



Metro North in Demand: A Massachusetts Regional Workforce Strategies Initiative

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Purpose of Presentation

1. Provide a review of labor market development in the Metro North Workforce Area to help thinking through the area's education, training and development strategies
2. Prepared an analysis of the Metro North Region around six major topics:
 - **Labor demand context**
 - Analysis of payroll employment structure and trends; understanding overall demand trends; industry structure of employment
 - Analysis of occupational and educational implications of payroll employment growth
 - Analysis of unmet labor market needs – identification of potential area of skill shortages



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- **Labor Supply Context**
 - Analysis of trends in size and composition of population and labor force in the Metro North Area
 - Post-secondary institutional source of labor supply to occupations in the Metro North Area
 - Career and technical education institutional labor supply in the Metro North Area



Total Population, Working-Age
Population, and the Labor Force of the
Metro North Workforce Area

Percent Change in the Total Population, 2000 to 2005-06

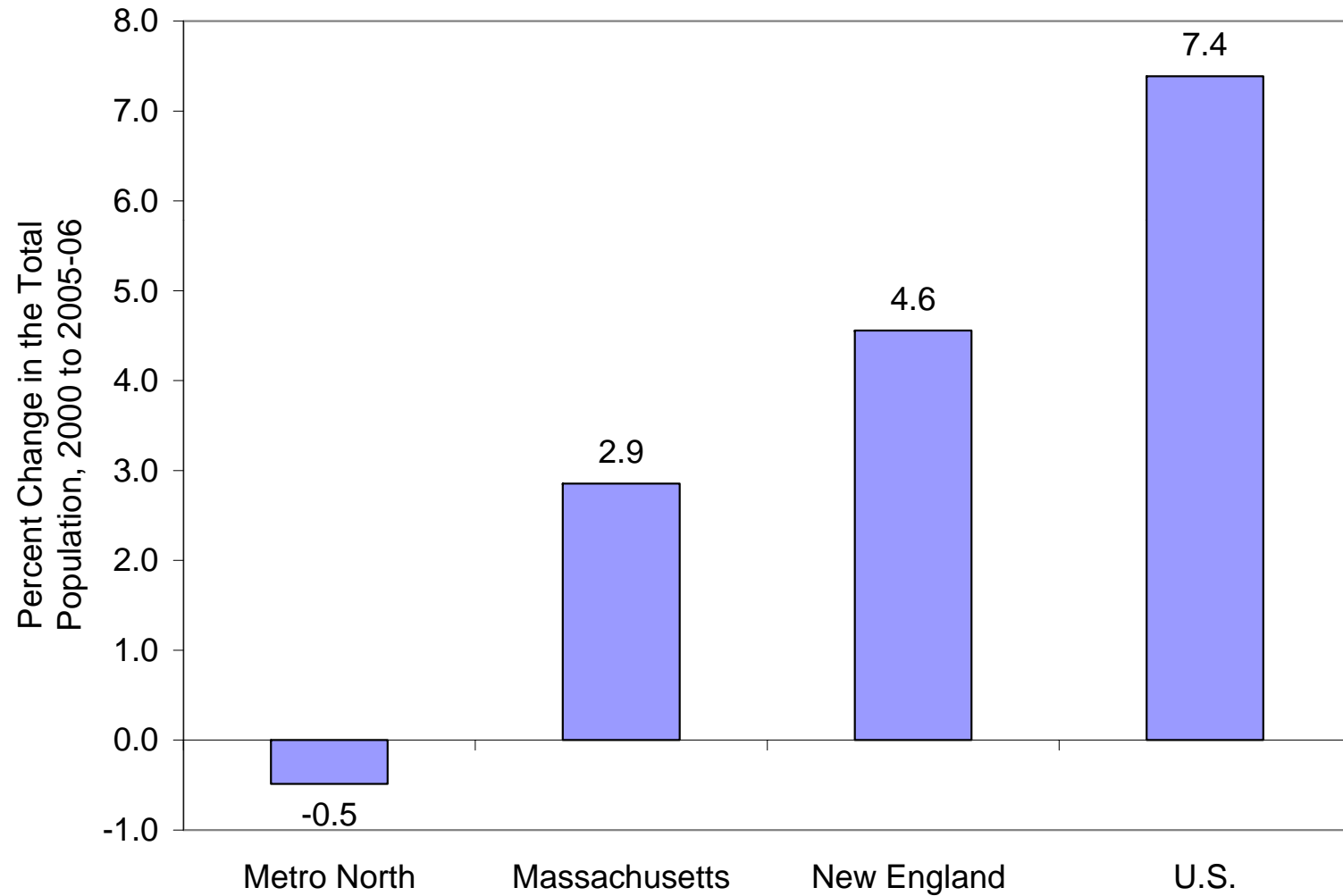




Change in the Total Population of the Metro North Area by Age, 2000 and 2005-06

	2000	2005-06	Absolute Change	Relative Change
Total	801,403	795,756	-5,647	-0.7%
Under 16	144,780	141,622	-3,158	-2.2%
16-24	81,243	85,629	4,386	5.4%
25-34	150,863	130,554	-20,309	-13.5%
35-44	134,540	131,808	-2,732	-2.0%
45-54	107,815	116,371	8,556	7.9%
55-64	68,617	81,842	13,225	19.3%
65+	113,545	107,932	-5,613	-4.9%
Under 45	511,426	489,613	-21,813	-4.3%
45 and older	289,977	306,145	16,168	5.6%
55 and older	182,162	189,774	7,612	4.2%

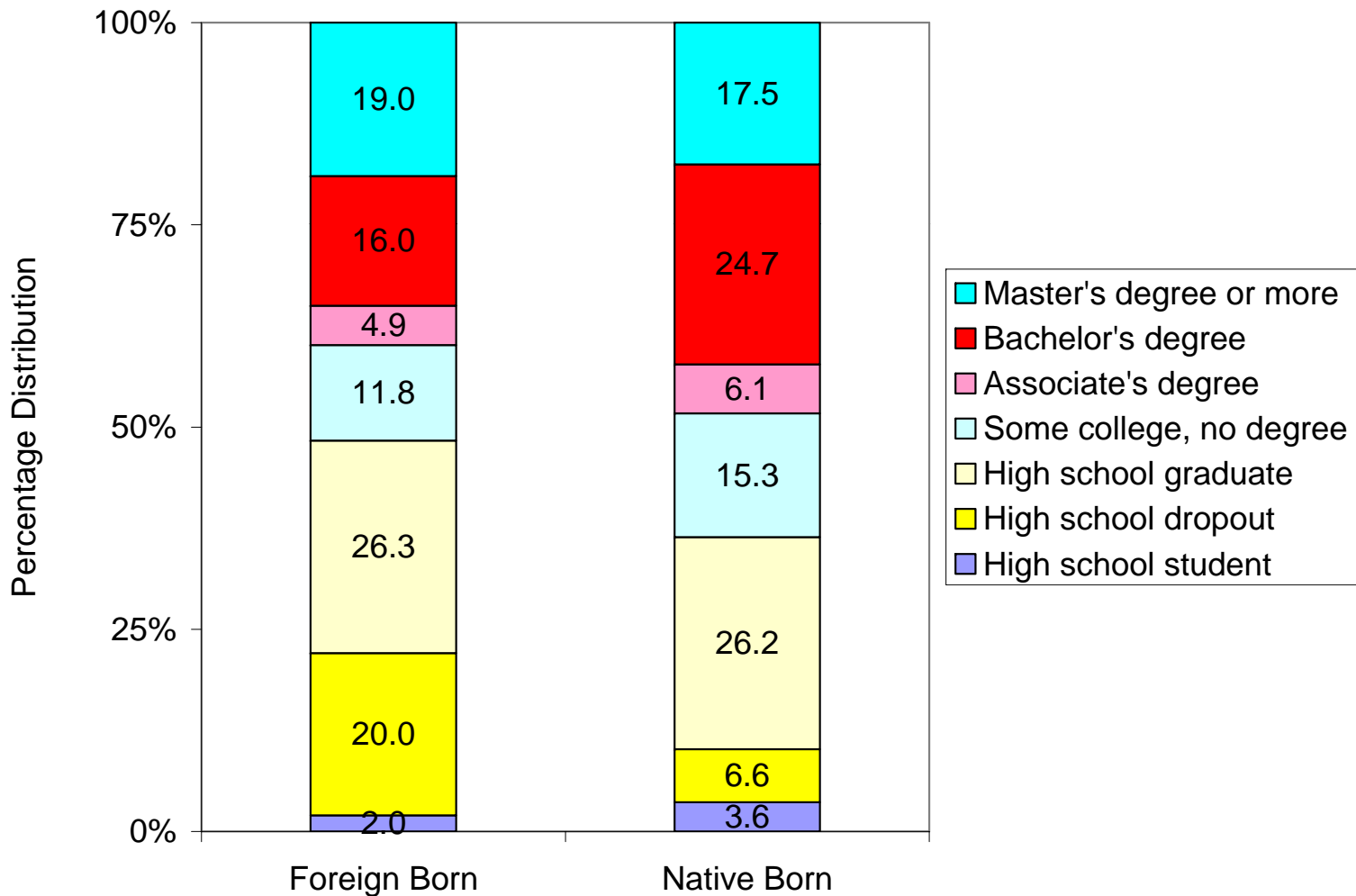
Percent Change in the Working-Age Population, 2000 to 2005-06



Change in the Working-Age Population of the Metro North
by Selected Characteristics, 2000 and 2005-06

	2000	2005-06	Absolute Change	Relative Change
Total	656,623	653,416	-3,207	-0.5%
<u>Gender</u>				
Male	309,823	311,211	1,388	0.4%
Female	346,800	342,205	-4,595	-1.3%
<u>Nativity Status</u>				
Foreign born	144,974	179,503	34,529	23.8%
Native born	511,649	473,912	-37,737	-7.4%
<u>Race-Ethnicity</u>				
White, non-Hispanic	536,162	497,474	-38,688	-7.2%
Black, non-Hispanic	25,447	33,195	7,748	30.4%
Hispanic	38,409	55,935	17,526	45.6%
Other, non-Hispanic	56,605	66,812	10,207	18.0%

Percentage Distribution of the Working-Age Foreign-Born and Native-Born Residents of the Metro North Area by Educational Attainment, 2005-06



Percentage Distribution of the Civilian Labor Force by Gender, Nativity Status, and Race-Ethnicity, 2005-06

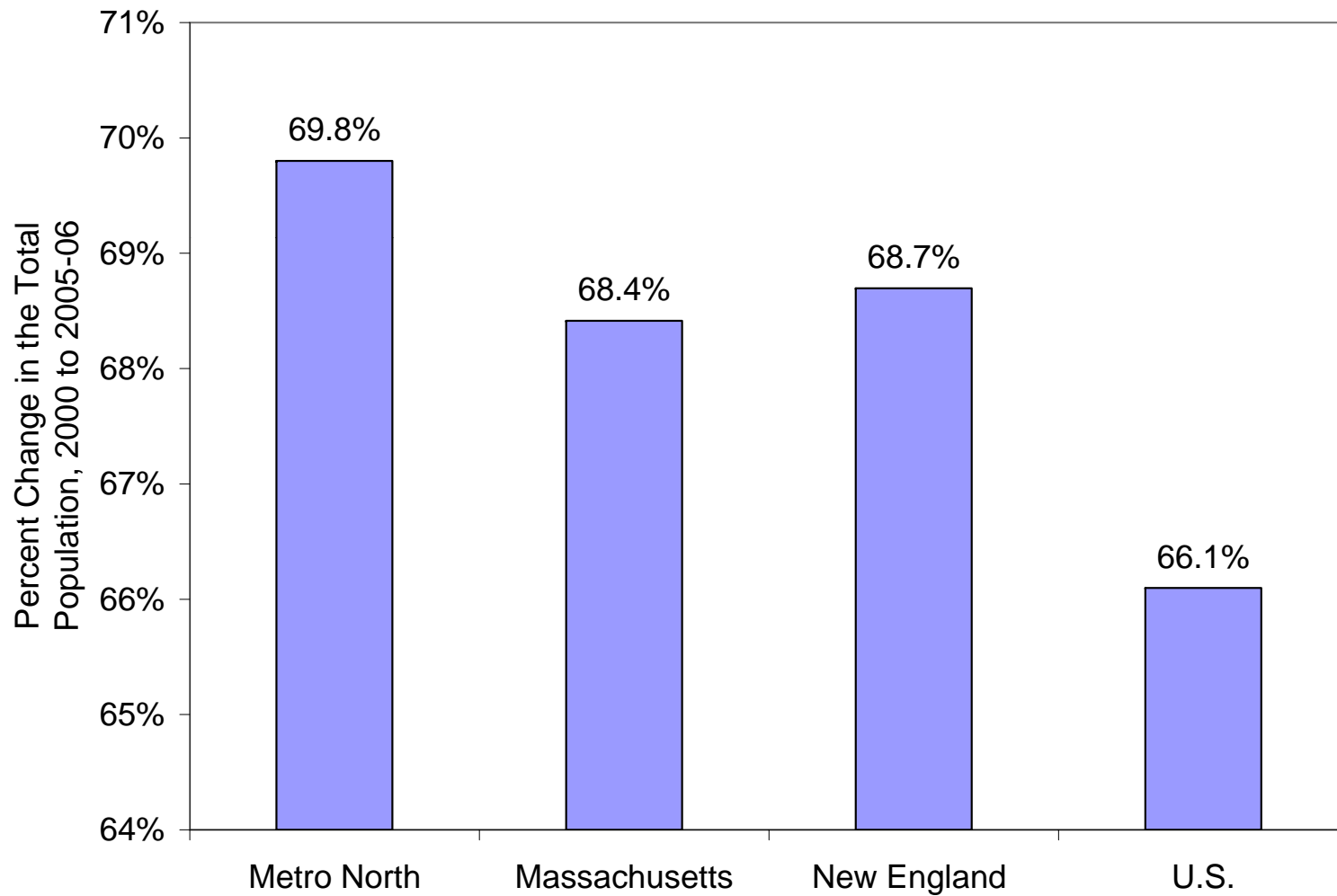
	Metro North	Massachusetts	New England	U.S.
Total	456,094	3,369,817	7,521,725	148,191,267
<u>Gender</u>				
Male	51.7%	52.0%	52.2%	53.5%
Female	48.3%	48.0%	47.8%	46.5%
<u>Nativity Status</u>				
U.S. born	71.8%	81.3%	85.0%	84.1%
Foreign born	28.2%	18.7%	15.0%	15.9%
Foreign born entered since 2000	7.0%	4.2%	3.3%	3.3%
<u>Race-Ethnicity</u>				
White, non-Hispanic	74.6%	81.2%	83.4%	68.8%
Black, non-Hispanic	5.6%	5.1%	4.9%	11.1%
Hispanic	9.6%	7.0%	6.6%	13.6%
Other, non-Hispanic	10.3%	6.6%	5.1%	6.4%

Percentage Distribution of the Civilian Labor Force by Educational Attainment, 2005-06

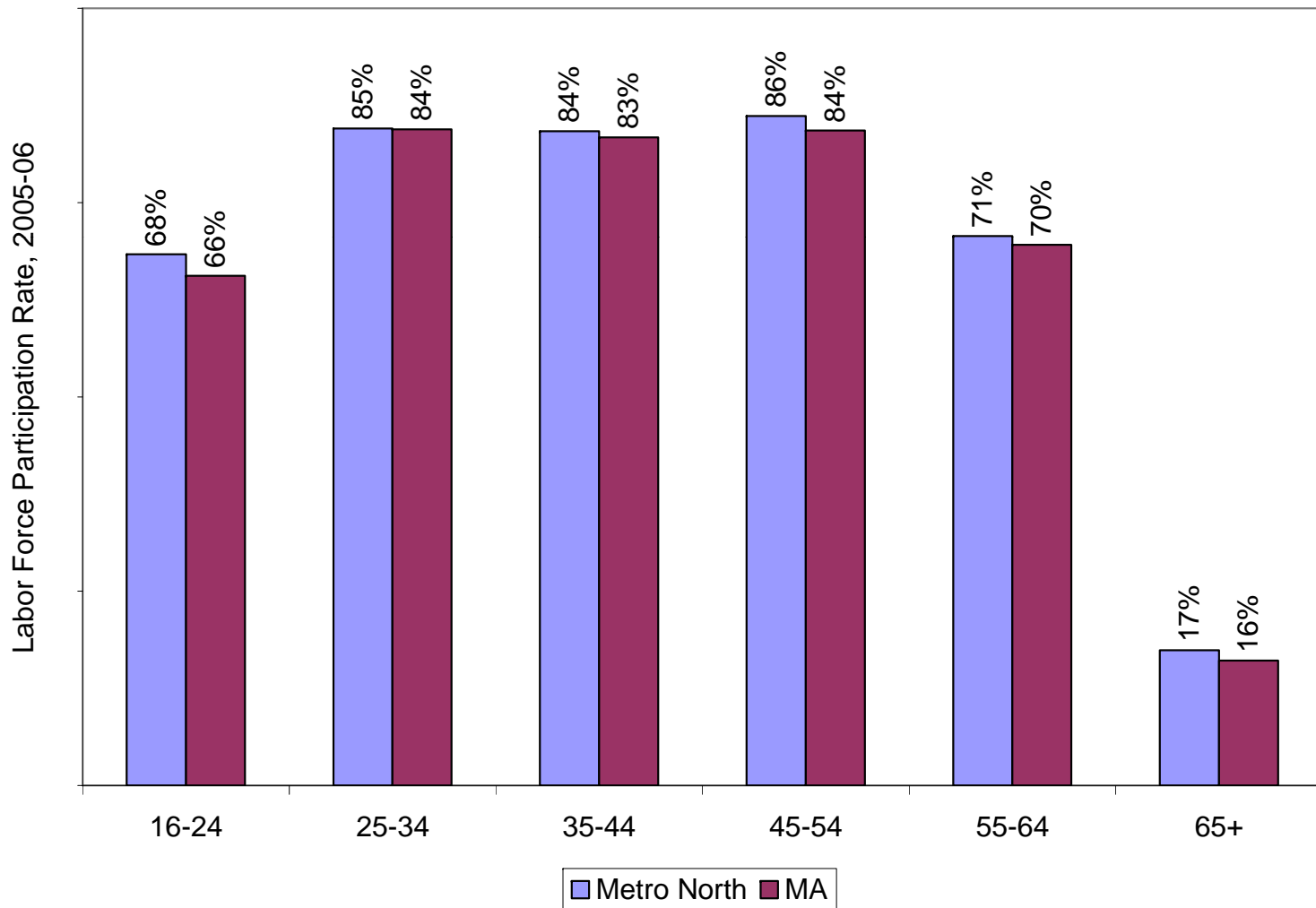
Educational Attainment	Metro North	Mass.	New England	U.S.
High school student	2.1%	2.5%	2.7%	2.4%
High school dropout	6.8%	7.2%	7.3%	10.6%
High school graduate	23.1%	25.9%	27.9%	28.6%
Some college, no degree	14.8%	17.3%	18.5%	22.0%
Associate's degree	6.5%	8.1%	8.4%	8.1%
Bachelor's degree	25.7%	22.8%	21.3%	18.2%
Master's degree or more	21.0%	16.1%	14.0%	10.0%
With any postsecondary education	68.0%	64.4%	62.1%	58.4%
Bachelor's or higher	46.7%	39.0%	35.3%	28.3%



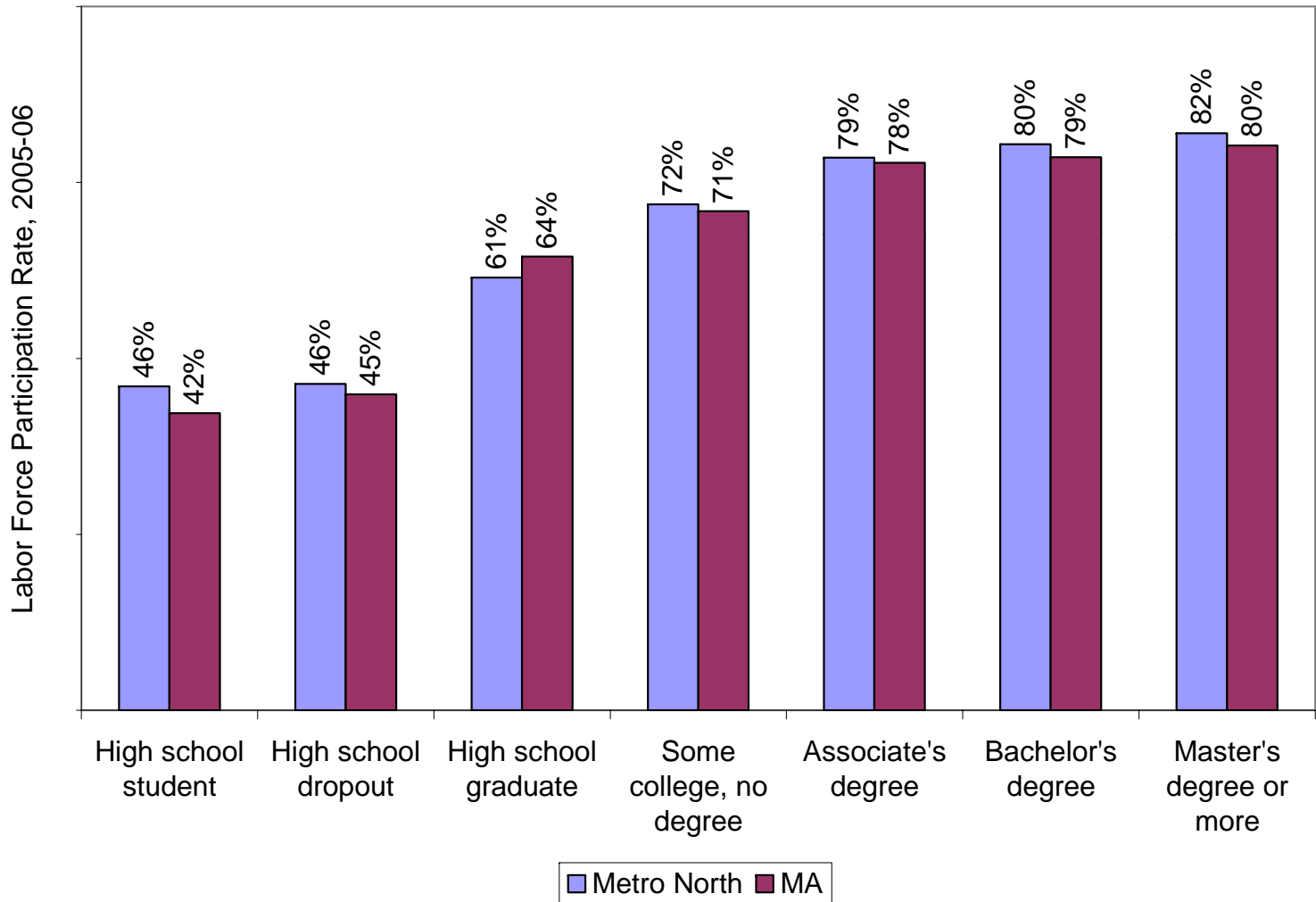
Labor Force Participation Rates of the Working-Age Population, 2005-06



Labor Force Participation Rates of the Working-Age Population, By Age, 2005-06



Labor Force Participation Rates of the Working-Age Population, by Educational Attainment, 2005-06



The Place of Residence of Individuals Employed in the Metro North Area and the Place of Work of Employed Metro North Residents, 2005-06


	Number	Percent of Total
Total number of persons working in the Metro North area... ...that lived in:	435,640	100.00%
Metro North area	227,965	52.3%
Boston area	35,069	8.0%
Metro South/West area	47,764	11.0%
Greater Lowell area	28,557	6.6%
Merrimack Valley area	15,858	3.6%
North Shore area	29,250	6.7%
Other parts of Massachusetts	29,212	6.7%
Outside Massachusetts	21,965	5.0%
Total Metro North area residents who were employed... ...that were working in:	414,590	100.0%
Metro North area	227,965	55.0%
Boston area	103,252	24.9%
Metro South/West area	34,765	8.4%
Greater Lowell area	10,244	2.5%
Merrimack Valley area	6,418	1.5%
North Shore area	15,576	3.8%
Other parts of Massachusetts	10,558	2.5%
Outside Massachusetts	5,812	1.4%



Measuring Wage and Salary
Employment Levels and Trends in the
Metro North Workforce Area

Trends in Total Non Agricultural Wage and Salary Employment Levels in Massachusetts, New England and the Nation, 4th Quarter, 2003 to First Quarter 2007 (Seasonally Adjusted, in 000s)

	4th Quarter 2003	1st Quarter 2007	Absolute Change	Relative Change
Connecticut	1,644.0	1,690.7	46.7	2.8%
Maine	610.0	617.1	7.2	1.2%
Massachusetts	3,185.0	3,270.4	85.4	2.7%
New Hampshire	622.0	645.7	23.7	3.8%
Rhode Island	486.3	495.6	9.3	1.9%
Vermont	300.9	307.6	6.7	2.2%
New England	6,848.1	7,027.2	179.1	2.6%
USA	130,181.3	137,183.7	7,002.3	5.4%



Trends in Total Non Agricultural
Wage and Salary Employment Levels in Massachusetts,
New England and the Nation, 1st Quarter, 2007 to
First Quarter 2008 (Seasonally Adjusted, in 000s)

	1st Quarter 2007	1st Quarter 2008	Absolute Change	Relative Change
Connecticut	1,691	1,702	11.3	0.7%
Maine	617	618	0.8	0.1%
Massachusetts	3,270	3,290	20.0	0.6%
New Hampshire	646	654	8.4	1.3%
Rhode Island	496	487	-8.3	-1.7%
Vermont	308	308	0.4	0.1%
New England	7,027	7,060	32.5	0.5%
USA	137,184	137,925	741.0	0.5%

Trends in Total Non Agricultural
Wage and Salary Employment Levels in Massachusetts,
New England and the Nation, 2nd Quarter, 2007 to
Second Quarter 2008 (Seasonally Adjusted, in 000s)

	2nd Quarter 2007	2nd Quarter 2008	Absolute Change	Relative Change
Connecticut	1,695.2	1,702.3	7.1	0.4%
Maine	615.7	616.1	0.4	0.1%
Massachusetts	3,275.9	3,292.7	16.9	0.5%
New Hampshire	645.5	656.4	10.9	1.7%
Rhode Island	493.9	483.2	-10.7	-2.2%
Vermont	307.6	308.0	0.4	0.1%
New England	7,033.8	7,058.7	25.0	0.4%
USA	137,499.7	137,715.7	216.0	0.2%

Trends in Total Non Agricultural Wage and Salary Employment Levels
by Major Industry Sector in Massachusetts, 4th Quarter, 2003 to First
Quarter 2007 (Seasonally Adjusted, in 000s)


	4th Quarter 2003	1st Quarter 2007	Absolute Change	Share of Change
All Industries	3,185.0	3,270.4	85.4	2.7%
Construction	136.3	138.4	2.0	1.5%
Manufacturing	316.7	297.6	-19.0	-6.0%
Durable	207.1	196.9	-10.2	-4.9%
Non Durable	109.6	100.7	-8.9	-8.1%
Trade, Transportation, and Utilities	573.4	570.9	-2.5	-0.4%
Wholesale Trade	134.8	137.9	3.1	2.3%
Retail Trade	354.4	348.8	-5.6	-1.6%
Transportation and Utilities	84.2	84.2	0.0	0.0%
Information	89.1	87.4	-1.7	-1.9%
Financial Activities	221.5	225.8	4.3	2.0%
Professional and Business Services	442.0	477.9	35.9	8.1%
Education and Health Services	577.6	618.0	40.4	7.0%
Leisure and Hospitality	289.3	302.7	13.4	4.6%
Other Services	116.8	119.2	2.4	2.0%
Government	420.3	431.2	10.9	2.6%

Trends in Total Non Agricultural Wage and Salary
Employment Levels by Major Industry Sector in
Massachusetts, First Quarter, 2007 to First Quarter 2008
(Seasonally Adjusted, in 000s)

	1st Quarter 2007	1st Quarter 2008	Absolute Change	Relative Change
All Industries	3,270.4	3,290.4	20.0	0.6%
Construction	138.4	135.5	-2.9	-2.1%
Manufacturing	297.6	292.7	-5.0	-1.7%
Durable	196.9	193.9	-3.0	-1.5%
Non Durable	100.7	98.8	-2.0	-2.0%
Trade, Transportation, and Utilities	570.9	569.4	-1.6	-0.3%
Wholesale Trade	137.9	139.2	1.3	1.0%
Retail Trade	348.8	345.5	-3.3	-1.0%
Transportation and Utilities	84.2	84.6	0.4	0.5%
Information	87.4	89.7	2.4	2.7%
Financial Activities	225.8	224.1	-1.7	-0.8%
Professional and Business Services	477.9	486.6	8.7	1.8%
Education and Health Services	618.0	632.9	14.9	2.4%
Leisure and Hospitality	302.7	304.3	1.6	0.5%
Other Services	119.2	118.3	-0.9	-0.8%
Government	431.2	435.6	4.3	1.0%

Industry Employment Trends: Metro North Workforce Area

Description	Average Monthly Employment			
	2004 Third Quarter	2007 Third Quarter	Absolute Change	Relative Change
Total, all industries	353,190	372,720	19,530	5.5%
23 - Construction	20,730	18,279	-2,451	-11.8%
31-33 - Manufacturing	29,852	29,024	-828	-2.8%
DUR - Durable Goods Manufacturing	19,020	18,306	-714	-3.8%
NONDUR - Non-Durable Goods Manufacturing	10,833	10,718	-115	-1.1%
22 - Utilities	826	889	63	7.6%
42 - Wholesale Trade	19,523	18,583	-940	-4.8%
44-45 - Retail Trade	38,092	37,742	-350	-0.9%
48-49 - Transportation and Warehousing	13,104	12,799	-305	-2.3%
51 - Information	14,337	15,559	1,222	8.5%
52 - Finance and Insurance	13,646	14,035	389	2.9%
53 - Real Estate and Rental and Leasing	4,647	4,471	-176	-3.8%
54 - Professional and Technical Services	41,317	48,433	7,116	17.2%
56 - Administrative and Waste Services	20,836	24,434	3,598	17.3%
61 - Educational Services	39,856	44,173	4,317	10.8%
62 - Health Care and Social Assistance	44,142	49,007	4,865	11.0%
71 - Arts, Entertainment, and Recreation	4,139	4,165	26	0.6%
72 - Accommodation and Food Services	23,839	25,586	1,747	7.3%
81 - Other Services, Ex. Public Admin	11,743	12,844	1,101	9.4%
92 - Public Administration	11,627	11,692	65	0.6%



The Industrial Structure of Employment in the Metro North County Region, Third Quarter 2007, Two Digit NAICS Codes

Description	2007 III	Percent Distribution
Total, All Industries	378,891	100.0%
23 - Construction	18,279	4.8%
31-33 - Manufacturing	29,024	7.7%
42 - Wholesale Trade	18,583	4.9%
44-45 - Retail Trade	37,742	10.0%
48-49 - Transportation and Warehousing	12,799	3.4%
51 - Information	15,559	4.1%
52 - Finance and Insurance	14,035	3.7%
53 - Real Estate and Rental and Leasing	4,471	1.2%
54 - Professional and Technical Services	48,433	12.8%
55 - Management of Companies and Enterprises	6,171	1.6%
56 - Administrative and Waste Services	24,434	6.4%
61 - Educational Services	44,173	11.7%
62 - Health Care and Social Assistance	49,007	12.9%
71 - Arts, Entertainment, and Recreation	4,165	1.1%
72 - Accommodation and Food Services	25,586	6.8%
81 - Other Services, Ex. Public Admin	12,844	3.4%
92 - Public Administration	11,692	3.1%



Distribution of Metro North Regional Wage and Salary Employment for the Manufacturing Sector, Third Quarter 2007

NAICS	Description	2007 III	Percent of Distribution
31-33	Manufacturing	29,024	100.0%
311	Food Manufacturing	3,872	12.3%
323	Printing and Related Support Activities	1,866	6.4%
325	Chemical Manufacturing	3,382	11.7%
332	Fabricated Metal Product Manufacturing	2,230	7.7%
333	Machinery Manufacturing	1,703	5.9%
334	Computer and Electronic Product Mfg	9,556	32.9%
337	Transportation Equipment	133	5.0%
	All Other Manufacturing	4,982	17.1%



Distribution of Metro North Regional Wage and Salary Employment for the Retail Trade Sector, Third Quarter 2007

NAICS	Description	2007 III	Percent of Distribution
44-45	Retail Trade	37,742	100.0%
441	Motor Vehicle and Parts Dealers	3,307	8.8%
444	Building Material & Garden Supply Stores	3,093	8.2%
445	Food and Beverage Stores	10,895	28.9%
446	Health and Personal Care Stores	3,136	8.3%
448	Clothing and Clothing Accessories Stores	4,313	11.4%
452	General Merchandise Stores	3,947	10.4%
	All Other Retail Trade	9,051	24.0%




Distribution of Metro North Regional Wage and Salary Employment for the Professional, Technical, Administrative and Waste Sectors, Third Quarter 2007

NAICS	Description	2007 III	Percent of Distribution
54	Professional and Technical Services	48,433	100.0%
5413	Architectural and Engineering Services	8,669	17.8%
5415	Computer Systems Design & Related Services	10,410	21.5%
5416	Management & Technical Consulting Svc	4,983	10.3%
5417	Scientific Research and Development Svc	18,581	38.4%
	All Other Professional and Technical Services	5,790	12.0%
56	Administrative and Waste Services	24,434	100.0%
5613	Employment Services	8,570	35.1%
5616	Investigation and Security Services	2,113	8.6%
5617	Services to Buildings and Dwellings	7,740	31.7%
	All Other Administrative and Waste Services	6,011	24.6%

Distribution of Metro North Regional Wage and Salary Employment
for Educational, Health Care and Social Assistance, Accommodation
and Food Services Sectors, Third Quarter 2007

NAICS	Description	2007 III	Percent of Distribution
61	Educational Services	44,173	100.0%
6111	Elementary and Secondary Schools	12,179	27.6%
6113	Colleges and Universities	29,907	67.7%
	All Other Educational Services	2,087	4.7%
62	Health Care and Social Assistance	49,007	100.0%
621	Ambulatory Health Care Services	14,695	30.0%
622	Hospitals	17,158	35.0%
623	Nursing and Residential Care Facilities	8,716	17.8%
624	Social Assistance	8,438	17.2%
72	Accommodation and Food Services	25,586	100.0%
721	Accommodation	3,745	14.6%
722	Food Services and Drinking Places	21,841	85.4%



Occupational Staffing Patterns of
Industries and Educational Attainment of
Workers by Industries and Occupations in
the Metro North Workforce Area



Occupational Staffing Patterns of Construction and Manufacturing Industries in the Metro North Area 2005-06

Major Occupations	Constr.	Manufacturing
Total Workers	28,615	44,055
College labor market & high level sales occupations	16.3%	59.5%
Healthcare practitioner & technical	0.0%	0.3%
Service and low level sales occupations	0.3%	1.2%
Office & administrative support	4.4%	7.6%
High skill blue collar occupations	76.4%	3.6%
Production, transportation & material moving occupations	2.6%	27.8%



Comparison of the Occupational Staffing Patterns of the Manufacturing Industry in Metro North Area and Massachusetts, 2005-06

Major Occupations in Manufacturing	Metro North Region	Mass.
Total Workers	44,055	347,648
College labor market & high level sales occupations	59.5%	42.5%
Healthcare practitioner & technical	0.3%	0.2%
Service and low level sales occupations	1.2%	1.4%
Office & administrative support	7.6%	10.4%
High skill blue collar occupations	3.6%	4.1%
Production, transportation & material moving occupations	27.8%	41.4%



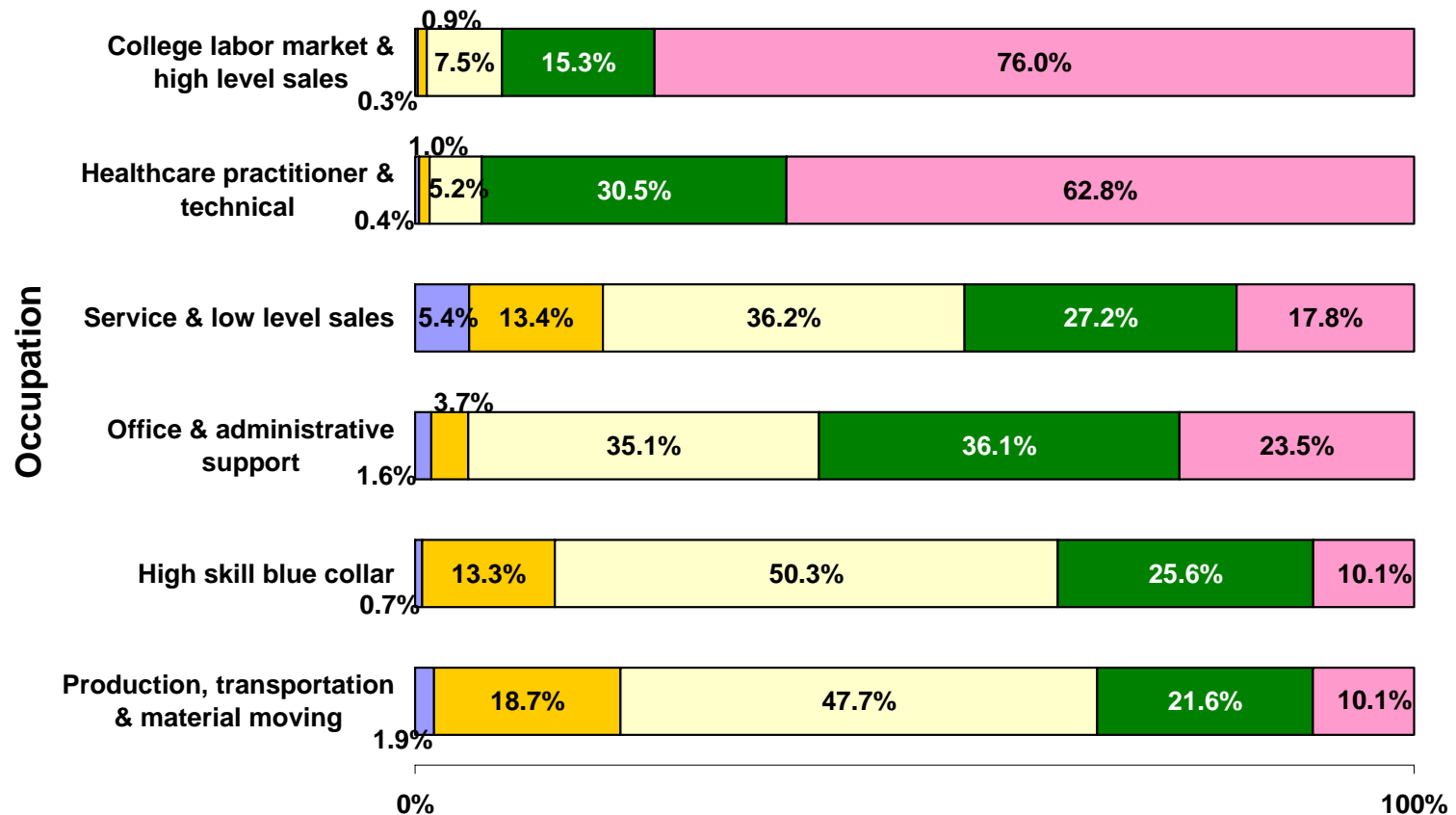
Occupational Staffing Patterns of Retail Trade, Information, Finance, Insurance, and Real Estate Industries in the Metro North Area 2005-06

Major Occupations	Retail Trade	Information	Finance, Ins. & Real Estate
Total Workers	44,716	15,791	29,745
College labor market & high level sales occupations	29.8%	74.0%	59.5%
Healthcare practitioner & technical	2.4%	0.0%	0.9%
Service and low level sales occupations	37.2%	3.5%	8.3%
Office & administrative support	14.6%	10.7%	28.5%
High skill blue collar occupations	5.3%	10.6%	2.0%
Production, transportation & material moving occupations	10.7%	1.3%	0.9%

Occupational Staffing Patterns of Prof., Scientific and
Tech. Services, Educational Services; Healthcare and Social Services;
and Other Services Industries in the Metro North Area 2005-06

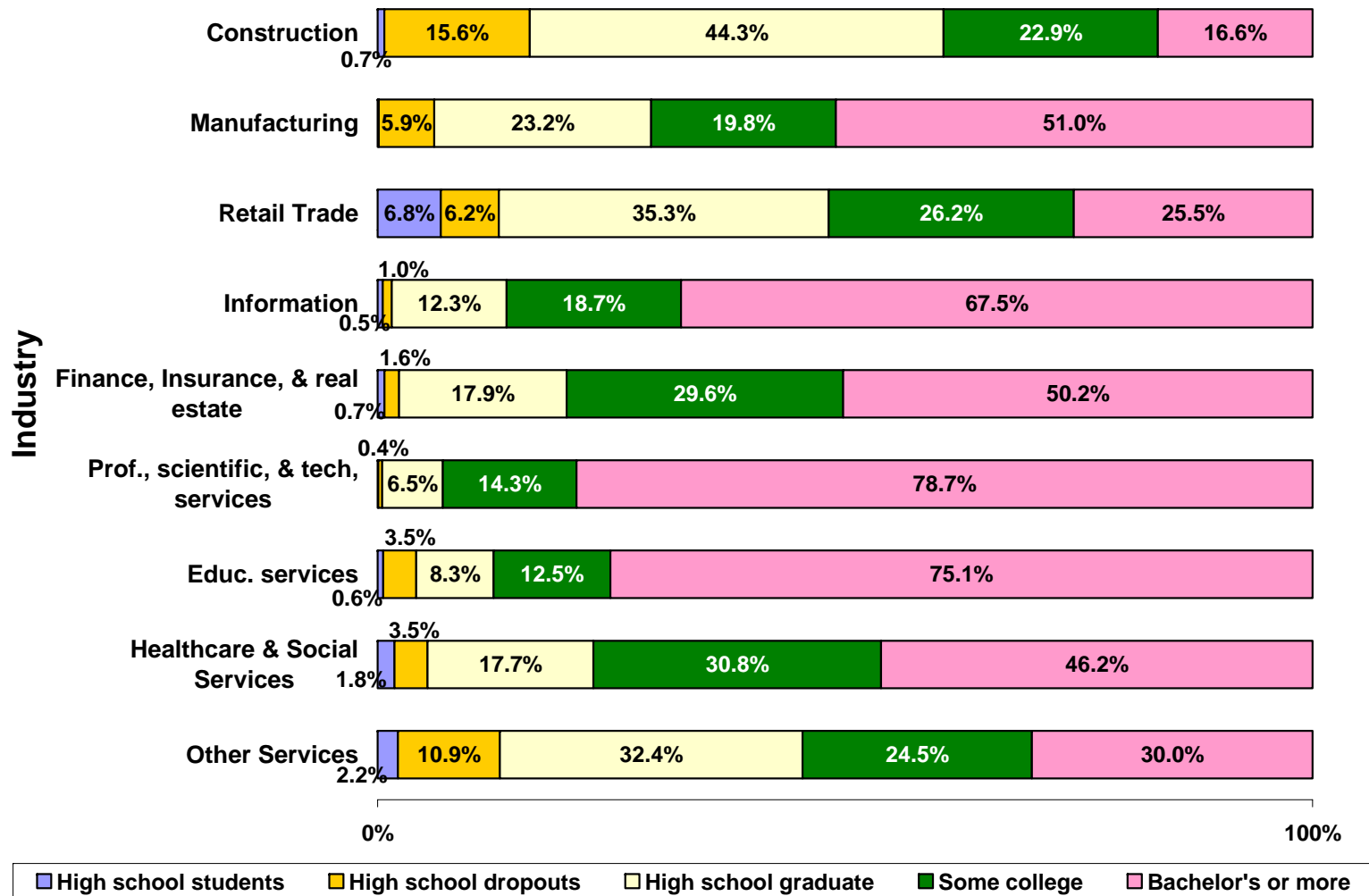
Major Occupations	Prof., Scientific & Tech. Services	Educ. Service s	Healthcare & Social Services	Other Service s
Total Workers	59,445	53,490	53,860	71,095
College labor market & high level sales occupations	85.4%	76.6%	25.4%	26.2%
Healthcare practitioner & technical	1.4%	2.2%	34.3%	0.9%
Service and low level sales occupations	1.1%	9.4%	25.2%	51.0%
Office & administrative support	10.1%	9.4%	13.7%	11.3%
High skill blue collar occupations	0.7%	2.0%	0.4%	5.3%
Production, transportation & material moving occupations	1.3%	0.3%	1.1%	5.3%

Percentage Distribution by Educational Attainment of Employed Individuals Who Worked in the Metro North Area by Major Occupational Group, 2005-06




■ High school students
 ■ High school dropout
 ■ High school graduate
 ■ Some college
 ■ Bachelor's or more

Percentage Distribution by Educational Attainment of Employed Individuals Who Worked in the Metro North Area by Major Industry, 2005-06





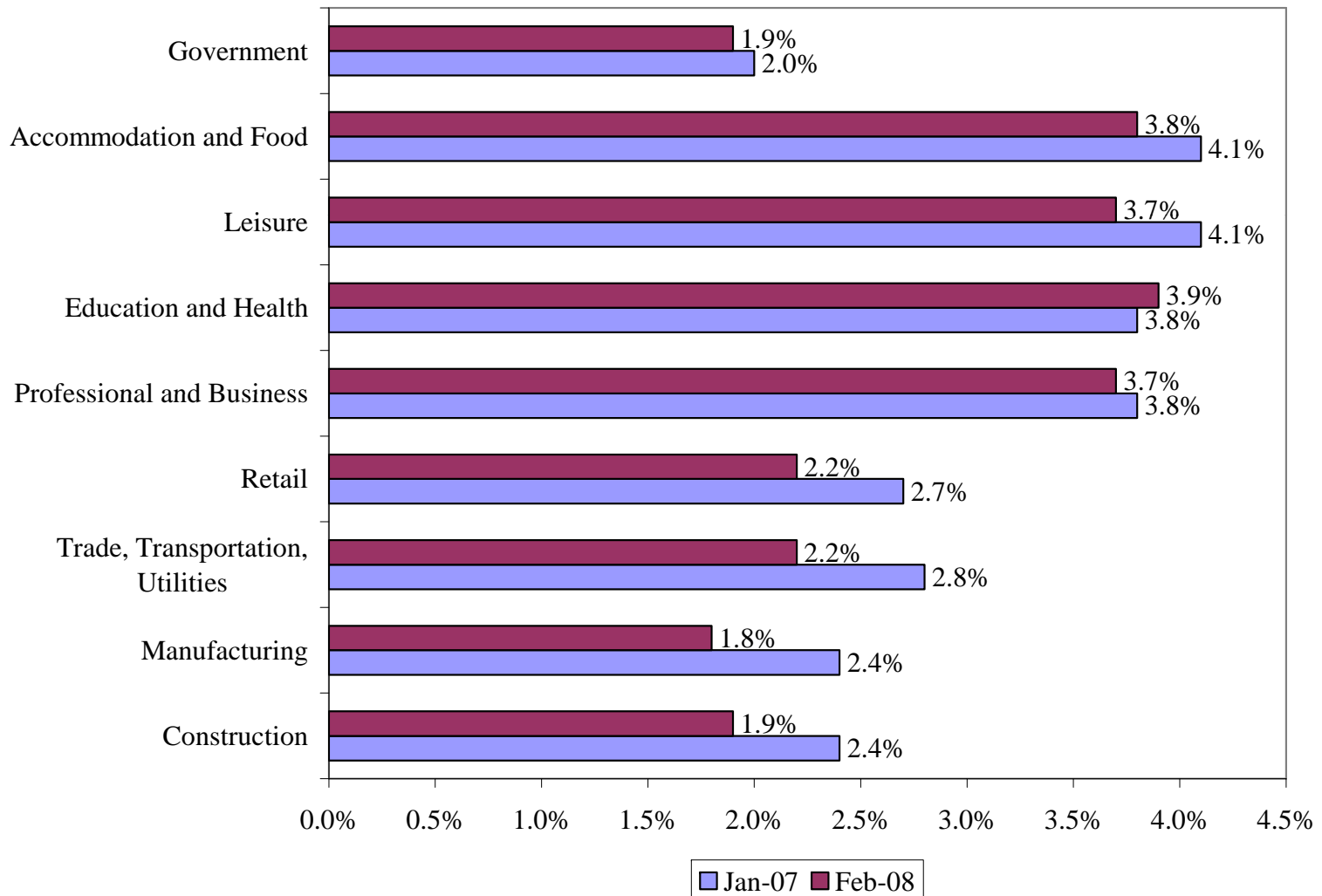
Job Vacancy Measurement and Interpretation



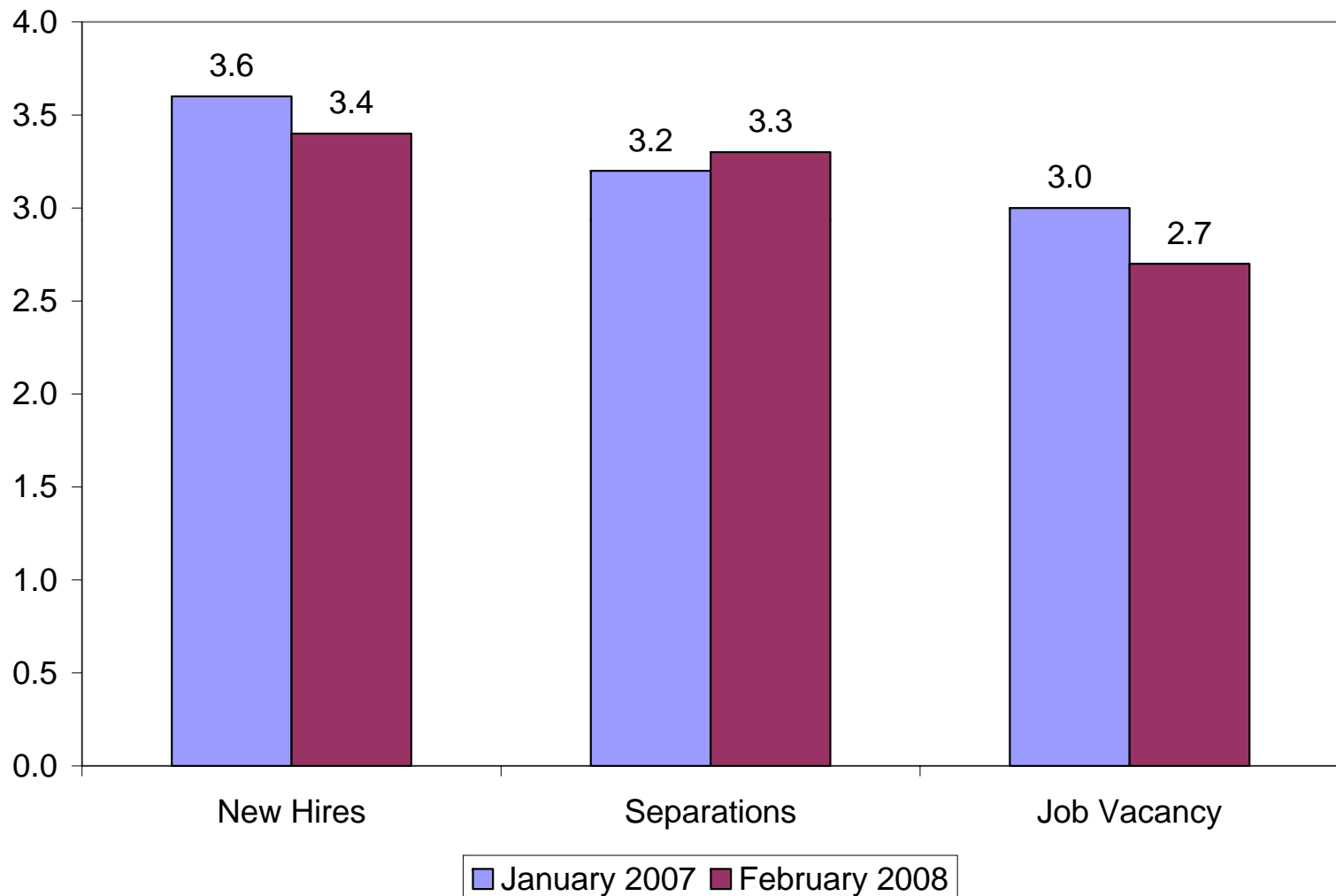
Trends in the Number of Wage and Salary Job Vacancies in the United States, January 2007 to February 2008, by Industry Sector (Seasonally Adjusted, Numbers in 000s)

	January 2007	February 2008	Absolute Change	Relative Change
Total	4,307	3,820	487	11%
Construction	191	140	-51	-27%
Manufacturing	344	246	-98	-28%
Trade, Transportation, Utilities	763	611	-152	-20%
Retail	424	346	-78	-18%
Professional and Business	707	695	-12	-2%
Education and Health	714	748	34	5%
Leisure	566	519	-47	-8%
Accommodation and Food	491	462	-29	-6%
Government	461	441	-20	-4%

Trends in the Number of Wage and Salary Job Vacancy Rates in the United States, January 2007 to February 2008, by Industry Sector (Seasonally Adjusted)



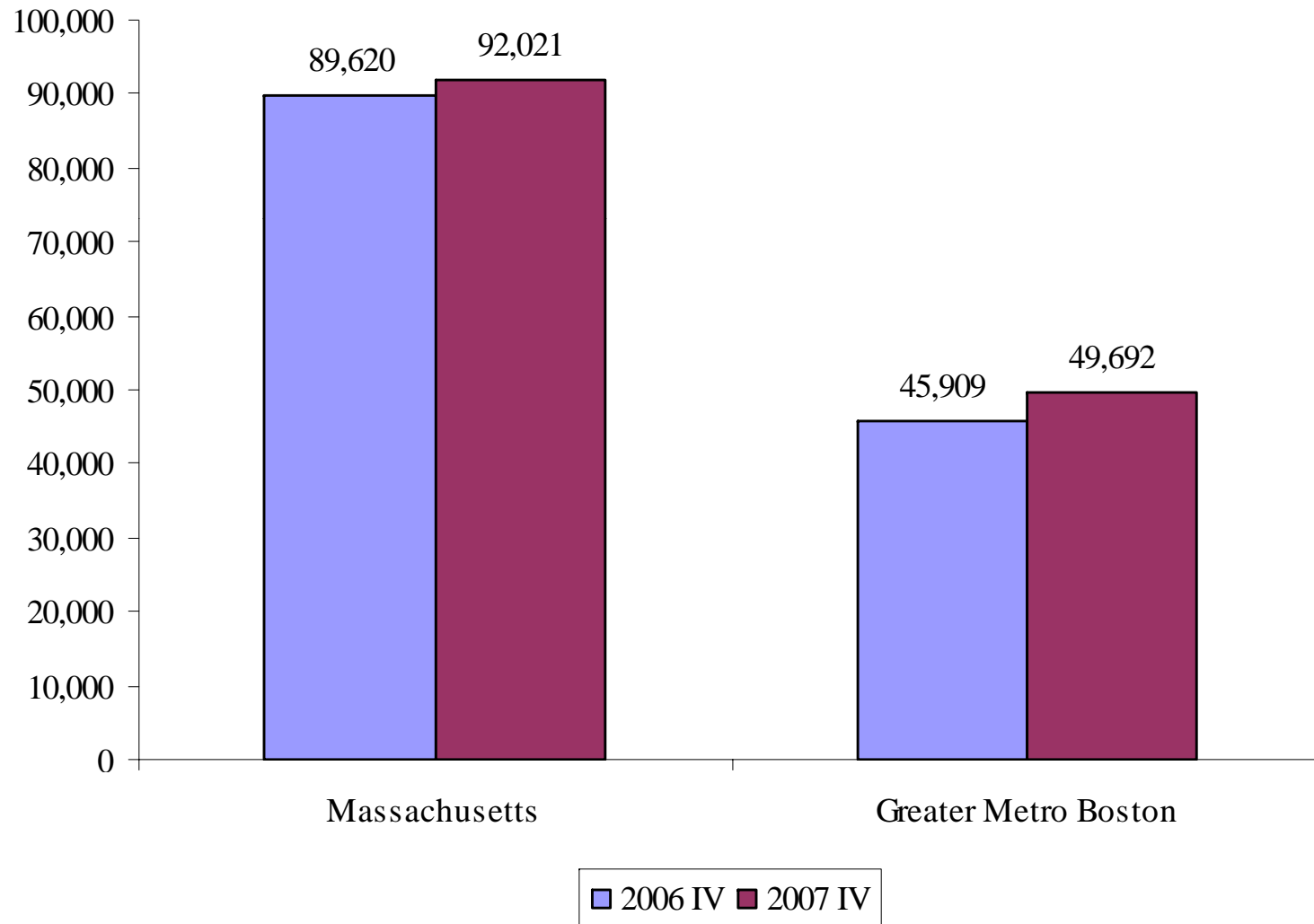
Trends in the New Hires Rate, Separation Rate and Job Vacancy Rate in the United States, January 2007 to February 2008 (Seasonally Adjusted)



Number and Rates of Wage and Salary
New Hires, Separations and Job Vacancies in the United
States, February 2008, by Industry Sector
(Seasonally Adjusted, Numbers in 000s)

		New Hires	Separations	Job Vacancies
Total	Number	4,638	4,485	3,820
	Rate	3.4	3.3	2.7
Construction	Number	358	330	140
	Rate	4.8	4.5	1.9
Manufacturing	Number	285	353	246
	Rate	2.1	2.6	1.8
Trade, Transportation, Utilities	Number	901	958	611
	Rate	3.4	3.6	2.2
Retail	Number	617	656	346
	Rate	4.0	4.2	2.2
Professional and Business	Number	821	854	695
	Rate	4.5	4.7	3.7
Education and Health	Number	522	462	748
	Rate	2.8	2.5	3.9
Leisure and Hospitality	Number	850	848	519
	Rate	6.2	6.2	3.7
Accommodation and Food	Number	706	706	462
	Rate	6.1	6.1	3.8
Government	Number	389	283	441
	Rate	1.7	1.3	1.9

Trends in the Number of Job Vacancies in Massachusetts and the Greater Boston Region, Fourth Quarter 2006 to Fourth Quarter 2007



The Number of Job Vacancies and the Job Vacancy Rate of Major Industry Sectors in the Greater Boston Region, Fourth Quarter 2007


Industry	Number of Job Vacancies	Job Vacancy Rate	Industry	Number of Job Vacancies	Job Vacancy Rate
Utilities	*	0.6%	Professional & Technical Services	8,119	5.3%
Construction	989	1.7%	Management	996	2.8%
Manufacturing	2,531	2.6%	Administrative & Support & Waste Services	2,134	3.6%
Wholesale Trade	1,064	1.9%	Educational Services	2,242	1.4%
Retail Trade	6,868	5.1%	Healthcare	10,047	4.5%
Transportation & Warehousing	469	0.9%	Arts, Entertainment & Recreation	308	1.6%
Information	2,161	4.2%	Accommodation & Food Services	5,359	4.9%
Finance & Insurance	3,898	3.3%	Other Services	1,014	2.4%
Real Estate, Rental & Leasing	383	1.8%	Public Administration	1,037	1.8%

The Number of Job Vacancies and the Job Vacancy Rate of Major Occupations in Massachusetts, Fourth Quarter 2007

Occupation	Number of Job Vacancies	Job Vacancy Rate	Occupation	Number of Job Vacancies	Job Vacancy Rate
Total, All Occupations	92,021	3.2%	Healthcare Support	4,220	4.5%
Management Occupations	6,396	3.5%	Protective Service	1,628	2.3%
Business and Financial Operations	5,853	3.5%	Food Preparation and Serving Related	8,965	3.4%
Computer and Mathematical	4,796	4.2%	Building and Grounds Workers	1,703	1.6%
Architecture and Engineering	3,093	4.2%	Personal Care and Service	3,032	4.3%
Life and Physical Sciences	2,612	5.6%	Sales and Related	13,134	4.0%
Community and Social Services	2,520	4.3%	Office and Administrative Support	12,174	2.2%
Legal	432	1.8%	Construction and Extraction	880	0.8%
Education, Training and Library	2,972	1.4%	Installation, Maintenance, and Repair	2,045	2.0%
Arts, Design, Entertainment, Sports and Media	962	2.0%	Production	2,354	1.3%
Healthcare Practitioner and Technical	8,654	4.4%	Transportation and Material Moving	3,577	2.2%

The Number of Job Vacancies and the Job Vacancy Rate of Major Occupations in the Greater Boston Region, Fourth Quarter 2007

Occupation	Number of Job Vacancies	Job Vacancy Rate	Occupation	Number of Job Vacancies	Job Vacancy Rate
Total, all Occupations	49,692	3.1%	Healthcare Support	1,824	4.4%
Management Occupations	4,428	4.1%	Protective Service	1,078	2.9%
Business & Financial Operations	4,081	3.6%	Food Preparation and Serving Related	4,347	3.7%
Computer & Mathematical Architecture & Engineering	3,739	4.7%	Building & Grounds Cleaning & Maintenance	851	1.5%
Life and Physical Sciences	2,094	4.8%	Personal Care and Service	1,307	3.8%
Community and Social Services	2,001	6.4%	Sales and Related	7,028	4.4%
Legal	1,293	4.9%	Office and Administrative Support	6,035	2.1%
Education, Training and Library	364	2.1%	Construction and Extraction Installation, Maintenance/Repair	488	1.0%
Arts, Design, Entertainment, Sports/Media	1,567	1.6%	Production	619	1.4%
Healthcare Practitioner and Technical	531	1.8%	Transportation and Material Moving	651	1.2%
	4,280	4.1%		1,079	1.6%



Associate's Degrees, Bachelor's Degrees and
Undergraduate Non Degree Certificates
in the Metro North Workforce Area



Trends in the Number of Associate's Degrees
Conferred in the U.S., New England,
Massachusetts and Metro North, 1996 to 2006

	1996	2006	Absolute Change	Relative Change
U.S.	557,858	730,643	172,785	31%
New England	28,440	27,023	-1,417	-5%
Massachusetts	12,682	11,139	-1,543	-12%
Metro North	14	223	209	1,493%

Trends in the Number of Associate's Degrees
Awarded in the U.S., New England, Massachusetts and
Metro North, by Higher Education Sector, 1996 to 2006

Sector	1996	2006	Absolute Change	Relative Change
U.S.				
Public	454,452	573,941	119,489	26%
Private	103,406	156,702	53,296	52%
New England				
Public	17,746	18,027	281	2%
Private	10,694	8,996	-1,698	-16%
Massachusetts				
Public	8,213	8,659	446	5%
Private	4,469	2,480	-1,989	-45%
Metro North				
Public	0	0	0	0%
Private	14	223	209	1,493%




Distribution of Associate's Degrees Conferred by Broad Major Fields of Study in Metro North, Massachusetts, New England and the U.S., 2006

	Metro North	Massachusetts	New England	U.S.
Criminal Justice	0%	7%	6%	4%
Health Sciences	49%	23%	21%	19%
Business	0%	19%	21%	14%
Engineering & Computer Science	44%	13%	14%	13%
Education	0%	3%	2%	2%
Law	0%	1%	1%	1%
Arts & Humanities	7%	31%	27%	41%
Sciences	0%	1%	1%	1%
Personal Services	0%	2%	7%	4%
Undesignated Field of Study	0%	0%	0%	0%
Total	100%	100%	100%	100%

Trends in the Number of Associates Degrees Awarded in the Metro North Workforce Area

School/Major Field	2001	2002	2003	2004	2005	2006
Harvard University, Total	10	16	20	13	20	15
Liberal Arts & Sciences, General Studies and Humanities	10	16	20	13	20	15
ITT Technical Institute-Woburn	0	17	94	103	89	99
Computer and Information Sci. and Support Services	0	5	52	63	61	70
Engineering Technologies/Technicians	0	12	42	40	28	29
Lawrence Memorial Hospital School of Nursing	52	67	51	72	100	109
Health Professions and Related Clinical Sciences	52	67	51	72	100	109
Lesley University	3	0	0	2	0	0
Liberal Arts & Sciences, General Studies and Humanities	3	0	0	0	0	0
Multi/Interdisciplinary Studies	0	0	0	2	0	0
Metro North Workforce Area	65	100	165	190	209	223



Trends in the Number of Bachelor's Degrees
Conferred in the U.S., New England, Massachusetts and
Metro North, 1996 to 2006

	1996	2006	Absolute Change	Relative Change
U.S.	1,166,963	1,486,107	319,144	27%
New England	81,057	94,275	13,218	16%
Massachusetts	40,725	47,024	6,299	15%
Metro North	4,787	4,868	81	2%

Trends in the Number of Bachelor's Degrees Awarded in the U.S., New England, Massachusetts and Metro North, by Higher Education Sector, 1996 to 2006

Sector	1996	2006	Absolute Change	Relative Change
U.S.				
Public	774,264	954,254	179,990	23%
Private	392,699	531,853	139,154	35%
New England				
Public	32,224	37,712	5,488	17%
Private	48,833	56,563	7,730	16%
Massachusetts				
Public	12,312	13,950	1,638	13%
Private	28,413	33,074	4,661	16%
Metro North				
Public	0	0	0	0%
Private	4,787	4,868	81	2%



Trends in Bachelor's Degrees Awarded by Metro North Colleges, by Broad Major Field of Study, 1996 to 2006

	1996	2006	Absolute Change	Relative Change
Criminal Justice	0	0	0	-
Health Sciences	108	22	-86	-80%
Business	224	153	-71	-32%
Engineering & Computer Science	933	847	-86	-9%
Education	104	84	-20	-19%
Law	0	0	0	-
Arts & Humanities	2,408	2,764	356	15%
Sciences	1,010	760	-250	-25%
Personal Services	0	0	0	-
Total	4,787	4,868	81	2%



Distribution of Bachelor's Degrees Conferred by
Broad Major Fields of Study in Metro North,
Massachusetts, New England and the U.S., 2006

	Metro North	Massachusetts	New England	U.S.
Criminal Justice	0%	3%	2%	2%
Health Sciences	0%	6%	7%	8%
Business	3%	19%	19%	22%
Engineering & Computer Science	17%	9%	8%	9%
Education	2%	3%	4%	7%
Law	0%	0%	0%	0%
Arts & Humanities	57%	48%	47%	39%
Sciences	16%	8%	8%	8%
Personal Services	0%	0%	1%	1%
Undesignated Field of Study	5%	3%	3%	2%
Total	100%	100%	100%	100%



Recent Trends in the Number of Bachelor's Degrees Awarded in the Metro North Workforce Area

School	2001	2002	2003	2004	2005	2006
Cambridge College	44	61	63	106	111	163
Harvard University	1,828	1,799	1,804	1,797	1,807	1,748
Lesley University	407	367	370	391	422	405
Massachusetts Institute of Technology	1,183	1,187	1,281	1,194	1,220	1,129
Tufts University	1,330	1,246	1,355	1,336	1,240	1,423
Metro North Workforce Area	4,792	4,660	4,873	4,824	4,800	4,868



Trends in the Number of Undergraduate Non Degree Certificates Conferred in the U.S., New England, Massachusetts and Metro North, 1996 to 2006

	1996	2006	Absolute Change	Relative Change
U.S.	620,669	719,970	99,301	16%
New England	21,904	23,003	1,099	5%
Massachusetts	9,828	10,379	551	6%
Metro North	1,468	1,607	139	9%

Trends in the Number of Undergraduate Non Degree Certificates Awarded in the U.S., New England, Massachusetts and Metro North ,by Higher Education Sector, 1996 to 2006

Sector	1996	2006	Absolute Change	Relative Change
U.S.				
Public	307,358	373,218	65,860	21%
Private	313,311	346,752	33,441	11%
New England				
Public	4,451	4,922	471	11%
Private	17,453	18,081	628	4%
Massachusetts				
Public	2,463	2,899	436	18%
Private	7,365	7,480	115	2%
Metro North				
Public	0	0	0	0%
Private	1,468	1,607	139	9%

Trends in the Number of Undergraduate Non Degree Certificates Awarded in the U.S., New England, Massachusetts and Metro North ,by Higher Education Sector, 1996 to 2006

Sector	1996	2006	Absolute Change	Relative Change
U.S.				
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Private	17,453	18,081	628	4%
Massachusetts				
Public	2,463	2,899	436	18%
Private	7,365	7,480	115	2%
Metro North				
Public	0	0	0	0%
Private	1,468	1,607	139	9%


Distribution of Undergraduate Non Degree Certificates
Conferred by Broad Major Fields of Study in Metro North,
Massachusetts, New England and the U.S., 2006

	Metro North	Massachusetts	New England	U.S.
Criminal Justice	0%	1%	1%	4%
Health Sciences	65%	52%	45%	43%
Business	0%	3%	4%	9%
Engineering & Computer Science	1%	10%	22%	23%
Education	0%	1%	1%	1%
Law	0%	2%	2%	1%
Arts & Humanities	0%	6%	4%	4%
Sciences	0%	2%	1%	0%
Personal Services	33%	23%	20%	15%
Total	100%	100%	100%	100%



Recent Trends in the Number of Non Degree Certificates Awarded in the Metro North Workforce Area

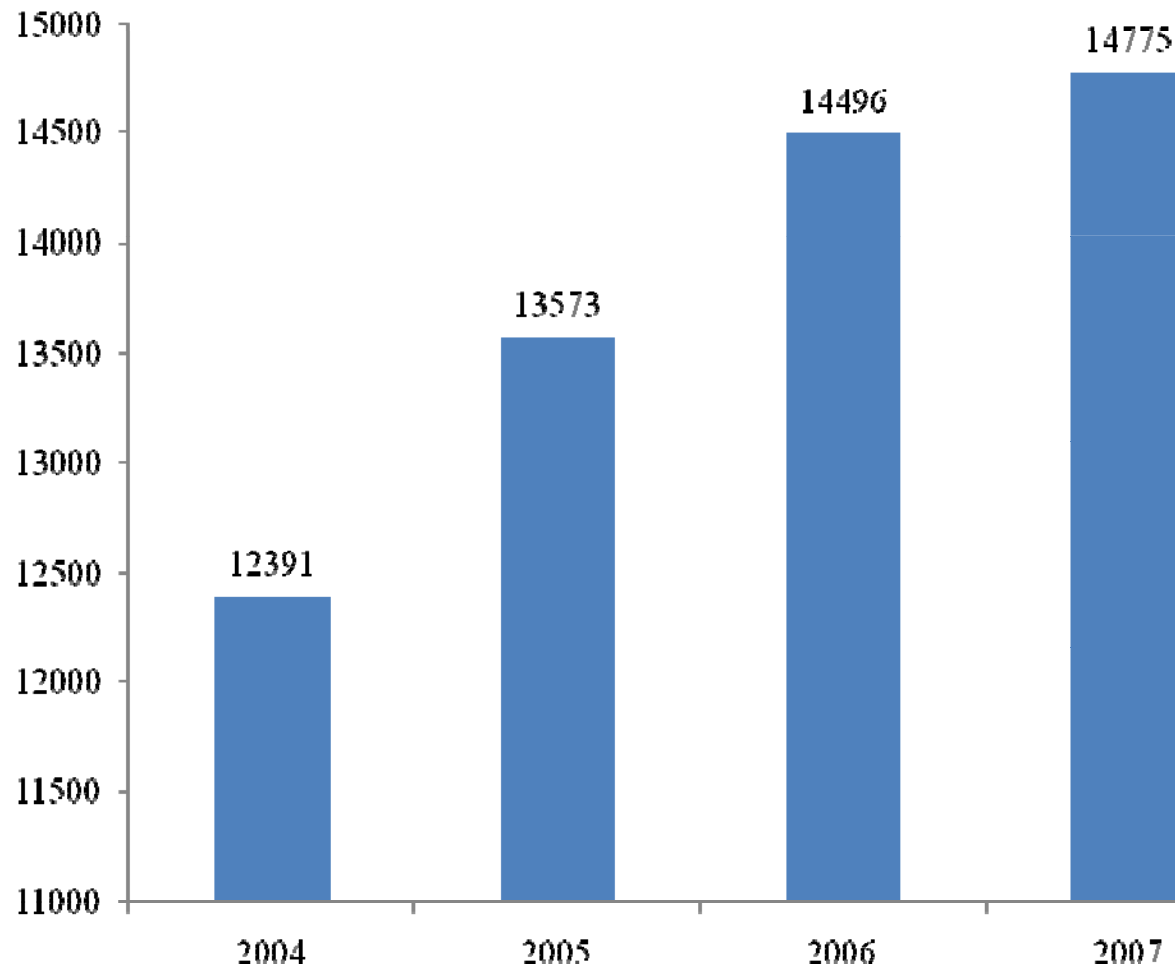
School/Institution	2001	2002	2003	2004	2005	2006
Blaine the Beauty Career School-Malden	166	159	191	217	193	155
Bryman Institute-A Corinthian School - Chelsea	0	0	0	0	336	199
Catherine Hinds Institute of Esthetics	164	236	219	159	152	147
Cortiva Institute-Muscular Therapy Institute	136	133	117	152	152	139
Elizabeth Grady School of Esthetics and Massage Therapy	70	115	133	106	112	90
Empire Beauty School-Malden	67	68	64	80	40	50
Lawrence Memorial Hospital School of Nursing	12	0	0	0	0	0
Lincoln Technical Institute - Somerville	0	78	278	370	529	490
Longy School of Music	8	5	7	11	10	4
Medical Professional Institute	0	0	0	90	74	84
New England Hair Academy	92	62	87	89	104	89
Salter School-Cambridge Campus	0	0	0	0	5	41
The Salter School-Malden Campus	0	0	4	15	176	119
Metro North Workforce Area	715	856	1,100	1,289	1,883	1,607




Secondary Career and Technical
Education Program Completions in
the Metro North Workforce Area

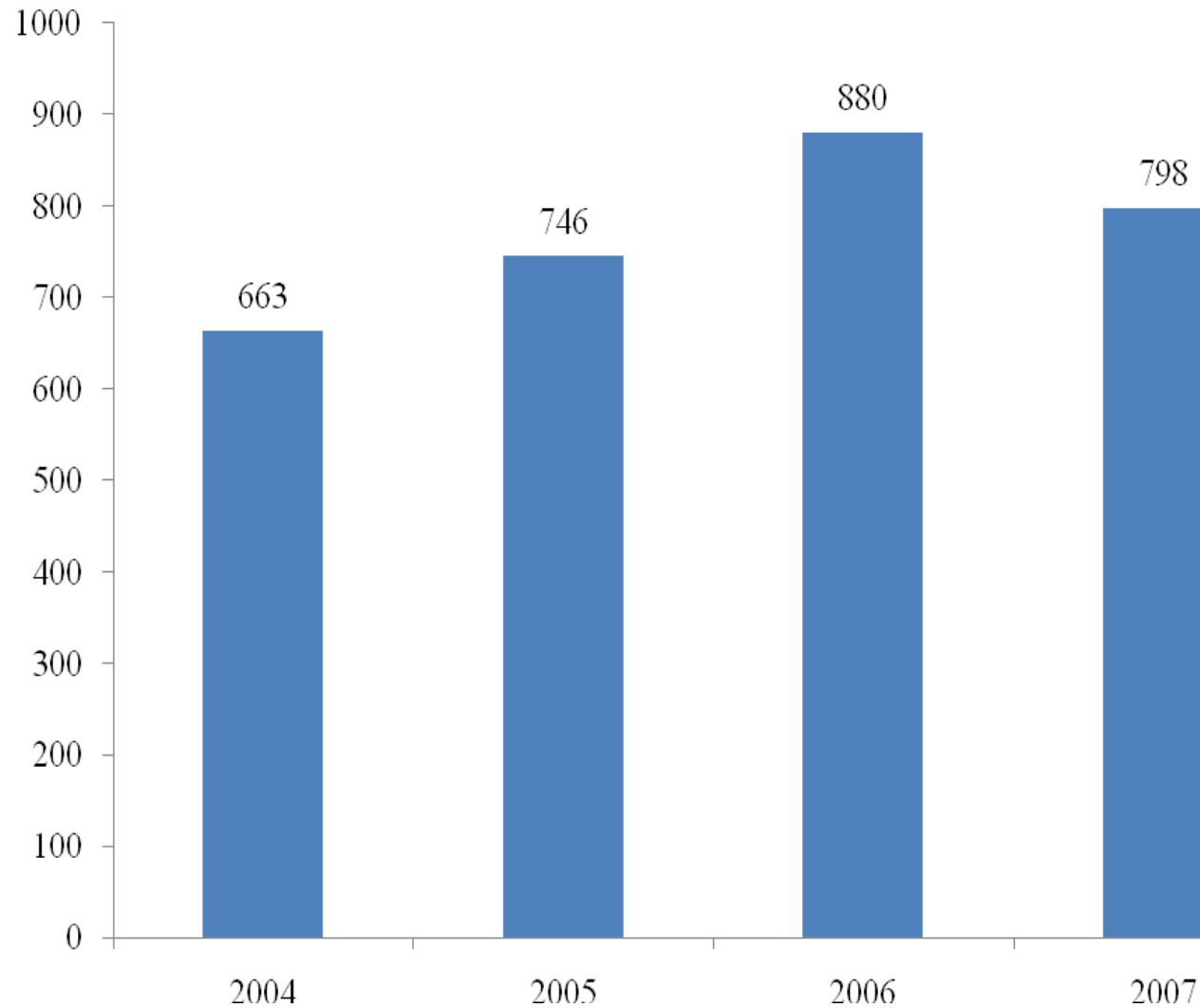


Trends in the Total Number of Secondary Career and Technical Education Graduates in Massachusetts, 2004 to 2007





Trends in the Total Number of Secondary Career and Technical Education Graduates in the Metro North Workforce Area, 2004 to 2007

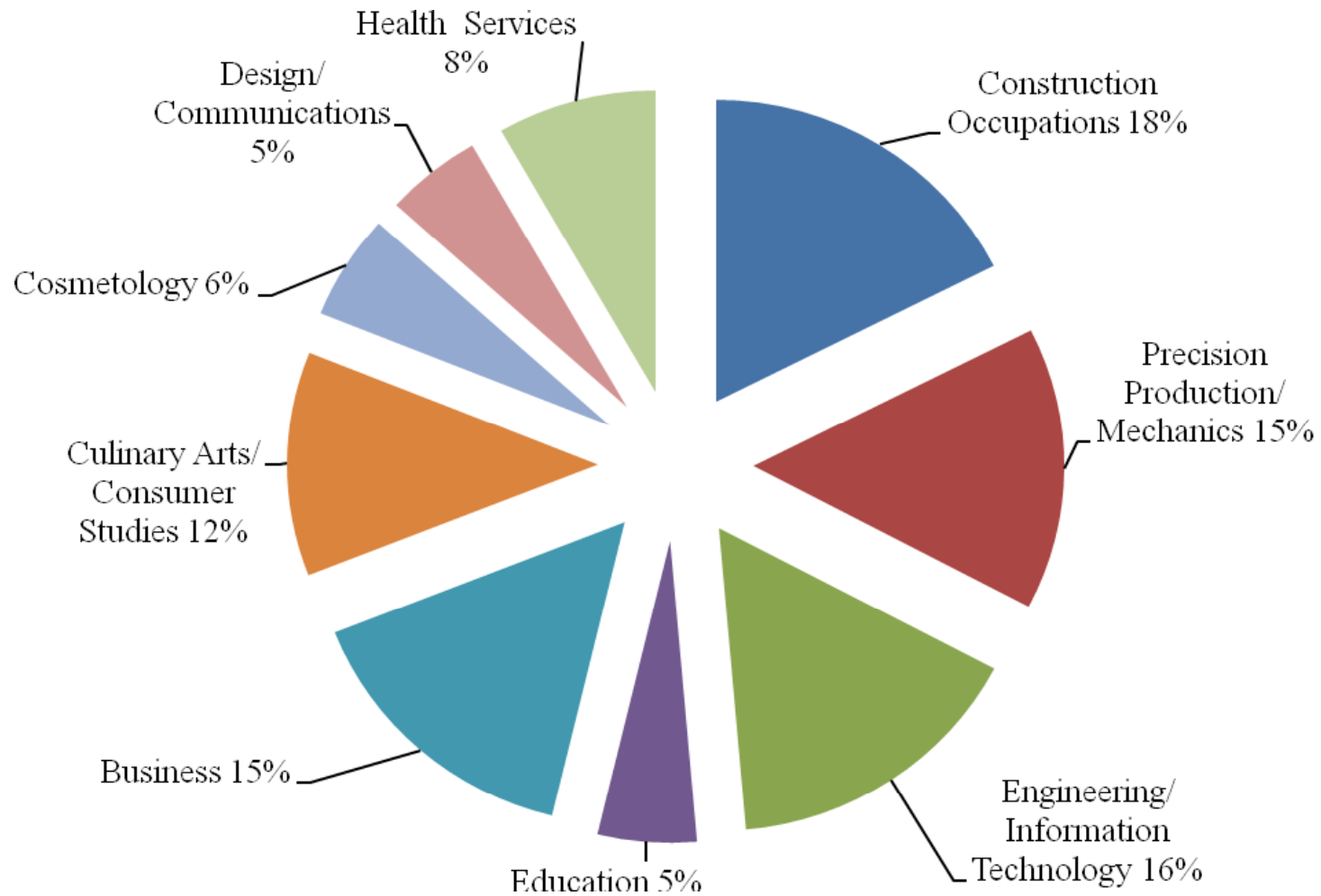





Trends in the Total Number of Secondary Career and
Technical Education Graduates in the Metro North Area,
by School, 2004 to 2007

School	2004	2005	2006	2007
Cambridge Rindge and Latin	39	98	142	59
Malden High	0	0	11	0
Medford High	0	0	3	7
Medford Voc Tech High	63	41	45	58
North Reading High	0	26	106	36
Somerville High	233	216	224	210
Full Circle High School	1	0	0	0
Wakefield Memorial High	0	18	0	0
Watertown High	96	95	116	160
Northeast Metro Regional Voc	231	252	233	268
Total	663	746	880	798

The Percent Distribution of Class of 2007 Career and Technical Education Secondary Graduates in the Metro North Workforce Area, by Major Occupational Field of Study





The Percent Distribution of Class of 2007 Career and Technical Education Secondary Graduates in Massachusetts and the Metro North, by Occupational Field of Study

Aggregate Programs	Massachusetts	Metro North
Construction Occupations	15%	18%
Precision Production/Mechanics	12%	15%
Engineering/Information Technology	16%	16%
Education	8%	5%
Business	19%	15%
Agricultural Services	3%	0%
Culinary Arts/Consumer Studies	9%	12%
Cosmetology	3%	6%
Design/Communications	6%	5%
Health Services	8%	8%
All Other	1%	0%
Total	100%	100%

Trends in the Number of Secondary Career and
Technical Education Graduates in the Metro North Workforce
Area, by Major Occupational Field of Study, 2004 to 2007

Aggregate Programs	2004	2005	2006	2007	Absolute Change	Relative Change
Construction Occupations Precision	100	98	93	140	40	40%
Production/Mechanics	92	121	135	121	29	32%
Engineering/Information Technology	139	125	131	127	-12	-9%
Education	20	41	34	41	21	105%
Business	120	174	262	122	2	2%
Culinary Arts/Consumer Studies	58	49	83	96	38	66%
Cosmetology	35	39	43	45	10	29%
Design/Communications	34	26	30	40	6	18%
Health Services	65	73	69	66	1	2%
Total	663	746	880	798	135	20%