

## ECONOMIC INFORMATION

The information in this section was prepared by the Massachusetts State Data Center (MassSDC) at the University of Massachusetts Donahue Institute and may be relevant in evaluating the economic and financial condition and prospects of the Commonwealth of Massachusetts. The State Data Center archives much of the data about Massachusetts. The demographic information and statistical data, which have been obtained by the MassSDC from the sources indicated, do not necessarily present all factors that may have a bearing on the Commonwealth's fiscal and economic affairs.

All information is presented on a calendar-year basis unless otherwise indicated. **The section was prepared for release on July 26, 2006. Information in the text, tables, charts, and graphs was current as of June 30, 2006.** Sources of information are indicated in the text or immediately following the charts and tables, and also on the *Sources List* on the last page of the Exhibit A section. Although the Commonwealth considers the sources to be reliable, the Commonwealth has made no independent verification of the information presented herein and does not warrant its accuracy.

### Statistical Overview

#### Population (p. A-2)

	<u>Massachusetts</u>	<u>United States</u>
Estimated Percent Change in Population, April 1, 2000–July 1, 2005	0.8%	5.3%

#### Personal Income, Consumer Prices, and Poverty (p. A-7)

Per Capita Personal Income, 2005	\$44,289	\$34,586
Average Annual Pay, All Industries, 2004	\$48,916	\$39,354
Percent Change in CPI-U, 2004-2005*	3.3%	3.4%
Percent Change in CPI-U, May 2005-May 2006*	3.9%	4.2%
Poverty Rate, 2003-2004 Average	9.7%	12.6%
Average Weekly Earnings, Manufacturing Production Workers: May 2006(p)	\$741.93	\$690.51
Percent Change, May 2005-May 2006(p)	1.2%	3.5%

#### Employment (p. A-15)

Percent Change in Nonfarm Payroll Employment, May 2005-May 2006(p)	0.7%	1.4%
Unemployment Rate, 2005	4.8%	5.1%
Unemployment Rate, May, 2006	5.0%	4.6%

#### Economic Base and Performance (p. A-21)

Percent Change in Gross State Product, 2004-2005	5.1%	6.4%
Percent Change in International Exports, 2004-2005	0.9%	10.6%
Percent Change in Housing Permits Authorized, 2004-2005	9.7%	7.4%

#### Human Resources and Infrastructure (p. A-38)

Expenditure Per Pupil, 2004	\$10,693	\$8,287
Percent of Adults with a Bachelor's Degree or higher, 2004	37.4%	27.0%

\* NOTE: Percent changes in the CPI-U are for the Boston area & the U.S.

Massachusetts is a densely populated state with a well-educated population, comparatively high income levels, low rates of unemployment, and a relatively diversified economy. While the total population of Massachusetts has remained fairly stable in the last twenty-five years, significant changes have occurred in the age distribution of the population: dramatic growth in residents between the ages of 20 and 44 since 1980 is expected to lead to a population distributed more heavily in the 65 and over age group in the next twenty-five years. Just as the working-age population has increased, income levels in Massachusetts since 1980 have grown significantly more than the national average, and a variety of measures of income show that Massachusetts residents have significantly higher amounts of annual income than the national average. These higher levels of income have been accompanied by a significantly lower poverty rate and, with the exception of the recession of the early 1990s, considerably lower unemployment rates in Massachusetts than in the United States since 1980. The state is now recovering from the recession of 2001, but is lagging behind the nation in many indicators, particularly employment levels.

The following five sections provide detailed information on population characteristics, personal income, employment, economic base and performance, and human resources and infrastructure.

## **POPULATION CHARACTERISTICS**

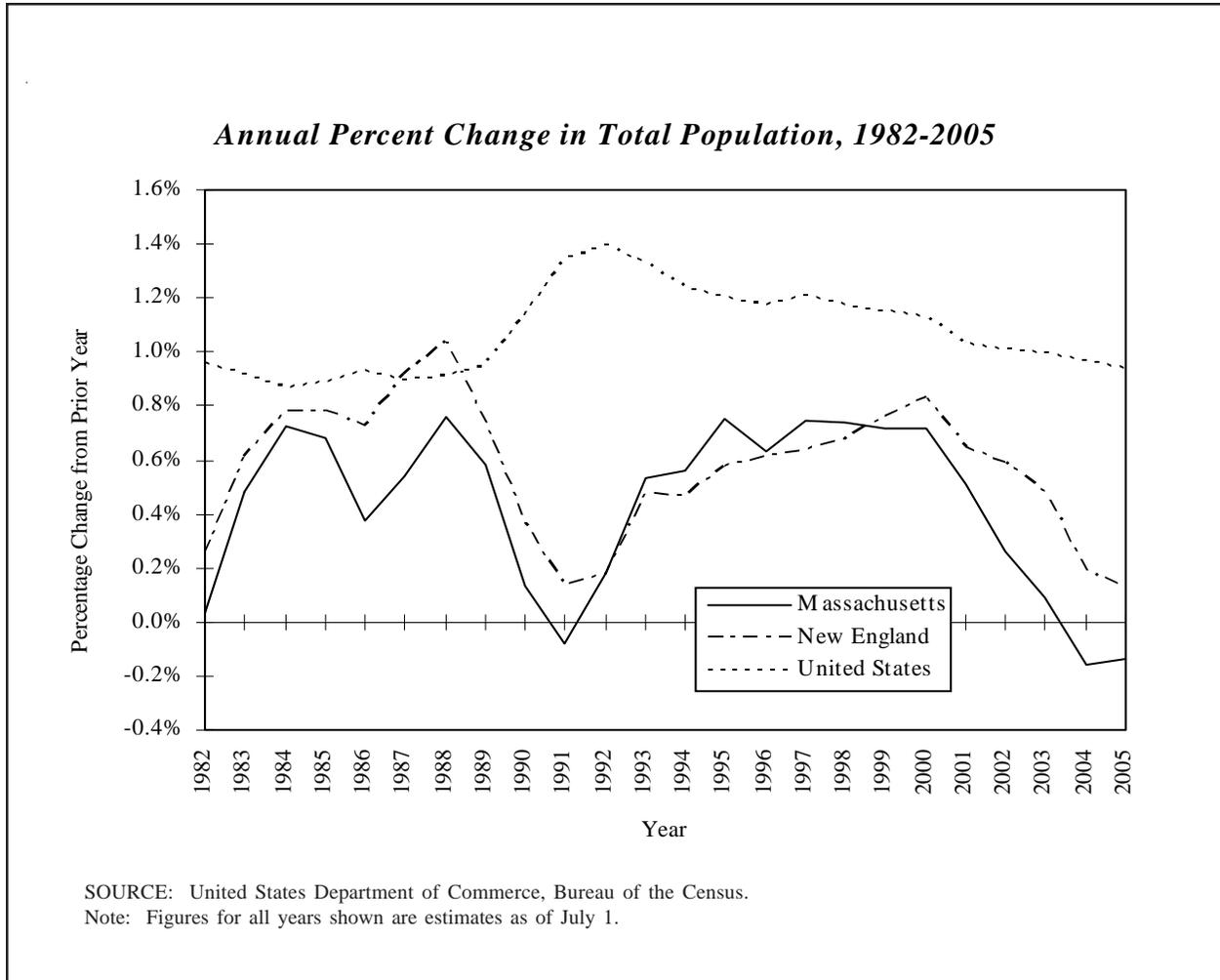
Massachusetts is a relatively slow growing but densely populated state with a comparatively large percentage of its residents living in metropolitan areas. The population density of Massachusetts was estimated as of July 1, 2005 to be 816.2 persons per square mile, as compared to 83.8 for the United States as a whole. Among the 50 states, only Rhode Island and New Jersey have a greater population density. Massachusetts also ranked just behind the same two states in percentage of residents living in metropolitan areas according to the metropolitan definitions released in 2003 which are based on whole counties. According to this new definition, the entire state is considered metropolitan except for the two island counties (99.6 percent of state residents in 2004) while Rhode Island, New Jersey and D.C. are wholly metropolitan.

The State's population is concentrated in its eastern portion. The city of Boston is the largest city in New England, with a 2005 population estimated at 559,034, or 8.7 percent of the state's population. Boston is the hub of the seven-county Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area (MSA), which includes the two southeastern New Hampshire counties, and which had a total population in 2004 estimated at 4,424,649; over 30 percent of the total New England population. The three-county Boston-Quincy, MA Metropolitan Division is the largest component of that MSA, with a total population in 2005 estimated at 1,800,432.

The second largest MSA in the state is the Worcester, MA MSA, with a 2005 population estimated at 783,262. The city of Worcester, situated approximately 40 miles west of Boston with a 2005 population estimated at 175,898, is the third largest city in New England as well as the second largest in the state. Its service, trade, and manufacturing industries combine for more than 70 percent of Worcester's total employment. As a major medical and educational center, the Worcester area is home to 19 patient care facilities, including the University of Massachusetts Medical School, and twelve other colleges and universities.

The third largest MSA in Massachusetts is the three-county Springfield MSA, with a 2005 population estimated at 687,264. Springfield, the third largest city in the Commonwealth with a 2005 population estimated at 151,732, is located in the Connecticut River Valley in Western Massachusetts and enjoys a diverse body of corporate employers, the largest of which are Baystate Health System, Big Y Supermarkets, MassMutual Financial Group, and Hasbro Games (Milton Bradley). In addition, Springfield is home to three independent colleges.

As the following chart and table indicate, the population in Massachusetts generally grows more slowly than the population of New England and much more slowly than the nation as a whole. According to the Census Bureau's latest revised estimates, only the District of Columbia, North Dakota, and West Virginia have grown more slowly than Massachusetts since Census 2000, and the state has even had a slight population loss since apparently peaking in 2003.



The following table compares the population level and percentage change in the population level of Massachusetts with those of the New England states and the United States.

### **Population, 1972-2005**

(in thousands)

<i>Year</i>	<i>Massachusetts</i>		<i>New England</i>		<i>United States</i>	
	<i>Total</i>	<i>Percent Change</i>	<i>Total</i>	<i>Percent Change</i>	<i>Total</i>	<i>Percent Change</i>
<b>1972</b>	5,760	0.4%	12,082	0.7%	209,284	1.2%
<b>1973</b>	5,781	0.4%	12,140	0.5%	211,357	1.0%
<b>1974</b>	5,774	-0.1%	12,146	0.0%	213,342	0.9%
<b>1975</b>	5,758	-0.3%	12,163	0.1%	215,465	1.0%
<b>1976</b>	5,744	-0.2%	12,192	0.2%	217,563	1.0%
<b>1977</b>	5,738	-0.1%	12,239	0.4%	219,760	1.0%
<b>1978</b>	5,736	0.0%	12,283	0.4%	222,095	1.1%
<b>1979</b>	5,738	0.0%	12,322	0.3%	224,567	1.1%
<b>1980</b>	5,737	0.0%	12,348	0.2%	226,546	0.9%
<b>1981</b>	5,769	0.6%	12,436	0.7%	229,466	1.3%
<b>1982</b>	5,771	0.0%	12,468	0.3%	231,664	1.0%
<b>1983</b>	5,799	0.5%	12,544	0.6%	233,792	0.9%
<b>1984</b>	5,841	0.7%	12,642	0.8%	235,825	0.9%
<b>1985</b>	5,881	0.7%	12,741	0.8%	237,924	0.9%
<b>1986</b>	5,903	0.4%	12,833	0.7%	240,133	0.9%
<b>1987</b>	5,935	0.5%	12,951	0.9%	242,289	0.9%
<b>1988</b>	5,980	0.8%	13,085	1.0%	244,499	0.9%
<b>1989</b>	6,015	0.6%	13,182	0.7%	246,819	0.9%
<b>1990</b>	6,023	0.1%	13,230	0.4%	249,623	1.1%
<b>1991</b>	6,018	-0.1%	13,248	0.1%	252,981	1.3%
<b>1992</b>	6,029	0.2%	13,271	0.2%	256,514	1.4%
<b>1993</b>	6,061	0.5%	13,334	0.5%	259,919	1.3%
<b>1994</b>	6,095	0.6%	13,396	0.5%	263,126	1.2%
<b>1995</b>	6,141	0.8%	13,473	0.6%	266,278	1.2%
<b>1996</b>	6,180	0.6%	13,555	0.6%	269,394	1.2%
<b>1997</b>	6,226	0.7%	13,642	0.6%	272,647	1.2%
<b>1998</b>	6,272	0.7%	13,734	0.7%	275,854	1.2%
<b>1999</b>	6,317	0.7%	13,838	0.8%	279,040	1.2%
<b>2000</b>	6,362	0.7%	13,953	0.8%	282,193	1.1%
<b>2001</b>	6,395	0.5%	14,043	0.6%	285,108	1.0%
<b>2002</b>	6,412	0.3%	14,126	0.6%	287,985	1.0%
<b>2003</b>	6,418	0.1%	14,194	0.5%	290,850	1.0%
<b>2004</b>	6,407	-0.2%	14,222	0.2%	293,657	1.0%
<b>2005</b>	6,399	-0.1%	14,240	0.1%	296,410	0.9%

SOURCE: United States Department of Commerce, Bureau of the Census. 1980 figures are census counts as of April 1, 1980; figures for all other years shown are estimates as of July 1.

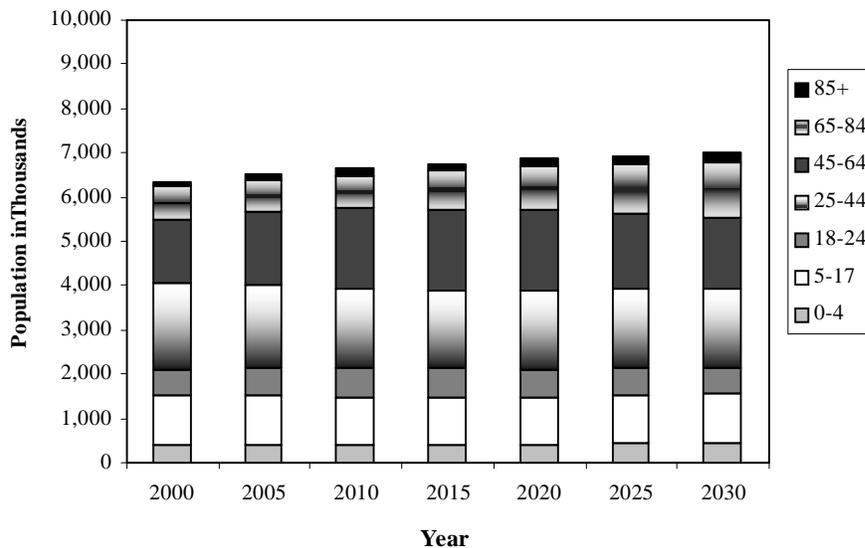
The next twenty-five years are expected to bring about a continued change in the age distribution of the Massachusetts population. As the following table and chart show, the share of the 65 and over age group and especially the 85 and over age group will continue to grow. The chart, table and population pyramids (below, and on the following page) show the projected population by age for Massachusetts for 2000 through 2030.

***Projected Massachusetts Population by Age Group, 2000-2030***  
(in thousands)

<i>Year</i>	<i>0-4</i>	<i>5-17</i>	<i>18-24</i>	<i>25-44</i>	<i>45-64</i>	<i>65-84</i>	<i>85+</i>	<i>All Ages</i>	<i>Median Age</i>
<b>2000</b>	397.3	1,102.8	579.3	1,989.8	1,419.8	743.5	116.7	6,349.1	36.5
<b>2005</b>	406.3	1,119.2	611.8	1,874.6	1,649.0	720.7	137.4	6,518.9	37.8
<b>2010</b>	400.7	1,083.1	670.2	1,769.7	1,817.1	750.6	158.0	6,649.4	38.8
<b>2015</b>	409.7	1,064.2	656.0	1,746.1	1,857.1	856.5	168.9	6,758.6	39.2
<b>2020</b>	422.3	1,070.9	617.5	1,775.8	1,809.3	987.8	172.0	6,855.5	39.5
<b>2025</b>	431.0	1,087.7	616.2	1,782.5	1,703.3	1,137.8	180.1	6,938.6	39.7
<b>2030</b>	430.6	1,115.0	610.7	1,783.9	1,608.7	1,251.2	211.9	7,012.0	40.2

Actual Census 2000 counts as of April 1; all other figures are projections as of July 1 of the indicated year.  
Interim Population Projections through 2030 released April 21, 2005 by the Population Division, Bureau of the Census, United States Department of Commerce.

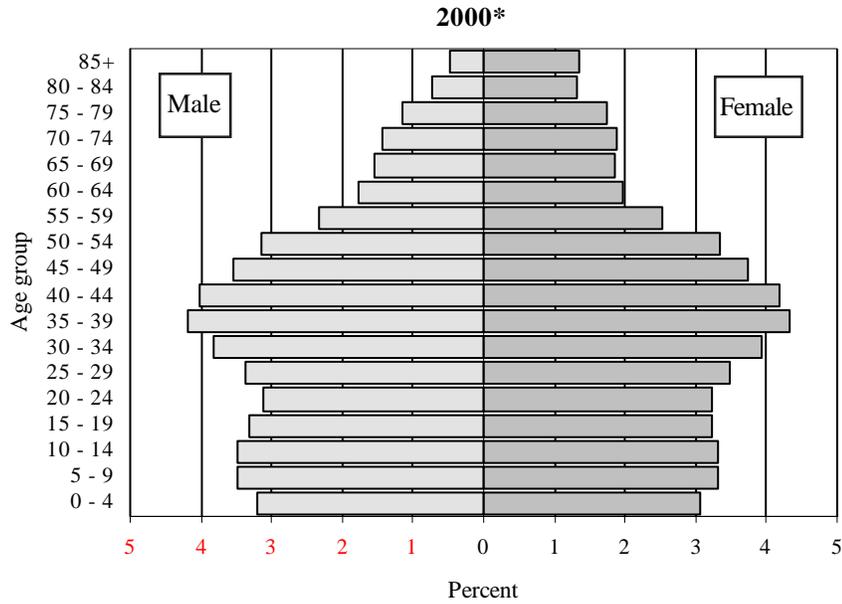
***Projected Massachusetts Population by Age Group***  
***2000-2030***



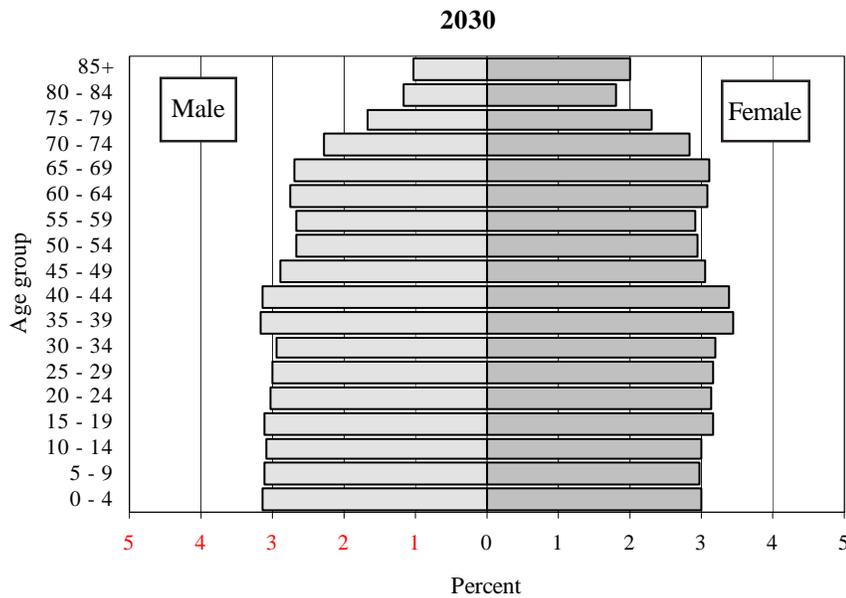
Actual Census 2000 counts as of April 1; all other figures are projections as of July 1 of the indicated year.  
Interim Population Projections through 2030 released April 21, 2005 by the Population Division, Bureau of the Census, United States Department of Commerce.

## Population Pyramids of Massachusetts

(percent of total population)



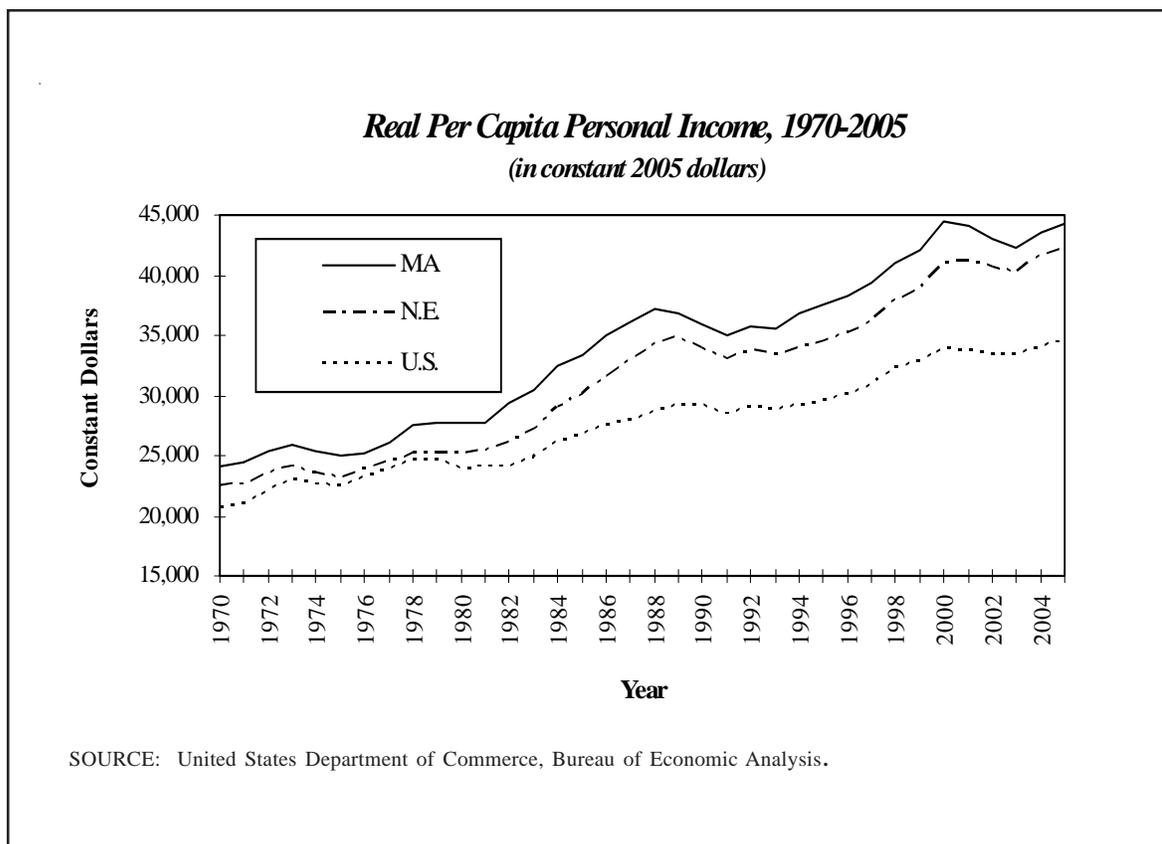
\*Note: Actual Census 2000 counts as of April 1.



SOURCE: U.S. Census Bureau, Population Division, Interim State Population Projections, 2005  
 Internet Release Date: April 21, 2005

## PERSONAL INCOME, CONSUMER PRICES, AND POVERTY

**Personal Income.** Since at least 1929, real and nominal per capita income levels have been consistently higher in Massachusetts than in the United States. After growing at an annual rate higher than that for the United States between 1982 and 1988, real income levels in Massachusetts declined between 1989 and 1991. Real per capita income levels in Massachusetts increased faster than the national average between 1994 and 1997. In 2000 Massachusetts had its highest per capita income growth in 16 years, exceeding the national growth rate by 2.4 percentage points. From 2000 to 2003 real income in both Massachusetts and the United States declined, with a steeper decline in Massachusetts. However, real income levels in Massachusetts remained well above the national average. In both 2004 and 2005, income in the state grew faster than in the nation. For the last three years only the District of Columbia and Connecticut have had higher levels of per capita personal income. The following graph illustrates these changes in real per capita personal income in Massachusetts, New England, and the United States since 1970.



The following table compares per capita personal income in Massachusetts, New England, and the United States for the period 1970-2005.

***Per Capita Personal Income, 1970-2005***

Year	Nominal Income (in current dollars)			Real Income (in 2005 dollars)			Percent Change in Real Income		
	MA	NE	U.S.	MA	NE	U.S.	MA	NE	U.S.
1970	4,483	4,445	4,085	24,132	22,374	20,562	0.3%	0.5%	0.7%
1971	4,752	4,680	4,342	24,368	22,568	20,938	1.0%	0.9%	1.8%
1972	5,109	5,029	4,717	25,299	23,497	22,039	3.8%	4.1%	5.3%
1973	5,547	5,481	5,231	25,926	24,109	23,009	2.5%	2.6%	4.4%
1974	6,016	5,958	5,707	25,427	23,602	22,608	-1.9%	-2.1%	-1.7%
1975	6,459	6,381	6,172	25,049	23,164	22,405	-1.5%	-1.9%	-0.9%
1976	6,998	6,959	6,754	25,239	23,886	23,182	0.8%	3.1%	3.5%
1977	7,620	7,593	7,405	26,133	24,471	23,865	3.5%	2.4%	2.9%
1978	8,430	8,413	8,245	27,474	25,200	24,697	5.1%	3.0%	3.5%
1979	9,385	9,392	9,146	27,745	25,265	24,603	1.0%	0.3%	-0.4%
1980	10,602	10,629	10,114	27,776	25,192	23,972	0.1%	-0.3%	-2.6%
1981	11,798	11,846	11,246	27,811	25,451	24,162	0.1%	1.0%	0.8%
1982	12,941	12,871	11,935	29,324	26,049	24,154	5.4%	2.3%	0.0%
1983	14,009	13,829	12,618	30,376	27,117	24,742	3.6%	4.1%	2.4%
1984	15,723	15,422	13,891	32,497	28,989	26,111	7.0%	6.9%	5.5%
1985	16,910	16,546	14,758	33,449	30,032	26,787	2.9%	3.6%	2.6%
1986	18,148	17,722	15,442	35,002	31,579	27,517	4.6%	5.2%	2.7%
1987	19,575	19,119	16,240	36,174	32,869	27,920	3.3%	4.1%	1.5%
1988	21,341	20,811	17,331	37,184	34,357	28,612	2.8%	4.5%	2.5%
1989	22,342	22,083	18,520	36,823	34,781	29,169	-1.0%	1.2%	1.9%
1990	23,043	22,712	19,477	35,900	33,938	29,104	-2.5%	-2.4%	-0.2%
1991	23,432	22,969	19,892	34,970	32,936	28,524	-2.6%	-3.0%	-2.0%
1992	24,538	24,172	20,854	35,734	33,648	29,029	2.2%	2.2%	1.8%
1993	25,176	24,752	21,346	35,632	33,454	28,850	-0.3%	-0.6%	-0.6%
1994	26,303	25,687	22,172	36,746	33,851	29,219	3.1%	1.2%	1.3%
1995	27,457	26,832	23,076	37,463	34,385	29,572	2.0%	1.6%	1.2%
1996	28,933	28,194	24,175	38,341	35,094	30,092	2.3%	2.1%	1.8%
1997	30,498	29,687	25,334	39,308	36,124	30,827	2.5%	2.9%	2.4%
1998	32,524	31,677	26,883	40,991	37,954	32,210	4.3%	5.1%	4.5%
1999	34,227	33,126	27,939	42,084	38,833	32,752	2.7%	2.3%	1.7%
2000	37,756	36,118	29,845	44,501	40,963	33,849	5.7%	5.5%	3.3%
2001	38,953	37,342	30,574	44,018	41,180	33,716	-1.1%	0.5%	-0.4%
2002	38,985	37,379	30,810	42,933	40,579	33,447	-2.5%	-1.5%	-0.8%
2003	39,798	38,009	31,484	42,238	40,343	33,418	-1.6%	-0.6%	-0.1%
2004	42,176	40,260	33,050	43,565	41,624	34,170	3.1%	3.2%	2.3%
2005	44,289	42,314	34,586	44,289	42,314	34,586	1.7%	1.7%	1.2%

SOURCE: United States Department of Commerce, Bureau of Economic Analysis.

Notes: Estimated population as of July 1. Massachusetts real income is calculated using Boston CPI-U data.

**Annual pay in nominal dollars** has grown steadily in Massachusetts over the past decade. Average annual pay is computed by dividing the total annual payroll of employees covered by Unemployment Insurance programs by the average monthly number of employees. Data are reported by employers covered under the Unemployment Insurance programs. While levels of annual pay were nearly equal in Massachusetts and the United States in 1984, average annual pay levels in Massachusetts have grown more rapidly than the national average since that time. The level of annual pay in Massachusetts in 2004 was 24 percent higher than the national average: \$48,916 compared to \$39,354.

**Wage and Salary Disbursements.** Wage and Salary Disbursements by Place of Work is a component of personal income and measures monetary disbursements to employees. This includes compensation of corporate officers, commissions, tips, bonuses, and receipts in-kind. Although the data is recorded on a place-of-work basis, it is then adjusted to a place-of-residence basis so that the personal income of the recipients whose place of residence differs from their place of work will be correctly assigned to their state of residence. The table below details Wage and Salary Disbursements since 1990. Between 1991 and 2000, Massachusetts shares of the New England and overall US totals steadily increased, but in the subsequent years, its shares have dropped back somewhat from their 2000 peaks.

**Annual Wage and Salary Disbursements, 1990-2004**  
(in millions of dollars)

Year	U.S.	N.E.	MA	MA as a pct. of N.E.
1990	\$ 2,743,016	\$171,448	\$83,129	48.5%
1991	\$ 2,811,076	\$170,333	\$82,311	48.3%
1992	\$ 2,972,287	\$177,810	\$86,014	48.4%
1993	\$ 3,076,276	\$183,236	\$89,047	48.6%
1994	\$ 3,227,483	\$190,661	\$93,164	48.9%
1995	\$ 3,415,368	\$201,946	\$99,194	49.1%
1996	\$ 3,615,699	\$213,667	\$105,573	49.4%
1997	\$ 3,874,011	\$230,032	\$113,579	49.4%
1998	\$ 4,179,922	\$247,851	\$123,054	49.6%
1999	\$ 4,463,650	\$266,554	\$134,045	50.3%
2000	\$ 4,825,906	\$293,889	\$150,842	51.3%
2001	\$ 4,939,944	\$300,698	\$153,131	50.9%
2002	\$ 4,976,522	\$298,534	\$150,107	50.3%
2003	\$ 5,105,408	\$304,739	\$151,997	49.9%
2004	\$ 5,383,900	\$321,398	\$160,217	49.8%

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis.

**Consumer Prices.** Higher income levels in Massachusetts relative to the rest of the United States are offset to some extent by the higher cost of living in Massachusetts. The following table presents consumer price trends for the Boston metropolitan area and the United States for the period between 1970 and 2005. The table shows the annual average of the Consumer Price Index for All Urban Consumers (CPI-U) and the percentage change in that average from the previous year. In 2005, the CPI-U for Boston increased by 3.3 percent over the average for the previous calendar year, while the index for the United States as a whole increased by a comparable 3.4 percent. The latest available data for May 2006 show that the CPI-U for the Boston metropolitan area grew at a rate of 3.9 percent from May 2005, compared with 4.2 percent for the U.S.

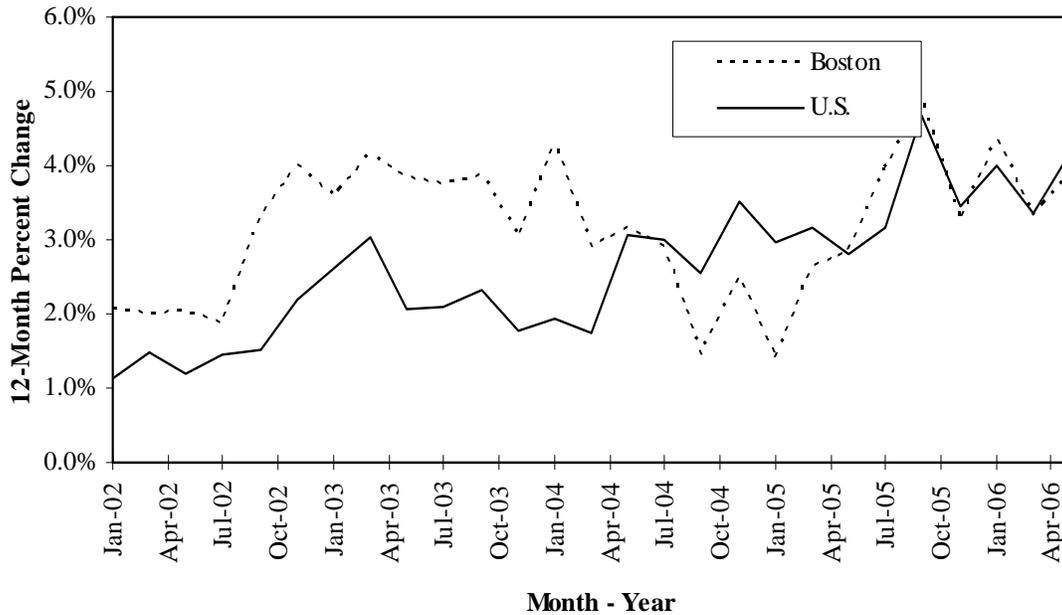
**Consumer Price Index for all Urban Consumers (CPI-U), 1970-2005**

(not seasonally adjusted, (1982-1984=100))

Year	Boston Metro Area		United States	
	CPI-U	Pct. Change	CPI-U	Pct. Change
1970	40.2		38.8	
1971	42.2	5.0%	40.5	4.4%
1972	43.7	3.6%	41.8	3.2%
1973	46.3	5.9%	44.4	6.2%
1974	51.2	10.6%	49.3	11.0%
1975	55.8	9.0%	53.8	9.1%
1976	60.0	7.5%	56.9	5.8%
1977	63.1	5.2%	60.6	6.5%
1978	66.4	5.2%	65.2	7.6%
1979	73.2	10.2%	72.6	11.3%
1980	82.6	12.8%	82.4	13.5%
1981	91.8	11.1%	90.9	10.3%
1982	95.5	4.0%	96.5	6.2%
1983	99.8	4.5%	99.6	3.2%
1984	104.7	4.9%	103.9	4.3%
1985	109.4	4.5%	107.6	3.6%
1986	112.2	2.6%	109.6	1.9%
1987	117.1	4.4%	113.6	3.6%
1988	124.2	6.1%	118.3	4.1%
1989	131.3	5.7%	124.0	4.8%
1990	138.9	5.8%	130.7	5.4%
1991	145.0	4.4%	136.2	4.2%
1992	148.6	2.5%	140.3	3.0%
1993	152.9	2.9%	144.5	3.0%
1994	154.9	1.3%	148.2	2.6%
1995	158.6	2.4%	152.4	2.8%
1996	163.3	3.0%	156.9	3.0%
1997	167.9	2.8%	160.5	2.3%
1998	171.7	2.3%	163.0	1.6%
1999	176.0	2.5%	166.6	2.2%
2000	183.6	4.3%	172.2	3.4%
2001	191.5	4.3%	177.1	2.8%
2002	196.5	2.6%	179.9	1.6%
2003	203.9	3.8%	184.0	2.3%
2004	209.5	2.7%	188.9	2.7%
2005	216.4	3.3%	195.3	3.4%
May-05	214.6		194.4	
May-06	222.9	3.9%	202.5	4.2%

SOURCE: United States Department of Labor, Bureau of Labor Statistics

**Consumer Price Index for all Urban Consumers  
January 2002 - May 2006**



SOURCE: United States Department of Labor, Bureau of Labor Statistics.

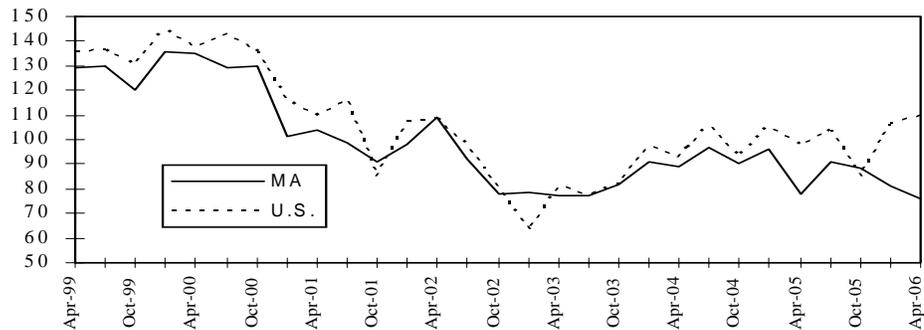
**Consumer Confidence, Present Situation, and Future Expectations.** These three measures offer multiple insights into consumer attitudes. The U.S. measures are compiled from a national monthly survey of 5,000 households and are published by The Conference Board, Inc. The survey for Massachusetts is conducted in a similar manner and the results are published by the Mass Insight Corporation, based on quarterly polling of 500 adult residents of Massachusetts. The "Present Situation" index measures consumers' appraisal of business and employment conditions at the time of the survey. The "Future Expectations" index focuses on consumers' expectations six months hence regarding business and employment conditions, as well as expected family income. The overall "Consumer Confidence" index is a weighted average of the two sub-indices. Although the U.S. measures are compiled by a different source than the Massachusetts measures, according to the Federal Reserve Bank of Boston the numbers are generally comparable. While consumer confidence nationally reached its highest point in four years last month at 109 as reported by the Conference Board, Massachusetts' consumer confidence has fallen to 76, its lowest level since January 2003, according to the Mass Insight quarterly survey. The overall 33-point gap between state and national consumer confidence is the largest in more than a decade. A score of 100 is considered neutral. The following table and chart detail the recent record of these three measures.

**Consumer Confidence, Present Situation, and Future Expectations for Massachusetts and the U.S., January 2001 - April 2006 (1985=100)**

	Consumer Confidence		Present Situation		Future Expectations	
	MA	U.S.	MA	U.S.	MA	U.S.
<b>Jan-01</b>	101.0	115.7	139.0	170.4	76.0	79.3
<b>Apr-01</b>	104.0	109.9	124.0	156.0	91.0	79.1
<b>Jul-01</b>	99.0	116.3	108.0	151.3	93.0	92.9
<b>Oct-01</b>	91.0	85.3	94.0	107.2	90.0	70.7
<b>Jan-02</b>	97.8	107.0	98.1	72.0	97.6	130.0
<b>Apr-02</b>	109.0	108.5	84.0	106.8	125.0	109.6
<b>Jul-02</b>	92.0	97.4	68.0	99.4	108.0	96.1
<b>Oct-02</b>	78.0	79.6	48.0	77.2	97.0	81.1
<b>Jan-03</b>	78.8	63.0	75.3	28.0	81.1	86.0
<b>Apr-03</b>	77.0	81.0	31.0	75.2	108.0	84.8
<b>Jul-03</b>	77.0	77.0	41.0	63.0	101.0	86.3
<b>Oct-03</b>	82.0	81.7	36.0	67.0	112.0	91.5
<b>Jan-04</b>	91.0	97.7	48.0	86.1	119.0	105.3
<b>Apr-04</b>	89.0	93.0	53.0	90.4	113.0	94.8
<b>Jul-04</b>	97.0	105.7	66.0	106.4	119.0	105.3
<b>Oct-04</b>	90.0	92.9	64.0	94.0	108.0	92.2
<b>Jan-05</b>	96.0	105.1	70.0	112.1	114.0	100.4
<b>Apr-05</b>	78.0	97.5	63.0	113.8	88.0	86.7
<b>Jul-05</b>	91.0	103.6	80.0	119.3	99.0	93.2
<b>Oct-05</b>	88.0	85.2	80.0	107.8	95.0	70.1
<b>Jan-06</b>	81.0	106.8	71.0	128.8	87.0	92.1
<b>Apr-06</b>	76.0	109.8	77.0	136.2	76.0	92.3

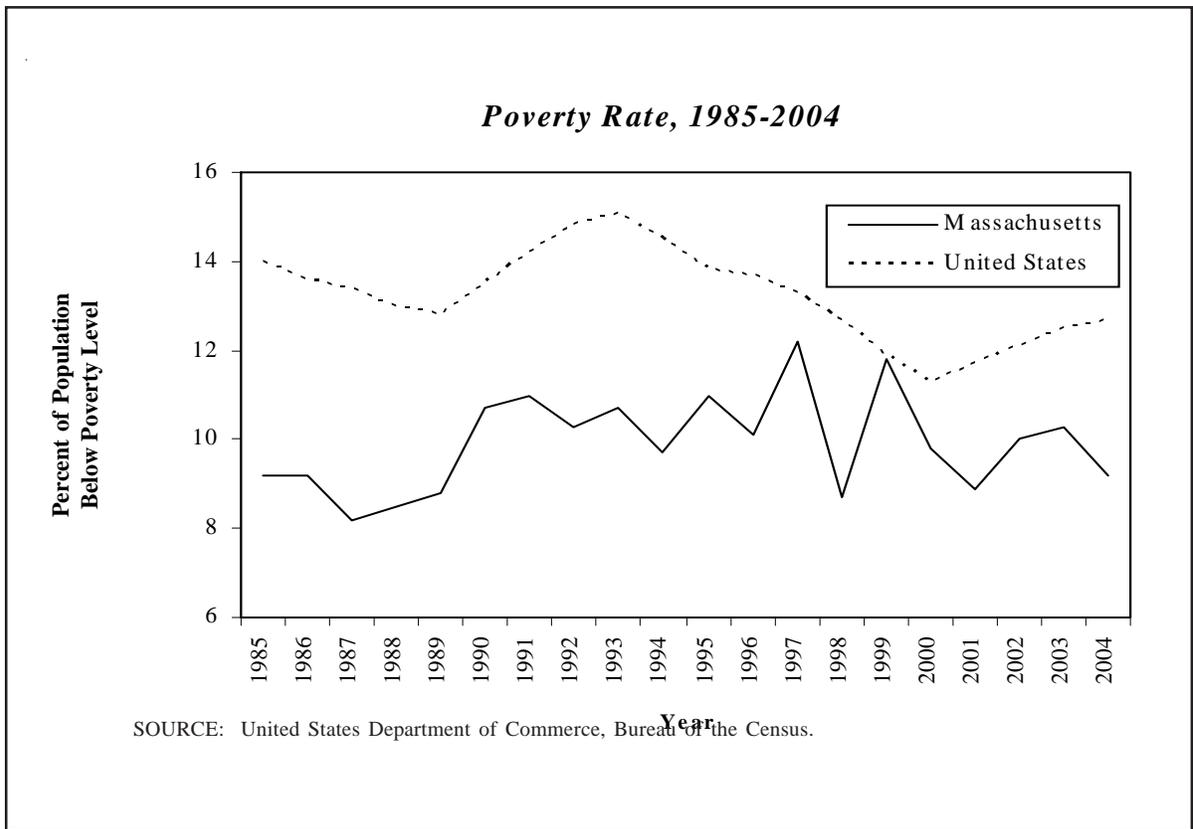
SOURCES: The Conference Board, Inc. (for U.S. measures, seasonally adjusted), Mass Insight Corporation (for MA measures, not seasonally adjusted).

**Consumer Confidence: Massachusetts and the U.S., January 1999 - April 2006**  
(Massachusetts index not seasonally adjusted; 1985 = 100)



SOURCES: The Conference Board, Inc. (for U.S. and N.E. measures), Mass Insight Corporation (for MA measure).

**Poverty.** The Massachusetts poverty rate remains below the national average. Since 1980, the percentage of the Massachusetts population below the poverty line has varied between 7.7 percent and 12.2 percent. During the same time, the national poverty rate varied between 11.3 percent and 15.1 percent. In 2004, the poverty rate in Massachusetts decreased to 9.2 percent while the poverty rate in the United States rose slightly to 12.7 percent. Since 1980, the ratio of the Massachusetts rate of poverty to the United States rate of poverty has varied from a low of 0.51 in 1983 to 0.99 in 1999. These official poverty statistics are not adjusted for regional differences in the cost of living. The following chart illustrates the lower poverty rates in Massachusetts (1985 - 2004) compared with the national average during similar periods. Poverty estimates for states are not as reliable as national estimates. One should use caution when comparing poverty rate estimates across states, or poverty rates for the same state across years, because their variability is high.

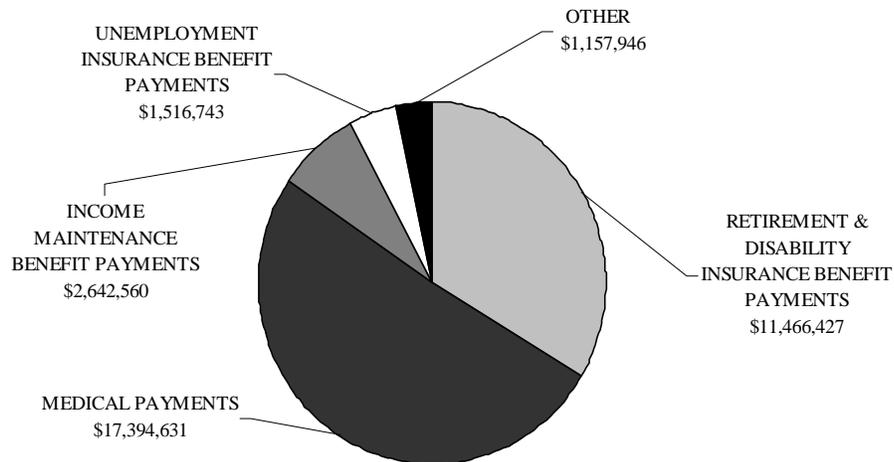


**Transfer Payments.** Transfer payment income is payment to individuals from all levels of government and from businesses, for which no current services are performed, including payments to nonprofit institutions serving individuals. These payments accounted for more than 13 percent of total personal income in Massachusetts in 2004. The chart below does not include transfer payments from business or payments to non-profit organizations. Total transfer payments to individuals in Massachusetts totaled 35.4 billion dollars for 2004. Approximately 51 percent of total transfer payments were medical payments.

***Transfer Payments from Governments to Individuals in  
Massachusetts in 2004***

***(From Annual State Personal Income Estimates)***

*(in thousands of current dollars)*



SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis.

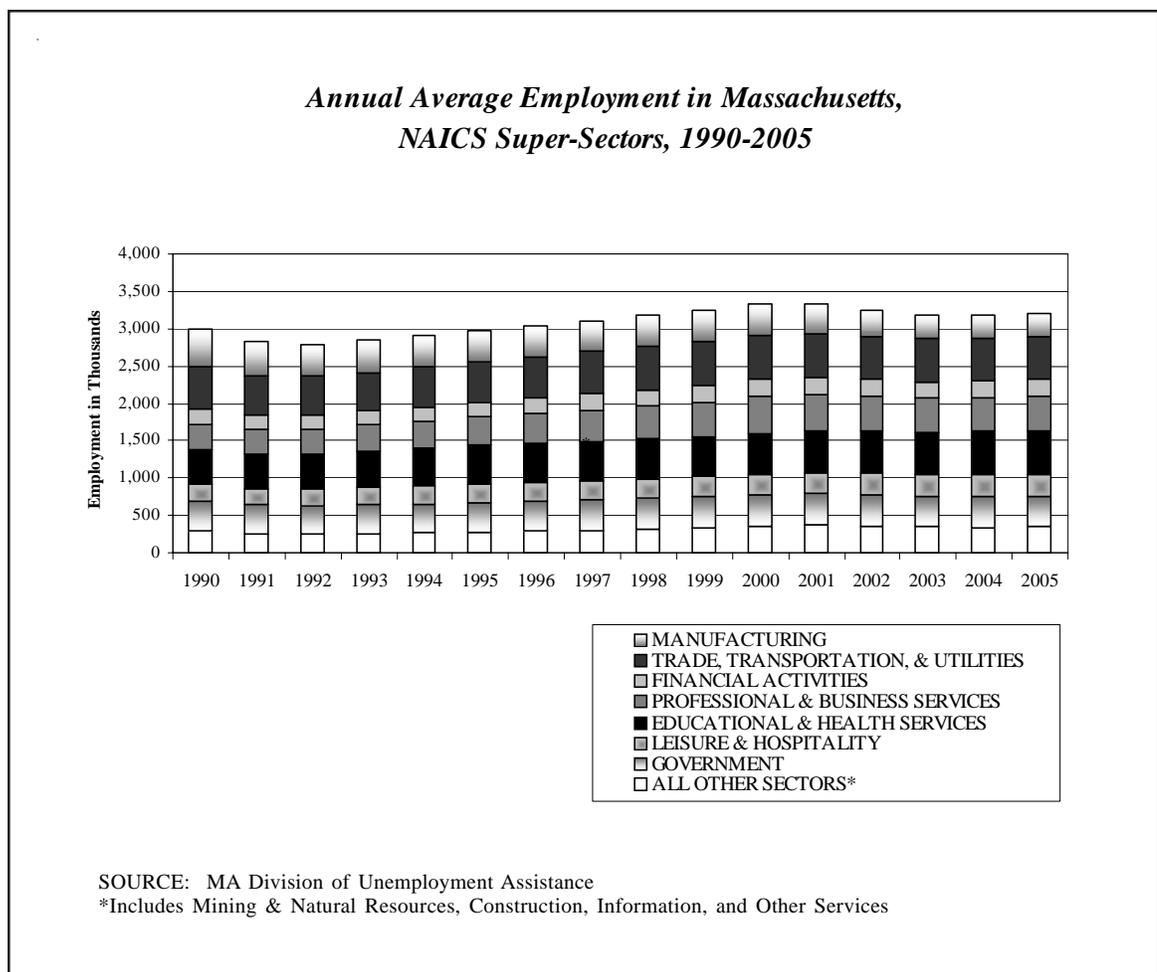
NOTE: The category "other" includes veterans' benefit payments, federal education and training assistance payments, and a small residual of miscellaneous other payments to individuals.

## EMPLOYMENT

**Employment by Industry** The chart on this page shows the annual level of non-agricultural payroll employment in Massachusetts on the North American Industry Classification System (NAICS) basis for the seven largest NAICS super-sectors starting with 1990, the earliest year for which NAICS data are available. The chart on the following page compares the super-sector shares for the 2004-2005 period with the corresponding shares for the 1990-1991 period. Like many industrial states, Massachusetts has seen a steady decline of its manufacturing jobs base over the last two decades, not only as a share of total employment, but in absolute numbers of jobs as well. Several NAICS service sectors and the Financial Activities sector have grown to take the place of manufacturing in driving the Massachusetts economy and now account for more than half of total payroll employment, while Government, Information, Trade, Transportation & Utilities have remained level or declined in share.

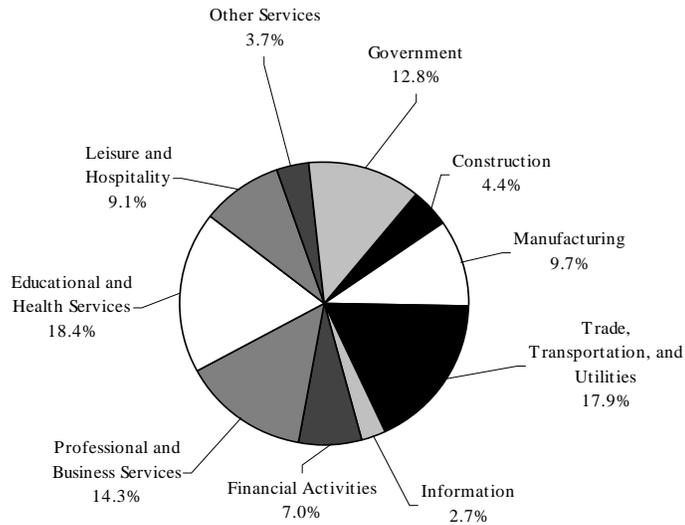
After significant declines in 2002 and 2003, total non-agricultural employment in Massachusetts declined only 0.1 percent in 2004. The 2005 increase of 0.5 percent is equal to the average growth rate over the 16 year period for which NAICS data are available, but still leaves the state with 131.7 thousand fewer jobs than in the peak year of 2001. The average level for the first five months of 2006 is a somewhat healthier 0.9 percent above that of the corresponding five-month period in 2005. The comparable growth rate for the nation over the same period is 1.5 percent.

In 2004, manufacturing employment declined 3.2 percent from the year before; a smaller decline than the steep annual declines in the previous three years and very close to the long-term average rate of decline since 1990 (3.0 percent per year). The estimate for manufacturing for 2005 is only 2.3 percent below the 2004 level, and the five-month average for early 2006 is in fact only 0.8 percent below the comparable 2005 level.

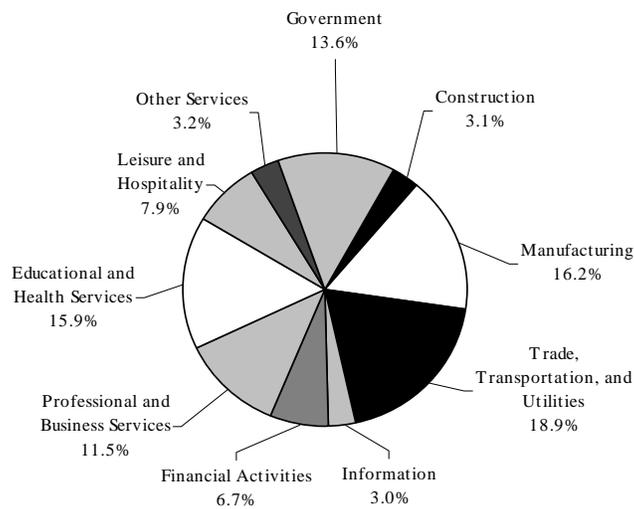


**Massachusetts Non-Farm Payroll Employment  
(NAICS Industry basis)**

**NAICS Super-Sectors: 2004-2005 Average Share**



**NAICS Super-Sectors: 1990-1991 Average Share**



SOURCE: MA Division of Unemployment Assistance.

***Largest Employers in Massachusetts.*** The following table lists the twenty-five largest private employers in Massachusetts based upon UI-covered employment data for June 2005. The list is unchanged from the previous list based on March, 2005 employment.

***Twenty-five Largest Private Employers in Massachusetts in June, 2005***  
*(listed alphabetically)*

---

Baystate Medical Center, Inc.	Home Depot U.S.A., Inc.
Beth Israel Deaconess Medical Center	Massachusetts Institute of Technology
Big Y Foods, Inc.	The May Department Stores Company
Boston Medical Center Corporation	Raytheon Company
Boston University	S & S Credit Company, Inc.
Brigham & Women's Hospital, Inc.	Shaw's Supermarkets, Inc.
The Children's Hospital Corporation	Southcoast Hospitals Group, Inc.
Demoulas Super Markets, Inc.	State Street Bank & Trust Company
E.M.C. Corporation	UMass Memorial Medical Center, Inc.
Fleet National Bank	United Parcel Service, Inc.
Friendly Ice Cream Corporation	Verizon New England, Inc.
General Hospital Corporation	Wal-Mart Associates, Inc.
Harvard University	

SOURCE: MA Division of Unemployment Assistance.

**Unemployment.** The economic recession of the early 1990s caused unemployment rates in Massachusetts to rise significantly above the national average, as much as 2.1 points above in 1991. However, from 1994 until the beginning of 2006 the unemployment rate in Massachusetts has been consistently below the national average. Since January the state rate has been above the national rate. The following table compares the annual civilian labor force, the number unemployed, and the unemployment rates of Massachusetts, the New England states, and the United States from 1970 to 2005 and also includes preliminary data for the first five months of 2006.

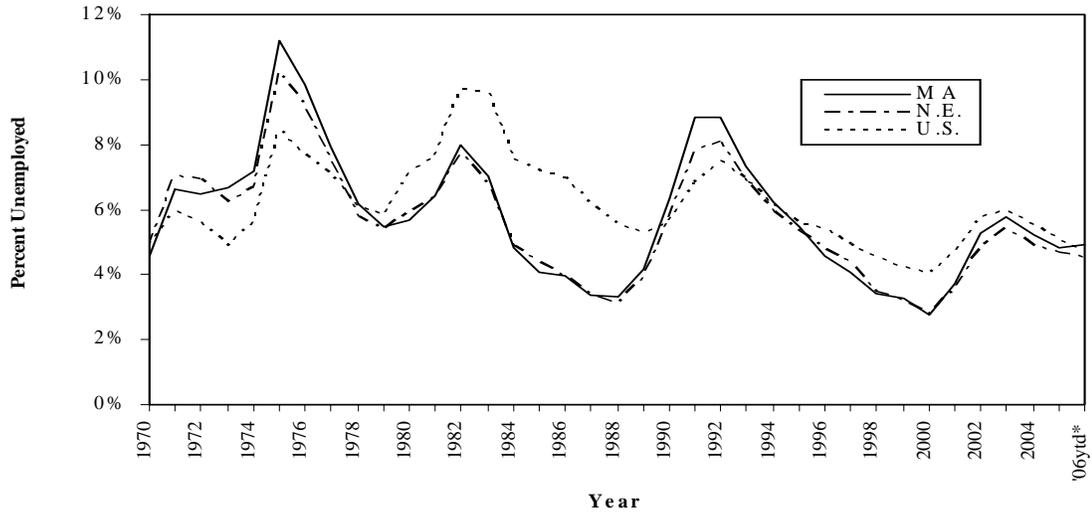
***Annual Average Civilian Labor Force and Unemployment, 1970 - 2005***

*(in thousands)*

Year	Civilian Labor Force			Unemployed			Unemployment Rate			MA Rate as
	MA	N.E.	U.S.	MA	N.E.	U.S.	MA	N.E.	U.S.	Pct. of U.S.
1970	2,465	5,128	82,771	113	253	4,093	4.6%	4.9%	4.9%	92.9%
1971	2,459	5,157	84,383	163	364	5,016	6.6%	7.1%	5.9%	111.8%
1972	2,487	5,260	87,035	161	363	4,882	6.5%	6.9%	5.6%	115.4%
1973	2,557	5,387	89,430	171	336	4,365	6.7%	6.2%	4.9%	136.7%
1974	2,637	5,514	91,951	190	368	5,156	7.2%	6.7%	5.6%	128.4%
1975	2,725	5,633	93,775	305	578	7,928	11.2%	10.3%	8.5%	132.2%
1976	2,726	5,714	96,158	268	521	7,406	9.8%	9.1%	7.7%	127.5%
1977	2,760	5,820	99,009	218	437	6,991	7.9%	7.5%	7.1%	112.1%
1978	2,809	5,936	102,251	173	343	6,202	6.2%	5.8%	6.1%	101.8%
1979	2,863	6,080	104,962	156	326	6,137	5.5%	5.4%	5.8%	93.4%
1980	2,886	6,154	106,940	164	365	7,637	5.7%	5.9%	7.1%	79.6%
1981	2,938	6,268	108,670	189	400	8,273	6.4%	6.4%	7.6%	84.6%
1982	2,966	6,345	110,204	236	489	10,678	8.0%	7.7%	9.7%	82.3%
1983	2,972	6,386	111,550	209	434	10,717	7.0%	6.8%	9.6%	73.2%
1984	3,032	6,540	113,544	146	318	8,539	4.8%	4.9%	7.5%	63.9%
1985	3,049	6,630	115,461	125	290	8,312	4.1%	4.4%	7.2%	56.8%
1986	3,080	6,724	117,834	123	264	8,237	4.0%	3.9%	7.0%	57.0%
1987	3,114	6,827	119,865	104	228	7,425	3.4%	3.3%	6.2%	54.1%
1988	3,156	6,907	121,669	104	215	6,701	3.3%	3.1%	5.5%	60.0%
1989	3,189	7,004	123,869	132	274	6,528	4.2%	3.9%	5.3%	78.9%
1990	3,226	7,128	125,840	204	409	7,047	6.3%	5.7%	5.6%	112.9%
1991	3,199	7,112	126,346	283	558	8,628	8.8%	7.8%	6.8%	129.4%
1992	3,181	7,105	128,105	281	573	9,613	8.8%	8.1%	7.5%	117.7%
1993	3,173	7,062	129,200	232	486	8,940	7.3%	6.9%	6.9%	105.8%
1994	3,188	7,041	131,056	199	415	7,996	6.2%	5.9%	6.1%	102.1%
1995	3,205	7,053	132,304	176	375	7,404	5.5%	5.3%	5.6%	97.9%
1996	3,231	7,118	133,943	148	340	7,236	4.6%	4.8%	5.4%	84.6%
1997	3,293	7,228	136,297	135	315	6,739	4.1%	4.4%	4.9%	82.6%
1998	3,322	7,257	137,673	113	253	6,210	3.4%	3.5%	4.5%	75.2%
1999	3,355	7,327	139,368	110	234	5,880	3.3%	3.2%	4.2%	77.4%
2000	3,366	7,348	142,583	92	204	5,692	2.7%	2.8%	4.0%	68.7%
2001	3,401	7,424	143,734	126	266	6,801	3.7%	3.6%	4.7%	78.3%
2002	3,424	7,510	144,863	181	364	8,378	5.3%	4.8%	5.8%	91.4%
2003	3,406	7,546	146,510	197	409	8,774	5.8%	5.4%	6.0%	96.7%
2004	3,375	7,517	147,401	176	368	8,149	5.2%	4.9%	5.5%	94.3%
2005	3,365	7,551	149,320	162	353	7,591	4.8%	4.7%	5.1%	94.4%
'06ytd*	3,355	7,577	150,507	164	343	7,076	4.9%	4.5%	4.7%	104.2%

SOURCE: United States Department of Labor, Bureau of Labor Statistics. \*Estimates for the first five months of 2006 calculated from Seasonally Adjusted monthly data.

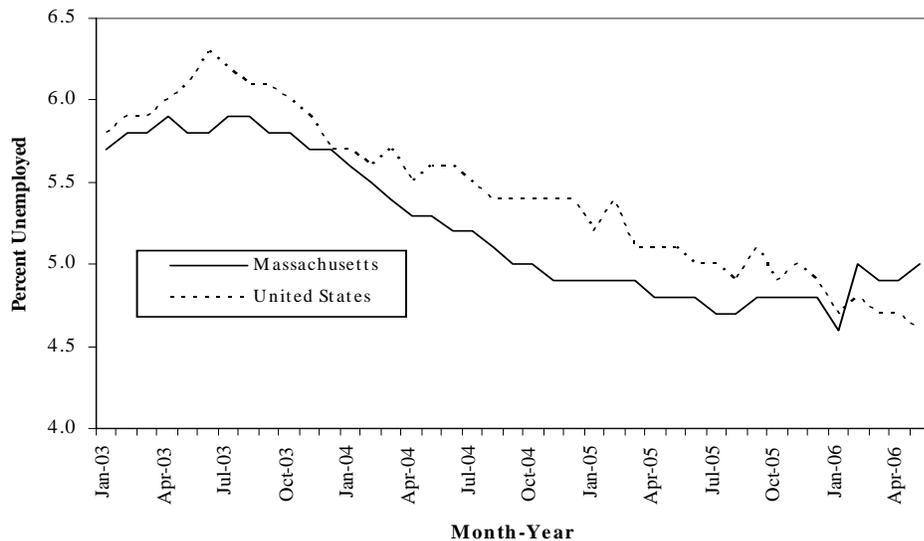
**Annual Average Unemployment Rate, 1970 -2005,  
Massachusetts, New England, and United States**



SOURCE: United States Department of Labor, Bureau of Labor Statistics. \*Estimates for the first five months of 2006 calculated from Seasonally Adjusted monthly data.

The unemployment rate in Massachusetts was consistently below the national average from early in the recovery from the recession of the early 1990's, with the exception of December, 2003, when the two rates were equal. Unemployment levels in the United States as a whole and in Massachusetts have generally shown similar patterns since peaking in mid-2003, falling slowly but fairly steadily through January, 2006. The unemployment rate in Massachusetts dropped from 4.9 to 4.6 percent between January, 2005 and January, 2006, while the national rate dropped from 5.2 to 4.7 percent. Both rates worsened in February, 2006, and the Massachusetts rate has now been higher than the U.S. rate for four consecutive months. The following graph illustrates the movement of the state and national unemployment rates over the past forty-one months.

**Monthly Unemployment Rate, January 2003-May 2006  
Massachusetts and United States  
(seasonally adjusted)**



SOURCE: MA Division of Employment Assistance.

**Help Wanted Advertising Index.** This index is an additional measure of the employment conditions in various regions across the country and for the nation as a whole. Compiled by The Conference Board, Inc., the index is based on the volume of help wanted advertising in 51 major newspapers across the country whose circulation covers about half of the country's nonagricultural employment. The index is compiled for each of the 51 markets, then weighted into regional averages which are then weighted into the national index. The index is intended to be a proxy measure for labor demand. According to the Conference Board, Inc., rising trends in want-ad volume have generally corresponded to improved labor market conditions and declining volume has indicated a decline in new employment.

**Help Wanted Advertising Index, 1989-2005\***

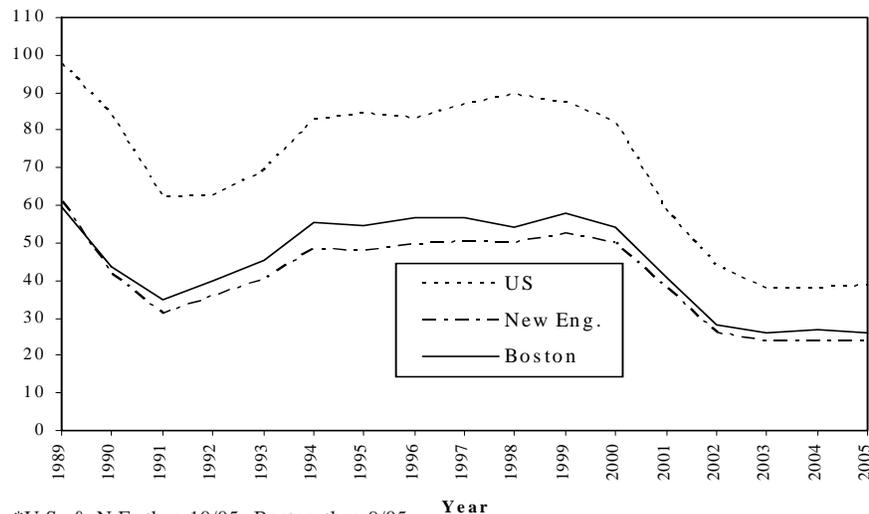
(seasonally adjusted 1987=100)

	US	% Change	New Eng.	% Change	Boston	% Change
1989	98.0		60.8		59.5	
1990	83.8	-14.5%	41.5	-31.8%	43.5	-26.9%
1991	62.0	-26.0%	31.0	-25.3%	34.7	-20.3%
1992	62.5	0.8%	35.8	15.3%	39.9	15.1%
1993	69.4	11.1%	40.3	12.6%	45.4	13.8%
1994	82.9	19.4%	48.1	19.5%	55.4	22.0%
1995	84.3	1.6%	47.8	-0.7%	54.5	-1.7%
1996	83.2	-1.3%	49.8	4.2%	56.8	4.3%
1997	87.0	4.6%	50.6	1.7%	56.7	-0.3%
1998	89.4	2.8%	50.0	-1.2%	54.0	-4.7%
1999	87.3	-2.4%	52.4	4.8%	57.8	7.1%
2000	82.4	-5.5%	50.0	-4.6%	54.1	-6.5%
2001	58.3	-29.3%	37.7	-24.7%	40.9	-24.3%
2002	43.8	-24.9%	25.9	-31.2%	28.0	-31.6%
2003	37.8	-13.5%	23.8	-8.4%	25.8	-7.7%
2004	37.8	0.0%	23.9	0.7%	26.8	3.9%
2005*	38.8	2.6%	23.8	-0.7%	25.8	-3.7%

\*U.S. & N.E. thru 10/05; Boston thru 9/05  
SOURCE: The Conference Board, Inc.

**Help Wanted Advertising Index, 1989-2005\***

(seasonally adjusted 1987=100)



\*U.S. & N.E. thru 10/05; Boston thru 9/05  
SOURCE: The Conference Board, Inc.

**Unemployment Insurance Trust Fund.** The unemployment insurance system is a federal-state cooperative program established by the Social Security Act and the Federal Unemployment Tax Act to provide for the payment of benefits to eligible individuals when they become unemployed through no fault of their own. Benefits are paid from the Commonwealth's Unemployment Insurance Trust Fund, financed through employer contributions. The assets and liabilities of the Commonwealth Unemployment Insurance Trust Fund are not assets and liabilities of the Commonwealth. As of May 31, 2006, the Massachusetts Unemployment Trust Fund had a balance of \$981million, of which the private contributory account portion was \$876 million. The Division of Unemployment Assistance's June 2006 Unemployment Insurance Trust Fund report indicates that under the current economic outlook the refinancing measures included in Chapter 142 of the Massachusetts Acts of 2003 (effective January 1, 2004), provide for employer contributions that should result in private contributory account reserves of \$2.034 billion at the end of 2010.

## ECONOMIC BASE AND PERFORMANCE

According to the Bureau of Economic Analysis, Gross State Product (GSP) is the value added in production by the labor and property located in a state. GSP for a State is derived as the sum of the gross state product originating in all industries in a State. In concept, an industry's GSP, referred to as its "value added", is equivalent to its gross output (sales or receipts and other operating income, commodity taxes, and inventory change) minus its intermediate inputs (consumption of goods and services purchased from other U.S. industries or imported). Thus, GSP is often considered the state counterpart of the nation's gross domestic product (GDP), Bureau of Economic Analysis's featured measure of U.S. output.

Real GSP is an inflation-adjusted measure of each state's gross product that is based on national prices for the goods and services produced within that state. The estimates of real GSP and of quantity indexes with a base year of 2000 are derived by applying national implicit price deflators to the current-dollar GSP estimates for the 63 SIC industries for years 1977-1997, and for the 81 NAICS industries for years 1997 forward. Then, the chain-type index formula that is used in the national accounts is used to calculate the estimates of total real GSP and of real GSP at more aggregated industry levels.

Between 1997 and 2005, gross state product in Massachusetts, New England and the sum of all states GSP grew approximately 48.1, 46.8 and 50.6 percent respectively in current dollars. Between 1997 and 2005, gross state product in Massachusetts, New England and the sum of all states GSP grew approximately 28.6, 25.1 and 25.1 percent respectively in chained 2000 dollars. The Massachusetts economy is the largest in New England, contributing 47.6 percent to New England's total GSP, and thirteenth largest in the U.S., contributing 2.6 percent to the nation's total GSP.

### **Gross State Product - Cumulative Change, 1997-2005**

(millions of chained 2000 dollars)

Year	Massachusetts		New England		United States	
	GSP	Change from 1997	GSP	Change from 1997	GSP	Change from 1997
1997	\$227,074		\$487,671		\$8,620,955	
1998	\$240,617	6.0%	\$511,374	4.9%	\$9,004,670	4.5%
1999	\$255,189	12.0%	\$531,902	8.9%	\$9,404,251	8.9%
2000	\$274,949	19.8%	\$565,835	15.3%	\$9,749,103	12.6%
2001	\$276,634	20.4%	\$570,313	16.0%	\$9,836,576	13.5%
2002	\$274,997	19.8%	\$568,750	15.8%	\$9,981,850	14.9%
2003	\$282,375	22.5%	\$581,648	18.0%	\$10,237,201	17.5%
2004	\$292,423	26.0%	\$605,270	22.1%	\$10,662,196	21.6%
2005	\$299,992	28.6%	\$623,129	25.1%	\$11,035,627	25.1%

Source: Bureau of Economic Analysis, U.S. Department of Commerce. Last revised: June 2006.

The table below indicates the Gross State Product for Massachusetts, the New England states, and the United States. The United States figure is the sum of the fifty states.

**Gross State Product - Annual Change, 1997-2005**

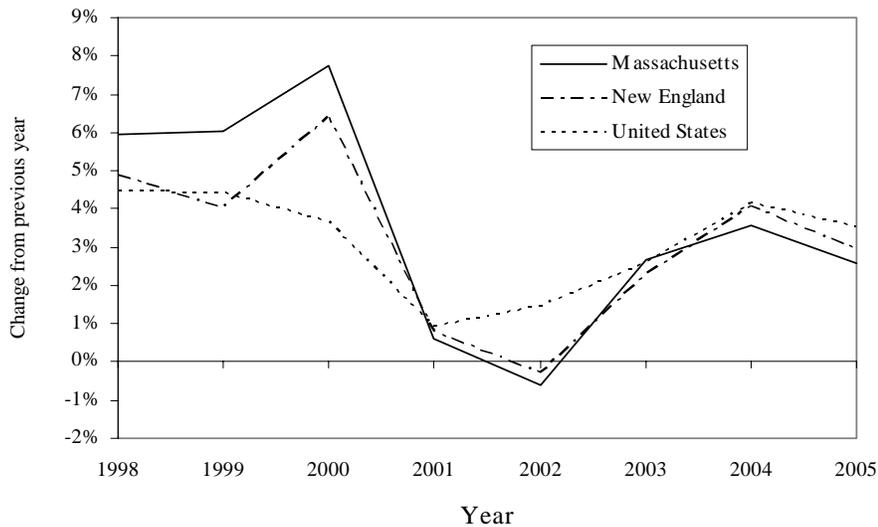
(millions of chained 2000 dollars)

Year	Massachusetts		New England		United States	
	GSP	Annual change	GSP	Annual change	GSP	Annual change
1997	\$227,074		\$487,671		\$8,620,955	
1998	\$240,617	6.0%	\$511,374	4.9%	\$9,004,670	4.5%
1999	\$255,189	6.1%	\$531,902	4.0%	\$9,404,251	4.4%
2000	\$274,949	7.7%	\$565,835	6.4%	\$9,749,103	3.7%
2001	\$276,634	0.6%	\$570,313	0.8%	\$9,836,576	0.9%
2002	\$274,997	-0.6%	\$568,750	-0.3%	\$9,981,850	1.5%
2003	\$282,375	2.7%	\$581,648	2.3%	\$10,237,201	2.6%
2004	\$292,423	3.6%	\$605,270	4.1%	\$10,662,196	4.2%
2005	\$299,992	2.6%	\$623,129	3.0%	\$11,035,627	3.5%

U.S. Department of Commerce, Bureau of Economic Analysis. Revised June 2006

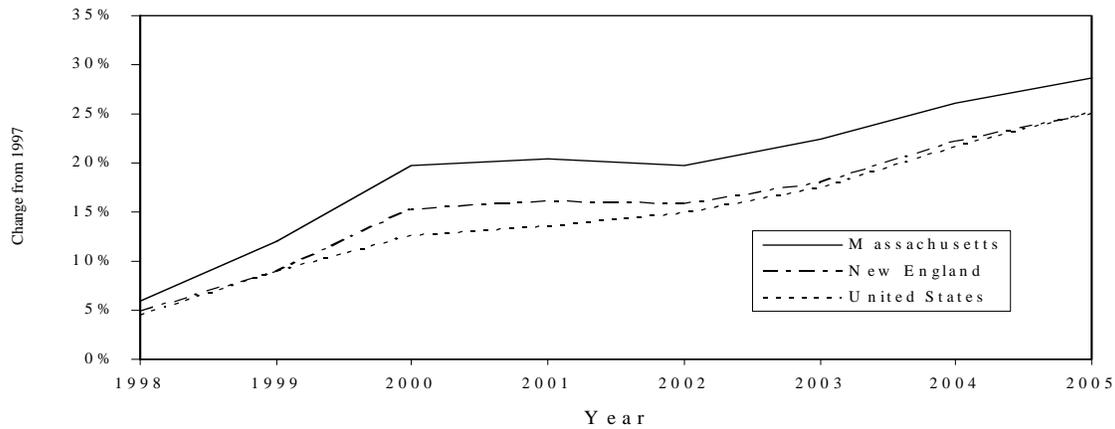
**Annual Percent Change in Gross State Product, 1997-2005**

(chained 2000 dollars)



U.S. Department of Commerce, Bureau of Economic Analysis. Revised June 2006

**Cumulative Percent Change in Gross State Product, 1997-2005**  
(chained 2000 dollars)



SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis. Revised June 2006

The commercial base of Massachusetts is anchored by the twenty-four 2005 Fortune 1000 companies (eleven of which are Fortune 500) headquartered in Massachusetts. Exiting the Massachusetts 2004 Fortune 500 list after being purchased by companies headquartered outside Massachusetts were FleetBoston (140<sup>th</sup>) and John Hancock Financial Services (192<sup>nd</sup>). The 2006 Fortune 500 list for Massachusetts will not include Gillette as it was purchased by Ohio based Procter and Gamble (26<sup>th</sup>) in January 2005. Allmerica Financial lost its Fortune 500 ranking, joining the Fortune 1000 (550<sup>th</sup>). When comparing the 2005 Fortune 500 to 2004's, five Massachusetts companies gained and seven lost rank. Perini, the Framingham based construction services firm and Fortune 1000 member, climbed 111 places on the list (from 910<sup>th</sup> to 799<sup>th</sup>); the largest leap for a Massachusetts company.

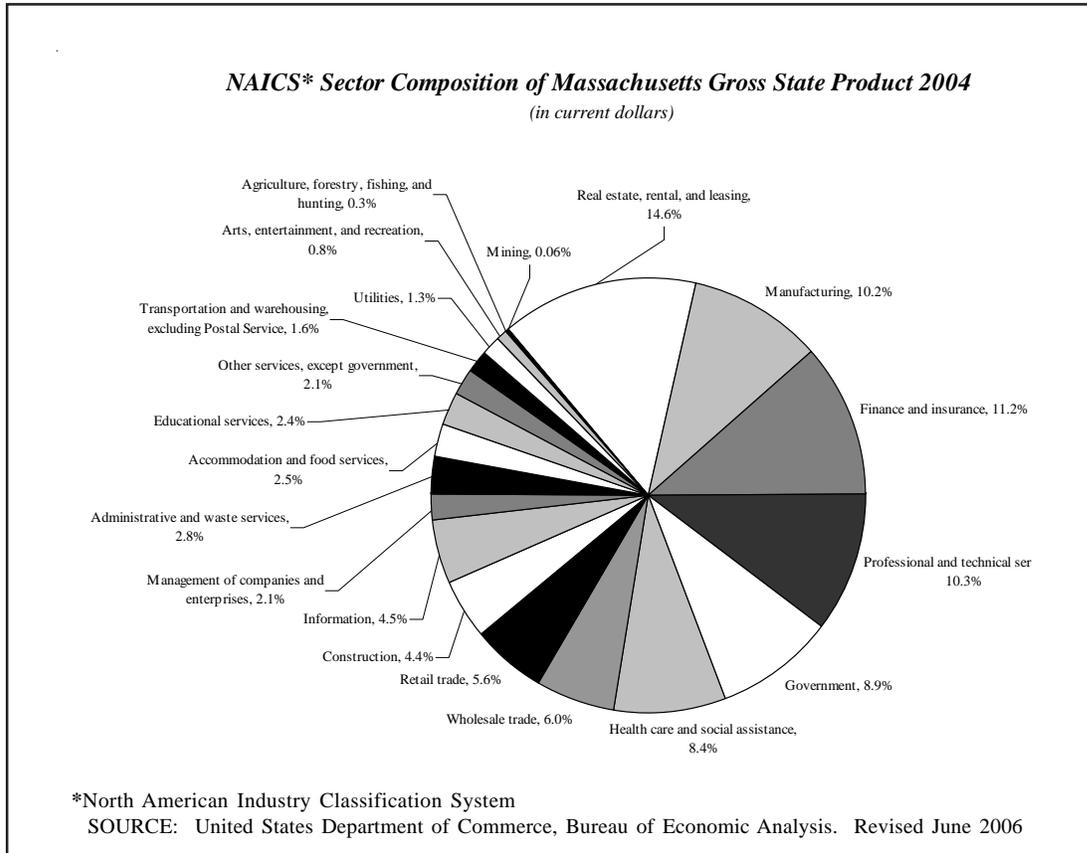
**Massachusetts Companies in the 2006 Fortune 500 and 1000 Lists**

Rank		Company	Industry	2005 revenues (millions)
2006	2005			
92	83	Mass. Mutual Life Ins. (Springfield)	Insurance: Life, Health (mutual)	\$22,799
97	103	Raytheon (Waltham)	Aerospace and Defense	\$21,894
102	111	Liberty Mutual Ins. Group (Boston)	Insurance: P & C (stock)	\$21,161
137	146	Staples (Framingham)	Specialty Retailers	\$16,079
138	141	TJX (Framingham)	Specialty Retailers	\$16,058
249	266	EMC (Hopkinton)	Computer Peripherals	\$9,664
288	284	BJ's Wholesale Club (Natick)	Specialty Retailers	\$7,950
307	341	State St. Corp. (Boston)	Commercial Banks	\$7,496
346	352	Boston Scientific (Natick)	Medical Products & Equipment	\$6,283
574	575	NSTAR (Boston)	Utilities: Gas & Electric	\$3,243
622	N/A	Hanover Insurance Group (Worcester)	Insurance: P & C (stock)	\$2,968
643	713	Genzyme (Cambridge)	Pharmaceuticals	\$2,735
658	680	Thermo Electron (Waltham)	Scientific, Photo, Control Equipment	\$2,633
706	708	Biogen Idec (Cambridge)	Pharmaceuticals	\$2,423
712	623	Analog Devices (Norwood)	Semiconductors and Other Electronic Components	\$2,389
772	775	Cabot (Boston)	Chemicals	\$2,125
783	811	Iron Mountain (Boston)	Diversified Outsourcing	\$2,078
837	817	Commerce Group (Webster)	Insurance: P & C (stock)	\$1,884
884	799	Perini (Framingham)	Engineering, Construction	\$1,734
897	855	PerkinElmer (Wellesley)	Scientific, Photo, Control Equipment	\$1,698
990	962	Boston Properties (Boston)	Real Estate	\$1,447

SOURCE: *Fortune*, April 2006

## ECONOMIC BASE AND PERFORMANCE - SECTOR DETAIL (NAICS BASIS)

The Massachusetts economy remains diversified among several industrial and non-industrial sectors. The four largest sectors of the economy (manufacturing, real estate and rental and leasing, finance and insurance, and professional and technical services, on the 2002 NAICS basis) contributed 48.8 percent of the GSP in 2004. The data below show the contributions to the Massachusetts Real Gross State Product of all industrial and non-industrial sectors.



When measured in chained 2000 dollars, the cumulative change in Massachusetts total GSP was 28.0 percent between 1997 and 2004. Between 1997 and 2003 (the latest data available for subsector data), several industries grew much faster than the state average; computer and electronic product manufacturing, securities/commodity contracts/investments, and forestry/fishing/related activities. Substantial cumulative losses were in the paper manufacturing, machinery manufacturing, and funds/trusts/other financial vehicles sectors. Industry subsectors that experienced substantial cumulative growth or reduction and accounted for one percent or more of Massachusetts GSP are listed in the following chart:

**Industry Subsectors with a Substantial Growth or Reduction**  
(chained 2000 dollars)

NAICS* Industry Subsector	Cumulative percent change 1997-2004
Computer and electronic product manufacturing	352.9%
Securities, commodity contracts, investments	220.8%
Forestry, fishing, and related activities	175.0%
Motor vehicle, body, trailer, and parts manufacturing	123.8%
Mining, except oil and gas	111.9%
Textile and textile product mills	-30.6%
Paper manufacturing	-36.8%
Apparel manufacturing	-48.5%

\*North American Industry Classification System.  
SOURCE: United States Department of Commerce, Bureau of Economic Analysis. Revised June 2006

**Gross State Product by Industry in Massachusetts, 1997-2004**  
(millions of chained 2000 dollars)

<b>NAICS* Industry Sector</b>	<b>1997</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Total Gross State Product	\$227,074	\$255,189	\$274,949	\$276,634	\$274,997	\$282,375	\$292,423
Private industries	204,714	231,945	251,645	253,140	251,272	258,809	268,860
Agriculture, forestry, fishing, and hunting	442	469	540	587	668	709	747
Mining	67	109	124	141	139	152	148
Utilities	3,319	3,218	3,453	3,162	3,137	3,539	3,576
Construction	10,193	10,995	11,159	11,850	11,412	10,717	10,750
Manufacturing	24,737	30,126	37,204	35,011	35,376	38,282	37,405
Wholesale trade	14,359	17,749	16,173	17,819	17,214	17,783	18,320
Retail trade	12,130	13,650	14,519	15,713	15,997	16,545	17,578
Transportation and warehousing, excluding Postal Service	4,352	4,766	5,172	5,063	4,915	4,928	4,967
Information	9,764	12,083	13,017	13,710	13,676	13,455	14,921
Finance and insurance	21,589	26,693	29,915	29,890	29,781	31,898	32,842
Real estate, rental, and leasing	32,268	34,129	35,587	37,683	37,379	38,170	40,772
Professional and technical services	20,551	24,648	28,560	28,572	27,397	27,663	30,388
Management of companies and enterprises	6,985	6,870	7,506	6,152	5,673	5,724	5,933
Administrative and waste services	7,646	8,252	8,382	7,400	7,042	7,307	7,618
Educational services	5,575	5,591	5,915	5,851	5,978	5,927	5,930
Health care and social assistance	19,716	19,496	20,363	20,484	21,179	21,905	22,429
Arts, entertainment, and recreation	1,796	1,906	1,911	2,023	2,152	2,222	2,264
Accommodation and food services	5,555	6,251	6,594	6,510	6,556	6,713	6,881
Other services, except government	4,943	5,307	5,549	5,477	5,570	5,538	5,544
Government	22,491	23,272	23,304	23,493	23,710	23,602	23,676

\* North American Industry Classification System

SOURCE: United States Department of Commerce, Bureau of Economic Analysis. Revised June 2006

**Cumulative Percent Change in GSP by Industry in Massachusetts, 1997-2004**  
(millions of chained 2000 dollars)

<b>NAICS* Industry Sector</b>	<b>1997-98</b>	<b>1999-00</b>	<b>2000-01</b>	<b>2001-02</b>	<b>2002-03</b>	<b>2003-04</b>
Total Gross State Product	6.0%	19.8%	20.4%	19.8%	22.5%	26.0%
Private industries	6.5%	21.4%	22.0%	21.2%	24.2%	28.1%
Agriculture, forestry, fishing, and hunting	-12.9%	24.1%	32.8%	46.6%	52.7%	58.1%
Mining	31.3%	69.0%	82.7%	81.3%	90.6%	88.0%
Utilities	0.8%	4.3%	-4.1%	-4.9%	7.9%	8.9%
Construction	4.4%	9.2%	15.4%	11.7%	5.6%	5.9%
Manufacturing	12.8%	44.3%	38.4%	39.4%	47.6%	45.3%
Wholesale trade	12.7%	13.5%	23.7%	20.3%	23.6%	26.6%
Retail trade	5.3%	18.5%	26.8%	28.6%	32.0%	38.2%
Transportation and warehousing, excluding Postal Service	4.7%	17.8%	15.7%	12.8%	13.0%	13.8%
Information	6.2%	30.5%	35.8%	35.5%	33.9%	44.8%
Finance and insurance	11.1%	34.5%	34.4%	34.0%	41.1%	44.1%
Real estate, rental, and leasing	1.7%	10.0%	15.9%	15.1%	17.2%	24.0%
Professional and technical services	9.6%	34.9%	34.9%	30.8%	31.8%	41.7%
Management of companies and enterprises	-2.8%	7.6%	-10.4%	-18.2%	-17.3%	-13.6%
Administrative and waste services	5.5%	9.4%	-2.3%	-7.2%	-3.4%	0.8%
Educational services	0.3%	6.1%	5.0%	7.2%	6.3%	6.4%
Health care and social assistance	-0.7%	3.3%	3.9%	7.3%	10.7%	13.1%
Arts, entertainment, and recreation	2.4%	6.3%	12.2%	18.5%	21.8%	23.7%
Accommodation and food services	8.4%	17.7%	16.4%	17.1%	19.5%	22.0%
Other services, except government	4.9%	11.8%	10.5%	12.2%	11.6%	11.7%
Government	0.8%	3.6%	4.4%	5.3%	4.9%	5.2%

\* North American Industry Classification System

SOURCE: United States Department of Commerce, Bureau of Economic Analysis. Revised June 2006

**Gross State Product by Industry in Massachusetts, 1997-2004**  
(as a percent of total GSP chained 2000 dollars)

<b>NAICS* Industry Sector</b>	<b>1997</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Total Gross State Product	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Private industries	90.2%	90.9%	91.5%	91.5%	91.4%	91.7%	91.9%
Agriculture, forestry, fishing, and hunting	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%
Mining	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
Utilities	1.5%	1.3%	1.3%	1.1%	1.1%	1.3%	1.2%
Construction	4.5%	4.3%	4.1%	4.3%	4.1%	3.8%	3.7%
Manufacturing	10.9%	11.8%	13.5%	12.7%	12.9%	13.6%	12.8%
Wholesale trade	6.3%	7.0%	5.9%	6.4%	6.3%	6.3%	6.3%
Retail trade	5.3%	5.3%	5.3%	5.7%	5.8%	5.9%	6.0%
Transportation and warehousing, excluding Postal Service	1.9%	1.9%	1.9%	1.8%	1.8%	1.7%	1.7%
Information	4.3%	4.7%	4.7%	5.0%	5.0%	4.8%	5.1%
Finance and insurance	9.5%	10.5%	10.9%	10.8%	10.8%	11.3%	11.2%
Real estate, rental, and leasing	14.2%	13.4%	12.9%	13.6%	13.6%	13.5%	13.9%
Professional and technical services	9.1%	9.7%	10.4%	10.3%	10.0%	9.8%	10.4%
Management of companies and enterprises	3.1%	2.7%	2.7%	2.2%	2.1%	2.0%	2.0%
Administrative and waste services	3.4%	3.2%	3.0%	2.7%	2.6%	2.6%	2.6%
Educational services	2.5%	2.2%	2.2%	2.1%	2.2%	2.1%	2.0%
Health care and social assistance	8.7%	7.6%	7.4%	7.4%	7.7%	7.8%	7.7%
Arts, entertainment, and recreation	0.8%	0.7%	0.7%	0.7%	0.8%	0.8%	0.8%
Accommodation and food services	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%
Other services, except government	2.2%	2.1%	2.0%	2.0%	2.0%	2.0%	1.9%
Government	9.9%	9.1%	8.5%	8.5%	8.6%	8.4%	8.1%

\* North American Industry Classification System

SOURCE: United States Department of Commerce, Bureau of Economic Analysis. Revised June 2006

1998 data omitted due to space constraints

**Rank of Industry Contribution to GSP in Massachusetts, 1997-2004**  
(millions of chained 2000 dollars)

<b>NAICS* Industry Sector</b>	<b>1997</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Total Gross State Product							
Private industries							
Agriculture, forestry, fishing, and hunting	19	19	19	19	19	19	19
Mining	20	20	20	20	20	20	20
Utilities	17	17	17	17	17	17	17
Construction	9	10	10	10	10	10	10
Manufacturing	2	2	1	2	2	1	2
Wholesale trade	7	7	7	7	7	7	7
Retail trade	8	8	8	8	8	8	8
Transportation and warehousing, excluding Postal Service	16	16	16	16	16	16	16
Information	10	9	9	9	9	9	9
Finance and insurance	4	3	3	3	3	3	3
Real estate, rental, and leasing	1	1	2	1	1	2	1
Professional and technical services	5	4	4	4	4	4	4
Management of companies and enterprises	12	12	12	13	14	14	13
Administrative and waste services	11	11	11	11	11	11	11
Educational services	13	14	14	14	13	13	14
Health care and social assistance	6	6	6	6	6	6	6
Arts, entertainment, and recreation	18	18	18	18	18	18	18
Accommodation and food services	14	13	13	12	12	12	12
Other services, except government	15	15	15	15	15	15	15
Government	3	5	5	5	5	5	5

\* North American Industry Classification System

SOURCE: United States Department of Commerce, Bureau of Economic Analysis. Revised June 2006

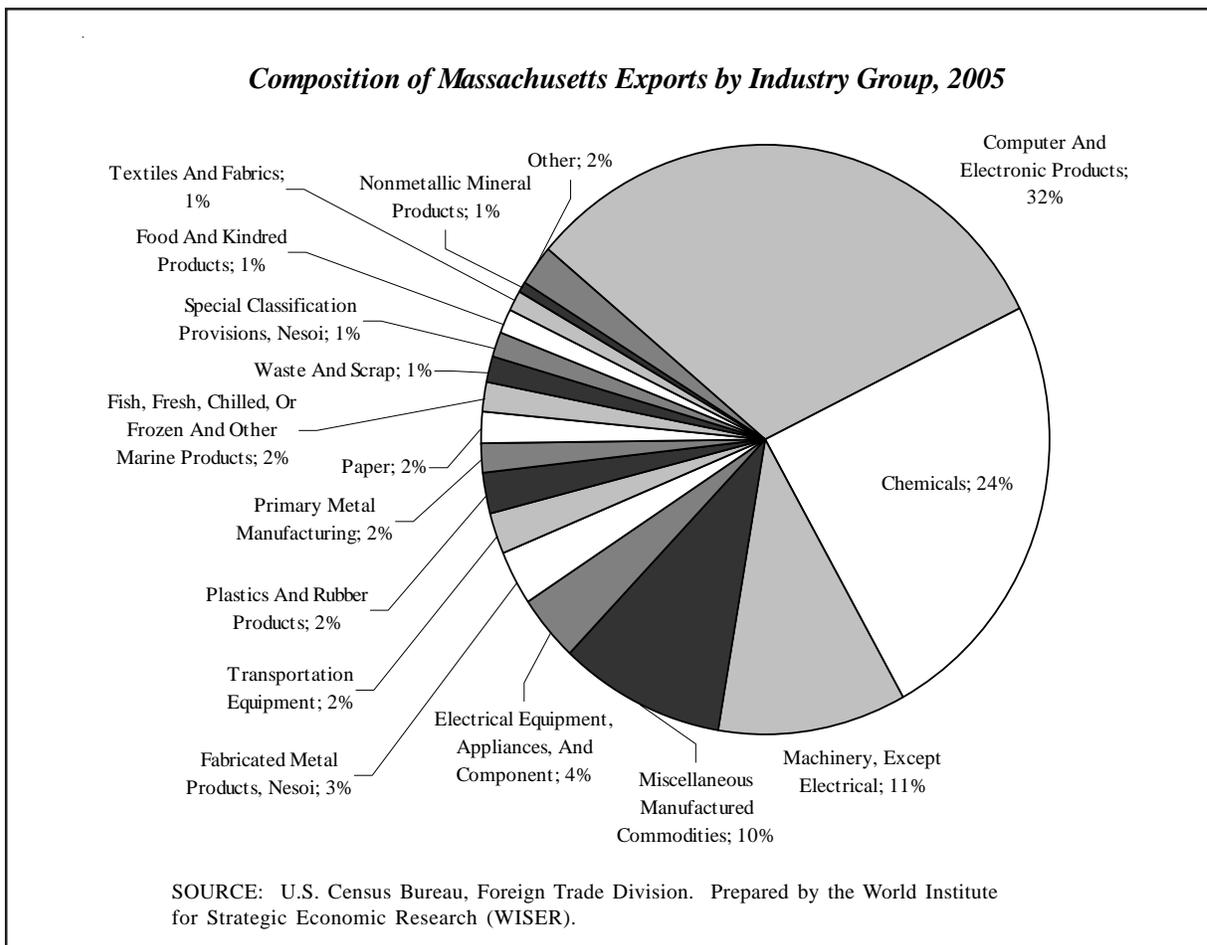
1998 data omitted due to space constraints

Between 1997 and 2004, the portion of the total GSP in chained 2000 dollars, from the private industry sector increased 2.0 percent while it decreased 2.0 percent in the government sector. Contributions by each industry to total GSP have remained steady for most sectors. The exceptions were finance and insurance (+3.1 percent, and manufacturing +2.4 percent). When the 1997 to 2004 industry contributions to total annual GSP are ranked according to their dollar value, the top five have remained constant; real estate, rental and leasing, manufacturing, finance and insurance, professional and technical services, and government.

**Trade and International Trade.** Massachusetts ranked 10th in the United States, and first in New England, with \$22.04 billion in international exports in 2005. This represents a 0.9 percent increase from the previous year's exports from the Commonwealth, while national exports increased by 10.6 percent in the same period. Through May 2006, Massachusetts's exports totaled \$9.54 billion, an increase of 4.1 percent compared with exports in the first five months of 2005. National exports were up 13.4 percent and New England, 9.7 percent during the same period. It is not possible to provide balance of trade comparisons for Massachusetts because import data are not compiled on a state-by-state basis.

Massachusetts' five most important trading partners for 2005 were: the Netherlands, with \$3.00 billion in purchases of Massachusetts exports; Canada, with \$2.93; Germany, with \$2.15 billion; Japan, with \$1.90 billion; and the United Kingdom, with \$1.63 billion in purchases. Between 2004 and 2005, the most significant growth in Massachusetts's exports among its top ten trading partners was in exports to South Korea (23.0 percent) and the Netherlands (19.3 percent).

Massachusetts' most important exports, as shown in the following chart, are computer and electronic products, chemical products, and non-electrical machinery. These categories reflect the adoption of the NAICS classification system, which groups computers with electronic products, rather than with machinery.



### *Value of International Shipments from Massachusetts, 1998-2005*

*(top ten industry groups ranked by value of 2005 exports, in millions)*

<i>Major Industry Group</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>
Computer And Electronic Products	\$7,458	\$8,056	\$10,215	\$8,122	\$7,024	\$7,688	\$7,475	\$7,004
Chemicals	\$1,223	\$1,357	\$1,600	\$1,534	\$2,267	\$3,216	\$4,907	\$5,284
Machinery, Except Electrical	\$1,694	\$1,705	\$2,545	\$2,044	\$1,786	\$1,668	\$2,456	\$2,315
Miscellaneous Manufactured Commodities	\$835	\$925	\$1,053	\$1,213	\$1,210	\$1,571	\$1,927	\$2,111
Electrical Equipment, Appliances, And Component	\$596	\$720	\$834	\$691	\$649	\$592	\$752	\$815
Fabricated Metal Products, Nesoi	\$597	\$601	\$649	\$569	\$692	\$539	\$621	\$664
Transportation Equipment	\$637	\$698	\$659	\$449	\$346	\$383	\$453	\$481
Plastics And Rubber Products	\$357	\$389	\$374	\$400	\$406	\$375	\$404	\$469
Primary Metal Manufacturing	\$335	\$283	\$358	\$272	\$248	\$425	\$423	\$405
Paper	\$334	\$364	\$435	\$386	\$373	\$355	\$366	\$362
Total Exports, Top Massachusetts Industries	\$14,065	\$15,098	\$18,722	\$15,679	\$15,002	\$16,812	\$19,784	\$19,911
Total Massachusetts Exports	\$15,878	\$16,805	\$20,514	\$17,490	\$16,708	\$18,663	\$21,837	\$22,043
Percent Change from Prior Year	-3.9%	5.8%	22.1%	-14.7%	-4.5%	11.7%	17.0%	0.9%

SOURCE: World Institute for Strategic Economic Research (WISER). These figures reflect the changeover in export statistics reporting to the NAICS system from the SIC system. Categories and state totals are not comparable between systems. Pre-1997 data is not available.

**Transportation and Warehousing, and Utilities.** Between 1997 and 2004, the combined real gross state product of the transportation and warehousing and utilities sector increased 9.4 percent when measured with year 2000 chained dollars. These combined sectors contributed 2.8 percent to the total Massachusetts Real Gross State Product in 2004, a 0.6 percent less than it did in 1997.

Massachusetts's major air and seaports are managed by the Massachusetts Port Authority (Massport), an independent public authority. Massport reported fiscal 2005 operating income of \$39.9 million (up 18.5 percent from fiscal 2004), with operating revenues up 11.0 percent (\$460.6 million in 2005 versus \$415.0 million in 2004) and operating costs up 10 percent (\$420.6 million in 2005 versus \$381.3 million in 2004).

According to Massport, as of June 30, 2005, airline service at Logan, both scheduled and unscheduled, was provided by 78 airlines, including 6 U.S. major air carrier airlines, 33 other domestic carriers, 19 non-U.S. flag carriers, and 20 regional and commuter airlines. As of April, year-to-date 2006, Logan flights and passenger counts were down 1.9 and up 4.2 percent respectively while cargo and mail volume was down 3.6 percent from April, year-to-date 2006. Based on total passenger volume in calendar year 2005 data, Logan Airport was the most active airport in New England but dropped from 18th to 20th most active in the U.S. according to Airports Council International (ACI).

According to ACI, in calendar year 2004, Logan Airport ranked 18th in the nation in total air cargo volume. In 2005, the airport handled 741.5 million pounds of cargo, a 2.3 percent decrease from 2004. As of June 30, 2004, Logan was served by 8 all-cargo and small package/express carriers.

At Massport's Port of Boston properties, 2005 cargo throughput was 16.4 million metric tons (an 18 percent increase from 2004), automobile processing remained nearly unchanged at 10,956 units, and cruise passenger trips increased seventeen percent to 233,702. From July 2005 to June 2006, total containerized cargo increased 6.4 percent, there were 27.7 percent more cruise passengers and 9.7 percent more automobiles processed, when compared to July 2004 to June 2005. Massachusetts total waterborne cargo shipped or received in 2003 (from the Army Corps of Engineers data), increased 17.4 percent (30,655,000 short tons), as did New England and the U.S. (11.6 and 2.3 percent, respectively).

**Construction and Housing.** In 2004, construction activity contributed 4.3 percent to the total Massachusetts Gross State Product when measured in 2000 chained dollars. The construction sector contributed 4.5 percent to state GSP in 1997. Overall growth between 1997 and 2004 was 24.6 percent.

The following table shows the number of housing permits authorized on an annual basis in Massachusetts, New England, and the United States.

<i>Year</i>	<i>Massachusetts</i>		<i>New England</i>		<i>United States</i>	
	<i>Total Permits</i>	<i>Percent Change</i>	<i>Total Permits</i>	<i>Percent Change</i>	<i>Total Permits</i>	<i>Percent Change</i>
<b>1969</b>	33,572		70,539		1,330,161	
<b>1970</b>	38,330	14.2%	74,068	5.0%	1,354,746	1.8%
<b>1975</b>	17,697	-27.5%	41,645	-21.0%	934,511	-12.4%
<b>1980</b>	16,055	-20.4%	40,195	-25.1%	1,171,763	-23.6%
<b>1981</b>	15,599	-2.8%	38,067	-5.3%	985,600	-15.9%
<b>1982</b>	15,958	2.3%	39,470	3.7%	1,000,500	1.5%
<b>1983</b>	22,950	43.8%	57,567	45.9%	1,605,221	60.4%
<b>1984</b>	28,471	24.1%	72,356	25.7%	1,689,667	5.3%
<b>1985</b>	39,360	38.2%	96,832	33.8%	1,732,335	2.5%
<b>1986</b>	43,877	11.5%	108,272	11.8%	1,771,832	2.3%
<b>1987</b>	40,018	-8.8%	101,222	-6.5%	1,542,499	-12.9%
<b>1988</b>	31,766	-20.6%	82,123	-18.9%	1,450,583	-6.0%
<b>1989</b>	21,634	-31.9%	53,543	-34.8%	1,345,084	-7.3%
<b>1990</b>	15,276	-29.4%	36,811	-31.2%	1,125,583	-16.3%
<b>1991</b>	12,624	-17.4%	31,111	-15.5%	953,834	-15.3%
<b>1992</b>	16,346	29.5%	36,876	18.5%	1,105,083	15.9%
<b>1993</b>	17,715	8.4%	39,225	6.4%	1,210,000	9.5%
<b>1994</b>	18,302	3.3%	40,459	3.1%	1,366,916	13.0%
<b>1995</b>	15,946	-12.9%	37,357	-7.7%	1,335,835	-2.3%
<b>1996</b>	17,360	8.9%	40,425	8.2%	1,419,083	6.2%
<b>1997</b>	17,554	1.1%	42,047	4.0%	1,442,251	1.6%
<b>1998</b>	18,958	8.0%	47,342	12.6%	1,619,500	12.3%
<b>1999</b>	18,977	0.1%	47,379	0.1%	1,663,916	2.7%
<b>2000</b>	17,342	-8.6%	43,735	-7.7%	1,598,332	-3.9%
<b>2001</b>	16,654	-4.0%	42,786	-2.2%	1,636,700	2.4%
<b>2002</b>	17,122	2.8%	47,173	10.3%	1,747,600	6.8%
<b>2003</b>	18,574	8.5%	48,845	3.5%	1,889,400	8.1%
<b>2004</b>	21,206	14.2%	56,268	15.2%	2,006,600	6.2%
<b>2005</b>	23,254	9.7%	57,076	1.4%	2,155,200	7.4%

SOURCES: Federal Reserve Bank of Boston; United States Department of Commerce.

Both the economic recession of 1990-1991 and the subsequent economic recovery were strongly reflected in the Massachusetts housing sector, but the recession that began in 2001 has had a less pronounced impact on home sales. Significant declines in existing home sales in Massachusetts in 1989 and 1990 (of 10.9 percent and 28.8 percent, respectively) were followed by rapid sales growth between 1991 and 1993, when home sales in Massachusetts increased at a yearly rate substantially higher than the national average. Following this period of rapid growth, the growth in existing home sales slowed to a rate of 0.7 percent in 1994 and declined 2.6 percent in 1995. In 1996, 1997, and 1998, however, growth in existing home sales in Massachusetts was significant, outpacing the New England and national average in 1996 and 1997 with rates of 16.6 percent and 11.0 percent, respectively. This strong growth ended in 1999 when existing home sales in the Commonwealth declined 1.3 percent while growth in existing home sales nationally was 6.0 percent. In 2000, existing home sales in Massachusetts declined by 10 percent and did not start growing again until 2002 when they surged 32.5 percent. On a seasonally adjusted annual basis, existing home sales for the Commonwealth, New England, and the United States appear in the following table.

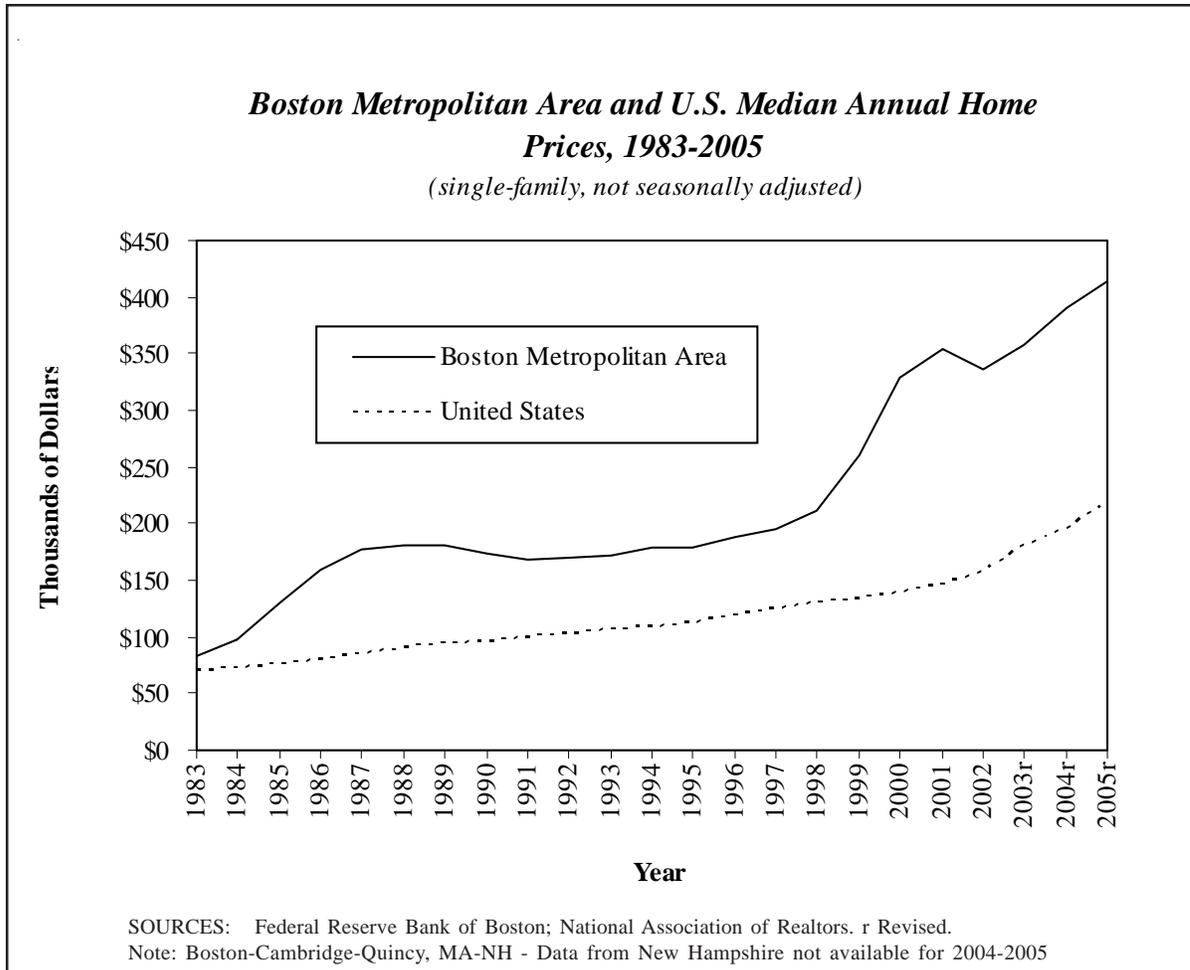
### ***Existing Home Sales, 1981-2005***

*(seasonally adjusted annual rates, in thousands)*

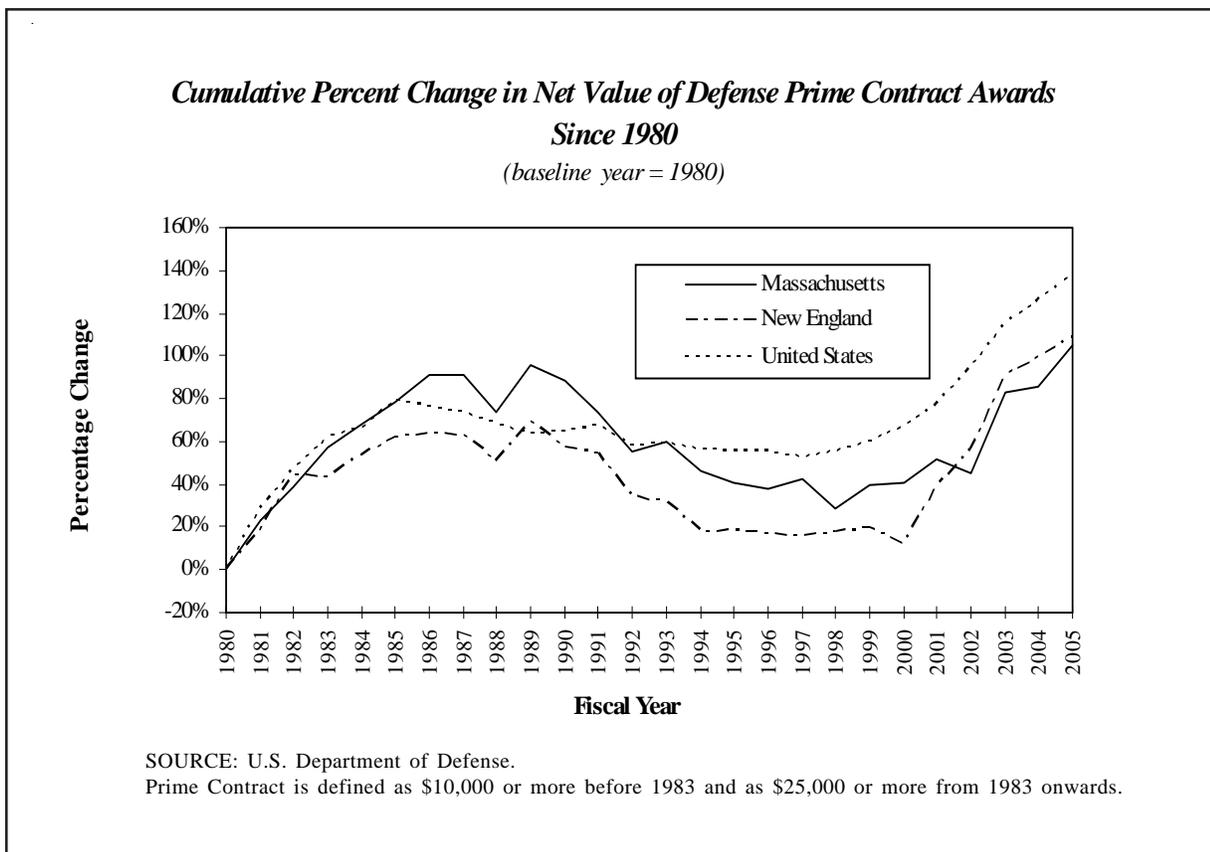
<i>Year</i>	<i>Massachusetts</i>		<i>New England</i>		<i>United States</i>	
	<i>Sales</i>	<i>% Change</i>	<i>Sales</i>	<i>% Change</i>	<i>Sales</i>	<i>% Change</i>
1981	43.0		105.8		2,575.0	
1982	42.6	-0.8%	98.6	-6.9%	2,117.5	-17.8%
1983	59.2	39.0%	141.3	43.3%	2,875.0	35.8%
1984	54.9	-7.3%	140.7	-0.4%	3,027.5	5.3%
1985	60.2	9.7%	157.0	11.6%	3,382.5	11.7%
1986	67.0	11.3%	169.2	7.8%	3,772.5	11.5%
1987	76.4	14.1%	174.5	3.1%	3,767.5	-0.1%
1988	76.6	0.2%	178.5	2.3%	3,882.5	3.1%
1989	68.2	-10.9%	163.0	-8.7%	3,672.0	-5.4%
1990	48.6	-28.8%	134.0	-17.8%	3,603.5	-1.9%
1991	53.4	10.0%	140.5	4.9%	3,533.3	-1.9%
1992	62.5	17.0%	170.6	21.4%	3,889.5	10.1%
1993	70.9	13.4%	193.8	13.6%	4,220.3	8.5%
1994	71.4	0.7%	200.3	3.4%	4,409.8	4.5%
1995	69.6	-2.6%	185.7	-7.3%	4,342.3	-1.5%
1996	81.2	16.6%	200.7	8.1%	4,705.3	8.4%
1997	90.1	11.0%	219.4	9.3%	4,908.8	4.3%
1998	99.9	10.8%	248.3	13.2%	5,585.3	13.8%
1999	98.5	-1.3%	253.3	2.0%	5,922.8	6.0%
2000	88.7	-10.0%	242.0	-4.4%	5,831.8	-1.5%
2001	87.5	-1.4%	239.6	-1.0%	6,026.3	3.3%
2002	115.9	32.5%	262.8	9.7%	5,631.0	-6.6%
2003r	118.3	2.1%	271.1	3.2%	6,175.0	9.7%
2004r	141.7	19.8%	N/A		6,779.0	9.8%
2005r	148.6	4.9%	N/A		7,075.0	4.4%

SOURCES: National Association of Realtors; Federal Reserve Bank of Boston. r Revised June 2006.

Median single-family home prices for the Boston Metropolitan area and the U.S. from 1983 to 2004 are compared in the following graph. While Boston housing prices were 118.1 percent of the U.S. median in 1983, by 1987 Boston housing prices as a percent of the national median had reached 205.7 percent. After dipping to 160.9 percent of the median in 1993 and remaining as low as 162.9 percent in 1998, Boston home prices soared to 211.7 percent of the national median in 2004. The Boston metropolitan area median home price rose to \$389,700 in 2004, compared to the national home price of \$184,100. The third quarter 2005 preliminary median prices were \$215,900 for the U.S. and \$430,900 for the Boston metro. This was a 14.7 percent increase for the U.S. and a 5.5 percent increase for the Boston metro, when compared to their third quarter 2004 prices. The September 2005 revisions reflect new metropolitan statistical area definitions from the U.S. Census Bureau.



**Defense.** Following a peak at \$8.7 billion in the value of military prime contracts awarded to Massachusetts firms in fiscal 1986, defense-related contracts declined 17.2 percent by fiscal 1988 to \$7.2 billion. By fiscal 1995, the value of defense-related prime contracts had declined to \$4.8 billion. The net value of prime contract awards in Massachusetts oscillated between \$4.2 and \$5.2 billion from 1995 to 2002, but jumped 29.2 percent from 2002 to 2004 to \$7.0 billion. The chart below illustrates the yearly changes in the value of Massachusetts military prime contracts from 1980 to 2004.



The importance of the defense industry to the Massachusetts economy is reflected in table on the following page, which shows the value of Department of Defense prime contract awards between 1980 and 2004. From the early 1980s to 2001, the Commonwealth's share of New England's prime contract awards had remained around 50 percent. While Massachusetts' contract total has increased significantly in the past two years, its share in the New England region has slipped to 36.5 percent in 2004. In 2002, the Commonwealth's share of the national total reached its lowest point in over two decades, 3.1 percent, and has increased only slightly to 3.3 percent in 2004. Despite this trend, Massachusetts remains the eighth largest recipient in defense spending.

**Net Value of Department of Defense Prime Contract Awards, 1980-2005**

*(in millions)*

Fiscal Year	MA	N.E.	U.S.	Massachusetts' Share (as a Percent)	
				of New England	of U.S.
1980*	\$3,743	\$8,775	\$68,070	42.7%	5.5%
1981*	4,605	10,372	87,761	44.4%	5.2%
1982*	5,317	13,037	103,858	40.8%	5.1%
1983	6,328	12,967	118,744	48.8%	5.3%
1984	7,029	14,249	123,995	49.3%	5.7%
1985	7,714	15,487	140,096	49.8%	5.5%
1986	8,735	15,748	136,026	55.5%	6.4%
1987	8,685	15,606	133,262	55.7%	6.5%
1988	7,212	13,673	125,767	52.7%	5.7%
1989	8,757	16,268	119,917	53.8%	7.3%
1990	8,166	14,271	121,254	57.2%	6.7%
1991	6,933	13,889	124,119	49.9%	5.6%
1992	5,686	11,033	112,285	51.5%	5.1%
1993	5,936	10,779	114,145	55.1%	5.2%
1994	5,106	9,329	110,316	54.7%	4.6%
1995	4,846	9,375	109,005	51.7%	4.4%
1996	4,675	9,237	109,408	50.6%	4.3%
1997	4,910	9,152	106,561	53.6%	4.6%
1998	4,245	9,284	109,386	45.7%	3.9%
1999	4,715	9,456	114,875	49.9%	4.1%
2000	4,737	8,745	123,295	54.2%	3.8%
2001	5,248	11,094	135,225	47.3%	3.9%
2002	4,929	13,029	158,737	37.8%	3.1%
2003	6,800	17,544	191,221	38.8%	3.6%
2004	6,961	19,062	212,740	36.5%	3.3%
2005	8,333	20,699	236,986	40.3%	3.5%

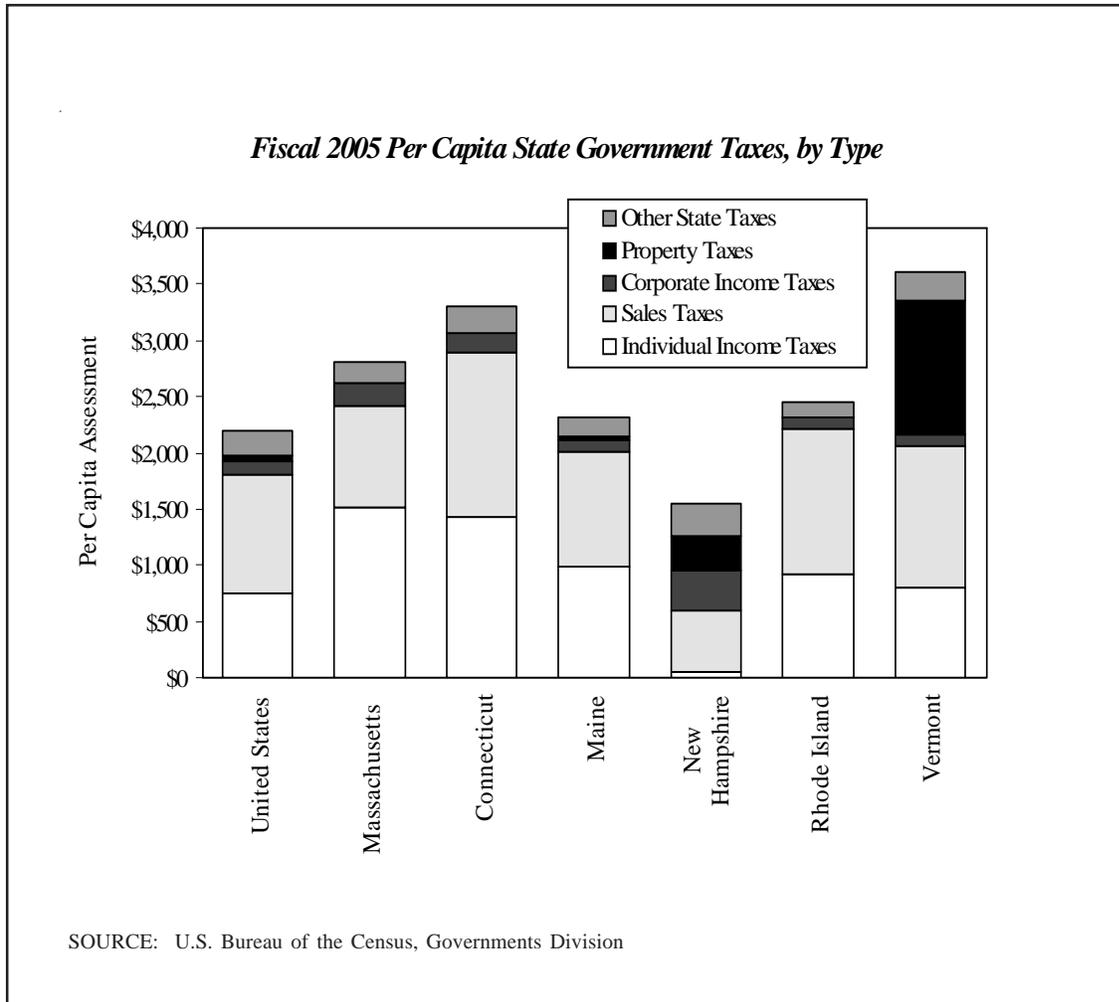
SOURCE: United States Department of Defense. \*Prime Contract is defined as \$10,000 and above for these years; beginning in 1983 it is defined as \$25,000 and above.

**Travel and Tourism.** The travel and tourism industry represents a substantial component of the overall Massachusetts economy. Massachusetts is one of the nation's most popular tourist and travel destinations for both domestic and international visitors. The greater Boston area is New England's most popular destination, as the site of many popular and historic attractions including the New England Aquarium, Boston's Museum of Fine Arts, Boston's Museum of Science, the U.S.S. Constitution, the Kennedy Library and Museum, and Faneuil Hall Marketplace. While the Massachusetts Office of Travel and Tourism reported a slight drop, 0.4 percent, in museum and attraction attendance in 2005, year-to-date thru March 2006 is up over 17% compared to the same period in 2005.

The Massachusetts Office of Travel and Tourism estimates that 22.7 million domestic travelers traveled to or within the Commonwealth in 2005, an increase of 4.1 percent from 2004. Additionally, 4.23 million international travelers visited Massachusetts in 2005, an increase of 0.8 percent from 2004. According to MassPort, there were 7 percent more cruise vessel calls in 2005 than in 2004, 102 versus 95 and 17 percent more cruise passengers, 233,702 versus 199,453.

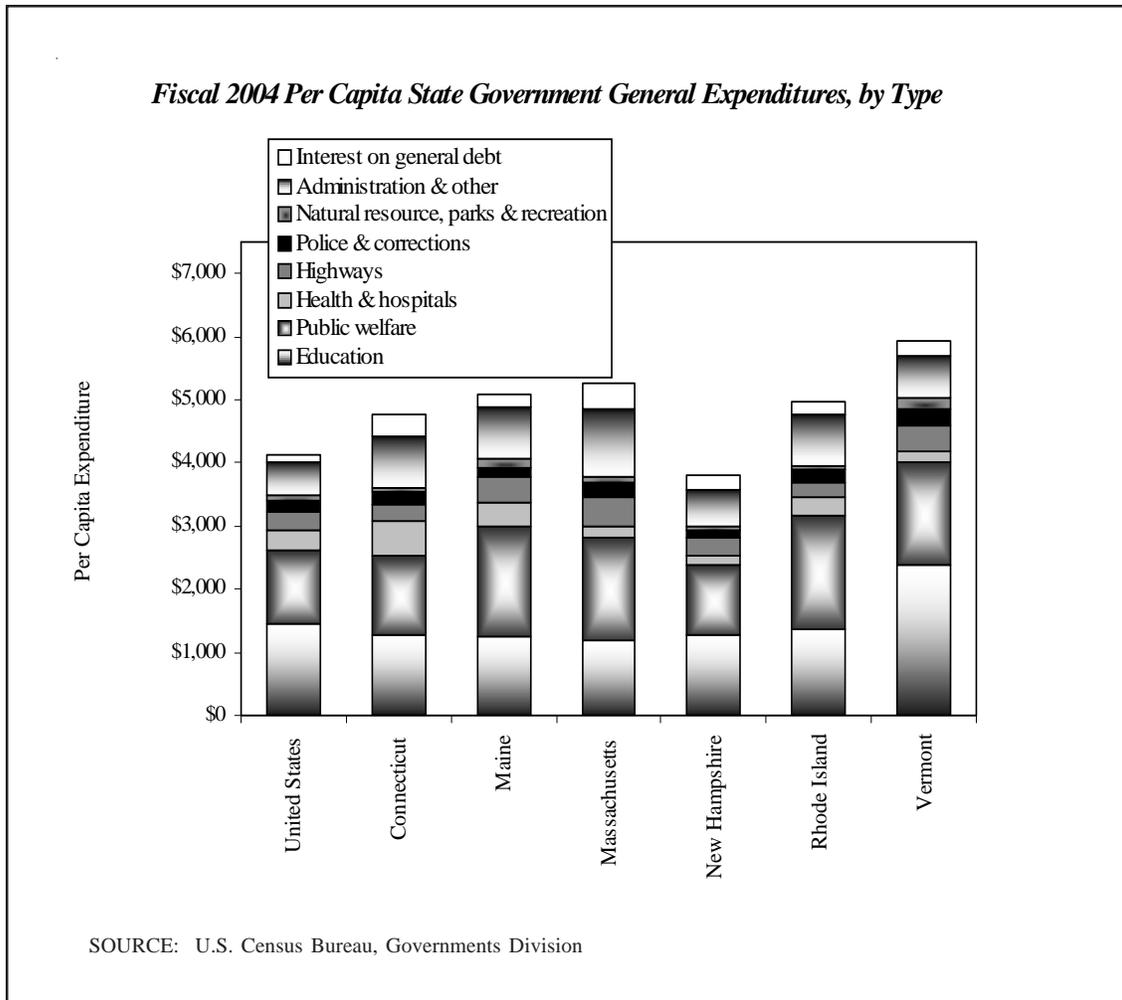
**State Taxes.** Per capita state taxes in Massachusetts are significantly higher, 28.5 percent, than the national average. In 2004, the total per capita state tax bill in the United States was \$2,025. Citizens of the Commonwealth however, paid \$2,602 on average, the seventh highest in the nation and an increase of 7.2 percent from the previous year's \$2,427. In New England, citizens in Connecticut and Vermont paid more per capita, and all New England states except New Hampshire (47th), ranked in the top 16 for per capita state tax collections.

In 2004, over half (52.9 percent) of the state taxes in Massachusetts came from the state income tax. Per capita individual income taxes in Massachusetts were \$1,376, up 10.3 percent from \$1,248 in 2003. Also increasing in 2004 were sales receipts, 1.2 percent, corporate net income, 10.1 percent, and other taxes (licenses, death and gift, and documentary and stock transfer) 12.3 percent. Across the New England states, there is wide variation in both total per capita state taxes and in the breakdown of those taxes, as illustrated in the following chart.

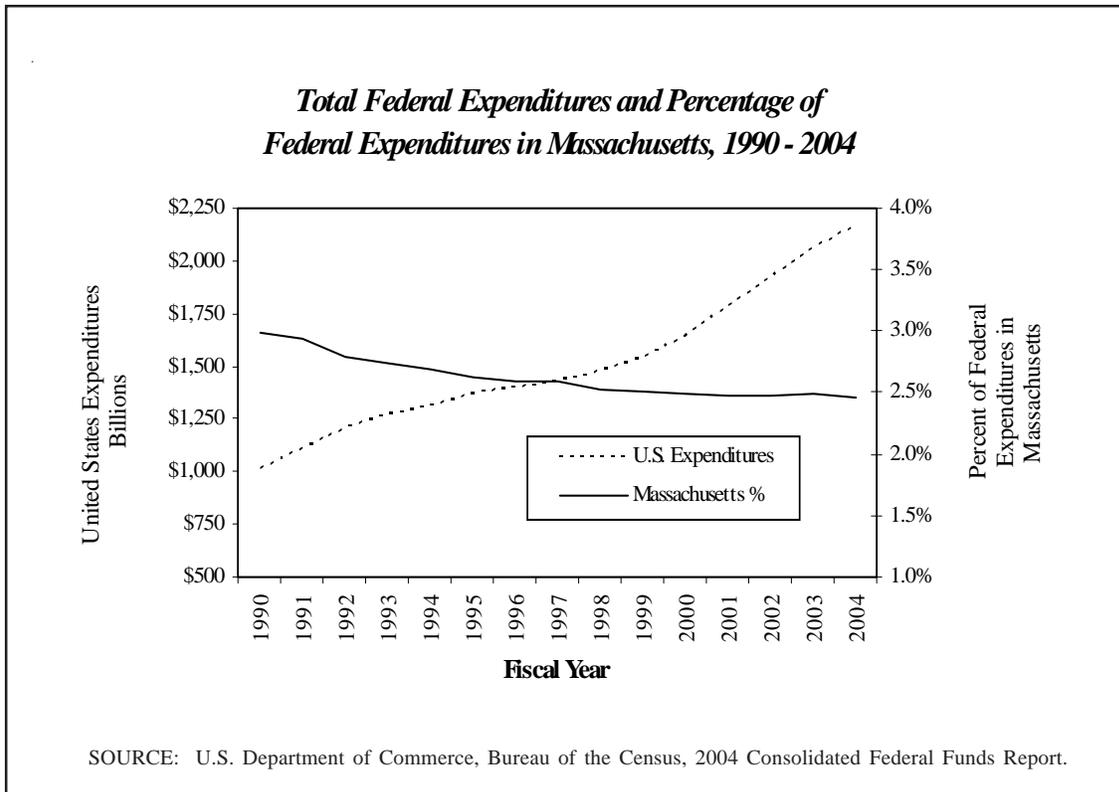


**State Government Spending in Massachusetts.** The following chart depicts fiscal 2003 per capita state general expenditures by category for the six New England states and the U.S. average state expenditure. Massachusetts ranked 16th in the nation in per capita expenditures (\$5,095) in 2003 while it ranked 13th and spent more (\$5,122) in 2002. This represents a 0.5 percent decrease in per capita expenditures from 2002 to 2003.

Massachusetts spent more state funds per capita on debt service (\$386) and less on education (\$1,055) in 2003 than any of its New England neighbors. Massachusetts spent 7.7 percent less on debt service and 3.4% more on education in 2003 than 2002. While all New England states used less than the national average of 28.1 percent for intergovernmental expenditures, the variation within the region is significant, with intergovernmental expenditures representing 13.9 percent of Rhode Island expenditures, 19.7 percent of Massachusetts expenditures, and 24.3 percent of Vermont expenditures in 2003.

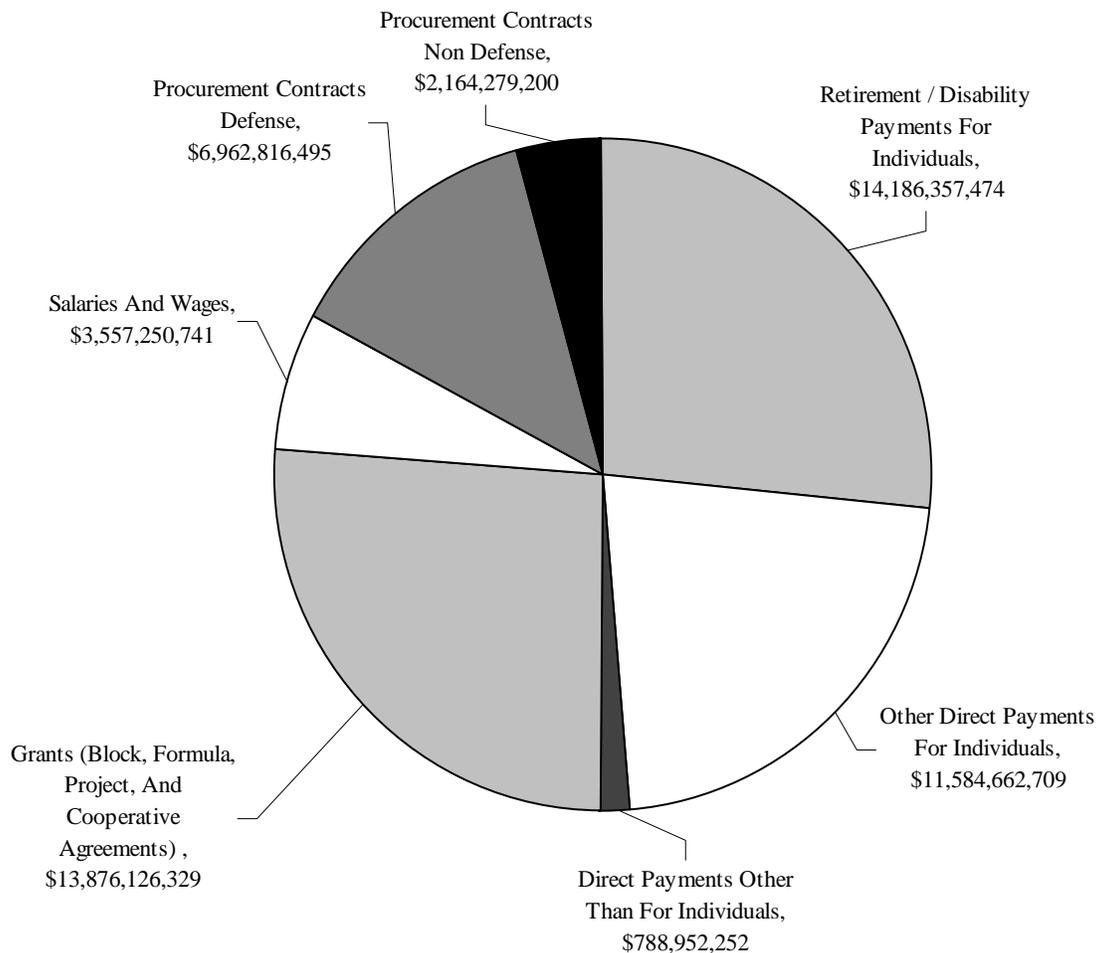


**Federal Government Spending in Massachusetts.** Federal government spending contributes significantly to the Massachusetts economy. In fiscal 2004, Massachusetts ranked twelfth among states in per capita distribution of federal funds, with total spending of \$8,279 per person, excluding loans and insurance. Massachusetts' share of total federal spending declined steadily between 1990 and 1999, and has stabilized in the range of 2.46 percent to 2.52 percent between 1998 and 2004. The following chart shows total federal expenditures and the percentage of federal expenditures in Massachusetts. Federal spending includes grants to state and local governments, direct payments to individuals, wage and salary employment, and procurement contracts, and includes only those expenditures that can be associated with individual states and territories.



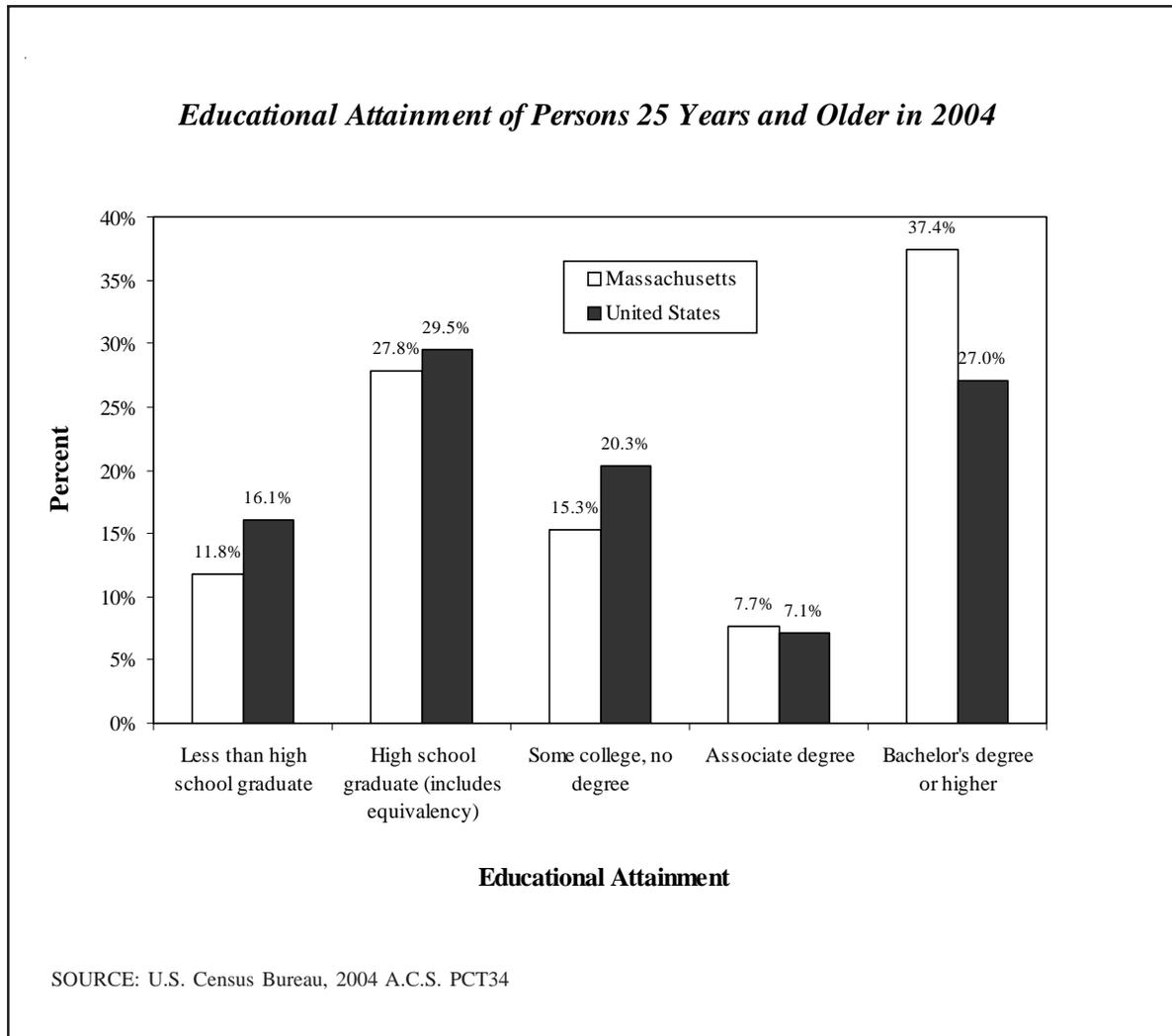
Over half of FY 2004 federal spending in Massachusetts was composed of health care and social programs like Medicare, Medicaid, Social Security, unemployment benefits and Section 8 Housing Vouchers. Massachusetts was above the national average in per capita federal grants to state and local governments, receiving \$2,163 per capita compared to a national average of \$1,545. Per capita federal spending on salaries and wages in 2004 was lower in Massachusetts than in the rest of the nation, \$554 compared to a national average of \$750, but Massachusetts was above the national average in per capita direct federal payments to individuals (\$4,139 compared to a national average of \$3,839). Massachusetts ranked 9th among states in per capita procurement contract awards, \$1,422 compared to a national average of \$1,089 in 2004. The following chart shows the composition of direct federal spending within Massachusetts in fiscal 2004, excluding loans and insurance.

**Composition of Direct Federal Spending in Massachusetts by Program  
Fiscal 2004**

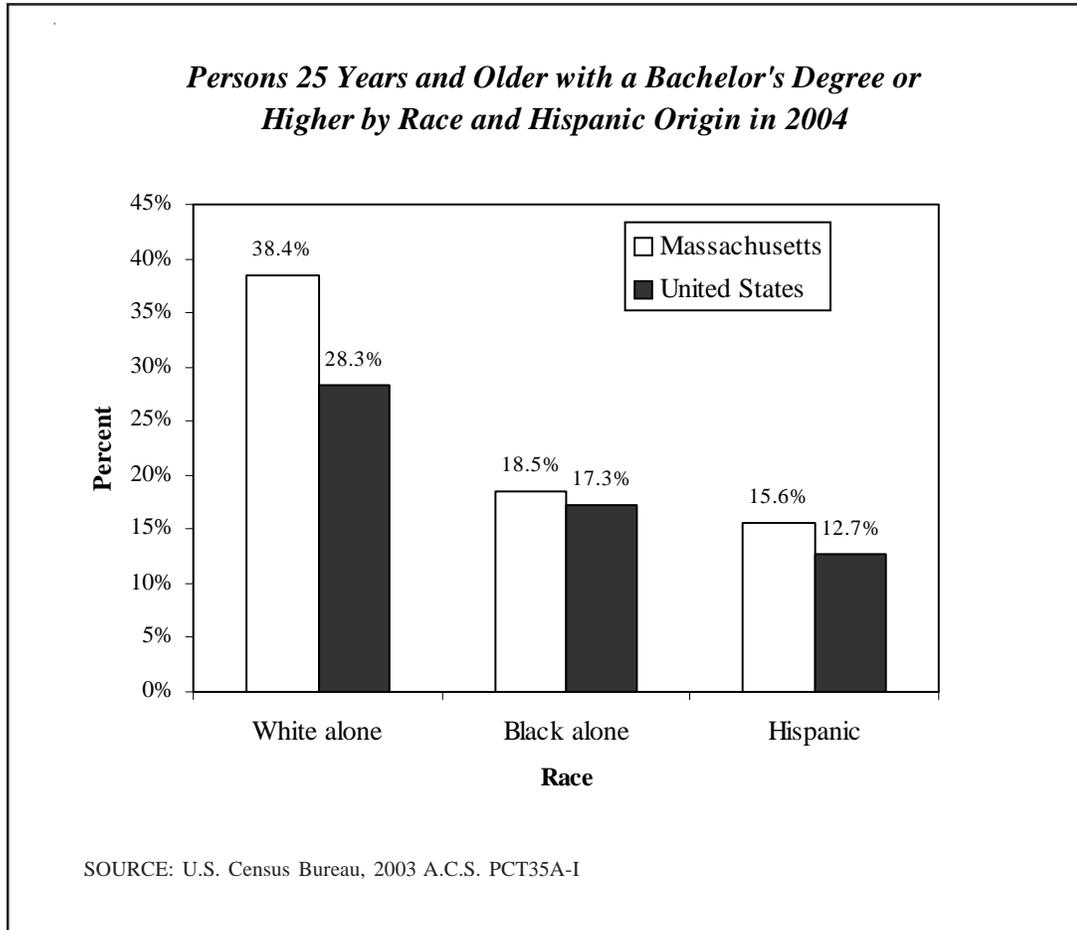


SOURCE: U.S. Department of Commerce, Bureau of the Census, 2004 Consolidated Federal Funds Report.

**Human Resources.** The availability of a skilled and well-educated population is an important resource for the Commonwealth. The level of education reached by the population of Massachusetts compares favorably with the level in the United States as a whole. In 2004, the Census's American Community Survey (ACS) reported that Massachusetts had a smaller proportion of persons who had not completed high school (11.8 percent) than the national average (16.1 percent) and a much higher proportion of persons with a bachelor's degree or more (37.4 percent) than the nation (27.0 percent).



While Massachusetts' black and Hispanic population achieved college degrees at roughly half the rate of the white population, they fared much better than the national average.



Massachusetts has a higher minority enrollment in institutions of higher education than New England. However, the percentage of enrollment of blacks, Hispanics, and Asians in higher education in Massachusetts is below the national average. These percentages, which do not include military academy enrollment, are seen in the chart below.

**Higher Education Enrollment by Race and Hispanic Origin in 2004**

	Black	Asian	Native American	White	Hispanic	Race Unknown
Massachusetts	6.5	6.1	0.4	61.4	5.1	14.5
New England	6.0	4.6	0.5	67.2	4.8	12.4
United States (2002)	11.6	5.8	1.0	62.4	9.5	NA

Note: Black, Asian, Native American and White totals reflect non-Hispanic population. Does not include the category non-resident alien. Table does not include enrollment at military academies. U.S. data from the U.S. Dept of Education.  
SOURCE: New England Board of Higher Education analysis of U.S. Department of Ed. Data.

Massachusetts is an internationally recognized center for higher education, with 437,595 students in undergraduate, professional and graduate programs in 2003, according to data supplied by the New England Board of Higher Education. According to the Institute of International Education, 28,634 foreign students were enrolled in Massachusetts colleges and universities in the 2003/2004 school year. This was a 4.7 percent decrease from the previous year but Massachusetts was ranked 4th among states for foreign student enrollment. The Massachusetts public higher education system is composed of universities, state colleges, and community colleges with a combined enrollment of 189,463 students in 2003, 44 percent of whom attended part-time. In addition, Massachusetts has a system of private higher education that accounted for 56.7 percent of total enrollment in Massachusetts in 2003. Almost a quarter of the students attending private institutions did so on a part-time basis. The strength of both public and private colleges and universities as centers for research and education contributes to the high quality of the Massachusetts work force and plays a key role in attracting and retaining business and industry within the state.

The higher education system in Massachusetts is particularly strong in post-graduate, scientific, and technical education, with 1,461 science and engineering doctorates awarded in 2002, 4th in the nation. Massachusetts conferred a total of 2,320 doctorates in 2003. Massachusetts was also ranked 2nd in the U.S. in science and engineering postdoctorates in doctorate-granting institutions in 2002, with 5,873.

The pre-eminence of higher education in Massachusetts contributes not only to the quality of its work force, but also to its stature in the nation and the world as a center for basic scientific research and for academic and entrepreneurial research and development. Doctorate-granting institutions in Massachusetts received 4.7 percent (\$1.71 billion) of total national academic expenditures on R&D in fiscal 2002, with almost half spent in the life sciences. Massachusetts ranked sixth in the nation behind California, New York, Texas, Pennsylvania and Maryland.

The diversity of federal funding sources reflects the variety of research and development work performed at Massachusetts educational institutions. Of the \$1.17 billion in total fiscal 2002 federal outlays for science and engineering research to universities and colleges in Massachusetts (and their affiliated federally funded research and development centers), 57.5 percent was from the Department of Health and Human Services, 16.9 percent was from the National Science Foundation, 13.6 percent from the Department of Defense, 6.6 percent was from the Department of Energy, and 3.9 percent was from the National Aeronautics and Space Administration. Massachusetts ranked 4th in the nation in 2002 in total federal outlays for research and development, with total federal spending of \$4.66 billion in the state.

Given the quality of the Commonwealth's research and development sector, it is not surprising that Massachusetts fares better than the national average in homes with computer and internet access. According to Census's October 2003 Current Population Survey, 64.2 percent of Massachusetts households had access to a computer, compared to 61.8 percent nationally and 58.1 percent of its households were connected to the internet while the national average was 54.7 percent.

***Primary and Secondary Education Data.*** Although spending on education is not necessarily an indicator of results, Massachusetts has spent from 12 to 36 percent more per pupil on primary and secondary education than the national average since at least 1981. During the 2001-2002 school year, Massachusetts increased per student expenditures to \$10,232; 32 percent higher than the national average. The table on the following page shows expenditures per pupil for Massachusetts and the United States since fiscal 1981.

***Expenditure Per Pupil in Public Elementary and Secondary Schools,  
1981-2004***

*(in current, unadjusted dollars)*

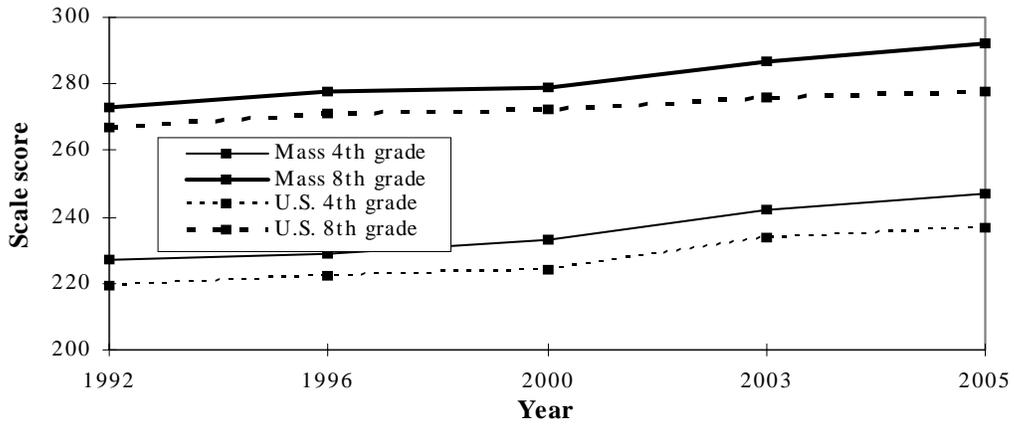
<i>Fiscal Year</i>	<i>Massachusetts</i>	<i>United States</i>	<i>Ratio (MA/U.S.)</i>
<b>1981</b>	\$2,735	\$2,307	1.19
<b>1982</b>	2,823	2,525	1.12
<b>1983</b>	3,072	2,736	1.12
<b>1984</b>	3,298	2,940	1.12
<b>1985</b>	3,653	3,222	1.13
<b>1986</b>	4,031	3,479	1.16
<b>1987</b>	4,491	3,682	1.22
<b>1988</b>	4,965	3,927	1.26
<b>1989</b>	5,485	4,307	1.27
<b>1990</b>	5,766	4,643	1.24
<b>1991</b>	5,881	4,902	1.20
<b>1992</b>	5,952	5,023	1.18
<b>1993</b>	6,141	5,160	1.19
<b>1994</b>	6,423	5,327	1.21
<b>1995</b>	6,783	5,529	1.23
<b>1996</b>	7,033	5,689	1.24
<b>1997</b>	7,331	5,923	1.24
<b>1998</b>	7,778	6,189	1.26
<b>1999</b>	8,260	6,508	1.27
<b>2000</b>	8,816	6,912	1.28
<b>2001</b>	9,509	7,380	1.29
<b>2002</b>	9,856	7,701	1.28
<b>2003</b>	10,223	8,019	1.27
<b>2004</b>	10,693	8,287	1.29

SOURCE: U.S. Census Bureau, <http://www.census.gov/govs/www/school.html>

The National Assessment of Educational Progress (NAEP), also known as "the Nation's Report Card," is the only nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since 1969, assessments have been conducted periodically in reading, mathematics, science, writing, U.S. history, civics, geography, and the arts. Under the current structure, the Commissioner of Education Statistics, who heads the National Center for Education Statistics in the U.S. Department of Education, is responsible by law for carrying out the NAEP project.

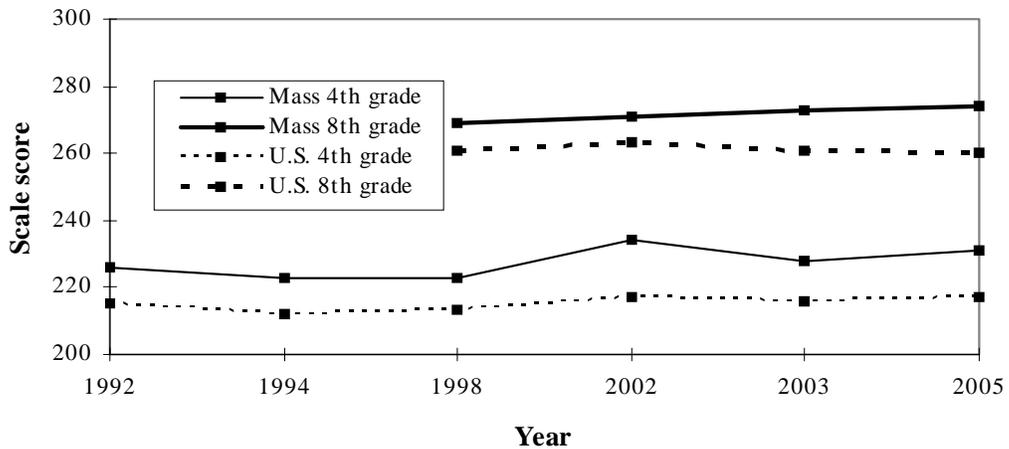
Since 1990, NAEP assessments have also been conducted to give results for participating states. Those that choose to participate receive assessment results that report on the performance of students in that state. In its content, the state assessment is identical to the assessment conducted nationally. However, because the national NAEP samples were not, and are not currently designed to support the reporting of accurate and representative state-level results, separate representative samples of students are selected for each participating jurisdiction/state. The graphs on the following page compare the data available for Massachusetts to the nation.

### NAEP Mathematics Scores



SOURCE: National Center for Education Statistics

### NAEP Reading Scores



SOURCE: National Center for Education Statistics

# Sources List

Listed below are the the web sites of the original data sources used to compile this section (Exhibit A) of the Economic Due Diligence report. The sites are listed in section title order.

## **Population Characteristics**

**United States Department of Commerce, Bureau of the Census**

<http://www.census.gov>

## **Personal Income, Consumer Prices, and Poverty**

**U.S. Department of Commerce, Bureau of Economic Analysis**

<http://www.bea.doc.gov/bea/regional>

**United States Department of Labor, Bureau of Labor Statistics**

<http://www.bls.gov>

**Federal Reserve Bank of Boston**

<http://www.bos.frb.org/economic/need/needata.htm>

**The Conference Board, Inc. (for U.S. and N.E. measures), Mass Insight Corporation (for MA measure)**

<http://www.conference-board.org>

<http://www.massinsight.com/index.asp>

**U.S. Department of Commerce, Bureau of the Census**

<http://www.census.gov>

## **Employment**

**MA Division of Unemployment Assistance**

<http://www.detma.org>

**United States Department of Labor, Bureau of Labor Statistics**

<http://www.bls.gov>

**The Conference Board, Inc.**

<http://www.conference-board.org>

## **Economic Base and Performance**

**U.S. Department of Commerce, Bureau of Economic Analysis**

<http://www.bea.doc.gov/bea/regional/gsp/>

**Fortune Magazine**

<http://www.fortune.com/fortune/>

## **Economic Base and Performance - Sector Detail (NAICS Basis)**

**U.S. Department of Commerce, Bureau of Economic Analysis**

<http://www.bea.doc.gov/bea/regional/gsp/>

**U.S. Census Bureau, Foreign Trade Division. Prepared by the World Institute for Strategic Economic Research (WISER)**

<http://www.wisertrade.org>

**Massport**

<http://www.massport.com>

**Airports Council International**

<http://www.aci.aero>

**Army Corps of Engineers**

<http://www.iwr.usace.army.mil/ndc/wcsc/statenm03.htm>

**Federal Reserve Bank of Boston; United States Department of Commerce**

<http://www.bos.frb.org>

<http://www.census.gov>

**National Association of Realtors; Federal Reserve Bank of Boston**

<http://www.bos.frb.org/economic/need/needata.htm>

**U.S. Department of Defense**

<http://web1.whs.osd.mil/peidhome/geostats/geostat.htm>

**Massachusetts Office of Travel and Tourism**

<http://www.massvacation.com>

**U.S. Census Bureau, Governments Division**

<http://www.census.gov/govs/www/statetax.html>

<http://www.census.gov/govs/www/state.html>

**U.S. Department of Commerce, Bureau of the Census, 2003 Consolidated Federal Funds Report**

<http://www.census.gov/govs/www/cffr.html>

## **Human Resources and Infrastructure**

**U.S. Census Bureau, 2003 A.C.S. PCT35A-I**

<http://www.census.gov/acs/www/>

**New England Board of Higher Education**

<http://www.nebhe.org.connection.html>

**National Science Foundation**

<http://www.nsf.gov/statistics>

**United States Department of Education, National Center for Education Statistics**

<http://nces.ed.gov/pubsearch/Subindx.asp>

<http://nces.ed.gov/nationsreportcard/states>

**National Center for Education Statistics**

<http://nces.ed.gov>