EDUCATION

- Fig. 49: Average Student Expenses, New England vs. United States, Academic Year 2008-09
- Fig. 50: Tuition and Fees, Academic Years 2007-08 and 2008-09 and Percent Change
- Fig. 51: Appropriations of State Tax Funds for Higher Education Operating Expenses, FY 2009
- Fig. 52: Total Undergraduate and Graduate Student Aid by Source, 2007-08
- Fig. 53: Federal Student Financial Aid Programs, Total Expenditures or Allocations and Number of Recipients
- Fig. 54: Total State Grant Aid Awarded: 1996-97, 2001-02, 2005-06, 2006-07
- Fig. 55: State Need-Based Aid as a Percent of Federal Pell Grant Aid, 2007
- Fig. 56: Percent of Family Income Needed to Pay for College by Income Groups, 2008
- Fig. 57: Distribution of Federal Aid Funds by Type of Institution, 2006-07
- Fig. 58: Average Student Debt and Percent of Students with Debt by State, Class of 2007
- Fig. 59: New England's 10 Largest College Endowments, FY 2008

## UNIVERSITY RESEARCH

- Fig. 60: Research and Development Expenditures at New England's Colleges and Universities and New England's Share of U.S. R&D Expenditures, 1992 to 2007
- Fig. 61: Regional Comparison of Research and Development Expenditures at Colleges and Universities, 2002 and 2007
- Fig. 62: Research and Development Expenditures at New England Colleges and Universities by Field, 2007
- Fig. 63: Research and Development Expenditures at New England Colleges and Universities by Source of Funds, 2002 to 2007
- Fig. 64: Research and Development Expenditures at New England Colleges and Universities by U.S. Rank and Source of Funds, 2007

New England is home to 14.3 million people. Since 1990, the region's population has grown by just 8%, compared with more than 59% for the Mountain states and 22% for the nation as a whole.

**Fig. 1: Change in Population, 1990 to 2008, New England States and Other Regions**

	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	% Change 1990 to 2008	% Change 2007 to 2008
Connecticut	3,287,116	3,411,714	3,428,208	3,448,261	3,467,932	3,475,351	3,478,714	3,487,896	3,489,868	3,501,252	7%	0.3%
Maine	1,227,928	1,277,179	1,284,663	1,293,667	1,302,729	1,307,904	1,311,044	1,313,355	1,315,398	1,316,456	7	0.1
Massachusetts	6,016,425	6,362,583	6,407,269	6,433,043	6,441,440	6,437,414	6,434,343	6,443,424	6,467,915	6,497,967	8	0.5
New Hampshire	1,109,252	1,240,361	1,256,625	1,270,701	1,281,260	1,292,064	1,300,530	1,308,824	1,312,256	1,315,809	19	0.3
Rhode Island	1,003,464	1,050,725	1,058,065	1,065,937	1,071,302	1,071,095	1,064,439	1,058,991	1,053,136	1,050,788	5	-0.2
Vermont	562,758	609,876	612,134	614,994	616,702	618,432	619,282	620,196	620,748	621,270	10	0.1
<b>New England</b>	<b>13,206,943</b>	<b>13,952,438</b>	<b>14,046,964</b>	<b>14,126,603</b>	<b>14,181,365</b>	<b>14,202,260</b>	<b>14,208,352</b>	<b>14,232,686</b>	<b>14,259,321</b>	<b>14,303,542</b>	<b>8</b>	<b>0.3</b>
Middle Atlantic	37,602,286	39,714,383	39,863,684	40,007,758	40,138,086	40,257,535	40,322,914	40,395,301	40,502,372	40,621,237	8	0.3
East North Central	42,008,942	45,222,278	45,438,238	45,604,725	45,760,422	45,920,683	46,035,658	46,164,570	46,287,995	46,395,654	10	0.2
West North Central	17,659,690	19,270,416	19,367,594	19,453,706	19,538,826	19,645,657	19,749,605	19,883,260	20,024,567	20,165,794	14	0.7
South Atlantic	43,566,853	51,959,428	52,755,709	53,548,217	54,275,570	55,146,742	56,053,745	56,981,100	57,746,662	58,398,377	34	1.1
East South Central	15,176,284	17,051,905	17,135,832	17,213,766	17,313,794	17,433,673	17,584,677	17,752,023	17,933,049	18,084,651	19	0.8
West South Central	26,702,793	31,547,006	31,947,311	32,363,447	32,749,743	33,164,865	33,605,760	33,983,499	34,655,422	35,235,521	32	1.7
Mountain	13,658,776	18,274,476	18,668,429	19,048,553	19,394,872	19,822,632	20,304,812	20,856,176	21,359,883	21,784,507	59	2.0
Pacific	39,127,306	45,179,606	45,816,042	46,359,872	46,858,236	47,298,080	47,695,026	48,114,358	48,521,061	49,070,441	25	1.1
United States	248,709,873	282,171,936	285,039,803	287,726,647	290,210,914	292,892,127	295,560,549	298,362,973	301,290,332	304,059,724	22%	0.9%

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, 2007**

	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	2,958,671	360,645	12,602	119,611	2,696	48,084	3,502,309
Maine	1,271,356	12,860	7,623	11,815	462	13,091	1,317,207
Massachusetts	5,576,368	447,879	19,489	315,114	5,250	85,655	6,449,755
New Hampshire	1,257,910	15,704	3,560	24,893	508	13,253	1,315,828
Rhode Island	937,845	67,040	6,276	29,114	1,291	16,266	1,057,832
Vermont	599,339	5,151	2,435	7,179	193	6,957	621,254
<b>New England</b>	<b>12,601,489</b>	<b>909,279</b>	<b>51,985</b>	<b>507,726</b>	<b>10,400</b>	<b>183,306</b>	<b>14,264,185</b>
United States	241,166,890	38,756,452	2,938,436	13,366,154	537,089	4,856,136	301,621,157

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.

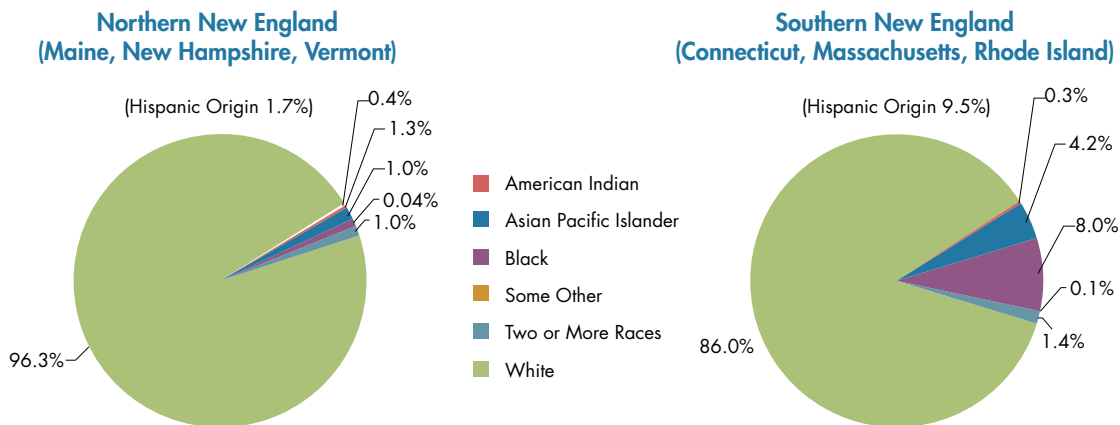
**Fig. 3: Components of Resident Population Change, 2000 to 2008**

	Total Population Change*	Vital Events			Net Migration		
		Births	Deaths	Natural Increase	International**	Domestic	Total
<b>Connecticut</b>	95,648	349,142	240,639	108,503	102,954	-97,827	5,127
<b>Maine</b>	41,534	115,128	102,476	12,652	5,371	29,253	34,624
<b>Massachusetts</b>	148,854	654,936	455,424	199,512	212,930	-297,760	-84,830
<b>New Hampshire</b>	80,024	121,931	82,247	39,684	14,241	31,994	46,235
<b>Rhode Island</b>	2,469	103,887	79,787	24,100	24,945	-41,213	-16,268
<b>Vermont</b>	12,444	53,705	41,778	11,927	5,081	-1,535	3,546
<b>New England</b>	<b>380,973</b>	<b>1,398,729</b>	<b>1,002,351</b>	<b>396,378</b>	<b>365,522</b>	<b>-377,088</b>	<b>-11,566</b>
<b>United States</b>	<b>22,635,122</b>	<b>34,126,003</b>	<b>20,001,837</b>	<b>14,124,166</b>	<b>8,114,516</b>	<b>NA</b>	<b>8,114,516</b>

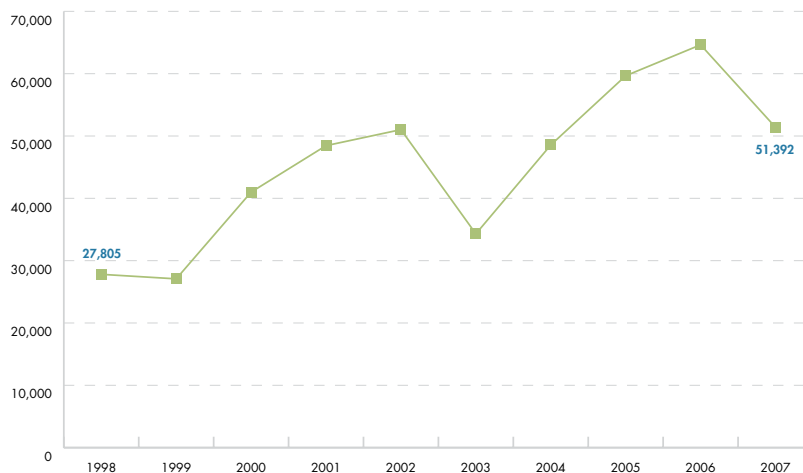
\*Total population change includes a residual. This residual represents the change in population that cannot be attributed to any specific demographic component. See State and County Terms and Definitions at <http://www.census.gov/popest/topics/terms/states.html>

\*\* Net international migration includes the international migration of both native and foreign-born populations. Specifically, it includes: a) the net international migration of the foreign-born; b) the net migration between the United States and Puerto Rico; c) the net migration of natives to and from the United States; and d) the net movement of the Armed Forces population between the United States and overseas.

Source: New England Board of Higher Education analysis of U.S. Census Bureau data; [www.census.gov](http://www.census.gov).

**Fig. 4: Racial Composition of Northern and Southern New England, 2007**

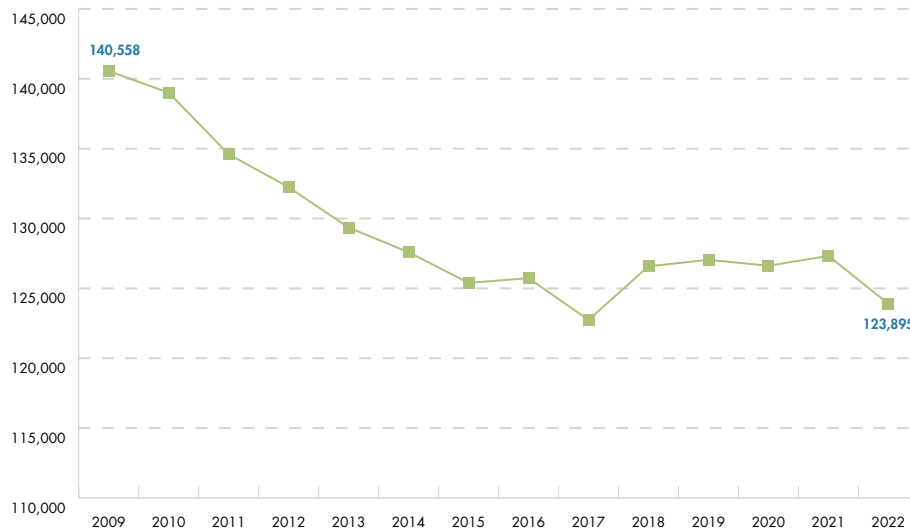
Source: New England Board of Higher Education analysis of U.S. Census Bureau data; [www.census.gov](http://www.census.gov).

**Fig. 5: Growth in the Number of Persons Obtaining Legal Permanent Resident Status in New England, 1998 to 2007**

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

More than three-quarters of New England 9th-graders graduate from high school in the normal four years time, compared with 69% nationally.

**Fig. 6: Public High School Graduates in New England, Projected 2009 to 2022**



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 2009 to 2022**

	2008-09	2021-22	Projected % Change
<b>Connecticut</b>			
American Indian	94	431	359%
Asian	1,386	2,909	110%
Hispanic	4,343	6,260	44%
African-American	4,576	3,778	-17%
White	26,937	20,919	-22%
<b>Maine</b>			
American Indian	77	74	-4%
Asian	205	363	77%
Hispanic	153	336	120%
African-American	256	1,092	327%
White	12,019	10,258	-15%
<b>Massachusetts</b>			
American Indian	122	146	20%
Asian	2,789	3,641	31%
Hispanic	6,187	8,731	41%
African-American	4,515	3,556	-21%
White	45,848	34,412	-25%
<b>New Hampshire</b>			
American Indian	31	65	110%
Asian	283	1,163	311%
Hispanic	403	904	124%
African-American	198	603	205%
White	13,290	10,946	-18%
<b>Rhode Island</b>			
American Indian	59	63	7%
Asian	263	268	2%
Hispanic	1,488	1,964	32%
African-American	844	805	-5%
White	7,482	4,383	-41%
<b>Vermont</b>			
American Indian	33	10	-70%
Asian	130	277	113%
Hispanic	106	318	200%
African-American	99	279	182%
White	6,340	4,942	-22%

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

HIGH SCHOOL SUCCESS, *continued***Fig. 8: Public High School Graduation Rates, 2006**

	Fall 2002 9th-Graders	2005-06 High School Graduates	Percent Graduating within Four Years
Connecticut	46,840	36,222	77%
Maine	17,029	12,950	76
Massachusetts	82,071	61,272	75
New Hampshire	17,788	13,988	79
Rhode Island	13,863	10,108	73
Vermont	8,486	6,779	80
<b>New England</b>	<b>186,077</b>	<b>141,319</b>	<b>76</b>
<b>United States</b>	<b>4,099,848</b>	<b>2,814,068</b>	<b>69%</b>

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, 2005**

	All Students			Native American	Asian-American	Hispanic	African-American	White
	Male	Female						
Connecticut	78.1%	74.9%	80.8%	25.9%	79.0%	53.5%	59.6%	84.2%
Maine	77.2	72.8	78.7	31.8	66.5	NA	NA	76.6
Massachusetts	74.7	69.0	75.5	37.3	68.8	49.0	50.8	78.2
New Hampshire	77.1	NA	NA	NA	NA	NA	NA	NA
Rhode Island	71.1	67.1	74.3	NA	47.8	52.5	58.6	75.9
Vermont	80.2	73.2	74.0	77.0	NA	NA	NA	74.6
<b>United States</b>	<b>70.6%</b>	<b>67.8%</b>	<b>75.3%</b>	<b>50.6%</b>	<b>81.3%</b>	<b>57.8%</b>	<b>55.3%</b>	<b>77.6%</b>

Source: New England Board of Higher Education analysis of Editorial Projects in Education (EPE) Research Center data, *Diplomas Count 2008*.

**Fig. 10: High School Graduation Rates by OECD Country, 2006**

	Percentage with a High School Credential
Germany	100%
Greece	100
Finland	95
South Korea	93
Japan	93
Norway	91
Czech Republic	90
Iceland	90
Finland	90
Switzerland	89
United Kingdom	88
Denmark	86
Italy	86
Hungary	85
OECD average	83
Slovak Republic	82
Canada	80
Poland	80
<b>United States</b>	<b>77</b>
Sweden	76
New Zealand	74
Luxembourg	72
Spain	72
Turkey	51
Mexico	42%

Notes: High School graduation rate is percentage of population of typical upper secondary graduation age (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 2008.

**Fig. 11: Education Pipeline: High School Graduation, College Participation and Success, 2006**

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	77	54	38	24
Maine	76	49	34	24
Massachusetts	75	54	40	29
New Hampshire	79	51	36	29
Rhode Island	73	40	30	21
Vermont	80	44	33	26
<b>United States</b>	<b>69</b>	<b>42</b>	<b>28</b>	<b>20</b>

Note: 150% 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 (NCHEMS); www.higheredinfo.org.

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.

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

	CT	ME	MA	NH	RI	VT	New England	United States
<b>Families With Related Children Under 18 in Poverty, 2008</b>	10%	15%	11%	8%	14%	12%	NA	15%
<b>Children in Households Where “Household Head” Holds at Least a Bachelor’s Degree, 2006</b>	38%	28%	41%	37%	32%	35%	NA	27%
<b>Children in Households Where “Household Head” Is a High-School Dropout, 2007</b>	9%	8%	9%	7%	14%	6%	NA	16%
<b>Children in Single-Parent Families, 2007</b>	32%	30%	29%	32%	33%	31%		32%
<b>Teens Who Are High-School Dropouts, 2007</b>	7%	5%	5%	4%	6%	4%	NA	7%
<b>State Preschool Programs, 2007</b>								
Percent of 3- and 4-Year-Olds Enrolled	20%	16%	19%	NA	NA	61%	NA	25%
State Spending per Child Enrolled	\$7,707	\$1,877	\$3,681	NA	NA	\$4,577	NA	\$3,642
<b>NAEP Achievement Levels, 2007</b>								
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, 2007	53%	38%	46%	39%	32%	40%	NA	33%
<b>Expenditures per Student in Public K-12 Schools, 2007</b>	\$14,533	\$13,197	\$15,438	\$11,844	\$12,030	\$14,938	NA	\$11,286
<b>Student-Teacher Ratios in Public K-12 Schools, 2007</b>	14.7	11.5	13.2	13.1	13.3	10.8	NA	15.5
<b>Percent of 2007 Graduating Class who Scored 3 (out of 5) or Higher on an AP Exam at Some Point in High School</b>	20%	18%	20%	15%	9%	20%	NA	15%
<b>PSAT Participation, 2008</b>								
Percent of 11th Graders Taking PSAT	78%	94%	75%	63%	53%	63%	74%	48%
Percent of 10th Graders Taking PSAT	56%	87%	47%	30%	43%	15%	50%	46%
<b>SAT Performance, 2008</b>								
Participation Rate	83%	87%	83%	74%	66%	64%	NA	45%
Mean Critical Reading Scores	509	469	514	521	495	519	NA	502
Mean Math Scores	513	466	525	523	498	523	NA	515
Mean Writing Scores	513	461	513	511	493	507	NA	494
<b>Percent of Seniors with College-Ready Transcripts</b>	40%	42%	41%	40%	40%	45%	NA	36%
<b>High School Graduation Rate, 2006</b>	77%	76%	75%	79%	73%	80%	76%	69%
<b>Percentage of High School Graduates Going Directly to College, 2006</b>	70%	65%	72%	65%	55%	55%	NA	62%

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](http://www.census.gov); National Institute for Early Education Research, [www.nieer.org](http://www.nieer.org); Editorial Projects in Education Research Center; Collegeboard, [www.collegeboard.com](http://www.collegeboard.com); National Center for Higher Education Management Systems, [www.higheredinfo.org](http://www.higheredinfo.org); Kids Count, Annie Casey Foundation, [www.aecf.org](http://www.aecf.org); National Assessment of Educational Progress (NAEP), [www.nces.ed.gov/nationsreportcard](http://www.nces.ed.gov/nationsreportcard).

# COLLEGE ACCESS

**Fig 13: Projection of High School Graduates and Nongraduates in New England and the United States**

Projection of Graduates and Nongraduates				
Projected Outcomes 2007-08				
	9th-Graders 2004-05	Graduates	Nongraduates	Total Students Lost Each School Day
Connecticut	44,634	34,870	9,764	54
Maine	16,759	12,945	3,814	21
Massachusetts	64,321	48,023	16,298	91
New Hampshire	18,564	14,320	4,244	24
Rhode Island	12,722	9,047	3,675	20
Vermont	8,528	6,839	1,689	9
<b>New England</b>	<b>165,528</b>	<b>126,044</b>	<b>39,484</b>	<b>219</b>
<b>United States</b>	<b>4,176,954</b>	<b>2,947,677</b>	<b>1,229,277</b>	<b>6,829</b>

Source: New England Board of Higher Education analysis of Editorial Project in Education (EPE) Research Center data, *Diplomas Count 2008*.

**Fig. 14: Percent of High School Graduates Enrolling in College the Fall after Graduating High School, 2007**

	High School Graduates 2006-07	First-Time Freshmen Enrolled Directly from High School Anywhere in the U.S. Fall 2007	Percent of High School Graduates Going Directly to College
Connecticut	37,316	23,928	64%
Maine	13,415	6,808	76
Massachusetts	61,299	37,738	88
New Hampshire	14,261	8,757	77
Rhode Island	10,167	6,706	68
Vermont	6,953	3,753	62
<b>New England</b>	<b>143,411</b>	<b>87,690</b>	<b>83</b>
<b>United States</b>	<b>2,956,147</b>	<b>1,491,162</b>	<b>50%</b>

Source: New England Board of Higher Education analysis of National Center for Education Statistics and Western Interstate data; [www.wiche.edu](http://www.wiche.edu).

**Fig. 15: Migration of First-Time Freshmen to and from New England, 2007**

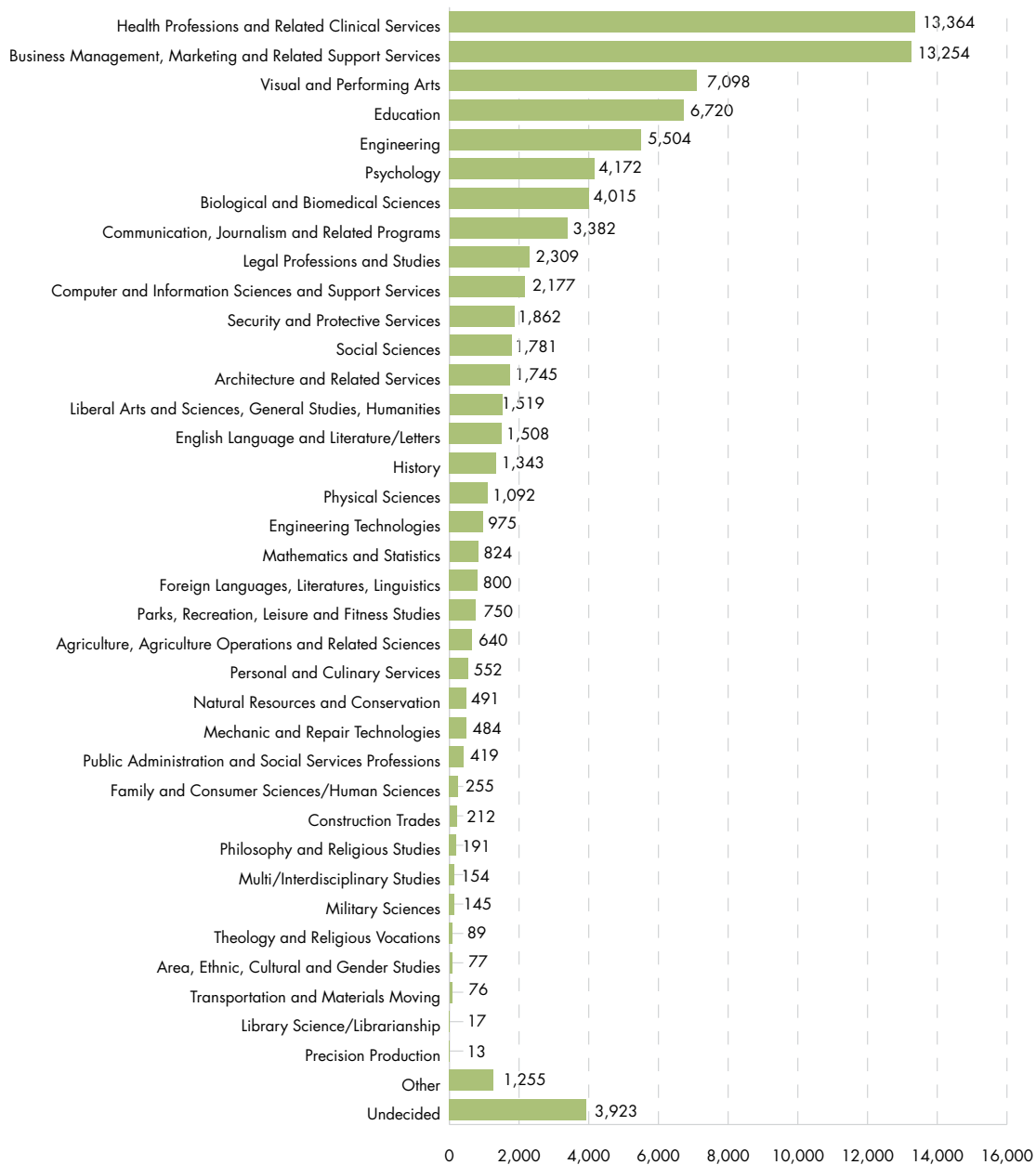
State of Origin	Total Freshmen from State	Destination State						Total Enrolling in New England
		CT	ME	MA	NH	RI	VT	
Connecticut	23,928	14,215	194	1,906	748	620	467	18,150
Maine	6,808	113	4,402	568	376	91	215	5,765
Massachusetts	37,738	1,518	614	24,262	2,168	1,661	951	31,174
New Hampshire	8,757	214	271	1,003	5,295	183	371	7,337
Rhode Island	6,706	202	41	588	194	4,838	88	5,951
Vermont	3,753	93	91	256	285	73	1,971	2,769
<b>New England</b>	<b>87,690</b>	<b>16,355</b>	<b>5,613</b>	<b>28,583</b>	<b>9,066</b>	<b>7,466</b>	<b>4,063</b>	<b>71,146</b>

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



Most college-bound high school seniors in New England name health or business fields as their intended college majors.

**Fig. 16: Intended College Majors of College-Bound Seniors in New England, 2008**

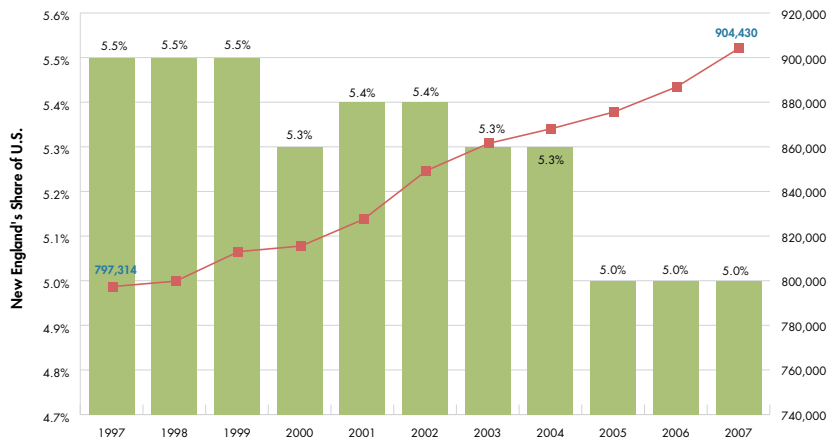


Source: The College Board; [www.collegeboard.com](http://www.collegeboard.com).

COLLEGE ACCESS, *continued*

New England's colleges and universities enrolled 904,000 students in 2007. Nearly half of New England students attend private institutions, compared with about one-quarter nationally.

**Fig. 17: Total Enrollment at New England Colleges and Universities and New England's Share of U.S. Enrollment, 1997 to 2007**



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

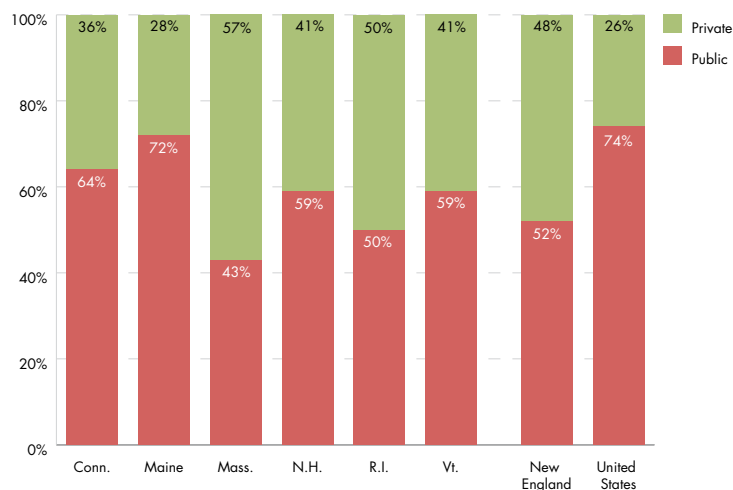
**Fig. 18: Higher Education Enrollment in New England by Type of Institution and Enrollment Status, 2007**

	All Institutions			Public Institutions			Private Institutions		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
<b>Connecticut</b>	179,136	116,843	62,293	114,072	66,503	47,569	65,064	50,340	14,724
<b>Maine</b>	67,173	42,434	24,739	48,357	27,980	20,377	18,816	14,454	4,362
<b>Massachusetts</b>	462,236	317,988	144,248	198,187	112,000	86,187	264,049	205,988	58,061
<b>New Hampshire</b>	70,724	49,513	21,211	41,982	27,405	14,577	28,742	22,108	6,634
<b>Rhode Island</b>	82,970	61,030	21,940	41,503	24,442	17,061	41,467	36,588	4,879
<b>Vermont</b>	42,191	31,437	10,754	24,829	16,429	8,400	17,362	15,008	2,354
<b>New England</b>	<b>904,430</b>	<b>619,245</b>	<b>285,185</b>	<b>468,930</b>	<b>274,759</b>	<b>194,171</b>	<b>435,500</b>	<b>344,486</b>	<b>91,014</b>
<b>United States</b>	<b>17,976,000</b>	<b>11,104,000</b>	<b>6,872,000</b>	<b>13,373,000</b>			<b>4,603,000</b>		
<b>New England as a % of United States</b>	<b>5.0</b>	<b>5.6</b>	<b>4.1</b>	<b>3.5</b>	<b>NA</b>	<b>NA</b>	<b>9.5</b>	<b>NA</b>	<b>NA</b>

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

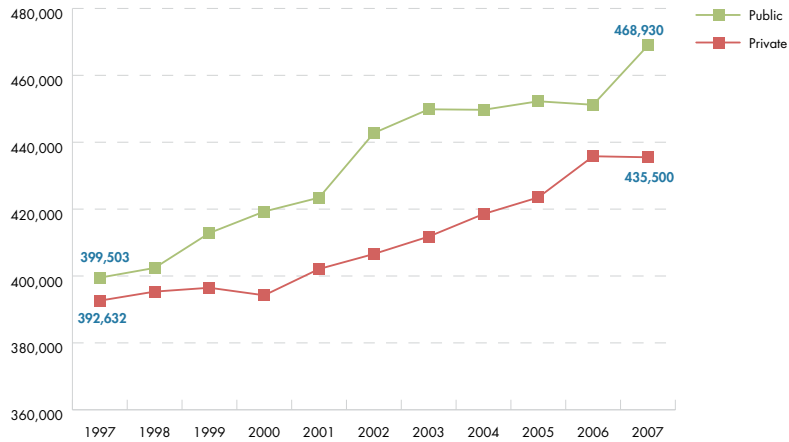
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 19: Distribution of Higher Education Enrollment, Public vs. Private, 2007**



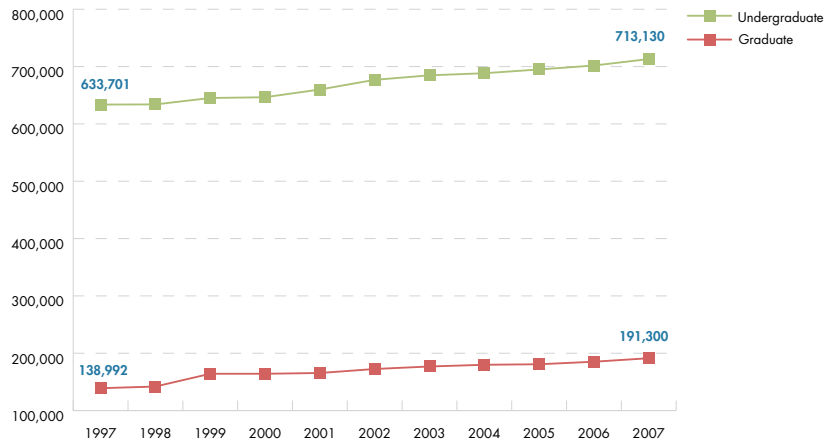
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 20: Public vs. Private College Enrollment in New England, 1997 to 2007**



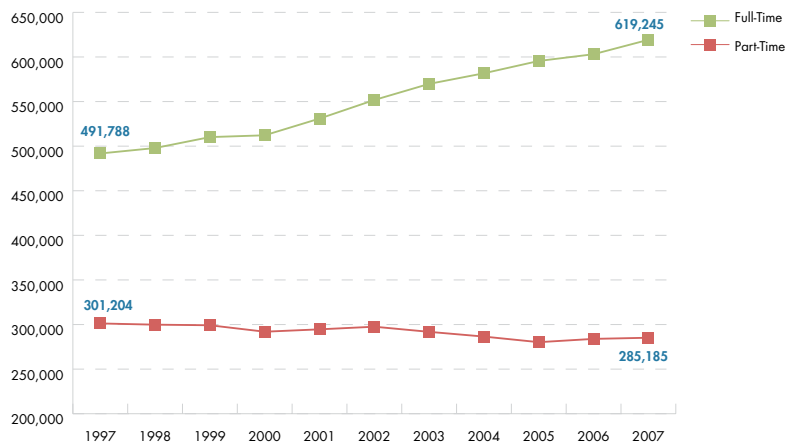
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 21: Undergraduate vs. Graduate Enrollment in New England, 1997-2007**

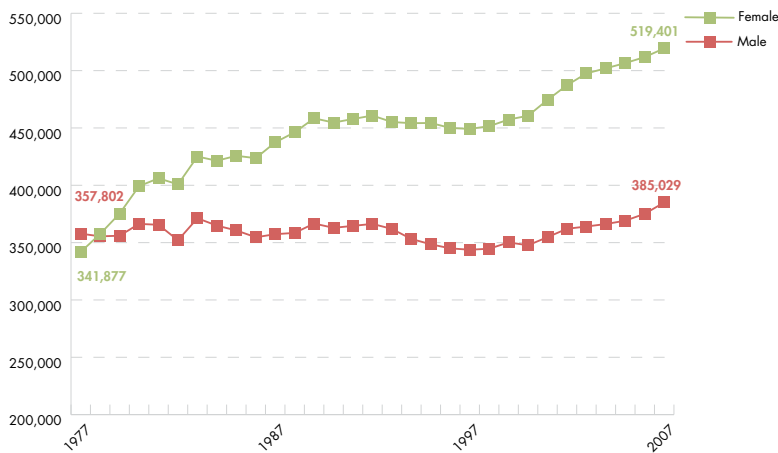


Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 22: New England's Opening Fall Enrollment: 1997 to 2007**



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, 1977 to 2007**

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 2007**

Institution Name	Full-time	Part-time	Total
University of Massachusetts Amherst	18,646	1,468	20,114
Boston University	17,206	1,527	18,733
Northeastern University	15,339	2,625	17,964
Community College of Rhode Island	6,310	10,501	16,811
University of Connecticut	15,615	733	16,348
University of Rhode Island	10,861	1,655	12,516
University of New Hampshire	11,471	574	12,045
University of Vermont	9,299	1,205	10,504
University of Massachusetts Boston	6,644	3,364	10,008
Boston College	9,446	414	9,860
Harvard University	7,136	2,723	9,859
Central Connecticut State University	7,658	2,046	9,704
University of Maine	7,892	1,704	9,596
Johnson & Wales University	8,179	874	9,053
University of Massachusetts Lowell	6,001	2,878	8,879
Bunker Hill Community College	2,708	6,098	8,806
Southern Connecticut State University	7,114	1,401	8,515
Bridgewater State College	6,771	1,389	8,160
University of Southern Maine	4,754	3,379	8,133
Middlesex Community College (Mass.)	3,440	4,684	8,124
University of Massachusetts Dartmouth	6,848	1,079	7,927
Rhode Island College	5,431	2,219	7,650
Salem State College	5,718	1,889	7,607
Bristol Community College	3,365	4,023	7,388
North Shore Community College	3,033	4,074	7,107
<b>Total 25 Largest Institutions</b>	<b>206,885</b>	<b>64,526</b>	<b>271,411</b>

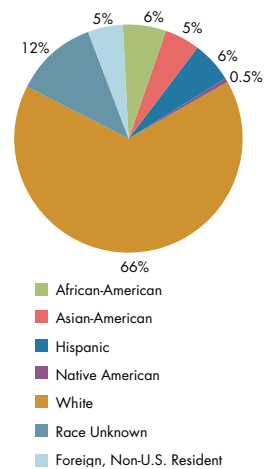
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 25: New England Cities with the Largest Total College Enrollments, 2007**

City	Number of Colleges & Universities	Total Enrollment
Boston, Mass.	33	137,321
Cambridge, Mass.	8	49,113
Providence, R.I.	5	35,309
New Haven, Conn.	4	31,975
Amherst, Mass.	3	28,987
Storrs, Conn.	1	28,677
Worcester, Mass.	8	27,858
Warwick, R.I.	2	19,804
Lowell, Mass.	2	19,759
Newton, Mass.	7	19,758
Manchester, N.H.	6	19,567
Springfield, Mass.	4	17,236
Portland, Maine	4	15,685
Kingston, R.I.	1	15,650
Burlington, Vt.	4	15,607
Durham, N.H.	1	14,964
New Britain, Conn.	2	13,720
Waltham, Mass.	2	10,938
Bridgeport, Conn.	3	10,257
Medford, Mass.	1	10,234
Salem, Mass.	1	10,085

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, 2008.

**Fig. 26: Enrollment at New England Colleges and Universities by Race/Ethnicity, 2007**

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.

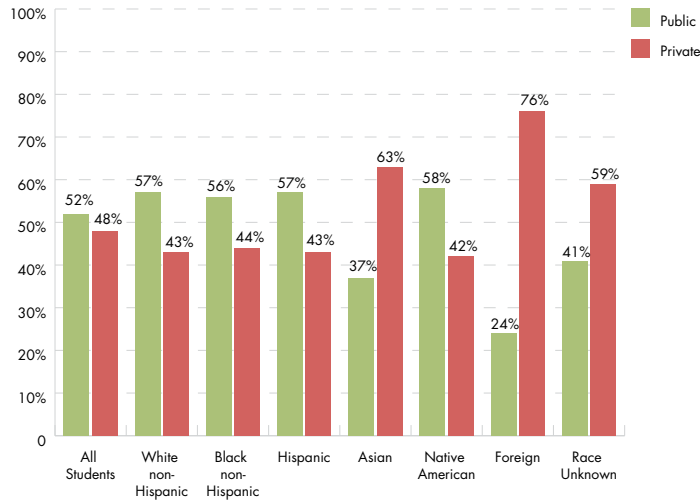
**Fig. 27: Minority Enrollment by State and Race/Ethnicity, 1997 and 2007**

		Students Enrolled				As % of 18-to 24-Year-Old Population 2007	% Change in Enrollment 1997-2007
		1997	% of Total	2007	% of Total		
<b>Connecticut</b>	<b>African-American</b>	11,609	7.6%	17,766	9.9%	5%	53%
	<b>Asian-American</b>	5,646	3.7	7,432	4.1	2	32
	<b>Hispanic</b>	7,801	5.1	14,567	8.1	5	87
	<b>Native American</b>	539	0.4	628	0.4	<1	17
	<b>White</b>	113,817	74.6	115,979	64.7	36	2
	<b>Race Unknown</b>	7,338	4.8	15,039	8.4	NA	105
<b>Maine</b>	<b>African-American</b>	413	0.7	1,083	1.6	1	162
	<b>Asian-American</b>	689	1.2	1,128	1.7	1	64
	<b>Hispanic</b>	333	0.6	787	1.2	1	136
	<b>Native American</b>	687	1.2	847	1.3	1	23
	<b>White</b>	47,304	84.7	57,094	85.0	50	21
	<b>Race Unknown</b>	5,566	10.0	4,826	7.2	NA	-13
<b>Massachusetts</b>	<b>African-American</b>	21,487	5.2	32,147	7.0	5	50
	<b>Asian-American</b>	22,965	5.6	29,061	6.3	4	27
	<b>Hispanic</b>	16,396	4.0	27,077	5.9	4	65
	<b>Native American</b>	1,453	0.4	1,701	0.4	<1	17
	<b>White</b>	268,961	65.5	279,969	60.6	43	4
	<b>Race Unknown</b>	54,367	13.2	64,049	13.9	NA	18
<b>New Hampshire</b>	<b>African-American</b>	816	1.3	1,158	1.6	<1	42
	<b>Asian-American</b>	1,032	1.6	1,637	2.3	<1	59
	<b>Hispanic</b>	874	1.4	1,492	2.1	<1	71
	<b>Native American</b>	219	0.3	365	0.5	<1	67
	<b>White</b>	50,743	79.5	51,560	72.9	43	2
	<b>Race Unknown</b>	8,831	13.8	12,634	17.9	NA	43
<b>Rhode Island</b>	<b>African-American</b>	3,046	4.2	4,198	5.1	4	38
	<b>Asian-American</b>	2,604	3.6	3,060	3.7	3	18
	<b>Hispanic</b>	2,806	3.9	5,069	6.1	4	81
	<b>Native American</b>	236	0.3	339	0.4	<1	44
	<b>White</b>	54,042	75.0	54,467	65.6	48	1
	<b>Race Unknown</b>	6,705	9.3	12,808	15.4	NA	91
<b>Vermont</b>	<b>African-American</b>	386	1.1	779	1.8	1	102
	<b>Asian-American</b>	576	1.6	926	2.2	1	61
	<b>Hispanic</b>	533	1.5	906	2.1	1	70
	<b>Native American</b>	189	0.5	231	0.5	<1	22
	<b>White</b>	31,083	85.8	35,104	83.2	56	13
	<b>Race Unknown</b>	2,671	7.4	3,399	8.1	NA	27
<b>New England</b>	<b>African-American</b>	37,757	4.8	57,131	6.3	4	51
	<b>Asian-American</b>	33,512	4.2	43,224	4.8	3	29
	<b>Hispanic</b>	28,743	3.6	49,898	5.5	4	74
	<b>Native American</b>	3,323	0.4	4,111	0.5	<1	24
	<b>White</b>	565,950	71.5	594,173	65.7	43	5
	<b>Race Unknown</b>	85,478	10.8	112,755	12.5	NA	32
<b>United States</b>	<b>African-American</b>	1,551,000	10.8	2,319,000	12.9	7	50
	<b>Asian-American</b>	859,200	6.0	1,197,000	6.7	3	39
	<b>Hispanic</b>	1,218,500	8.5	2,024,000	11.3	6	66
	<b>Native American</b>	142,500	1.0	181,000	1.0	1	27
	<b>White</b>	10,266,100	71.5%	11,660,000	64.9%	33%	14%

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 are for 2006, the most recent data available.

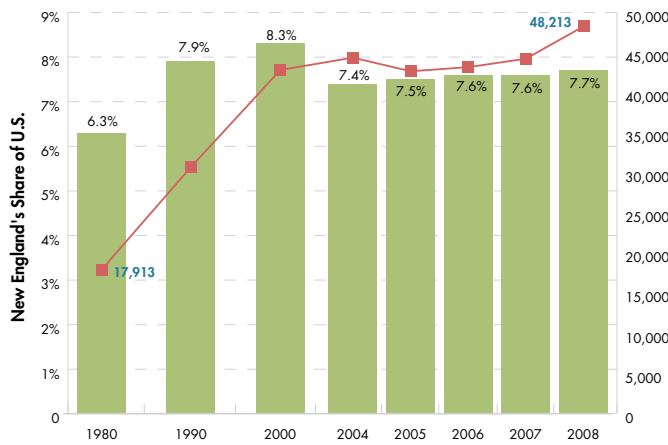
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 28: Public vs. Private College Enrollment in New England by Race/Ethnicity, 2007**



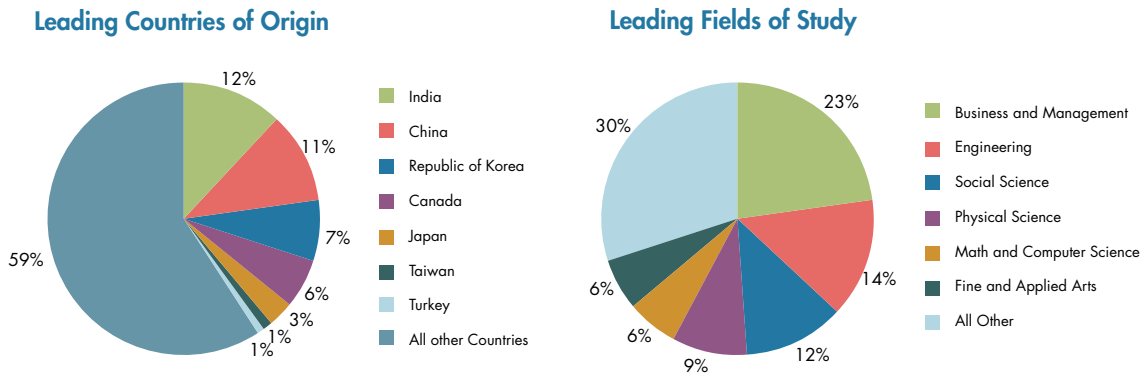
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 29: Foreign Enrollment at New England Colleges and Universities and Share of U.S. Foreign Enrollment, 1980 to 2008**



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, 2008**



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, 2007-08**

	Number of Foreign Students	Tuition & Fees	Living Expenses & Dependents	U.S. Funding	Total Contribution Minus U.S. Support
Connecticut	8,035	\$187,025,972	\$181,559,451	\$122,123,366	\$246,462,058
Maine	1,214	22,972,916	20,735,017	14,917,939	28,789,994
Massachusetts	31,817	796,949,073	704,760,709	471,744,617	1,003,965,164
New Hampshire	2,387	56,648,710	44,029,700	29,269,701	71,408,709
Rhode Island	3,850	92,055,106	74,181,551	36,858,578	129,378,078
Vermont	910	20,147,941	15,223,011	13,403,961	21,966,991
<b>New England</b>	<b>48,213</b>	<b>\$1,175,799,718</b>	<b>\$1,040,489,439</b>	<b>\$714,318,162</b>	<b>\$1,501,970,994</b>
<b>United States</b>	<b>623,805</b>	<b>\$10,639,000,000</b>	<b>\$10,979,000,000</b>	<b>\$6,488,000,000</b>	<b>\$15,543,000,000</b>

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, 2008**

Institution	Foreign Enrollment	U.S. Rank	Total Enrollment	Foreign Students as a % of Total Enrollment
Harvard University	4,948	9th	19,987	25%
Boston University	4,789	10th	32,053	15
Massachusetts Institute of Technology	3,360	27th	11,089	30
Northeastern University	2,444	43rd	24,217	10
University of Bridgeport	2,076	59th	4,752	44
Yale University	2,062	61st	11,454	18
University of Massachusetts Amherst	1,743	78th	25,873	7
University of Connecticut	1,405	105th	28,677	5
Johnson & Wales University	1,399	106th	16,095	9
Brown University	1,105	135th	8,167	14
Brandeis University	1,052	146th	5,333	20
<b>Total of Above Institutions</b>	<b>26,383</b>		<b>187,697</b>	<b>14%</b>
<b>Total of All New England Institutions</b>	<b>48,213</b>		<b>904,430</b>	<b>5%</b>
<b>Above Institutions as a Share of All New England Institutions</b>	<b>55%</b>		<b>21%</b>	

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, 2007**

Institution	Undergraduates Studying Abroad	Total Undergraduate Enrollment	Percentage of Students Studying Abroad
Colby College	456	1,867	24%
Bates College	339	1,660	20
Middlebury College	426	2,500	17
Dartmouth College	660	4,164	16
Babson College	264	1,799	15
Tufts University	731	5,035	15
Bowdoin College	228	1,716	13
Mount Holyoke College	276	2,201	13
Wellesley College	272	2,380	11
Trinity College	257	2,337	11
Saint Michael's College	219	2,008	11%

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

# COLLEGE SUCCESS

Only 20% of students earn associate degrees from New England community colleges within three years of enrolling—and the rate is even lower among minority groups.

**Fig. 34: Graduation Rates by State, Race/Ethnicity and Type of Institution, 2007**

	Foreign	Black, non-Hispanic	American Indian or Alaskan Native	Asian or Pacific Islander	Hispanic	White, non-Hispanic	Race/Ethnicity Unknown	Total
<b>Public Two-Year</b>								
Connecticut	43%	5%	16%	9%	6%	12%	10%	10%
Maine	33	16	11	44	21	30	24	29
Massachusetts	38	11	16	15	9	19	14	17
New Hampshire	NA	16	NA	42	20	27	34	28
Rhode Island	60	13	NA	6	7	10	5	10
Vermont	NA	NA	NA	NA	NA	13	17	13
New England	49	14	14	16	13	21	19	20
<b>Public Four-Year</b>								
Connecticut	41	33	41	42	38	46	46	44
Maine	46	45	30	90	68	59	52	58
Massachusetts	41	38	8	42	39	47	43	45
New Hampshire	75	43	71	46	71	54	56	54
Rhode Island	NA	40	100	32	23	47	45	45
Vermont	NA	25	60	63	20	46	34	44
New England	44	48	30	40	34	46	41	44
<b>Public Land Grant</b>								
Connecticut	65	64	83	77	58	76	74	74
Maine	73	43	50	32	44	60	100	59
Massachusetts	66	52	58	64	52	68	62	66
New Hampshire	75	43	71	46	71	54	56	54
Rhode Island	67	45	29	43	42	60	50	58
Vermont	58	52	NA	68	63	71	46	72
New England	59	53	NA	69	65	73	47	72
<b>Private Four-Year</b>								
Connecticut	74	50	64	80	57	67	63	66
Maine	90	65	55	78	68	63	49	63
Massachusetts	72	64	68	80	71	72	65	72
New Hampshire	79	58	72	85	63	61	70	60
Rhode Island	82	61	71	82	64	68	73	69
Vermont	72	53	71	74	66	68	58	67
New England	75%	63%	69%	81%	69%	71%	64%	71%

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, 2007**

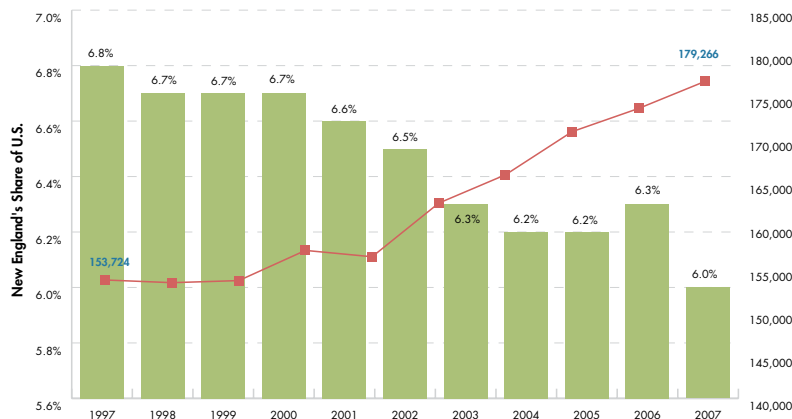
	Public Two-Year		Public Four-Year		Public Land Grant		Private Four-Year	
	% Graduating	% Transferring to Other Institutions	% Graduating	% Transferring to Other Institutions	% Graduating	% Transferring to Other Institutions	% Graduating	% Transferring to Other Institutions
Connecticut	10%	22%		10%	74%	17%	66%	7%
Maine	29	14	58	16	59	NA	63	4
Massachusetts	17	19	45	5	66	NA	72	5
New Hampshire	28	NA	54	NA	54	NA	60	4
Rhode Island	10	21	45	NA	58	NA	69	2
Vermont	13	31	44	NA	72	NA	67	2
<b>New England</b>	<b>20%</b>	<b>19%</b>	<b>44%</b>	<b>NA</b>	<b>72%</b>	<b>NA</b>	<b>71%</b>	<b>NA</b>

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 2001 (four-year institutions) or 2004 (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.

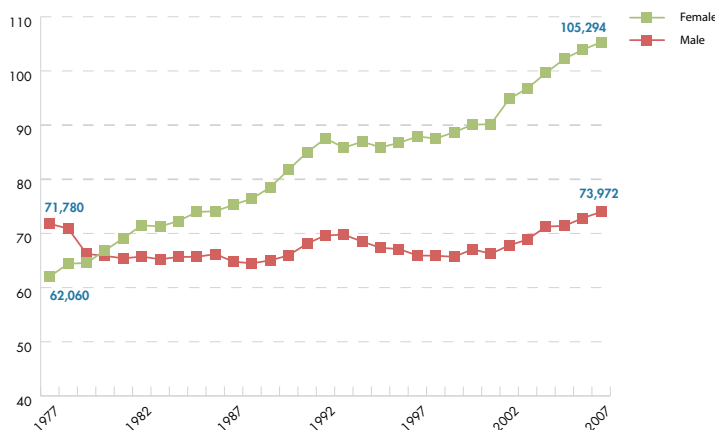
Nearly 60% of all higher education degrees awarded in New England are conferred on women.

**Fig. 36: Total Degrees Awarded at New England's Colleges and Universities and New England's Share of U.S. Degrees, 1997 to 2007**

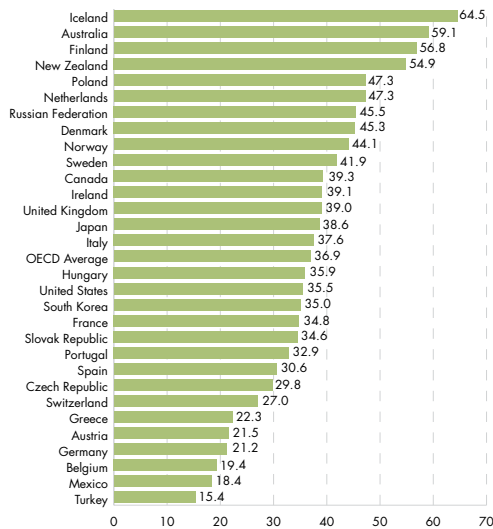


Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 37: Degrees Awarded in New England by Gender, 1977 to 2007**



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

**Fig. 38: Attainment of College (Tertiary-Type A) Degrees by Country, 2006**

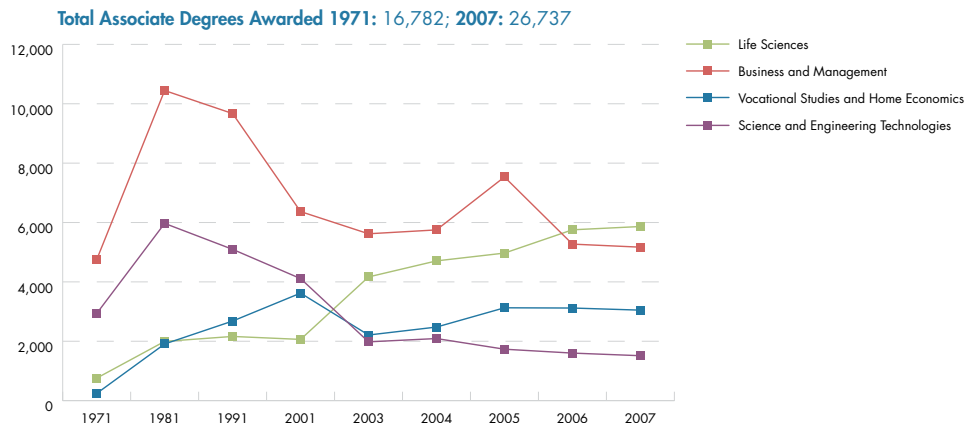
Note: Tertiary-type A programs are largely theory-based and designed to provide sufficient qualifications for entry to advanced research programs and roughly correspond to bachelor's and master's degree programs in the United States. Advanced research programs correspond to doctorate programs.

Source: Organisation for Economic Co-operation and Development (OECD), Education at a Glance: OECD Indicators 2008.

**Fig. 39: Associate Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007**

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
<b>Connecticut</b>	5,069	1,651	3,418	123	716	20	120	474	3,359	257
<b>Maine</b>	2,440	912	1,528	12	35	46	23	19	2,165	140
<b>Massachusetts</b>	10,766	4,057	6,709	246	974	37	490	677	7,415	927
<b>New Hampshire</b>	3,346	1,223	2,123	10	38	10	41	83	2,649	515
<b>Rhode Island</b>	3,841	1,873	1,968	83	257	21	122	241	2,627	490
<b>Vermont</b>	1,275	517	758	8	20	8	20	12	1,107	100
<b>New England</b>	<b>26,737</b>	<b>10,233</b>	<b>16,504</b>	<b>482</b>	<b>2,040</b>	<b>142</b>	<b>816</b>	<b>1,506</b>	<b>19,322</b>	<b>2,429</b>
<b>% of New England Associate Degrees</b>		<b>38%</b>	<b>62%</b>	<b>2%</b>	<b>8%</b>	<b>0.5%</b>	<b>3%</b>	<b>6%</b>	<b>72%</b>	<b>9%</b>

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 2007**

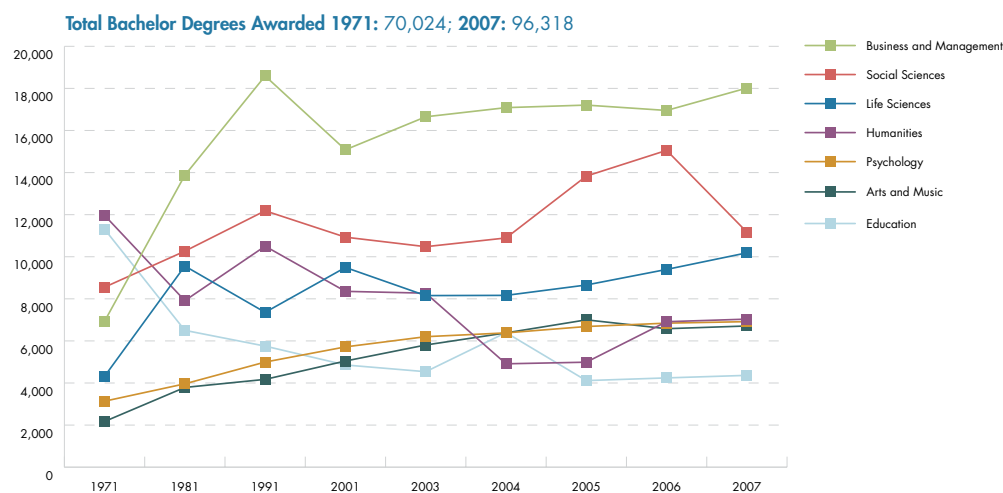
Note: Disciplines not listed include: Arts and Music, Education, Social Service Professions, Communication and Librarianship, Engineering, Psychology, Social Sciences, Geosciences, Law, Interdisciplinary or other Sciences, Physical Sciences, Architecture and Environmental Design, Humanities, Religion and Theology, Math and Computer Sciences and unknown disciplines. These unlisted disciplines awarded 11,142 degrees in 2007.

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

**Fig. 41: Bachelor's Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007**

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	18,290	7,621	10,669	469	1,276	68	861	963	13,065	1,588
Maine	6,900	2,803	4,097	382	97	59	136	87	5,901	238
Massachusetts	47,739	20,235	27,504	2,175	2,560	156	3,435	2,180	31,779	5,454
New Hampshire	8,306	3,543	4,763	190	153	43	235	189	6,488	1,008
Rhode Island	9,982	4,299	5,683	305	430	24	411	413	7,385	1,014
Vermont	5,101	2,311	2,790	93	75	22	131	110	4,400	270
<b>New England</b>	<b>96,318</b>	<b>40,812</b>	<b>55,506</b>	<b>3,614</b>	<b>4,591</b>	<b>372</b>	<b>5,209</b>	<b>3,942</b>	<b>69,018</b>	<b>9,572</b>
<b>% of New England Bachelor's Degrees</b>		<b>42%</b>	<b>58%</b>	<b>4%</b>	<b>5%</b>	<b>0.4%</b>	<b>5%</b>	<b>4%</b>	<b>72%</b>	<b>10%</b>

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 2007**

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 29,914 degrees in 2007.

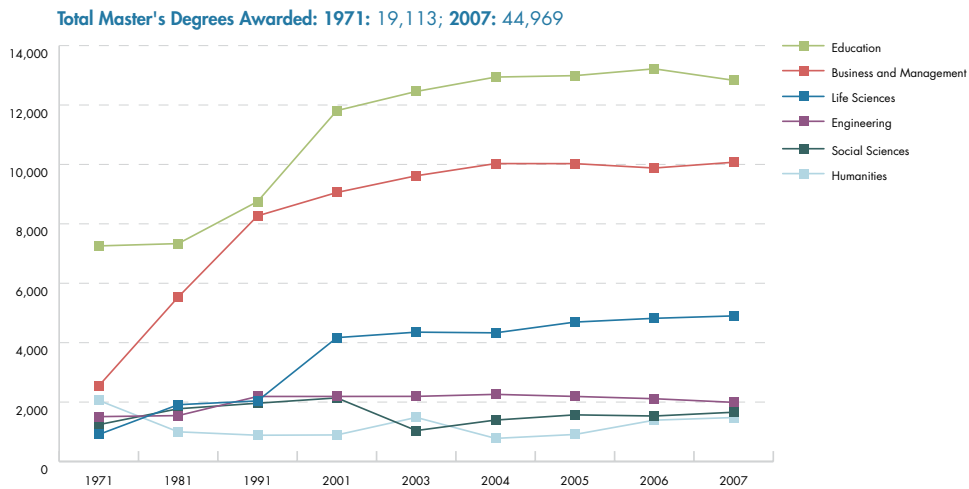
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 43: Master's Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007**

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	8,582	3,461	5,121	1,041	487	25	338	313	5,537	841
Maine	1,614	474	1,140	37	9	12	14	13	1,379	150
Massachusetts	27,575	10,564	17,011	3,893	1,505	65	1,544	905	14,190	5,473
New Hampshire	3,017	1,149	1,868	403	46	8	64	31	1,900	565
Rhode Island	2,230	913	1,317	371	60	3	70	57	1,309	360
Vermont	1,951	829	1,122	108	55	17	38	57	1,375	301
<b>New England</b>	<b>44,969</b>	<b>17,390</b>	<b>27,579</b>	<b>5,853</b>	<b>2,162</b>	<b>130</b>	<b>2,068</b>	<b>1,376</b>	<b>25,690</b>	<b>7,690</b>
<b>% of New England Master's Degrees</b>		<b>39%</b>	<b>61%</b>	<b>13%</b>	<b>5%</b>	<b>0.3%</b>	<b>5%</b>	<b>3%</b>	<b>57%</b>	<b>17%</b>

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

**Fig. 44: Master's Degrees Awarded at New England Colleges and Universities by Selected Fields of Study, 1971 to 2007**



Note: Disciplines not listed include: Physical Sciences, 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 12,033 degrees in 2007.

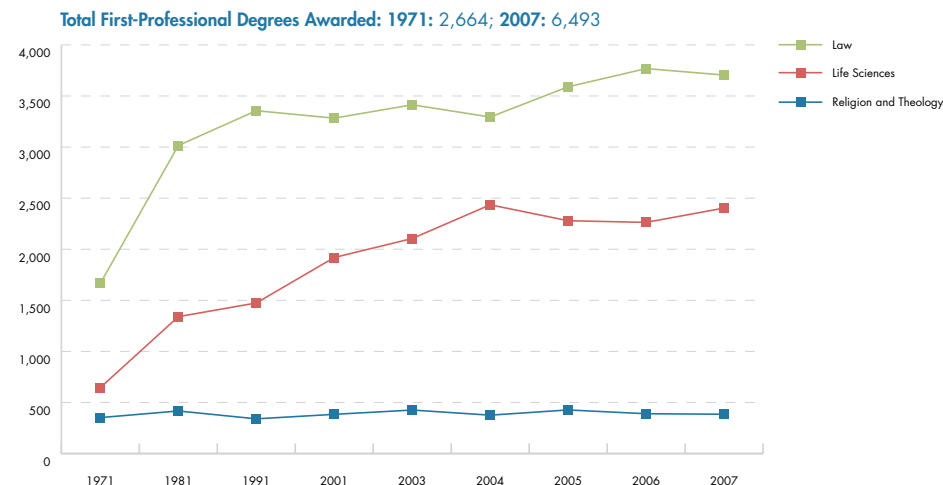
Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 45: First-Professional Degrees Conferred on Men, Women, Minorities and Foreign Students, 2007**

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	956	466	490	27	59	26	89	82	603	70
Maine	201	90	111	1	1	1	5	3	190	0
Massachusetts	4,503	2,126	2,377	185	239	15	750	182	2,689	443
New Hampshire	198	117	81	6	8	1	19	7	137	20
Rhode Island	353	145	208	4	23	1	40	10	232	43
Vermont	282	124	158	1	13	5	24	7	219	13
<b>New England</b>	<b>6,493</b>	<b>3,068</b>	<b>3,425</b>	<b>224</b>	<b>343</b>	<b>49</b>	<b>927</b>	<b>291</b>	<b>4,070</b>	<b>589</b>
<b>% of New England First-Professional Degrees</b>		<b>47%</b>	<b>53%</b>	<b>3%</b>	<b>5%</b>	<b>0.8%</b>	<b>14%</b>	<b>4%</b>	<b>63%</b>	<b>9%</b>

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 Field of Study, 1971 to 2007**

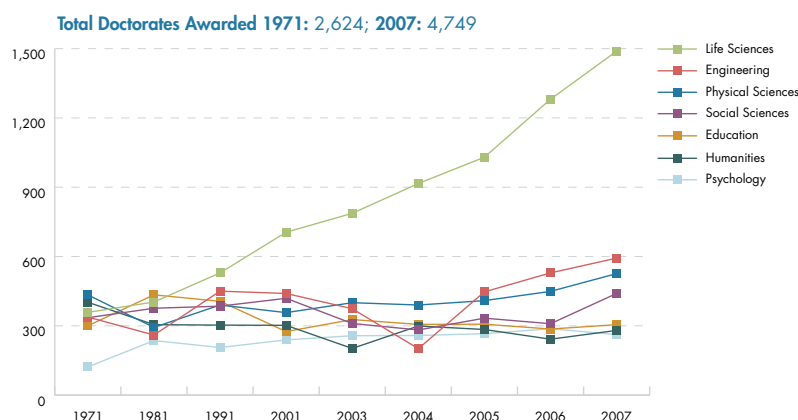


Source: New England Board of Higher Education analysis of U.S. Department of Education data.

**Fig. 47: Doctorates Conferred on Men, Women, Minorities and Foreign Students, 2007**

	Total	Men	Women	Foreign	African-American	Native American	Asian	Hispanic	White	Race Unknown
Connecticut	828	424	404	255	19	4	36	14	380	120
Maine	59	21	38	15	0	1	1	0	42	0
Massachusetts	3,325	1,738	1,587	889	88	6	194	83	1,560	505
New Hampshire	198	106	92	40	1	1	4	3	131	18
Rhode Island	279	144	135	97	6	1	7	3	126	39
Vermont	60	36	24	9	2	0	0	1	45	3
<b>New England</b>	<b>4,749</b>	<b>2,469</b>	<b>2,280</b>	<b>1,305</b>	<b>116</b>	<b>13</b>	<b>242</b>	<b>104</b>	<b>2,284</b>	<b>685</b>
<b>% of New England Doctorates</b>		<b>52%</b>	<b>48%</b>	<b>27%</b>	<b>2%</b>	<b>0.3%</b>	<b>5%</b>	<b>2%</b>	<b>48%</b>	<b>14%</b>

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 2007**

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 unlisted disciplines awarded 854 Degrees in 2007.

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

## FINANCING HIGHER EDUCATION

Total yearly charges, including room and board, top \$42,000 at New England's private four-year institutions and \$17,000 for most state residents at the region's public institutions—far above national figures.

**Fig. 49: Average Student Expenses, New England vs. United States, Academic Year 2008-09**

	Tuition & Fees for State Residents	Additional Charges for Out-of-State Residents	Books & Supplies	Resident			Commuter		
				Room & Board	Transportation	Other	Room & Board	Transportation	Other
<b>New England</b>									
Two-year public	\$3,698	\$6,261	\$894	NA	NA	NA	\$7,100	\$1,271	\$1,925
Four-year public	8,602	12,664	949	8,443	632	1,325	7,453	987	1,510
Four-year private	31,680	NA	965	10,701	597	1,183	9,572	890	1,342
<b>United States</b>									
Two-year public	\$2,402	\$4,593	\$1,036	NA	NA	NA	\$7,341	\$1,380	\$1,895
Four-year public	6,585	10,867	1,077	7,748	1,010	1,906	7,814	1,401	2,197
Four-year private	25,143	NA	1,054	8,989	807	1,397	7,696	1,241	1,784

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

Source: Table 6, Average Student Expenses, by College Board Region, 2008-2009 (Enrollment-Weighted). Trends in College Pricing 2008, (2008); 11. Copyright © 2008 College Entrance Examination Board. Reprinted with permission. All rights reserved. www.collegeboard.com.

FINANCING HIGHER EDUCATION, *continued***Fig. 50: Tuition and Fees, Academic Years 2007-08 and 2008-09 and Percent Change**

	2007-08	2008-09	Percent Change		2007-08	2008-09	Percent Change
<b>Connecticut</b>				<b>New Hampshire</b>			
Two-year public	\$2,828	\$2,984	6%	Two-year public	\$5,609	\$5,609	0%
Four-year public	7,574	8,035	6	Four-year public	9,698	10,296	6
Four-year private	30,234	31,914	6	Four-year private	26,263	29,860	6
<b>Maine</b>				<b>Rhode Island</b>			
Two-year public	3,120	3,156	1	Two-year public	2,846	3,090	9
Four-year public	7,334	8,059	10	Four-year public	7,221	7,722	7
Four-year private	27,364	28,859	5	Four-year private	28,047	29,620	6
<b>Massachusetts</b>				<b>Vermont</b>			
Two-year public	3,694	3,887	5	Two-year public	5,500	5,830	6
Four-year public	7,887	8,184	4	Four-year public	10,485	11,341	8
Four-year private	30,941	32,592	5%	Four-year private	28,176	29,886	6%

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 6c, Tuition and Fees by Region and Institution Type, in Current Dollars, 1997-1999 to 2008-2009 (Enrollment-Weighted), Trends in College Pricing 2008, (2008); 14. Copyright © 2008 College Entrance Examination Board. Reprinted with permission. All rights reserved. www.collegeboard.com

**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 \$188.**

**Fig. 51: Appropriations of State Tax Funds for Higher Education Operating Expenses, FY 2009**

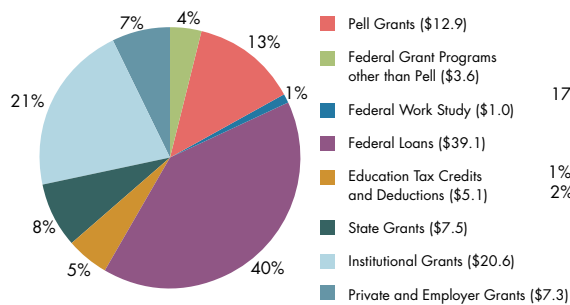
	Appropriations	1-Year % Change	10-Year % Change	Per-Capita Appropriations	U. S. Rank 2009	Appropriations Per \$1,000 of Personal Income	U.S. Rank 2009	FY07 Appropriations Per FTE Student	U. S. Rank 2007
<b>Connecticut</b>	\$1,001,601,000	-3%	61%	\$286.07	20th	\$5.07	41st	\$10,079	4th
<b>Maine</b>	266,399,000	-3	34	202.36	39th	5.71	36th	6,406	28th
<b>Massachusetts</b>	1,038,416,000	-1	7	159.81	47th	3.14	49th	8,666	6th
<b>New Hampshire</b>	138,512,000	4	52	105.27	50th	2.46	50th	3,370	49th
<b>Rhode Island</b>	162,333,000	-7	13	154.49	48th	3.74	46th	6,548	26th
<b>Vermont</b>	88,257,000	0.1	49	142.06	49th	3.66	48th	3,031	50th
<b>New England</b>	<b>2,695,518,000</b>	<b>-2</b>	<b>29</b>	<b>188.45</b>		<b>3.84</b>		<b>7,117</b>	
<b>United States</b>	<b>\$78,527,989,000</b>	<b>0.9%</b>	<b>49%</b>	<b>\$257.46</b>		<b>\$6.50</b>		<b>\$6,773</b>	

Note: FY07 appropriations per FTE data obtained via NCHEMS Information Center; www.higheredinfo.org/analyses.

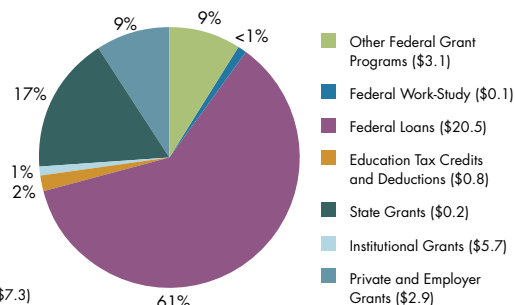
Source: New England Board of Higher Education analysis of data from Illinois State University Center for Higher Education and Education Finance; www.grapevine.ilstu.edu.

**Fig. 52: Total Undergraduate and Graduate Student Aid by Source, 2007-08**

**Undergraduate Aid (\$106.7 Billion)**



**Graduate Aid (\$36.7 Billion)**



Source: Trends in Student Aid. Copyright ©2008 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	
	2006-07 Expenditures	2007 Total Recipients	2008-09 Allocations	2007 Total Recipients	2008-09 Level of Expenditure*	2007 Total Recipients	2008-09 Allocations	2007 Total Recipients
Connecticut	\$911,551,498	40,466	\$11,297,279	9,353	\$25,921,806	8,248	\$8,634,921	14,248
Maine	52,408,037	21,326	8,014,279	6,646	19,996,395	7,388	6,873,355	10,487
Massachusetts	179,318,447	75,143	45,033,214	37,097	107,243,915	37,572	29,350,977	39,277
New Hampshire	29,344,622	12,852	6,599,153	6,577	17,398,731	6,681	5,026,923	8,536
Rhode Island	31,468,220	13,660	8,216,755	6,661	28,296,916	10,101	6,871,548	11,469
Vermont	19,047,759	8,289	5,820,087	5,765	12,990,026	5,872	5,322,509	5,194
<b>New England</b>	<b>1,223,138,583</b>	<b>171,736</b>	<b>84,980,767</b>	<b>72,099</b>	<b>211,847,789</b>	<b>75,862</b>	<b>62,080,233</b>	<b>89,211</b>
<b>United States</b>	<b>\$12,817,316,257</b>	<b>\$5,164,959</b>	<b>\$973,964,697</b>	<b>\$694,934</b>	<b>\$2,035,500,052</b>	<b>\$725,404</b>	<b>\$757,268,254</b>	<b>\$1,417,211</b>
<b>New England as a % of United States</b>	<b>9.5%</b>	<b>3.3%</b>	<b>8.7%</b>	<b>10.4%</b>	<b>10%</b>	<b>10.5%</b>	<b>8.2%</b>	<b>6.3%</b>

Note: Spending on federal campus-based programs is reported as 2008-09 allocations. Spending on Pell Grants is reported as 2006-07 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 State Grant Aid Awarded: 1996-97, 2001-02, 2005-06, 2006-07**

	1996-97	2001-02	2005-06	2006-07	5-Year % Change	10-Year % Change
Connecticut	\$20,299,000	\$45,175,000	\$39,382,000	\$42,198,000	-7%	108%
Maine	7,036,000	12,416,000	13,387,000	15,556,000	25	121
Massachusetts	57,477,000	114,600,000	80,093,000	83,649,000	-27	46
New Hampshire	679,000	3,075,000	3,753,000	3,727,000	21	449
Rhode Island	5,699,000	6,077,000	12,883,000	13,021,000	114	128
Vermont	11,466,000	15,949,000	18,580,000	18,343,000	15	60
<b>New England</b>	<b>102,656,000</b>	<b>197,292,000</b>	<b>168,078,000</b>	<b>176,494,000</b>	<b>-11</b>	<b>72</b>
<b>United States</b>	<b>\$3,090,312,000</b>	<b>\$5,140,500,000</b>	<b>\$7,043,186,000</b>	<b>\$7,643,016,000</b>	<b>49%</b>	<b>147%</b>

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, 2007**

	State Need-Based Grant Total	Federal Pell Grant Total	State Need-Based Aid as a Percent of Federal Pell Grant Aid
Connecticut	\$41,716,000	\$97,551,498	46%
Maine	15,556,000	52,408,037	30
Massachusetts	83,649,000	179,318,447	47
New Hampshire	3,718,000	29,344,622	13
Rhode Island	13,021,000	31,468,220	41
Vermont	18,247,000	19,047,759	96
<b>New England</b>	<b>175,907,000</b>	<b>403,138,583</b>	<b>44%</b>
<b>United States</b>	<b>\$5,514,131,000</b>	<b>\$12,817,316,257</b>	<b>43</b>

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

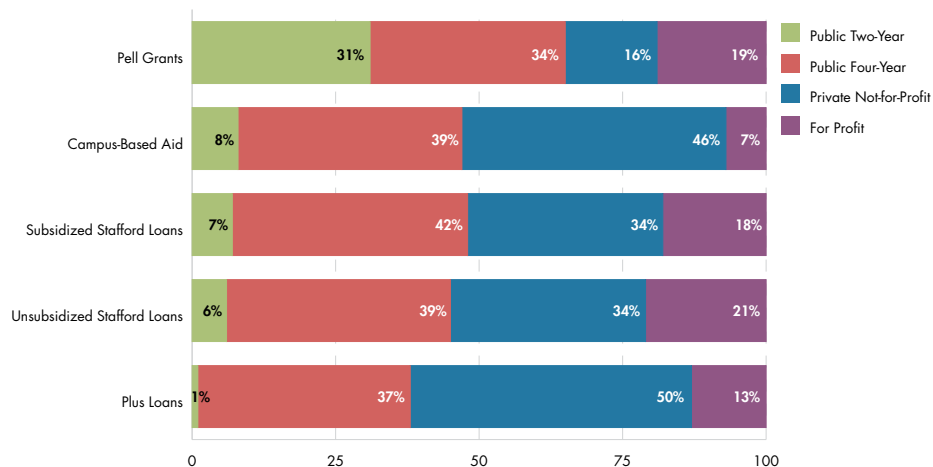
**Fig. 56: Percent of Family Income Needed to Pay for College by Income Groups, 2008**

	% of All Family Income Needed to Pay	% Lowest Income Quintile	% 2nd Income Quintile	% 3rd Income Quintile	% 4th Income Quintile	% Highest Income Quintile
<b>Connecticut</b>						
Public Two-Year	25%	57%	29%	18%	12%	7%
Public Four-Year	29	68	33	23	15	9
Private Four-Year	81	219	83	49	33	20
<b>Maine</b>						
Public Two-Year	30	60	36	25	17	10
Public Four-Year	36	74	40	31	21	13
Private Four-Year	84	218	87	55	37	23
<b>Massachusetts</b>						
Public Two-Year	26	63	30	19	12	7
Public Four-Year	32	74	37	25	16	10
Private Four-Year	92	255	94	55	35	21
<b>New Hampshire</b>						
Public Two-Year	34	83	38	25	17	10
Public Four-Year	36	84	39	27	18	11
Private Four-Year	72	191	74	46	32	20
<b>Rhode Island</b>						
Public Two-Year	32	79	37	23	15	9
Public Four-Year	36	82	41	28	18	11
Private Four-Year	96	260	102	59	38	24
<b>Vermont</b>						
Public Two-Year	34	73	41	27	18	11
Public Four-Year	39	82	45	33	21	13
Private Four-Year	78	195	85	53	36	23
<b>United States</b>						
Public Two-Year	24	49	29	20	13	7
Public Four-Year	28	55	33	25	16	10
Private Four-Year	76%	197%	79%	50%	33%	20%

Note: Figure shows net price (tuition and room and board minus federal, state and institutional financial aid) by income quintile as a percent of family income in that quintile.

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



**Fig. 57: Distribution of Federal Aid Funds by Type of Institution, 2006-07**

Note: Total Aid includes Federal Work-Study and Education Tax Benefits. Loan numbers do not include private nonfederal loans, which provide funding for students but do not involve subsidies. For years 1995-96 and earlier, Net Commitments are estimated.

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

**Fig. 58: Average Student Debt and Percent of Students with Debt by State, Class of 2007**

	Average Debt				Percent of Students with Debt		
	2007	2006	1-Year Change in Debt	U.S. Rank 2007	2007	2006	U.S. Rank 2007
<b>Connecticut</b>	\$22,215	\$20,326	\$1,889	11th	58%	56%	33rd
<b>Maine</b>	22,948	21,399	1,549	8th	68	69	8th
<b>Massachusetts</b>	21,090	19,056	2,034	19th	63	62	21st
<b>New Hampshire</b>	25,211	24,461	750	2nd	74	72	3rd
<b>Rhode Island</b>	23,172	20,098	3,074	7th	67	60	12th
<b>Vermont</b>	24,329	22,337	1,992	4th	63	62	19th
<b>United States</b>	\$20,098	\$18,976	\$1,122		59%	59%	

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

**Fig. 59: New England's 10 Largest College Endowments, FY 2008**

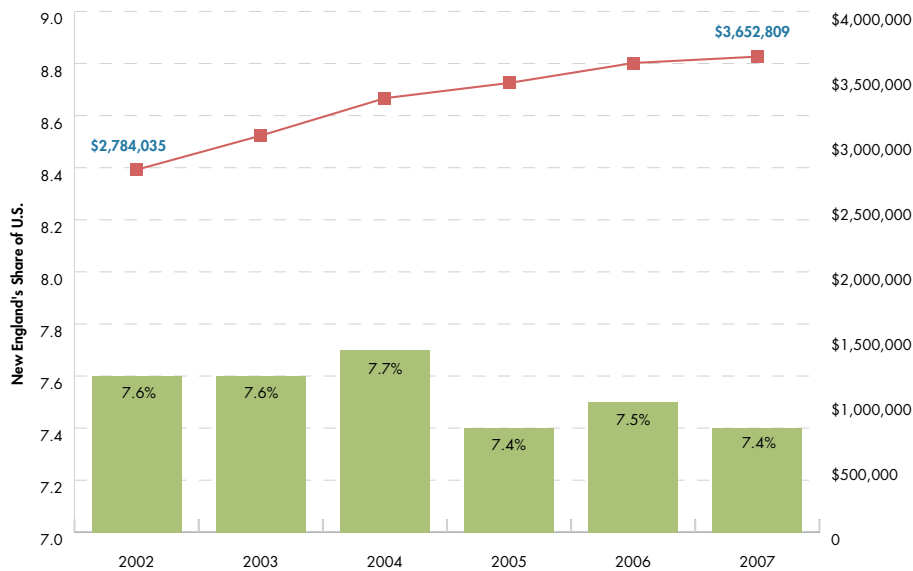
U.S. Rank	New England Rank	Institution	Market Value at End of FY 2008	% Change from FY 2007
1st	1st	Harvard University	\$36,556,284,000	6%
2nd	2nd	Yale University	22,869,700,000	2
6th	3rd	Massachusetts Institute of Technology	10,068,800,000	1
21st	4th	Dartmouth College	3,660,159,000	-3
25th	5th	Brown University	2,746,832,000	4
34th	6th	Williams College	1,808,280,000	-4
40th	7th	Amherst College	1,705,917,000	3
43rd	8th	Boston College	1,630,626,000	-2
44th	9th	Wellesley College	1,611,319,000	-3
49th	10th	Tufts University	1,445,662,000	-0.4%

Source: New England Board of Higher Education analysis of 2008 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 2007, but the region's share of all U.S. university R&D dropped slightly to 7.4%.

**Fig. 60: Research and Development Expenditures at New England's Colleges and Universities and New England's Share of U.S. R&D Expenditures, 1992 to 2007**



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 Colleges and Universities, 2002 and 2007**

	2002		5-Year % Change	Per-Capita Expenditures		Per-Capita U.S. Rank	
	2002	2007		2002	2007	2002	2007
East North Central	\$5,248,420,000	\$7,052,612,000	34%	\$114.7	\$152.8	7th	6th
East South Central	1,618,364,000	2,330,563,000	44	94.0	130.0	9th	9th
Middle Atlantic	5,369,813,000	7,267,578,000	35	134.2	179.4	3rd	3rd
Mountain	2,212,687,000	3,040,291,000	37	116.2	142.3	6th	7th
<b>New England</b>	<b>2,784,035,000</b>	<b>3,652,809,000</b>	<b>31</b>	<b>197.1</b>	<b>256.2</b>	<b>1st</b>	<b>1st</b>
Pacific	6,360,309,000	8,722,527,000	37	137.2	179.8	2nd	2nd
South Atlantic	6,880,847,000	9,523,659,000	38	128.5	164.9	4th	4th
West North Central	2,407,010,000	3,156,965,000	31	123.7	157.7	5th	5th
West South Central	3,434,897,000	4,552,010,000	33	106.1	131.4	8th	8th
Outlying Areas	88,838,000	131,753,000	NA	NA	NA	NA	NA
<b>United States</b>	<b>\$36,405,220,000</b>	<b>\$49,430,767,000</b>	<b>36%</b>	<b>\$126.5</b>	<b>\$164.1</b>		

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 Colleges and Universities by Field, 2007**

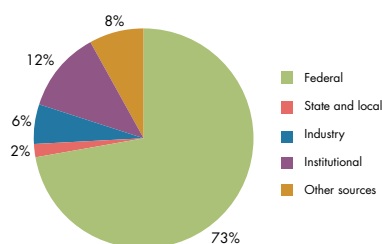
	Engineering	Physical Sciences	Environmental Sciences	Math and Computer Sciences
Connecticut	\$32,417,000	\$34,067,000	\$13,404,000	\$8,778,000
Maine	17,770,000	5,001,000	23,420,000	3,927,000
Massachusetts	398,112,000	245,446,000	202,704,000	100,564,000
New Hampshire	42,212,000	10,930,000	56,779,000	6,988,000
Rhode Island	26,663,000	15,309,000	34,267,000	19,722,000
Vermont	2,723,000	1,293,000	832,000	1,426,000
<b>New England</b>	<b>519,897,000</b>	<b>312,066,000</b>	<b>331,406,000</b>	<b>141,405,000</b>
<b>United States</b>	<b>\$7,516,890,000</b>	<b>\$3,842,391,000</b>	<b>\$2,725,120,000</b>	<b>\$1,988,431,000</b>
<b>New England as a % of U.S.</b>	<b>7%</b>	<b>8%</b>	<b>12%</b>	<b>7%</b>

	Life Sciences	Psychology	Social Sciences	Other Sciences	Total
Connecticut	\$563,875,000	\$23,661,000	\$10,058,000	\$5,148,000	\$691,408,000
Maine	56,453,000	1,703,000	21,425,000	7,726,000	137,425,000
Massachusetts	1,048,906,000	41,937,000	84,961,000	48,946,000	2,171,596,000
New Hampshire	163,648,000	4,346,000	6,676,000	15,495,000	307,074,000
Rhode Island	105,889,000	2,422,000	11,385,000	14,624,000	230,281,000
Vermont	98,742,000	2,038,000	309,000	7,662,000	115,025,000
<b>New England</b>	<b>2,037,513,000</b>	<b>76,107,000</b>	<b>134,814,000</b>	<b>99,601,000</b>	<b>3,652,809,000</b>
<b>United States</b>	<b>\$29,763,889,000</b>	<b>\$863,358,000</b>	<b>\$1,781,410,000</b>	<b>\$949,278,000</b>	<b>\$49,430,767,000</b>
<b>New England as a % of U.S.</b>	<b>7%</b>	<b>9%</b>	<b>8%</b>	<b>10%</b>	<b>7%</b>

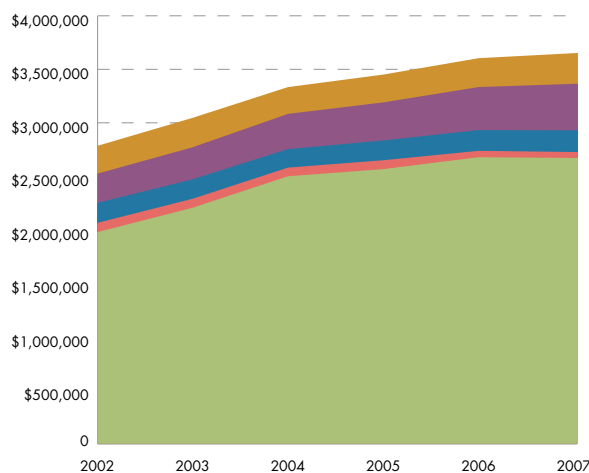
Source: New England Board of Higher Education analysis of National Science Foundation data; www.nsf.gov.

**Fig. 63: Research and Development Expenditures at New England Colleges and Universities by Source of Funds, 2002 to 2007**

Expenditures by Source of Funds, 2007



Change in Mix of Funds, 2002 to 2007



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

UNIVERSITY RESEARCH, *continued***Fig. 64: Research and Development Expenditures at New England Colleges and Universities by U.S. Rank and Source of Funds, 2007**

Rank	Institution	All R&D Expenditures	Federal Government	State and Local Government	Industry	Institutional Funds	All Other Sources
15th	Massachusetts Institute of Technology	\$614,352,000	\$476,318,000	\$689,000	\$81,570,000	\$10,213,000	\$45,562,000
30th	Harvard University	451,276,000	392,103,000	1,732,000	11,358,000	0	46,083,000
31st	Yale University	448,671,000	349,027,000	2,391,000	14,616,000	19,249,000	63,388,000
69th	Boston University	249,279,000	232,115,000	475,000	5,850,000	0	10,839,000
77th	University of Connecticut (all campuses)	224,679,000	123,513,000	9,740,000	8,233,000	67,443,000	15,750,000
86th	Dartmouth College	192,846,000	128,164,000	4,247,000	6,033,000	43,057,000	11,345,000
101st	University of Massachusetts Worcester	157,469,000	131,226,000	0	16,266,000	1,385,000	8,592,000
102nd	Brown University	152,619,000	95,023,000	391,000	3,108,000	49,938,000	4,159,000
106th	University of Massachusetts Amherst	141,351,000	71,974,000	5,638,000	5,195,000	48,755,000	9,789,000
109th	Woods Hole Oceanographic Institution	137,410,000	112,754,000	217,000	1,786,000	13,994,000	8,659,000
114th	Tufts University	130,826,000	91,379,000	890,000	10,027,000	9,908,000	18,622,000
122nd	University of New Hampshire	114,228,000	81,027,000	4,469,000	6,105,000	16,362,000	6,265,000
123rd	University of Vermont	113,195,000	90,049,000	381,000	6,000,000	16,102,000	663,000
132nd	University of Maine	96,135,000	41,963,000	5,260,000	2,609,000	44,127,000	2,176,000
144th	University of Rhode Island	76,237,000	52,561,000	7,703,000	3,383,000	12,590,000	0
147th	Northeastern University	71,520,000	36,028,000	2,351,000	10,828,000	22,295,000	0
161st	Brandeis University	56,831,000	41,358,000	0	0	6,248,000	9,225,000
182nd	Boston College	39,261,000	20,336,000	442,000	1,195,000	7,925,000	9,363,000
<b>Total, Above New England Institutions</b>		<b>3,468,185,000</b>	<b>2,566,918,000</b>	<b>47,016,000</b>	<b>194,162,000</b>	<b>389,591,000</b>	<b>270,480,000</b>
<b>Total, All U.S. Institutions</b>		<b>\$49,430,767,000</b>	<b>\$30,440,745,000</b>	<b>\$3,145,376,000</b>	<b>\$2,672,333,000</b>	<b>\$9,655,290,000</b>	<b>\$3,517,023,000</b>
<b>Above New England Institutions as % of U.S. Total</b>		<b>7.0%</b>	<b>8.4%</b>	<b>1.5%</b>	<b>7.3%</b>	<b>4.0%</b>	<b>7.7%</b>

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