

## 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 January 25, 2007. Information in the text, tables, charts, and graphs was current as of December 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, 2006	1.4%	6.4%

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

Per Capita Personal Income, 2005	\$43,702	\$34,495
Average Annual Pay, All Industries, 2005	\$50,095	\$40,677
Percent Change in CPI-U, 2005-2006ytd(11mo.)*	3.2%	3.3%
Percent Change in CPI-U, November 2005-November 2006*	2.1%	2.0%
Poverty Rate, 2003-2005 Average	9.9%	12.6%
Average Weekly Earnings, Manufacturing Production Workers: 2006ytd (11mo.)	\$743.78	\$691.70
Percent Change 2006ytd (Nov06 prelim.), over same period last year	1.6%	3.0%

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

Percent Change in Nonfarm Payroll Employment, Nov. 2005-Nov. 2006(p)	0.7%	1.3%
Unemployment Rate, 2006ytd (11mo. of seasonally adjusted data)	4.9%	4.6%
Unemployment Rate, November, 2006 (seasonally adjusted)	5.0%	4.5%

#### Economic Base and Performance (p. A-20)

Percent Change in Gross State Product, 2004-2005	4.2%	6.5%
Percent Change in International Exports, 2004-2005	0.9%	10.6%
Percent Change in Housing Permits Authorized, 2004-2005	9.2%	4.1%

#### 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, 2005	36.9%	27.2%

\*NOTE: Percent changes in the Consumer Price Index for All Urban Consumers (CPI-U) are for the Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA & the United States.

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**

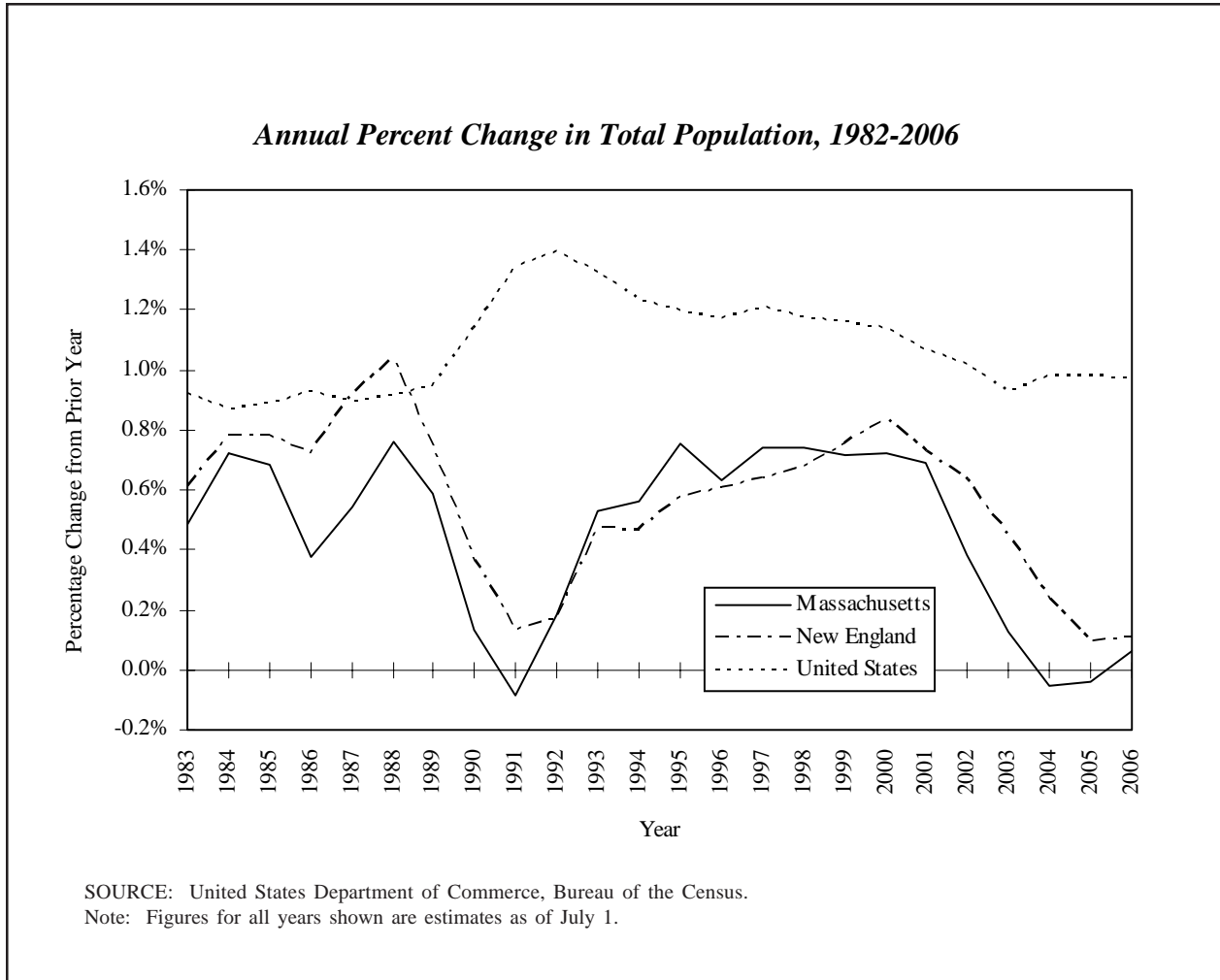
Massachusetts is a relatively slow growing but densely populated state with a comparatively large percentage of its residents living in metropolitan areas. The population density of Massachusetts was estimated as of July 1, 2006 to be 821.1 persons per square mile, as compared to 84.6 for the United 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 2005) 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 2005 estimated at 4,411,835 or 31 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. As a major medical and educational center, the Worcester area is home to 18 patient care facilities, including the University of Massachusetts Medical School, and thirteen 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 released in December, 2006, Massachusetts population has grown by 1.4% since Census 2000, and only five states have grown more slowly. All of that growth occurred between 2000 and 2003; the estimate has been essentially flat since then.



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, 1972-2006*

*(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>	6,363	0.7%	13,954	0.8%	282,217	1.1%
<b>2001</b>	6,407	0.7%	14,056	0.7%	285,226	1.1%
<b>2002</b>	6,431	0.4%	14,145	0.6%	288,126	1.0%
<b>2003</b>	6,440	0.1%	14,208	0.4%	290,796	0.9%
<b>2004</b>	6,436	-0.1%	14,241	0.2%	293,638	1.0%
<b>2005</b>	6,433	0.0%	14,255	0.1%	296,507	1.0%
<b>2006</b>	6,437	0.1%	14,270	0.1%	299,398	1.0%

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.

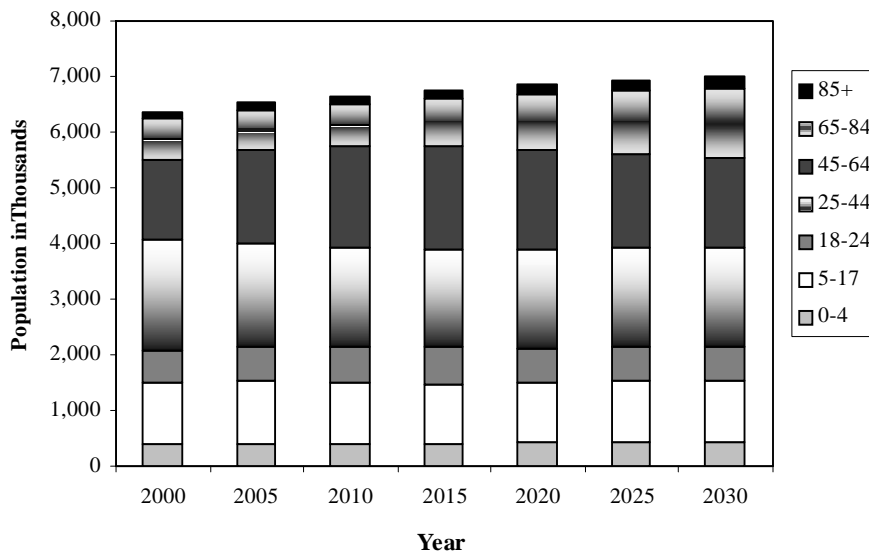
The next twenty-five years are expected to bring about a continued change in the age distribution of the Massachusetts population. As the following table and chart show, the share of the 65 and over age group and especially the 85 and over age group will continue to grow. The chart, table and population 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. More recent estimates of the 2005 population are somewhat lower.

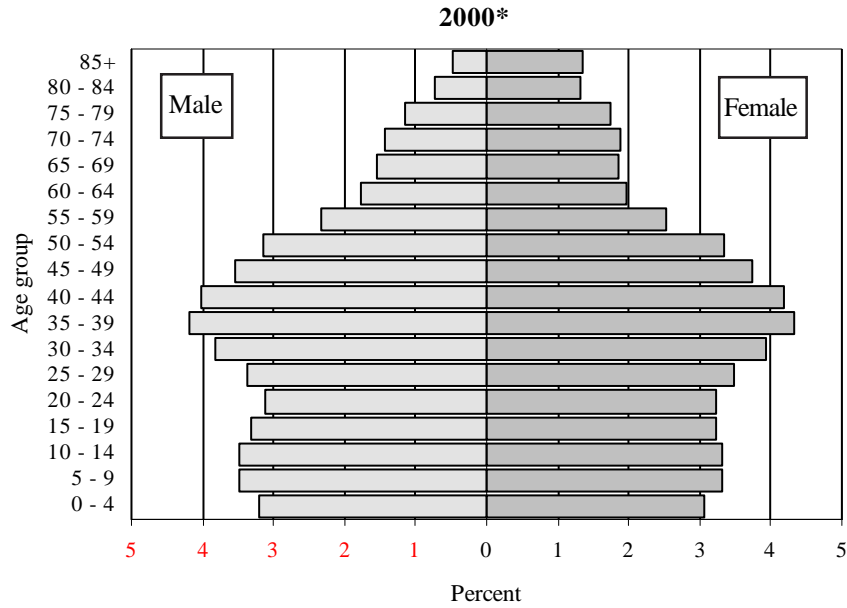
**Projected Massachusetts Population by Age Group**  
**2000-2030**



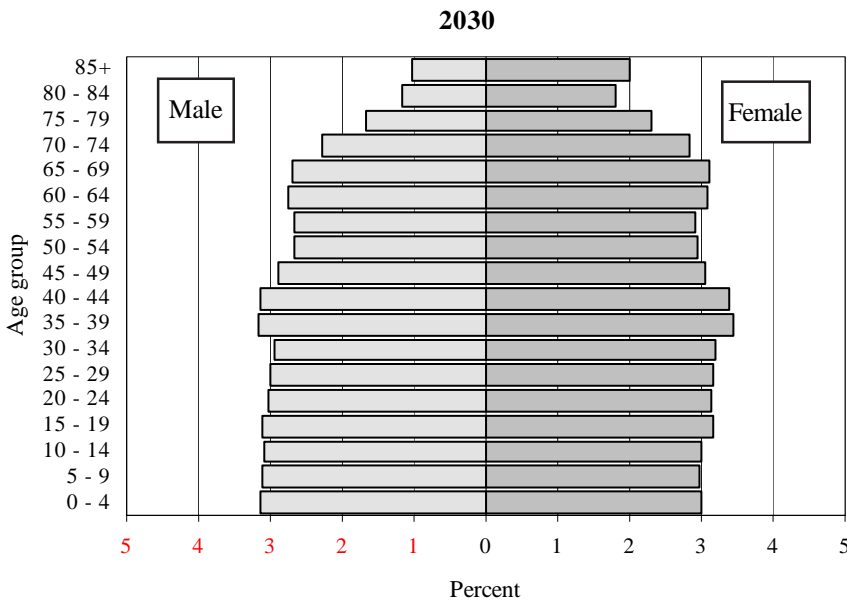
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## Population Pyramids of Massachusetts

(percent of total population)



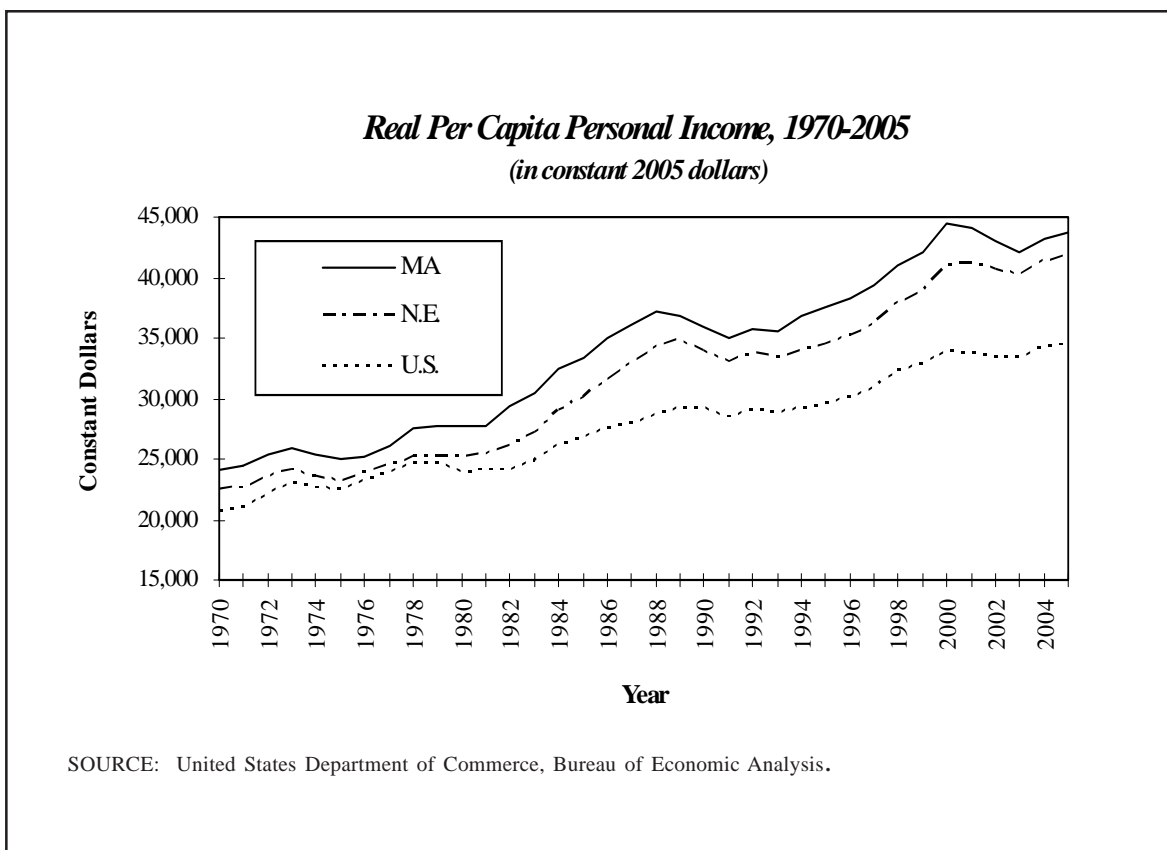
\*Note: Actual Census 2000 counts as of April 1.



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 thirteen years only the District of Columbia, Connecticut and New Jersey 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	39,611	37,983	31,463	42,039	40,316	33,395	-2.1%	-0.6%	-0.2%
2004	41,799	40,059	33,090	43,176	41,416	34,211	2.7%	2.7%	2.4%
2005	43,702	41,785	34,495	43,702	41,785	34,495	1.2%	0.9%	0.8%

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 2005 was 23 percent higher than the national average: \$50,095 compared to \$40,677.

**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, 1990-2005**  
(in millions of dollars)

Year	U.S.	N.E.	MA	MA as a pct. of N.E.
<b>1990</b>	\$ 2,743,016	\$171,448	\$83,129	48.5%
<b>1991</b>	\$ 2,811,076	\$170,333	\$82,311	48.3%
<b>1992</b>	\$ 2,972,287	\$177,810	\$86,014	48.4%
<b>1993</b>	\$ 3,076,276	\$183,236	\$89,047	48.6%
<b>1994</b>	\$ 3,227,483	\$190,661	\$93,164	48.9%
<b>1995</b>	\$ 3,415,368	\$201,946	\$99,194	49.1%
<b>1996</b>	\$ 3,615,699	\$213,667	\$105,573	49.4%
<b>1997</b>	\$ 3,874,011	\$230,032	\$113,579	49.4%
<b>1998</b>	\$ 4,179,922	\$247,851	\$123,054	49.6%
<b>1999</b>	\$ 4,463,650	\$266,554	\$134,045	50.3%
<b>2000</b>	\$ 4,825,906	\$293,889	\$150,842	51.3%
<b>2001</b>	\$ 4,939,944	\$300,698	\$153,131	50.9%
<b>2002</b>	\$ 4,976,522	\$298,534	\$150,107	50.3%
<b>2003</b>	\$ 5,107,175	\$304,701	\$151,940	49.9%
<b>2004</b>	\$ 5,386,189	\$321,344	\$160,162	49.8%
<b>2005</b>	\$ 5,659,296	\$332,532	\$164,963	49.6%

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 2006. 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 the first 11 months of 2006, the CPI-U for Boston increased by 3.2 percent over the average for the same period in 2005, while the index for the United States as a whole increased by a comparable 3.3 percent. The latest available data for November 2006 show that the CPI-U for the Boston metropolitan area grew at a rate of 2.1 percent from November 2005, compared with 2.0 percent for the U.S.

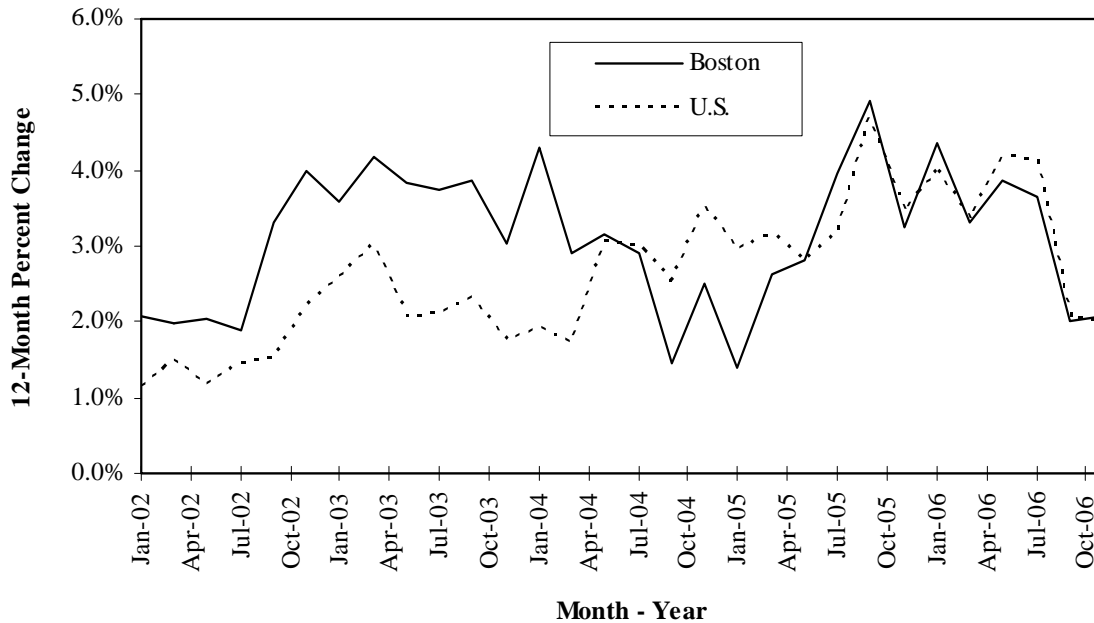
### **Consumer Price Index for All Urban Consumers (CPI-U), 1970-2005**

*(not seasonally adjusted; 1982-1984 base period average=100)*

<i>Year</i>	<i>Boston Metro Area</i>		<i>United States</i>	
	<i>CPI-U</i>	<i>Pct. Change</i>	<i>CPI-U</i>	<i>Pct. Change</i>
<b>1970</b>	40.2		38.8	
<b>1971</b>	42.2	5.0%	40.5	4.4%
<b>1972</b>	43.7	3.6%	41.8	3.2%
<b>1973</b>	46.3	5.9%	44.4	6.2%
<b>1974</b>	51.2	10.6%	49.3	11.0%
<b>1975</b>	55.8	9.0%	53.8	9.1%
<b>1976</b>	60.0	7.5%	56.9	5.8%
<b>1977</b>	63.1	5.2%	60.6	6.5%
<b>1978</b>	66.4	5.2%	65.2	7.6%
<b>1979</b>	73.2	10.2%	72.6	11.3%
<b>1980</b>	82.6	12.8%	82.4	13.5%
<b>1981</b>	91.8	11.1%	90.9	10.3%
<b>1982</b>	95.5	4.0%	96.5	6.2%
<b>1983</b>	99.8	4.5%	99.6	3.2%
<b>1984</b>	104.7	4.9%	103.9	4.3%
<b>1985</b>	109.4	4.5%	107.6	3.6%
<b>1986</b>	112.2	2.6%	109.6	1.9%
<b>1987</b>	117.1	4.4%	113.6	3.6%
<b>1988</b>	124.2	6.1%	118.3	4.1%
<b>1989</b>	131.3	5.7%	124.0	4.8%
<b>1990</b>	138.9	5.8%	130.7	5.4%
<b>1991</b>	145.0	4.4%	136.2	4.2%
<b>1992</b>	148.6	2.5%	140.3	3.0%
<b>1993</b>	152.9	2.9%	144.5	3.0%
<b>1994</b>	154.9	1.3%	148.2	2.6%
<b>1995</b>	158.6	2.4%	152.4	2.8%
<b>1996</b>	163.3	3.0%	156.9	3.0%
<b>1997</b>	167.9	2.8%	160.5	2.3%
<b>1998</b>	171.7	2.3%	163.0	1.6%
<b>1999</b>	176.0	2.5%	166.6	2.2%
<b>2000</b>	183.6	4.3%	172.2	3.4%
<b>2001</b>	191.5	4.3%	177.1	2.8%
<b>2002</b>	196.5	2.6%	179.9	1.6%
<b>2003</b>	203.9	3.8%	184.0	2.3%
<b>2004</b>	209.5	2.7%	188.9	2.7%
<b>2005</b>	216.4	3.3%	195.3	3.4%
<b>Nov-05</b>	218.6		197.6	
<b>Nov-06</b>	223.1	2.1%	201.5	2.0%

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

**Consumer Price Index for All Urban Consumers  
January 2002 - November 2006**



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

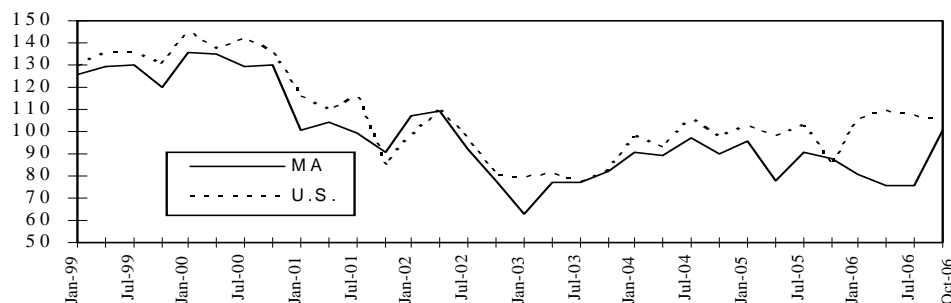
**Consumer Confidence, Present Situation, and Future Expectations.** These three measures offer multiple insights into consumer attitudes. The U.S. measures are compiled from a national monthly survey of 5,000 households and are published by The Conference Board, Inc. The survey for Massachusetts is 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 as reported by the Conference Board remains near its four-year high point of 109 reached in April, the Mass Insight Corporation reports that Massachusetts' consumer confidence rose sharply over the last quarter, posting one of its best quarter-to-quarter gains ever, but still lagging slightly behind the rest of the nation. A score of 100 is considered neutral. The following table and chart detail the recent record of these measures.

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

	Consumer Confidence		Present Situation		Future Expectations	
	MA	U.S.	MA	U.S.	MA	U.S.
Jan-01	101.0	115.7	139.0	170.4	76.0	79.3
Apr-01	104.0	109.9	124.0	156.0	91.0	79.1
Jul-01	99.0	116.3	108.0	151.3	93.0	92.9
Oct-01	91.0	85.3	94.0	107.2	90.0	70.7
Jan-02	97.8	107.0	98.1	72.0	97.6	130.0
Apr-02	109.0	108.5	84.0	106.8	125.0	109.6
Jul-02	92.0	97.4	68.0	99.4	108.0	96.1
Oct-02	78.0	79.6	48.0	77.2	97.0	81.1
Jan-03	63.0	78.8	75.3	28.0	81.1	86.0
Apr-03	77.0	81.0	31.0	75.2	108.0	84.8
Jul-03	77.0	77.0	41.0	63.0	101.0	86.3
Oct-03	82.0	81.7	36.0	67.0	112.0	91.5
Jan-04	91.0	97.7	48.0	86.1	119.0	105.3
Apr-04	89.0	93.0	53.0	90.4	113.0	94.8
Jul-04	97.0	105.7	66.0	106.4	119.0	105.3
Oct-04	90.0	92.9	64.0	94.0	108.0	92.2
Jan-05	96.0	105.1	70.0	112.1	114.0	100.4
Apr-05	78.0	97.5	63.0	113.8	88.0	86.7
Jul-05	91.0	103.6	80.0	119.3	99.0	93.2
Oct-05	88.0	85.2	80.0	107.8	95.0	70.1
Jan-06	81.0	106.8	71.0	128.8	87.0	92.1
Apr-06	76.0	109.8	77.0	136.2	76.0	92.3
Jul-06	76.0	107.0	68.0	134.2	81.0	88.9
Oct-06	101.0	105.1	86.0	125.1	111.0	91.9

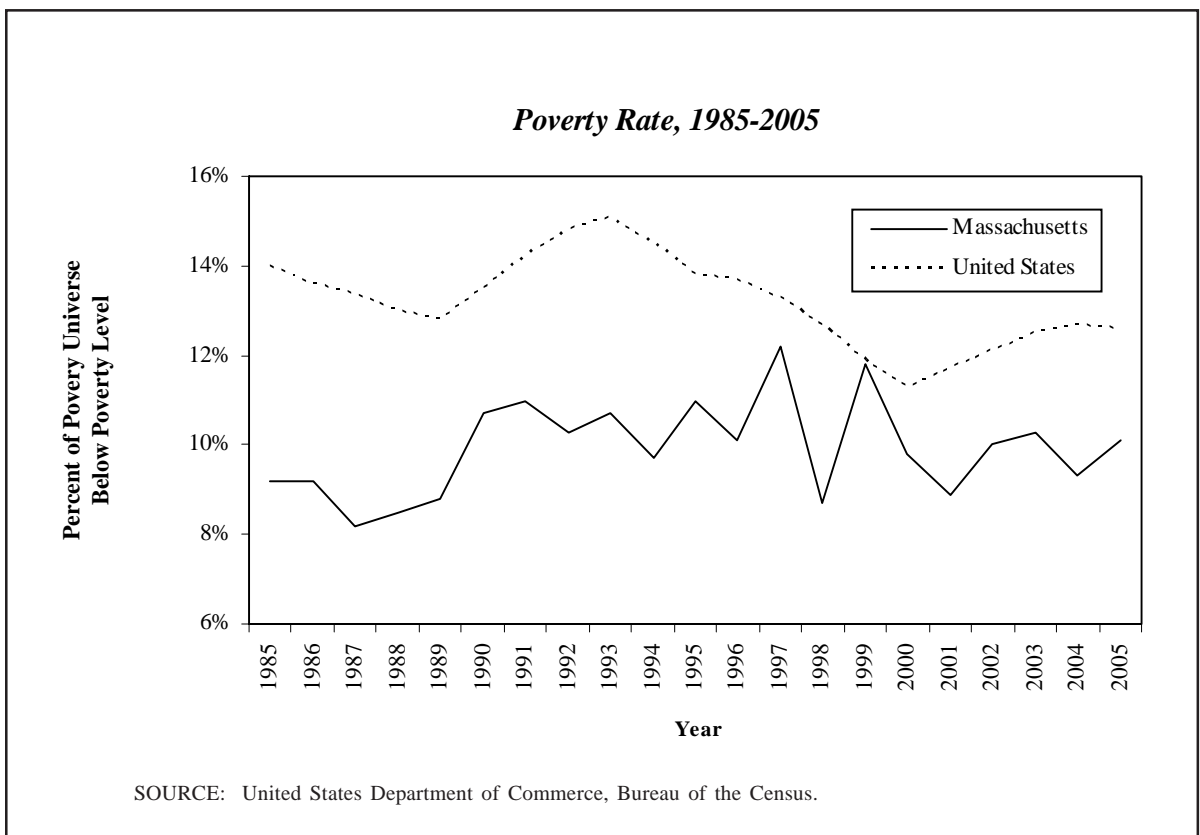
SOURCES: The Conference Board, Inc. (for U.S. measures, seasonally adjusted); Mass Insight Corporation (for MA measures, not seasonally adjusted).

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



SOURCES: The Conference Board, Inc. (for U.S. index), Mass Insight Corporation (for MA index).

**Poverty.** The Massachusetts poverty rate remains well below the national average. Since 1980, the percentage of the Massachusetts poverty universe 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 2005, the estimated poverty rate in Massachusetts increased to 10.1 percent while the poverty rate in the United States dropped slightly to 12.6 percent. These official poverty estimates are based on a sample of households and are not adjusted for regional differences in the cost of living. The following chart illustrates the lower poverty rates in Massachusetts (1985 - 2005) 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. In particular the estimated rates for Massachusetts are based on a sample of fewer than two thousand households, and the apparent 2005 increase is not considered large enough to be statistically significant. Not everyone has a poverty status determined; the poverty universe excludes foster children, college students in dormitories, military personnel in barracks, nursing home residents, and other groups of people in institutionalized settings.

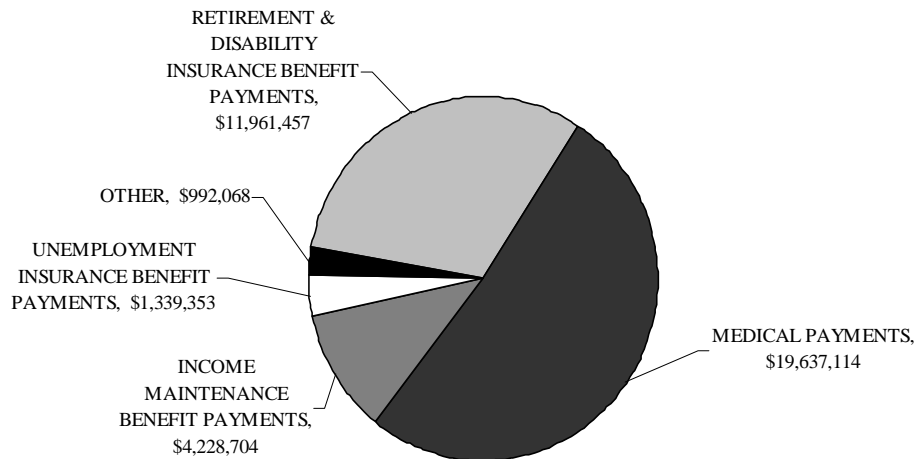


**Transfer Payments.** Transfer payment income is payment to individuals from all levels of government and from businesses, for which no current services are performed, including payments to nonprofit institutions serving individuals. These payments accounted for more than 14 percent of total personal income in Massachusetts in 2005. The chart below does not include transfer payments from business or payments to non-profit organizations. Total transfer payments to individuals in Massachusetts from governments & businesses totaled 38.6 billion dollars for 2005. Over 51 percent of government transfer payments to individuals were medical payments.

***Transfer Payments from Governments to Individuals in  
Massachusetts in 2005***

***(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.

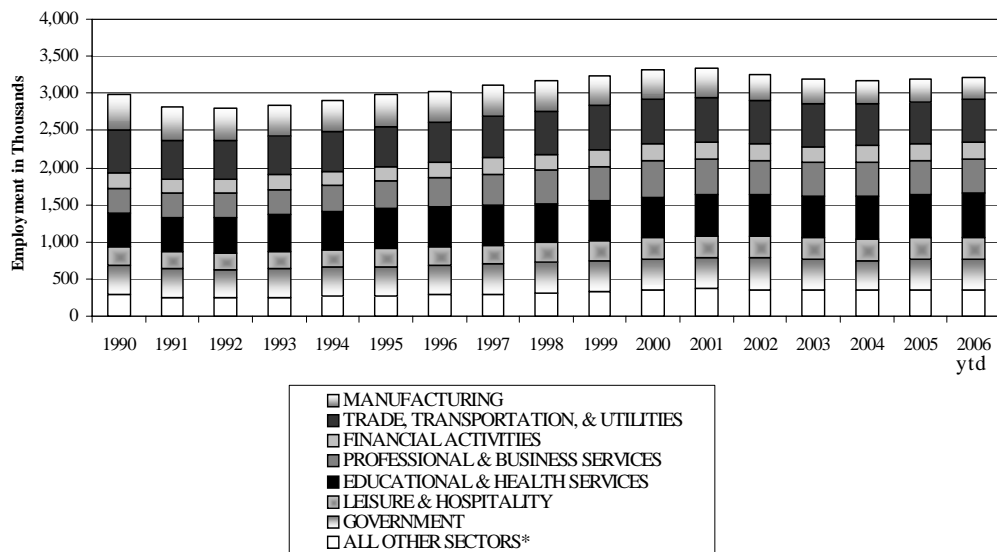
## EMPLOYMENT

**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 supersectors 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 and increased 0.5 percent in 2005. The average level for the first eleven months of 2006 is a slightly healthier 0.7 percent above that of the corresponding eleven-month period in 2005, but the state still has 108.5 thousand (3.3%) fewer jobs than in the peak year of 2001. The comparable eleven-month growth rate for the nation through November is 1.4 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. The estimate for manufacturing for 2005 was only 2.3 percent below the 2004 level, which was better than the long-term average rate of decline since 1990 (3.0 percent per year). The eleven-month average for 2006 to date is in fact only 0.1 percent below the comparable 2005 level. If this trend continues through the entire year, 2006 will be the best year for manufacturing in Massachusetts since 2000.

**Annual Average Employment in Massachusetts,  
NAICS Super-Sectors, 1990-2005  
with Year-To-Date through November, 2006**

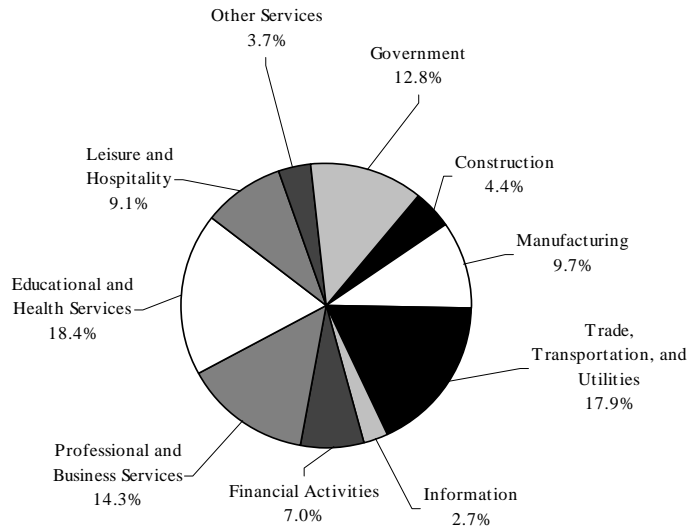


SOURCE: MA Division of Unemployment Assistance

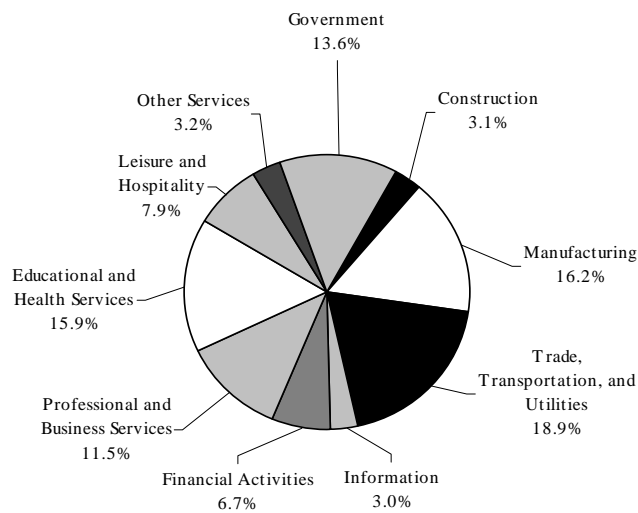
\*Includes Mining & Natural Resources, Construction, Information, and Other Services

**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 employment covered by the Unemployment Insurance system for June, 2006. The list is now the same as the lists released in 2005 except for name changes reflecting two corporate mergers.

***Twenty-five Largest Private Employers in Massachusetts in June, 2006***

*(listed alphabetically)*

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

SOURCE: MA Division of Unemployment Assistance.

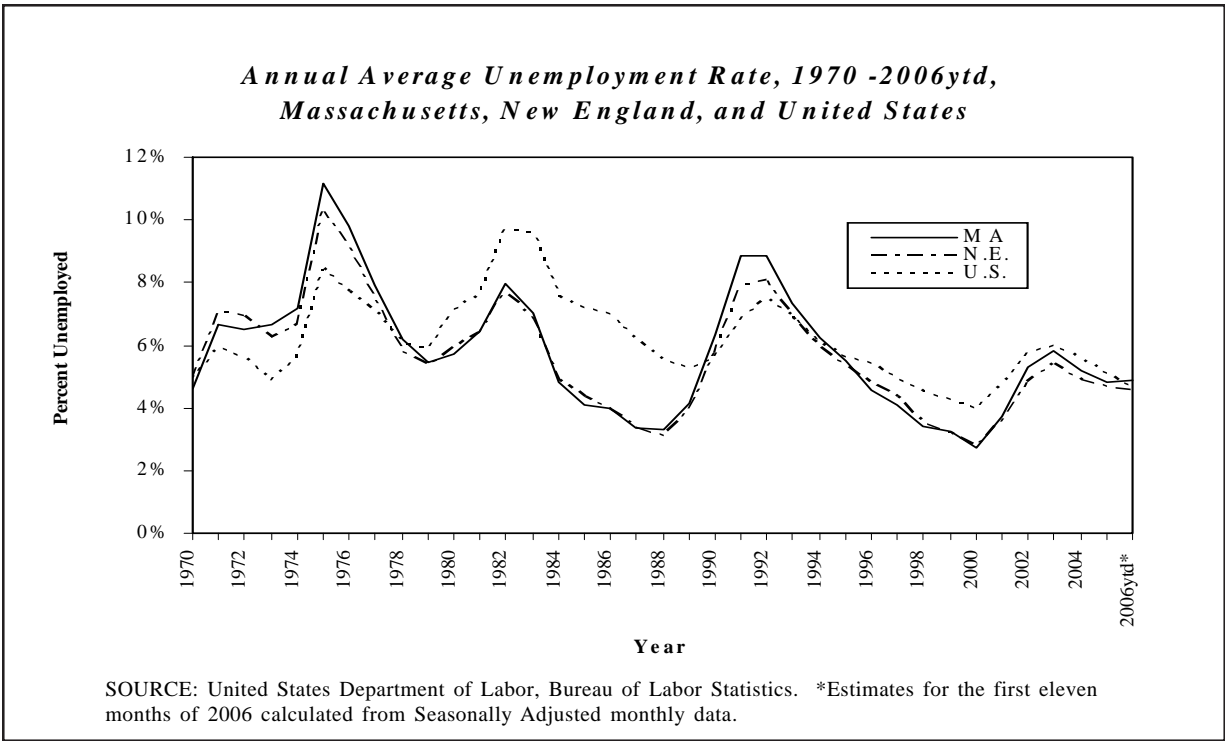
**Unemployment.** The economic recession of the early 1990s caused unemployment rates in Massachusetts to rise significantly above the national average, as much as 2.1 points above in 1991. However, from 1995 until the beginning of 2006 the unemployment rate in Massachusetts has been consistently below the national average. Since January, 2006 the state rate has been above the national rate in every month except July. 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 eleven months of 2006.

**Annual Average Civilian Labor Force and Unemployment, 1970 - 2006ytd**

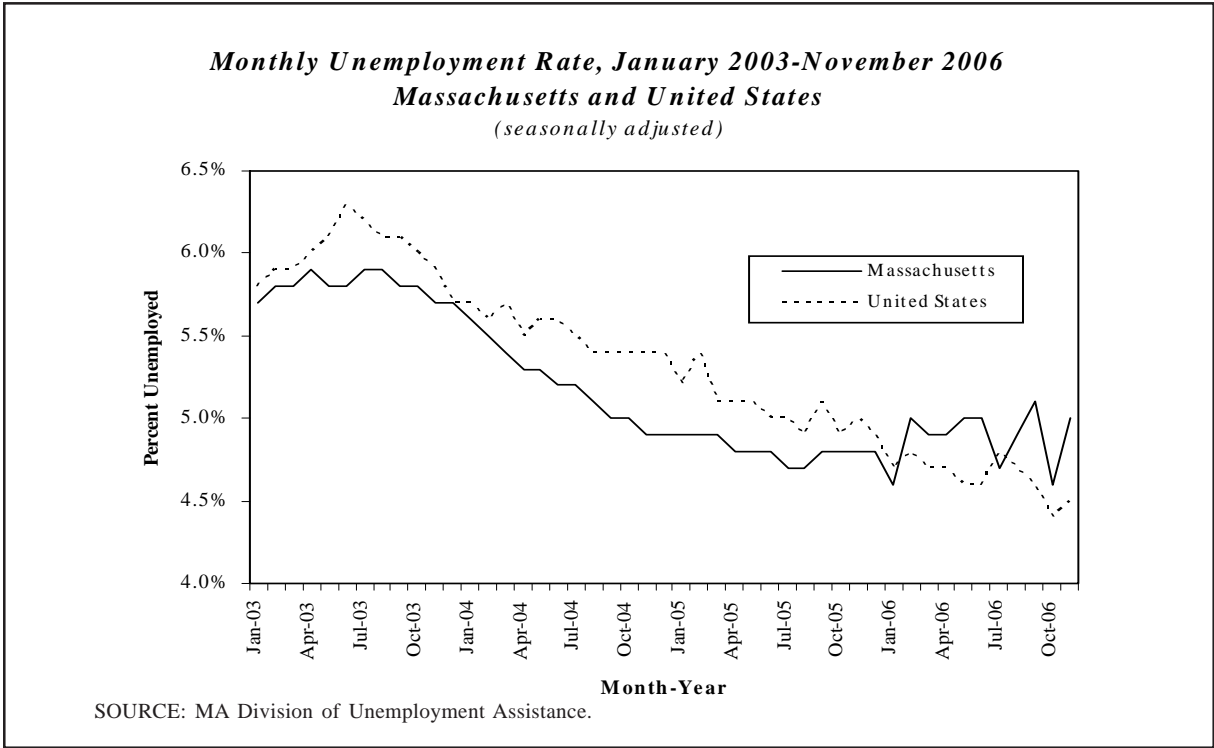
(in thousands)

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%
2006ytd*	3,368	7,605	151,250	165	345	7,013	4.9%	4.5%	4.6%	105.3%

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



The unemployment rate in Massachusetts was consistently below the national average from mid-1995 to January, 2006, with the exception of December, 2003, when the two rates were equal. The two rates generally showed similar patterns of decline from their mid-2003 peaks through late in 2005 when the rates became very close. Both rates worsened in February, 2006, and the Massachusetts rate has now been higher than the U.S. rate for nine of the last ten months. The following graph illustrates the movement of the state and national unemployment rates over the past forty-seven months.



**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 November 30, 2006, the Massachusetts Unemployment Trust Fund had a balance of \$1.054 billion, of which the private contributory account portion was \$946 million. The Division of Unemployment Assistance's December 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 \$1.861 billion at the end of 2010.

## ECONOMIC BASE AND PERFORMANCE

According to the Bureau of Economic Analysis, Gross Domestic Product by State (GDP) is the value added in production by the labor and property located in a state. GDP 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 GDP, 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).

Real GDP 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 GDP and of quantity indexes with a base year of 2000 are derived by applying national implicit price deflators to the current-dollar GDP 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 GDP and of real GDP at more aggregated industry levels.

Between 1997 and 2005, gross state product in Massachusetts, New England and the sum of all states GDP grew approximately 46.9, 45.9 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 GDP grew approximately 27.8, 24.4 and 25.2 percent respectively in chained 2000 dollars. The Massachusetts economy is the largest in New England, contributing 47.5 percent to New England's total GDP, and thirteenth largest in the U.S., contributing 2.6 percent to the nation's total GDP.

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

*(millions of chained 2000 dollars)*

<i>Year</i>	<i>Massachusetts</i>		<i>New England</i>		<i>United States</i>	
	<i>GSP</i>	<i>Change from 1997</i>	<i>GSP</i>	<i>Change from 1997</i>	<i>GSP</i>	<i>Change from 1997</i>
<b>1997</b>	\$227,074		\$487,671		\$8,620,955	
<b>1998</b>	\$240,617	6.0%	\$511,374	4.9%	\$9,004,670	4.5%
<b>1999</b>	\$255,189	12.0%	\$531,902	8.9%	\$9,404,251	8.9%
<b>2000</b>	\$274,949	19.8%	\$565,835	15.3%	\$9,749,103	12.6%
<b>2001</b>	\$276,634	20.4%	\$570,313	16.0%	\$9,836,576	13.5%
<b>2002</b>	\$274,997	19.8%	\$568,750	15.8%	\$9,981,850	14.9%
<b>2003</b>	\$282,375	22.5%	\$581,648	18.0%	\$10,237,201	17.5%
<b>2004</b>	\$292,423	26.0%	\$605,270	22.1%	\$10,662,196	21.6%
<b>2005</b>	\$297,489	27.8%	\$619,138	24.4%	\$11,041,471	25.2%

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

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

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

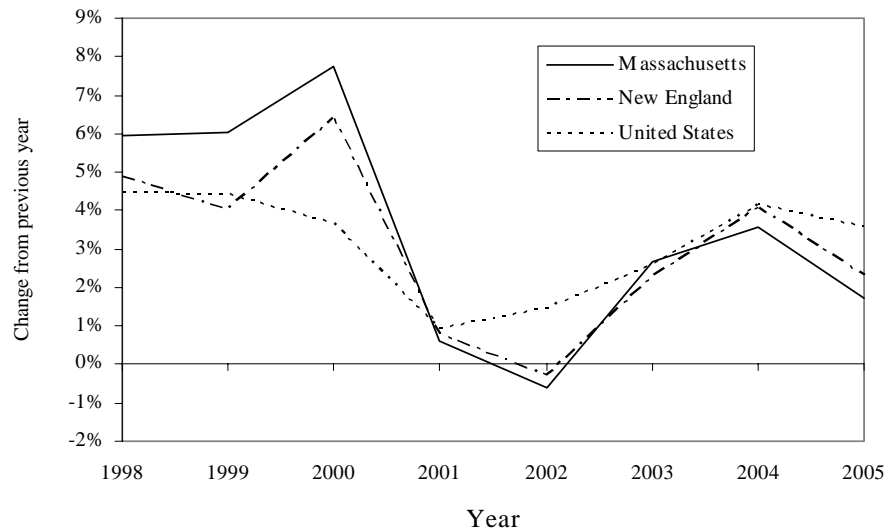
(millions of chained 2000 dollars)

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	\$297,489	1.7%	\$619,138	2.3%	\$11,041,471	3.6%

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

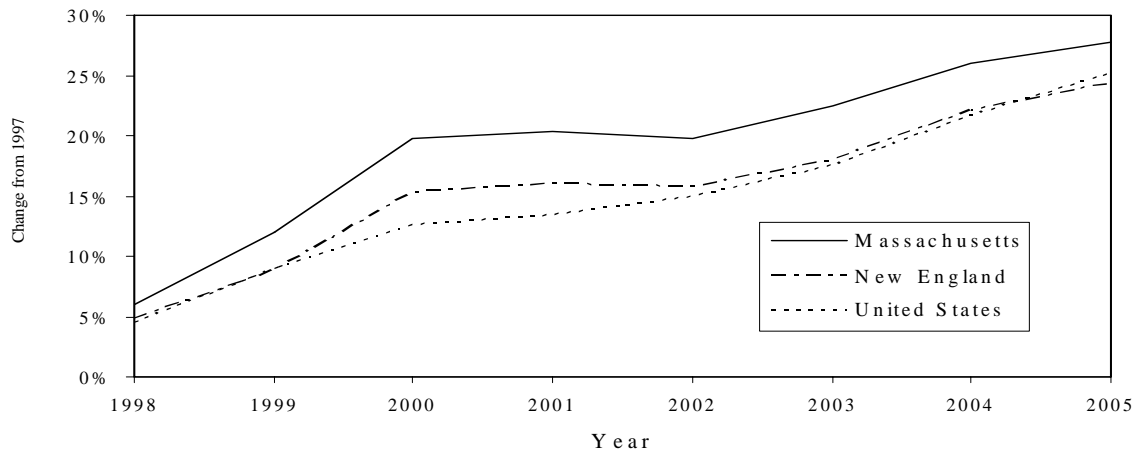
**Annual Percent Change in Gross Domestic Product, 1997-2005**

(chained 2000 dollars)



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

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



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

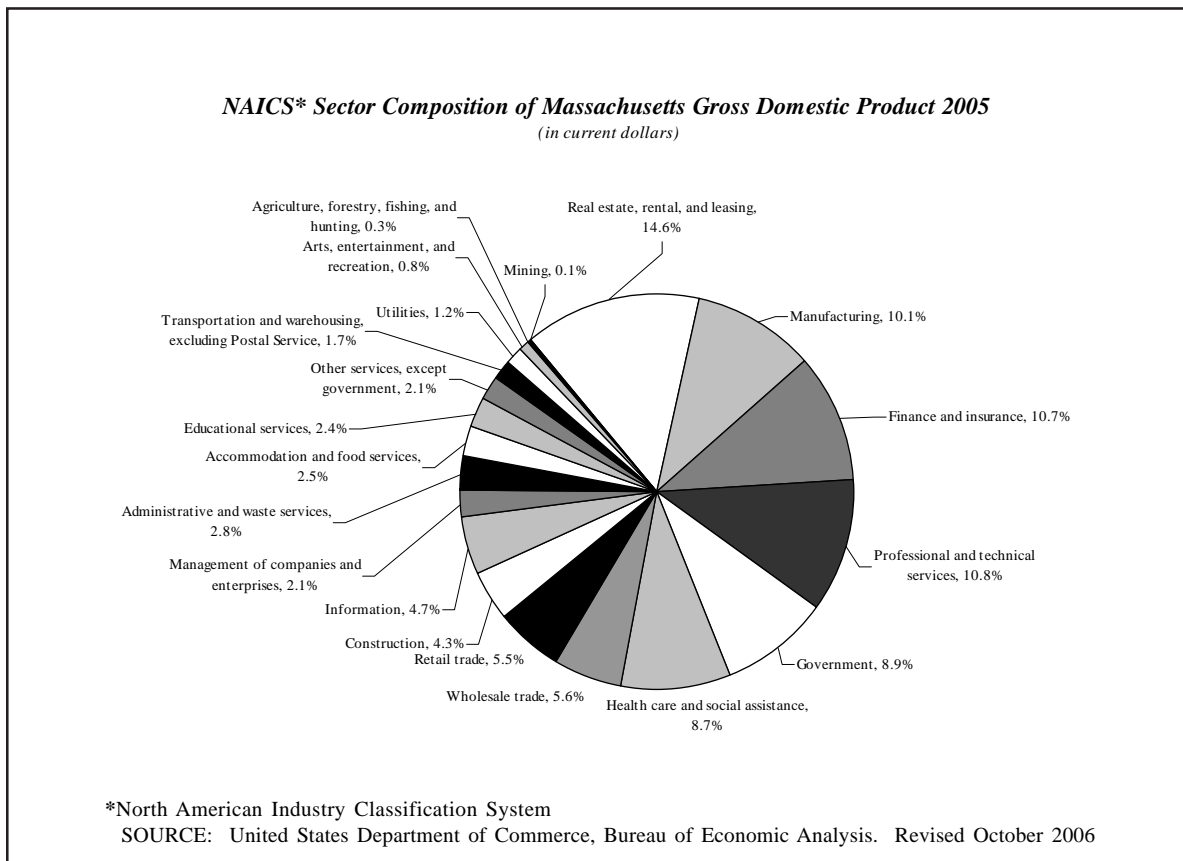
**Massachusetts Companies in the 2006 Fortune 500 and 1000 Lists**

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 46.2 percent of the GDP in 2005. The following pie chart displays the latest sector contributions to the Massachusetts GDP.



When measured in chained 2000 dollars, the cumulative change in Massachusetts total GDP was 27.8 percent between 1997 and 2005. Between 1997 and 2004 (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 apparel manufacturing, paper manufacturing, textile and textile product mills sectors. Industry subsectors that experienced substantial cumulative growth or reduction 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 Domestic Product by Industry in Massachusetts, 1997-2005**  
(millions of chained 2000 dollars)

NAICS* Industry Sector	1997	1999	2000	2001	2002	2003	2004	2005
Total Gross Domestic Product by State	\$227,074	\$255,189	\$274,949	\$276,634	\$274,997	\$282,375	\$292,423	\$297,489
Private industries	204,714	231,945	251,645	253,140	251,272	258,809	268,860	273,822
Agriculture, forestry, fishing, and hunting	442	469	540	587	668	709	747	859
Mining	67	109	124	141	139	152	148	135
Utilities	3,319	3,218	3,453	3,162	3,137	3,539	3,576	3,500
Construction	10,193	10,995	11,159	11,850	11,412	10,717	10,750	10,565
Manufacturing	24,737	30,126	37,204	35,011	35,376	38,282	37,405	39,056
Wholesale trade	14,359	17,749	16,173	17,819	17,214	17,783	18,320	17,297
Retail trade	12,130	13,650	14,519	15,713	15,997	16,545	17,578	17,744
Transportation and warehousing, excluding Postal Service	4,352	4,766	5,172	5,063	4,915	4,928	4,967	5,039
Information	9,764	12,083	13,017	13,710	13,676	13,455	14,921	16,098
Finance and insurance	21,589	26,693	29,915	29,890	29,781	31,898	32,842	31,937
Real estate, rental, and leasing	32,268	34,129	35,587	37,683	37,379	38,170	40,772	41,393
Professional and technical services	20,551	24,648	28,560	28,572	27,397	27,663	30,388	32,379
Management of companies and enterprises	6,985	6,870	7,506	6,152	5,673	5,724	5,933	5,951
Administrative and waste services	7,646	8,252	8,382	7,400	7,042	7,307	7,618	8,040
Educational services	5,575	5,591	5,915	5,851	5,978	5,927	5,930	5,801
Health care and social assistance	19,716	19,496	20,363	20,484	21,179	21,905	22,429	23,560
Arts, entertainment, and recreation	1,796	1,906	1,911	2,023	2,152	2,222	2,264	2,291
Accommodation and food services	5,555	6,251	6,594	6,510	6,556	6,713	6,881	7,030
Other services, except government	4,943	5,307	5,549	5,477	5,570	5,538	5,544	5,626
Government	22,491	23,272	23,304	23,493	23,710	23,602	23,676	23,687

\* North American Industry Classification System

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

**Cumulative Percent Change in GDP by Industry in Massachusetts, 1997-2005**  
(millions of chained 2000 dollars)

NAICS* Industry Sector	1997 to	1998	2000	2001	2002	2003	2004	2005
Total Gross State Product		6.0%	19.8%	20.4%	19.8%	22.5%	26.0%	27.8%
Private industries		6.5%	21.4%	22.0%	21.2%	24.2%	28.1%	30.0%
Agriculture, forestry, fishing, and hunting		-12.9%	24.1%	32.8%	46.6%	52.7%	58.1%	73.1%
Mining		31.3%	69.0%	82.7%	81.3%	90.6%	88.0%	79.2%
Utilities		0.8%	4.3%	-4.1%	-4.9%	7.9%	8.9%	6.8%
Construction		4.4%	9.2%	15.4%	11.7%	5.6%	5.9%	4.2%
Manufacturing		12.8%	44.3%	38.4%	39.4%	47.6%	45.3%	49.7%
Wholesale trade		12.7%	13.5%	23.7%	20.3%	23.6%	26.6%	21.0%
Retail trade		5.3%	18.5%	26.8%	28.6%	32.0%	38.2%	39.2%
Transportation and warehousing, excluding Postal Service		4.7%	17.8%	15.7%	12.8%	13.0%	13.8%	15.3%
Information		6.2%	30.5%	35.8%	35.5%	33.9%	44.8%	52.7%
Finance and insurance		11.1%	34.5%	34.4%	34.0%	41.1%	44.1%	41.3%
Real estate, rental, and leasing		1.7%	10.0%	15.9%	15.1%	17.2%	24.0%	25.5%
Professional and technical services		9.6%	34.9%	34.9%	30.8%	31.8%	41.7%	48.2%
Management of companies and enterprises		-2.8%	7.6%	-10.4%	-18.2%	-17.3%	-13.6%	-13.3%
Administrative and waste services		5.5%	9.4%	-2.3%	-7.2%	-3.4%	0.8%	6.4%
Educational services		0.3%	6.1%	5.0%	7.2%	6.3%	6.4%	4.2%
Health care and social assistance		-0.7%	3.3%	3.9%	7.3%	10.7%	13.1%	18.2%
Arts, entertainment, and recreation		2.4%	6.3%	12.2%	18.5%	21.8%	23.7%	24.9%
Accommodation and food services		8.4%	17.7%	16.4%	17.1%	19.5%	22.0%	24.2%
Other services, except government		4.9%	11.8%	10.5%	12.2%	11.6%	11.7%	13.2%
Government		0.8%	3.6%	4.4%	5.3%	4.9%	5.2%	5.2%

\* North American Industry Classification System

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



**Gross Domestic Product by Industry in Massachusetts, 1997-2005**  
(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>	<b>2005</b>
Total Gross State Product	100.0%	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%	92.0%
Agriculture, forestry, fishing, and hunting	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%
Mining	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%
Utilities	1.5%	1.3%	1.3%	1.1%	1.1%	1.3%	1.2%	1.2%
Construction	4.5%	4.3%	4.1%	4.3%	4.1%	3.8%	3.7%	3.6%
Manufacturing	10.9%	11.8%	13.5%	12.7%	12.9%	13.6%	12.8%	13.1%
Wholesale trade	6.3%	7.0%	5.9%	6.4%	6.3%	6.3%	6.3%	5.8%
Retail trade	5.3%	5.3%	5.3%	5.7%	5.8%	5.9%	6.0%	6.0%
Transportation and warehousing, excluding Postal Service	1.9%	1.9%	1.9%	1.8%	1.8%	1.7%	1.7%	1.7%
Information	4.3%	4.7%	4.7%	5.0%	5.0%	4.8%	5.1%	5.4%
Finance and insurance	9.5%	10.5%	10.9%	10.8%	10.8%	11.3%	11.2%	10.7%
Real estate, rental, and leasing	14.2%	13.4%	12.9%	13.6%	13.6%	13.5%	13.9%	13.9%
Professional and technical services	9.1%	9.7%	10.4%	10.3%	10.0%	9.8%	10.4%	10.9%
Management of companies and enterprises	3.1%	2.7%	2.7%	2.2%	2.1%	2.0%	2.0%	2.0%
Administrative and waste services	3.4%	3.2%	3.0%	2.7%	2.6%	2.6%	2.6%	2.7%
Educational services	2.5%	2.2%	2.2%	2.1%	2.2%	2.1%	2.0%	1.9%
Health care and social assistance	8.7%	7.6%	7.4%	7.4%	7.7%	7.8%	7.7%	7.9%
Arts, entertainment, and recreation	0.8%	0.7%	0.7%	0.7%	0.8%	0.8%	0.8%	0.8%
Accommodation and food services	2.4%	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%	1.9%
Government	9.9%	9.1%	8.5%	8.5%	8.6%	8.4%	8.1%	8.0%

\* North American Industry Classification System

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

1998 data omitted due to space constraints

**Rank of Industry Contribution to GDP in Massachusetts, 1997-2005**  
(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>	<b>2005</b>
Total Gross State Product								
Private industries								
Agriculture, forestry, fishing, and hunting	19	19	19	19	19	19	19	19
Mining	20	20	20	20	20	20	20	20
Utilities	17	17	17	17	17	17	17	17
Construction	9	10	10	10	10	10	10	10
Manufacturing	2	2	1	2	2	1	2	2
Wholesale trade	7	7	7	7	7	7	7	8
Retail trade	8	8	8	8	8	8	8	7
Transportation and warehousing, excluding Postal Service	16	16	16	16	16	16	16	16
Information	10	9	9	9	9	9	9	9
Finance and insurance	4	3	3	3	3	3	3	4
Real estate, rental, and leasing	1	1	2	1	1	2	1	1
Professional and technical services	5	4	4	4	4	4	4	3
Management of companies and enterprises	12	12	12	13	14	14	13	13
Administrative and waste services	11	11	11	11	11	11	11	11
Educational services	13	14	14	14	13	13	14	14
Health care and social assistance	6	6	6	6	6	6	6	6
Arts, entertainment, and recreation	18	18	18	18	18	18	18	18
Accommodation and food services	14	13	13	12	12	12	12	12
Other services, except government	15	15	15	15	15	15	15	15
Government	3	5	5	5	5	5	5	5

\* North American Industry Classification System

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

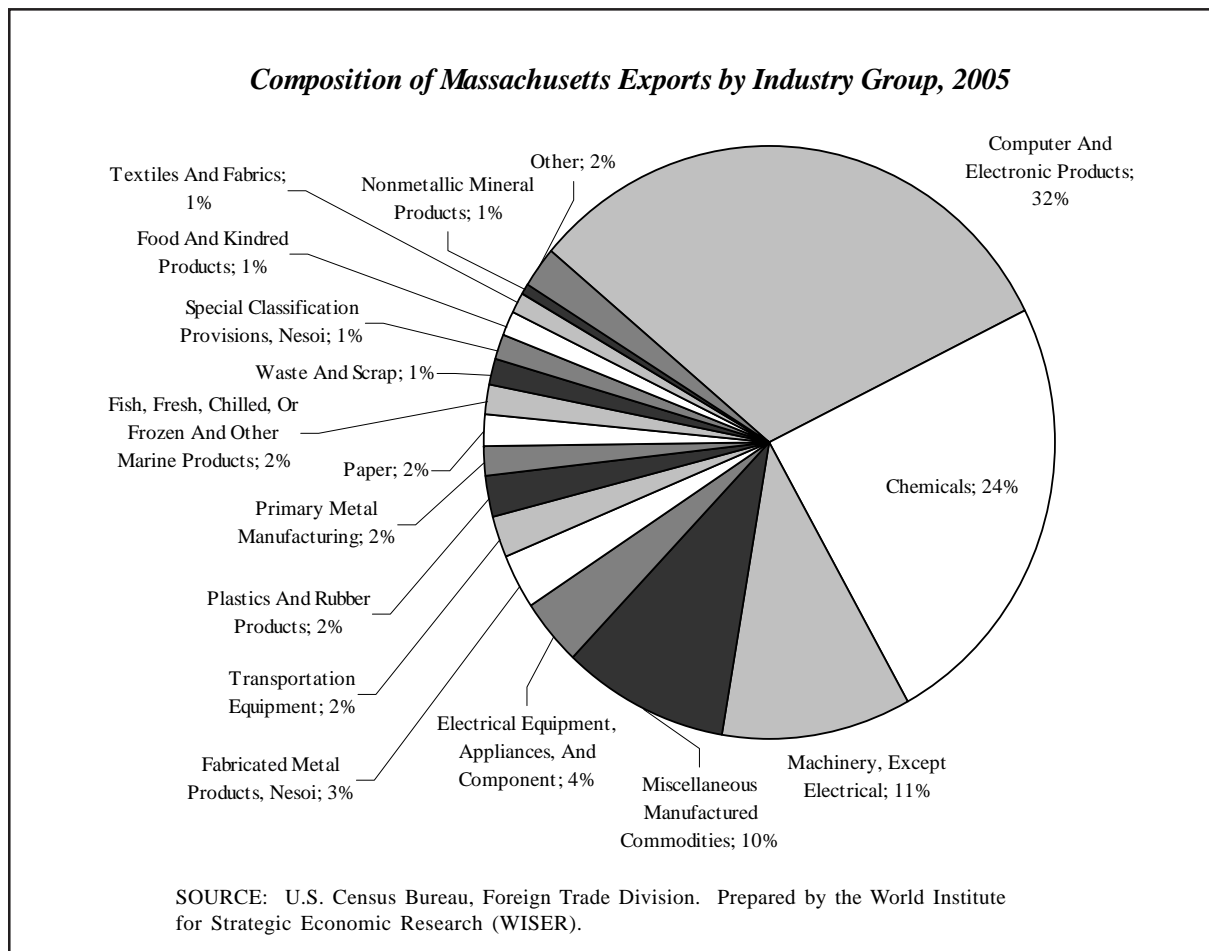
1998 data omitted due to space constraints

Between 1997 and 2005, the portion of the total GDP in chained 2000 dollars, from the private industry sector increased 1.9 percent and it decreased 1.9 percent in the government sector. Contributions by each industry to total GDP have remained steady for most sectors. The exceptions were professional and technical services, up 1.8 percent and manufacturing, up 2.2 percent. When the 1997 to 2005 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 October 2006, Massachusetts's exports totaled \$19.9 billion, an increase of 9.5 percent compared with exports in the first ten months of 2005. National exports were up 14.8 percent and New England, 12.6 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)

<b>Major Industry Group</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
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
<b>Total Exports, Top Massachusetts Industries</b>	<b>\$14,065</b>	<b>\$15,098</b>	<b>\$18,722</b>	<b>\$15,679</b>	<b>\$15,002</b>	<b>\$16,812</b>	<b>\$19,784</b>	<b>\$19,911</b>
<b>Total Massachusetts Exports</b>	<b>\$15,878</b>	<b>\$16,805</b>	<b>\$20,514</b>	<b>\$17,490</b>	<b>\$16,708</b>	<b>\$18,663</b>	<b>\$21,837</b>	<b>\$22,043</b>
<b>Percent Change from Prior Year</b>	<b>-3.9%</b>	<b>5.8%</b>	<b>22.1%</b>	<b>-14.7%</b>	<b>-4.5%</b>	<b>11.7%</b>	<b>17.0%</b>	<b>0.9%</b>

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.** Transportation and Warehousing, and Utilities. Between 1997 and 2005, the combined real gross state product of the transportation and warehousing and utilities sector increased 11.3 percent when measured with year 2000 chained dollars. These combined sectors contributed 2.9 percent to the total Massachusetts Real Gross State Product in 2005, 0.5 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 2006 operating income of \$43.8 million, up 9.8 percent from fiscal 2005, operating revenues up 8.0 percent, \$497.6 million in 2006 versus \$460.6 million in 2005 and operating costs up 7.9 percent, \$453.8 million in 2006 versus \$420.6 million in 2005.

According to Massport, as of June 30, 2006, airline service at Logan, both scheduled and unscheduled, was provided by 74 airlines, including 6 U.S. major air carrier airlines, 29 other domestic carriers, 21 non-U.S. flag carriers, and 18 regional and commuter airlines. Based on total passenger volume in calendar year 2005 data, Logan Airport was the most active airport in New England but dropped from 18th in 2004 to 19th most active in the U.S. and 37th most active in the world according to the Federal Aviation Authority. Massport reported that as of September, year-to-date 2006, Logan flights and passenger counts were down 2.1 and up 1.7 percent respectively compared to the same period in 2005.

As of June 30, 2006, Logan was served by 11 all-cargo and small package/express carriers. According to the FAA, Logan Airport ranked 29th in the nation in total air cargo volume in calendar year 2005. In 2005, the airport handled 1.15 billion pounds of cargo, a 2.0 percent decrease from 2004. Massport reported that as of September, year-to-date 2006, the combined cargo and mail volume was down 8.5 percent from the same period in 2005. Please refer to the Aviation Activity charts on the following page.

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 17 percent to 233,702. From August 2005 to July 2006, total containerized cargo increased 8.5 percent, there were 23.4 percent more cruise passengers and 0.7 percent more automobiles processed, when compared to August 2004 to July 2005. The Army Corps of Engineers reported Massachusetts total waterborne cargo shipped or received in 2004, increased 3.7 percent to 31,787,000 short tons, from 2003. Waterborne cargo in New England and the U.S. increased 3.7 and 6.6 percent respectively. Please refer to the Waterborn Tonnage by State charts on the following page.

### *Aviation Activity for Massachusetts Primary Airports*

<i>Passenger Boardings</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>
General Edward Lawrence Logan International	13,613,507	11,739,553	11,077,238	11,087,799	12,758,020	13,214,923
Nantucket Memorial	296,451	272,460	253,422	229,300	243,313	252,757
Barnstable Municipal-Boardman/Polando Field	205,906	197,106	180,807	158,360	167,522	177,761
Worcester Regional	52,916	79,653	37,298	2,234	1,274	2,036
Laurence G Hanscom Field	82,204	71,381	40,419	19,375	17,049	13,887
Martha's Vineyard	71,150	65,374	59,500	53,011	49,480	48,977
New Bedford Regional	22,882	21,786	21,667	21,097	19,686	17,960
Provincetown Municipal	15,694	12,986	10,533	11,801	11,424	10,236
Total	14,360,710	12,460,299	11,680,884	11,582,977	13,267,768	13,738,537

<i>Cargo - Gross Landed Weight (lbs.)</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>
General Edward Lawrence Logan International	1,405,482,600	1,301,842,100	1,272,185,900	1,199,383,800	1,172,103,700	1,148,881,400

### *Change in Aviation Activity at Massachusetts Primary Airports*

<i>Passenger Boardings</i>	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>
General Edward Lawrence Logan International	-13.8%	-5.6%	0.1%	15.1%	3.6%
Nantucket Memorial	-8.1%	-7.0%	-9.5%	6.1%	3.9%
Barnstable Municipal-Boardman/Polando Field	-4.3%	-8.3%	-12.4%	5.8%	6.1%
Worcester Regional	50.5%	-53.2%	-94.0%	-43.0%	59.8%
Laurence G Hanscom Field	-13.2%	-43.4%	-52.1%	-12.0%	-18.5%
Martha's Vineyard	-8.1%	-9.0%	-10.9%	-6.7%	-1.0%
New Bedford Regional	-4.8%	-0.5%	-2.6%	-6.7%	-8.8%
Provincetown Municipal	-17.3%	-18.9%	12.0%	-3.2%	-10.4%
Total	-13.2%	-6.3%	-0.8%	14.5%	3.5%

<i>Cargo</i>	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005*</i>
General Edward Lawrence Logan International	-7.4%	-2.3%	-5.7%	-2.3%	-2.0%

SOURCE: Federal Aviation Administration

### *Waterborne Tonnage by State (In Units of 1000 Tons)*

<i>State</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>
U.S. total	2,424,596	2,386,558	2,340,292	2,394,199	2,551,939
Maine	31,769	30,586	29,140	31,698	32,447
Massachusetts	26,973	26,446	26,117	30,655	31,787
Connecticut	18,959	18,267	17,610	18,579	20,075
Rhode Island	9,089	9,170	8,437	9,417	9,764
New Hampshire	4,462	4,447	4,108	4,971	4,795
Vermont	0	0	0	0	0
New England	91,252	88,916	85,412	95,320	98,868

### *Waterborne Tonnage by State - Percent Change from Previous Year*

<i>State</i>	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>
U.S. total	-1.6%	-1.9%	2.3%	6.6%
Maine	-3.7%	-4.7%	8.8%	2.4%
Massachusetts	-2.0%	-1.2%	17.4%	3.7%
Connecticut	-3.6%	-3.6%	5.5%	8.1%
Rhode Island	0.9%	-8.0%	11.6%	3.7%
New Hampshire	-0.3%	-7.6%	21.0%	-3.5%
Vermont	0	0	0	0
New England	-2.6%	-3.9%	11.6%	3.7%

SOURCE: Army Corps of Engineers, Waterborne Commerce Statistics Center (WCSC).

**Construction and Housing.** Construction and Housing. In 2005, construction activity contributed 3.6 percent to the total Massachusetts Gross Domestic Product (GDP) 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 3.6 percent.

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

### *Housing Permits Authorized, 1969-2005*

<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>	18,967	0.0%	47,632	0.6%	1,663,533	2.7%
<b>2000</b>	18,000	-5.1%	45,335	-4.8%	1,592,267	-4.3%
<b>2001</b>	17,034	-5.4%	44,594	-1.6%	1,636,676	2.8%
<b>2002</b>	17,465	2.5%	49,031	9.9%	1,747,678	6.8%
<b>2003</b>	20,257	16.0%	52,395	6.9%	1,889,214	8.1%
<b>2004</b>	22,477	11.0%	51,858	-1.0%	2,070,077	9.6%
<b>2005</b>	24,549	9.2%	58,742	13.3%	2,155,316	4.1%

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 but surged 32.5% in 2002 and 19.8% in 2004 but preliminary data for the third quarter of 2006 indicate the largest decline in Massachusetts since 1990 and the largest decline in the U.S. since 1982. On a seasonally adjusted annual basis, existing home sales for the Commonwealth, New England, and the United States appear in the following table.

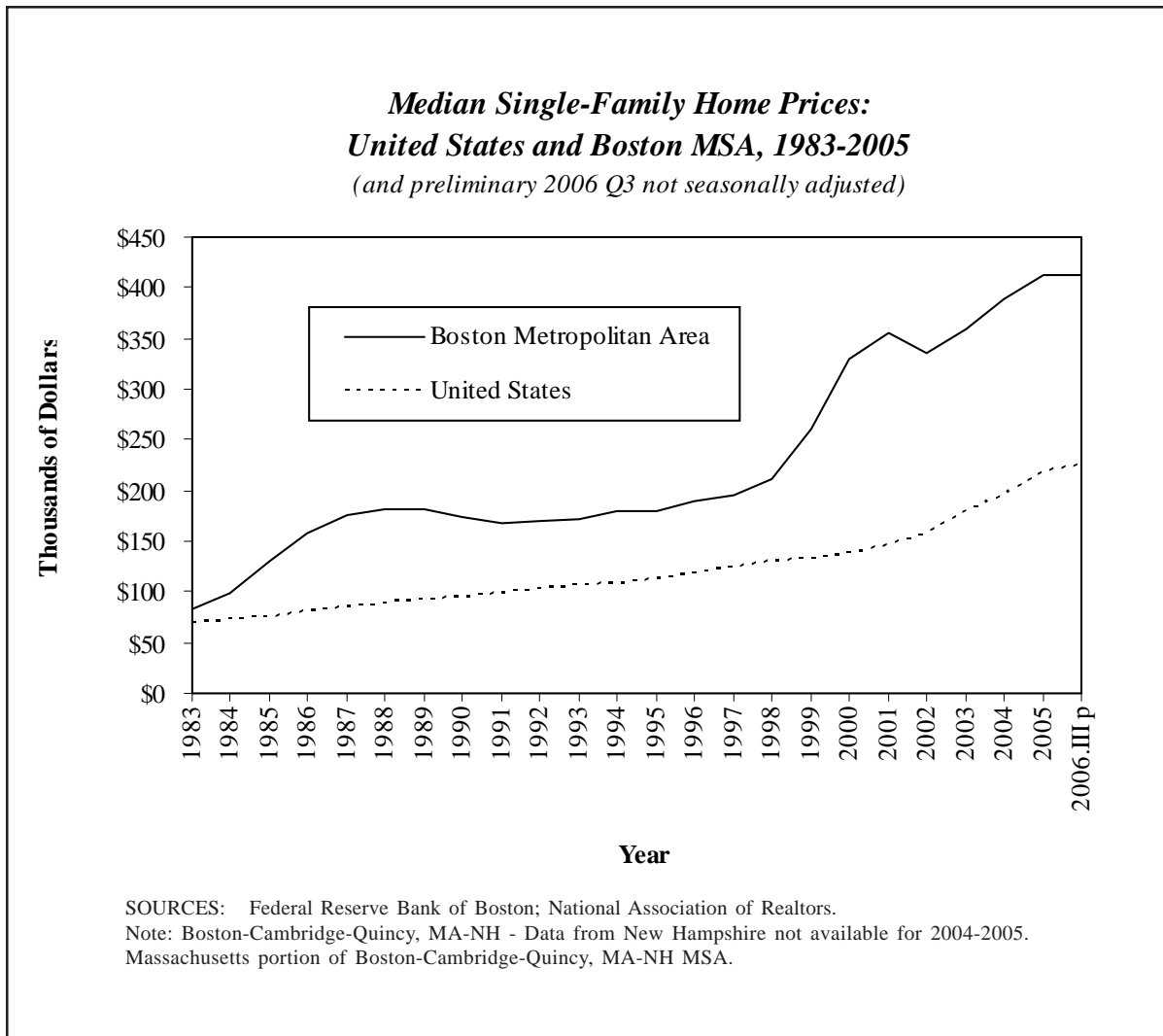
**Existing Home Sales, 1981-2006 3rd Quarter**

*(seasonally adjusted annual rates, in thousands)*

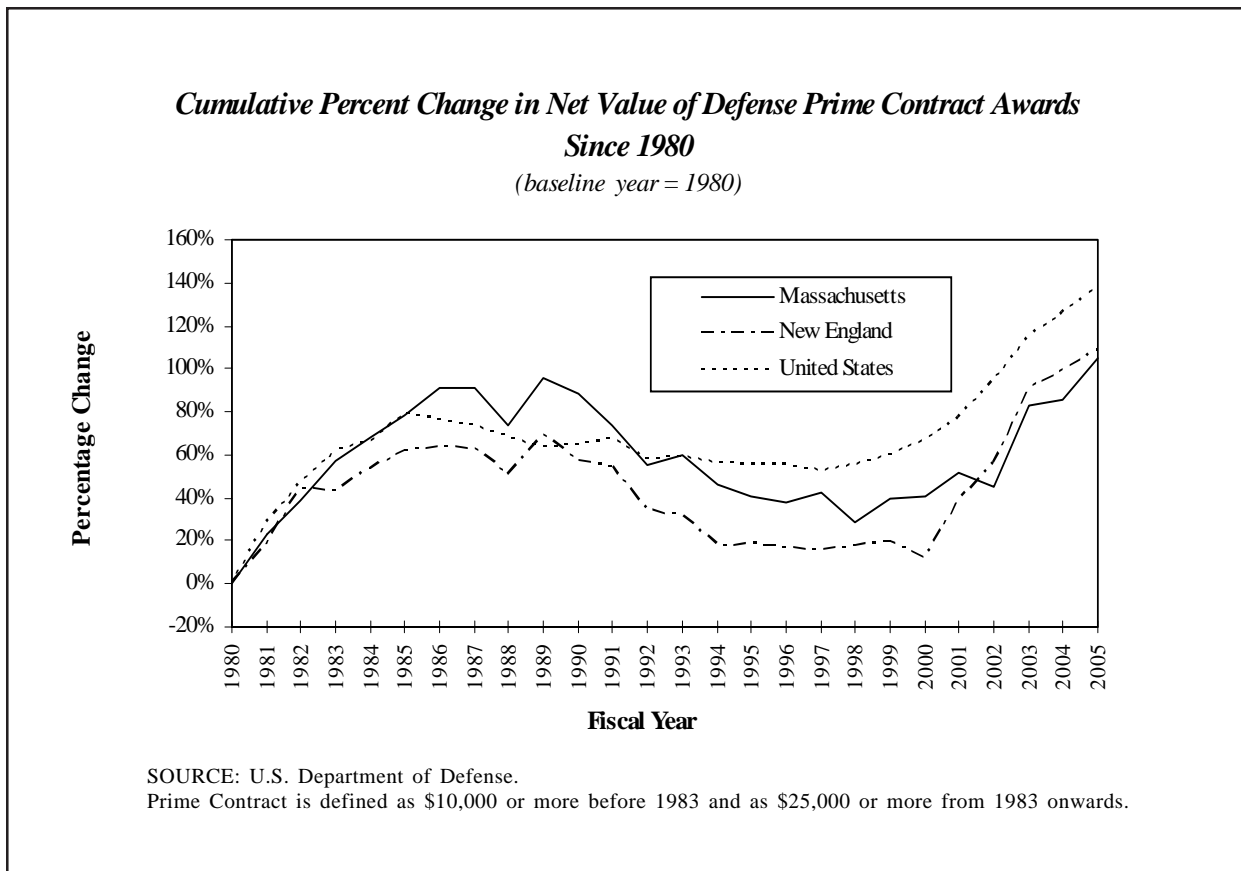
Year	Massachusetts		United States	
	Sales	% Change	Sales	% Change
1981	43.0		2,575.0	
1982	42.6	-0.8%	2,117.5	-17.8%
1983	59.2	39.0%	2,875.0	35.8%
1984	54.9	-7.3%	3,027.5	5.3%
1985	60.2	9.7%	3,382.5	11.7%
1986	67.0	11.3%	3,772.5	11.5%
1987	76.4	14.1%	3,767.5	-0.1%
1988	76.6	0.2%	3,882.5	3.1%
1989	68.2	-10.9%	3,672.0	-5.4%
1990	48.6	-28.8%	3,603.5	-1.9%
1991	53.4	10.0%	3,533.3	-1.9%
1992	62.5	17.0%	3,889.5	10.1%
1993	70.9	13.4%	4,220.3	8.5%
1994	71.4	0.7%	4,409.8	4.5%
1995	69.6	-2.6%	4,342.3	-1.5%
1996	81.2	16.6%	4,705.3	8.4%
1997	90.1	11.0%	4,908.8	4.3%
1998	99.9	10.8%	5,585.3	13.8%
1999	98.5	-1.3%	5,922.8	6.0%
2000	88.7	-10.0%	5,831.8	-1.5%
2001	87.5	-1.4%	6,026.3	3.3%
2002	115.9	32.5%	5,631.0	-6.6%
2003	118.3	2.1%	6,175.0	9.7%
2004	141.7	19.8%	6,779.0	9.8%
2005	148.6	4.9%	7,075.0	4.4%
2006.III p	121.9	-18.0%	6,270.0	-11.4%

SOURCES: National Association of Realtors; Federal Reserve Bank of Boston.  
p = preliminary

Median single-family home prices for the Boston Metropolitan Statistical Area (MSA) and the U.S. from 1983 to the third quarter of 2006 are compared in the following graph. While the Boston area median was 118.1 percent of the U.S. median in 1983, by 1987 the Boston area median had reached 205.7 percent of the national median. After dipping to 160.9 percent of the median in 1993 and remaining as low as 162.9 percent in 1998, the Boston area median soared to 242.4 percent of the national median in 2001. The Boston MSA median home price rose to \$355,000 in 2001, compared to the national home price of \$146,000. The third quarter 2006 preliminary median prices were \$225,000 for the U.S. and \$412,000 for the Boston MSA. This was a 1.2 percent decrease for the U.S. and a 4.3 percent decrease for the Boston MSA, when compared to their third quarter 2005 prices. The Boston MSA prices reflect the current county-based MSA definition from the U.S. Office of Management and Budget; it consists of the five Massachusetts counties of the Boston-Cambridge-Quincy, MA-NH MSA and excludes the two New Hampshire counties.



**Defense.** The value of military prime contracts awarded to Massachusetts companies peaked in 1989 at \$8.8 billion and troughed in 1998 at \$4.3 billion. Massachusetts contract awards have increased every year since 1988 with the exception of 2002. The chart below illustrates the yearly changes in the value of Massachusetts military prime contracts from 1980 to 2005.



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 2005. 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 40.3 percent in 2005. In 2002, the Commonwealth's share of the national total reached its lowest point in over two decades, 3.1 percent, and has increased slightly to 3.5 percent in 2005. Despite this trend, Massachusetts remains the eighth largest recipient in defense spending.



**Net Value of Department of Defense Prime Contract Awards Since 1980**

*(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%

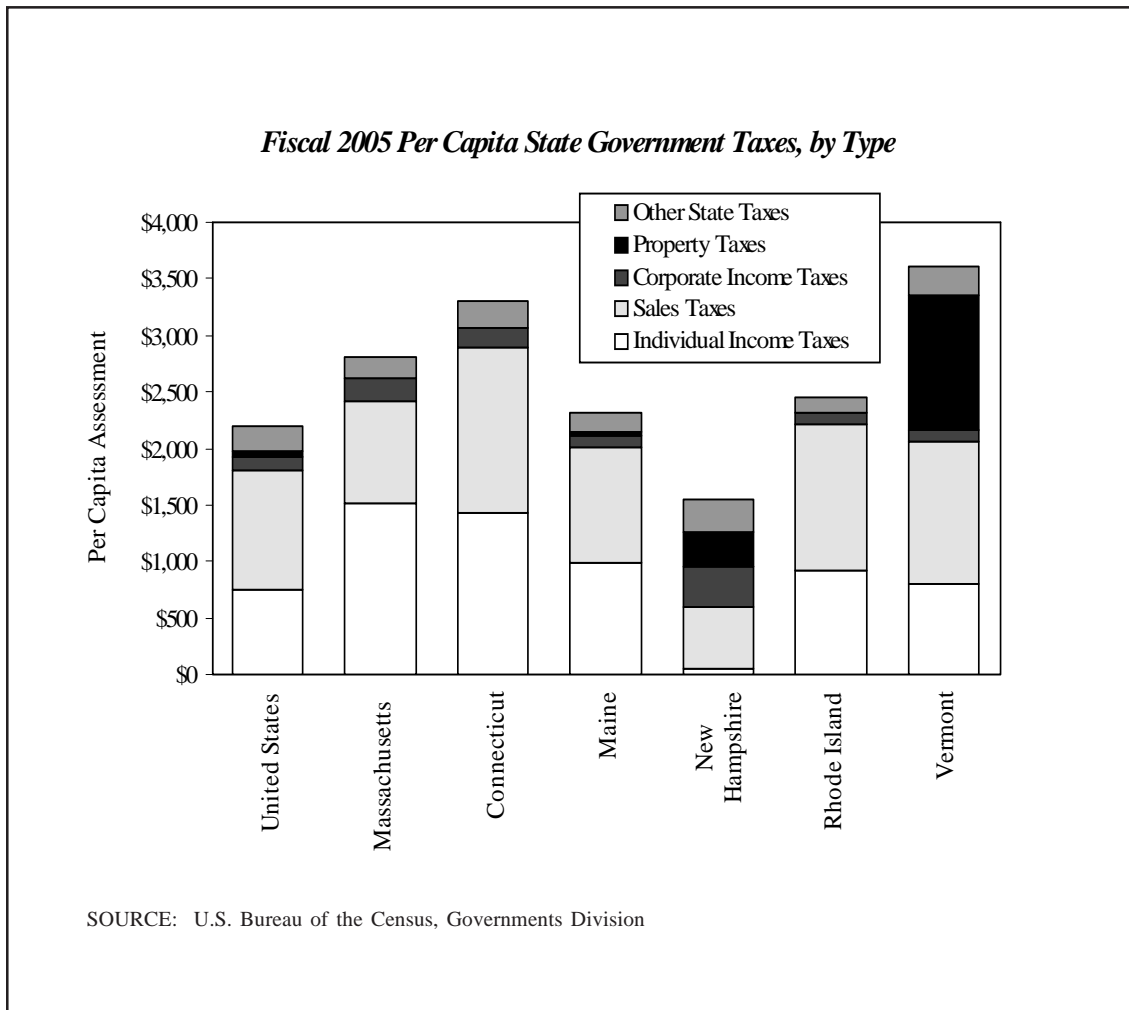
SOURCE: United States Department of Defense. \*Prime Contract is defined as \$10,000 and above for these years; beginning in 1983 it is defined as \$25,000 and above.

**Travel and Tourism.** The travel and tourism industry represents a important 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 increase, 0.8 percent, in museum and attraction attendance in October 2006 compared to October 2005. Year-to-date attendance, 10,170,567 thru October 2006 is up over 3.4 percent 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.

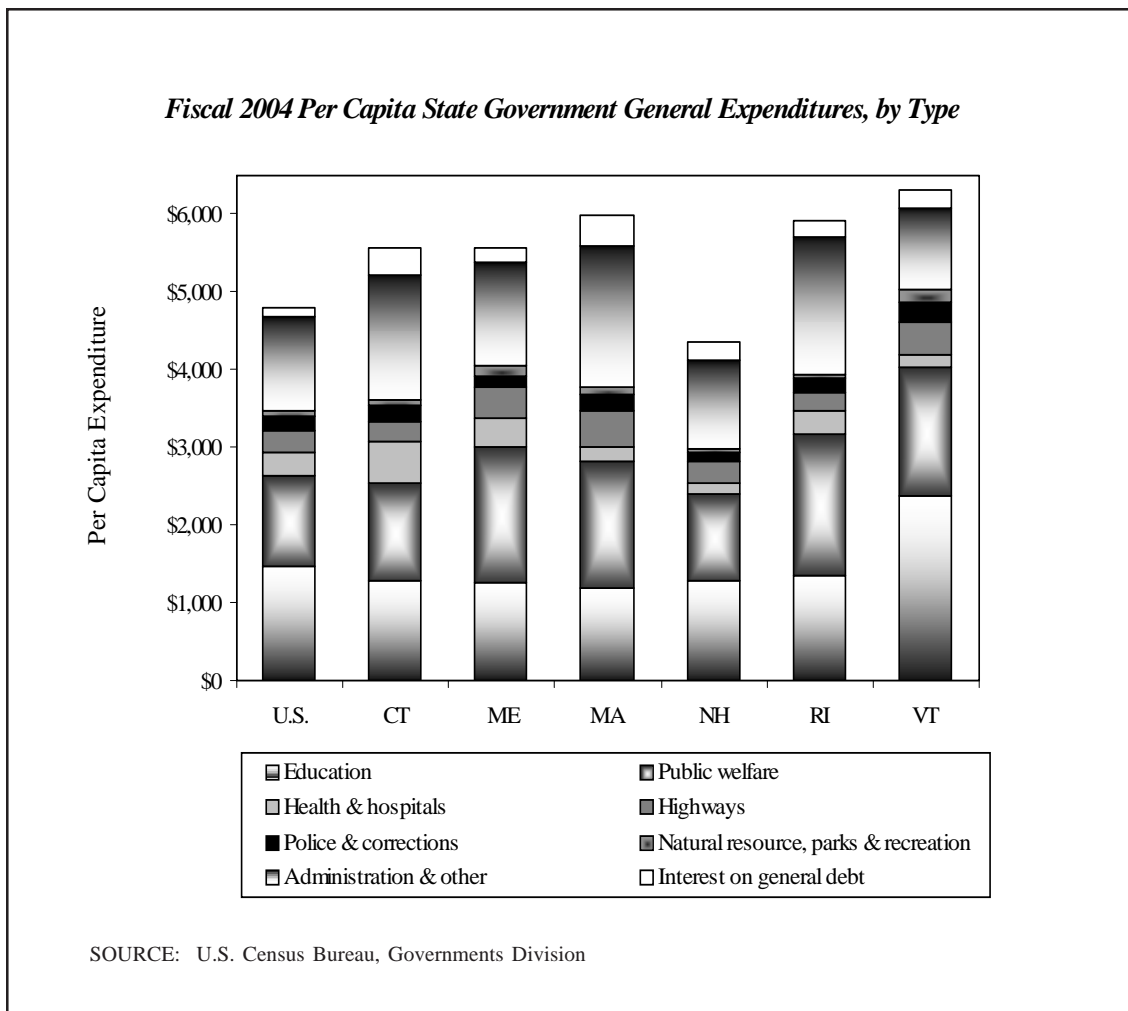
**State Taxes.** Per capita state taxes in Massachusetts are significantly higher, 28.4 percent, than the national average. In fiscal year 2005, the total per capita state tax bill in the United States was \$2,192. Citizens of the Commonwealth however, paid \$2,815 on average, the seventh highest in the nation and an increase of 8.2 percent from the previous year's \$2,602. In New England, citizens in Connecticut and Vermont paid more per capita, and all New England states except New Hampshire (48th), ranked in the top 19 for per capita state tax collections.

In fiscal year 2005, over half (53.8 percent) of the state taxes in Massachusetts came from the state income tax. Per capita individual income taxes in Massachusetts were \$1,514, up 10.0 percent from \$1,376 in fiscal year 2004. Also increasing in fiscal year 2005 were sales receipts, 6.2 percent, corporate net income, 2.7 percent, and other taxes (licenses, death and gift, and documentary and stock transfer) 9.7 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.

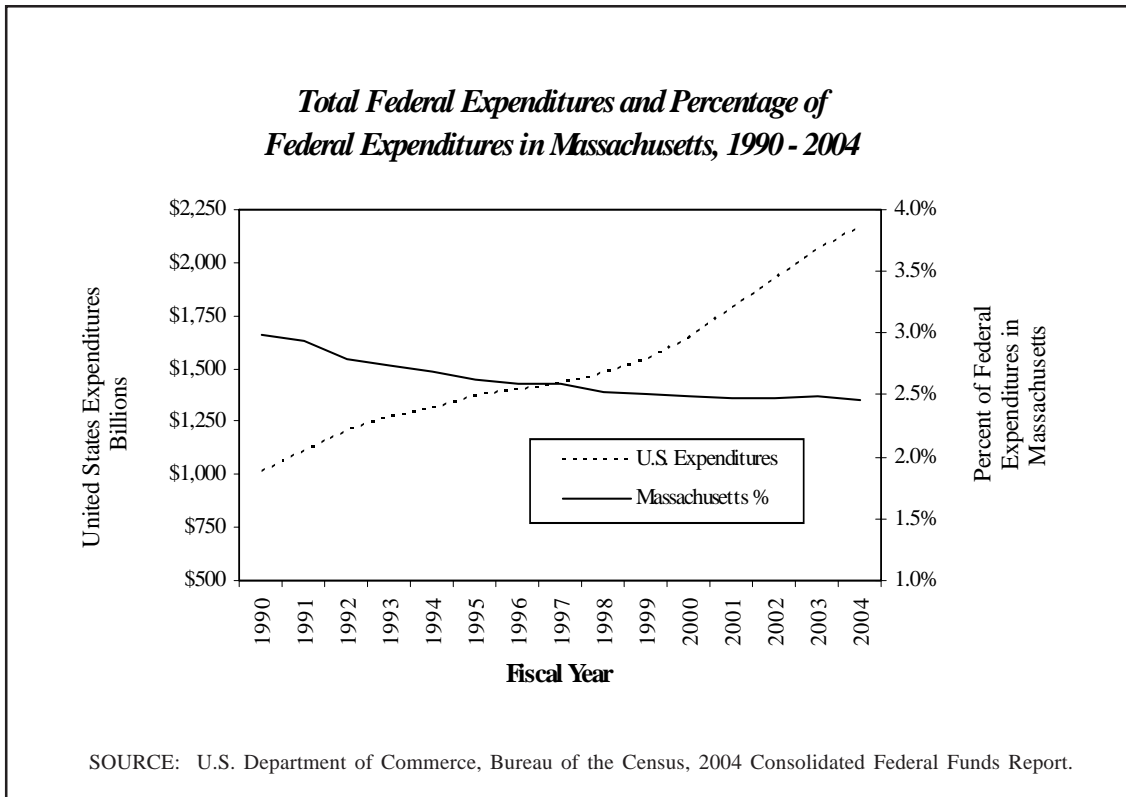


**State Government Spending in Massachusetts.** The following chart depicts fiscal 2004 per capita state general expenditures by category for the six New England states and the U.S. average state expenditure. Massachusetts ranked 7th in the nation in per capita expenditures (\$5,994) in 2004 while it ranked 16th and spent less (\$5,095) in 2003. This represents a 17.7 percent increase in per capita expenditures from 2003 to 2004.

Massachusetts spent more state funds per capita on highways (\$471), debt service (\$401) and parks (\$48) and less on education (\$1,183) in 2004 than any of its New England neighbors. Massachusetts spent 3.8 percent more on debt service and 12.2 percent more on education in 2004 than 2003. While all New England states used less than the national average of 27.7 percent for intergovernmental expenditures, the variation within the region is significant, with intergovernmental expenditures representing 13.6 percent of Rhode Island expenditures, 16.2 percent of Massachusetts expenditures, and 25.1 percent of Vermont expenditures in 2004.

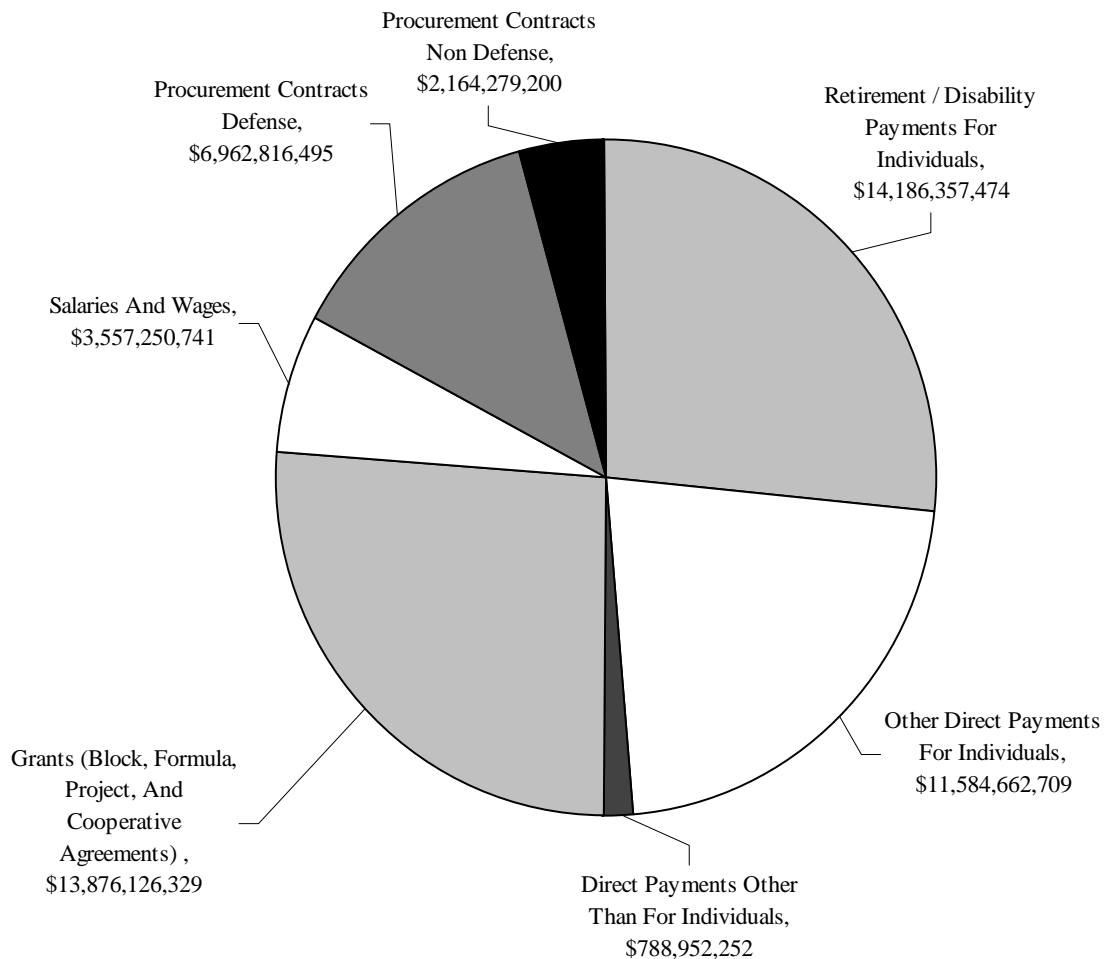


**Federal Government Spending in Massachusetts.** Federal government spending contributes significantly to the Massachusetts economy. In fiscal 2004, Massachusetts ranked twelfth among states in per capita distribution of federal funds, with total spending of \$8,279 per person, excluding loans and insurance. 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.



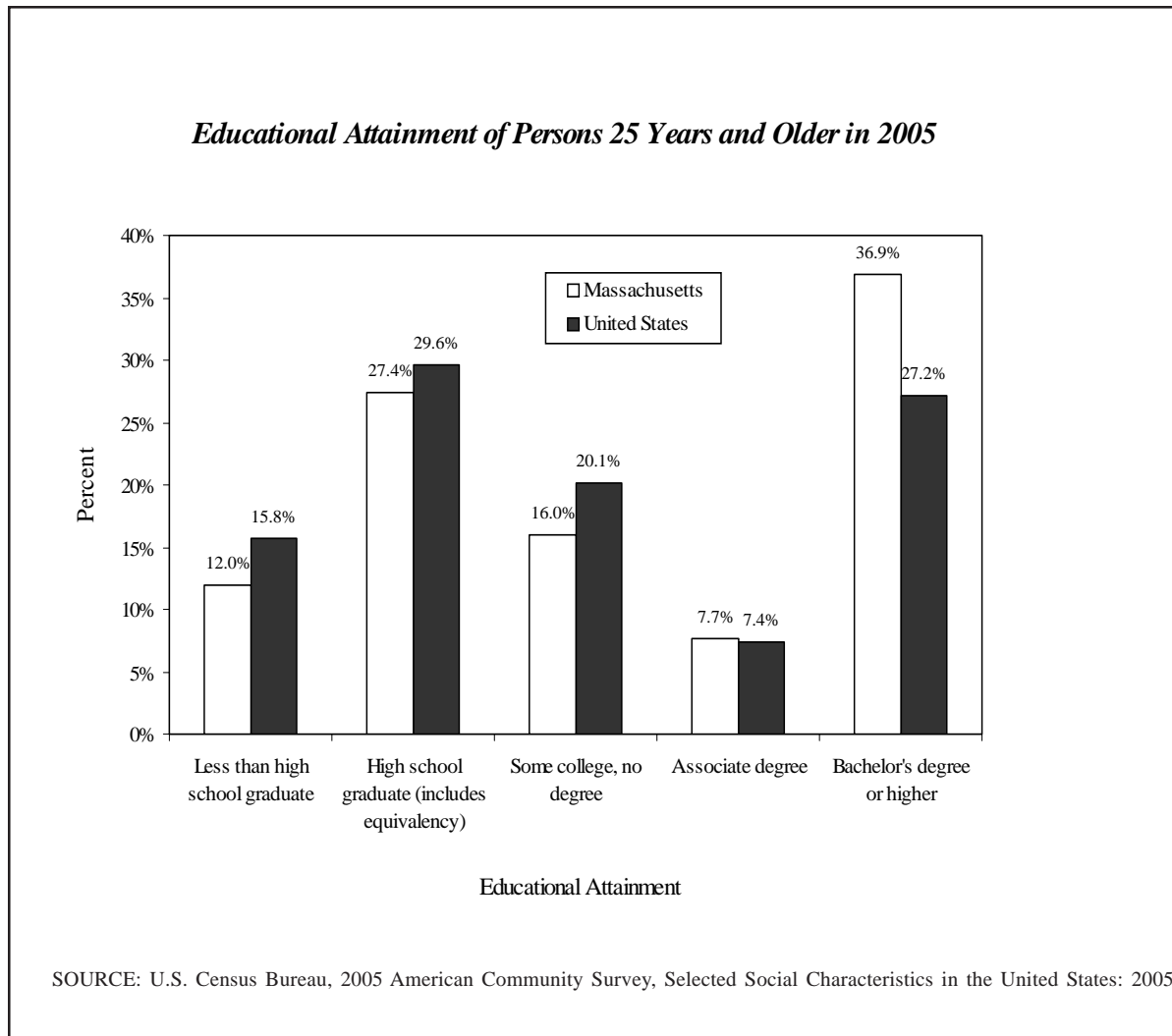
Over half of FY 2004 federal spending in Massachusetts was composed of health care and social programs like Medicare, Medicaid, Social Security, unemployment benefits and Section 8 Housing Vouchers. Massachusetts was above the national average in per capita federal grants to state and local governments, 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**

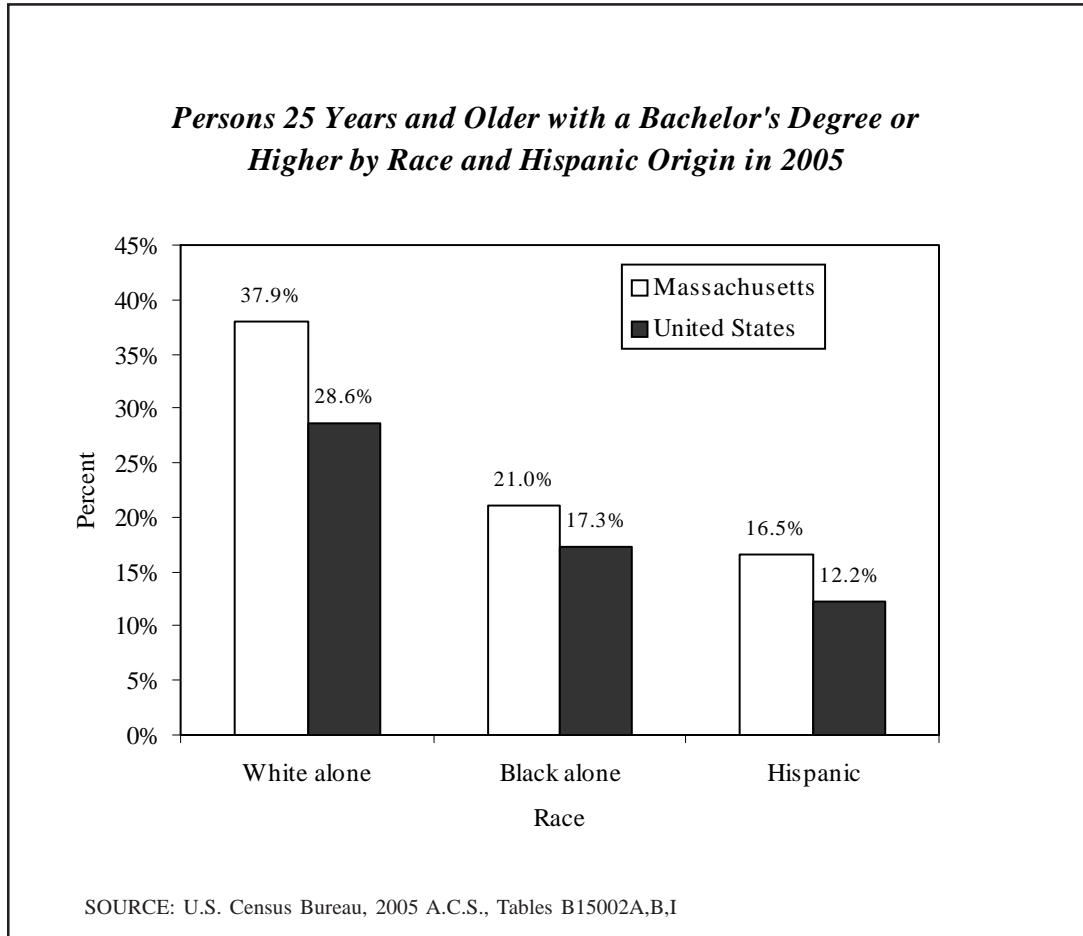


SOURCE: U.S. Census Bureau, Consolidated Federal Funds Report: FY 2004

**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 2005, the Census's American Community Survey (ACS) reported that Massachusetts had a smaller proportion of persons who had not completed high school (12.0 percent) than the national average (15.8 percent) and a much higher proportion of persons with a bachelor's degree or more (36.9 percent) than the nation (27.2 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 (2003)	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 439,539 students in undergraduate, professional and graduate programs in the 2004/2005 school year, according to data supplied by the Institute of International Education (IIE). According to IIE, 27,985 foreign students were enrolled in Massachusetts colleges and universities in the 2004/2005 school year. This was a 2.3 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 187,519 students in 2004, 45 percent of whom attended part-time. In addition, Massachusetts has a system of private higher education that accounted for 57 percent of total enrollment in Massachusetts in 2004. More than a fifth of the students attending private institutions were enrolled 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 1,481 science and engineering doctorates awarded in 2004, 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 2003, with 5,986.

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 (\$2 billion) of total national academic expenditures on R&D in fiscal 2004. 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 \$1.25 billion in total fiscal 2003 federal outlays for science and engineering research to universities and colleges in Massachusetts (and their affiliated federally funded research and development centers), 59.6 percent was from the Department of Health and Human Services, 18.0 percent was from the National Science Foundation, 10.4 percent from the Department of Defense, 5.9 percent was from the Department of Energy, and 4.4 percent was from the National Aeronautics and Space Administration. Massachusetts ranked 4th in the nation in 2003 in total federal outlays for research and development, with total federal spending of \$5.16 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 29 percent more per pupil on primary and secondary education than the national average since at least 1981. During the 2003-2004 school year, Massachusetts increased per student expenditures to \$10,693; 29 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)*

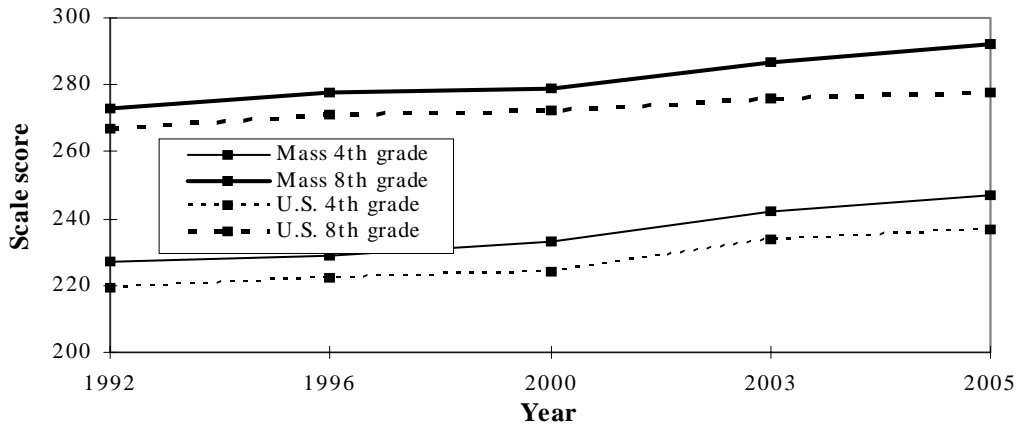
<i>Fiscal Year</i>	<i>Massachusetts</i>	<i>United States</i>	<i>Ratio (MA/U.S.)</i>
<b>1981</b>	\$2,735	\$2,307	1.19
<b>1982</b>	2,823	2,525	1.12
<b>1983</b>	3,072	2,736	1.12
<b>1984</b>	3,298	2,940	1.12
<b>1985</b>	3,653	3,222	1.13
<b>1986</b>	4,031	3,479	1.16
<b>1987</b>	4,491	3,682	1.22
<b>1988</b>	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.

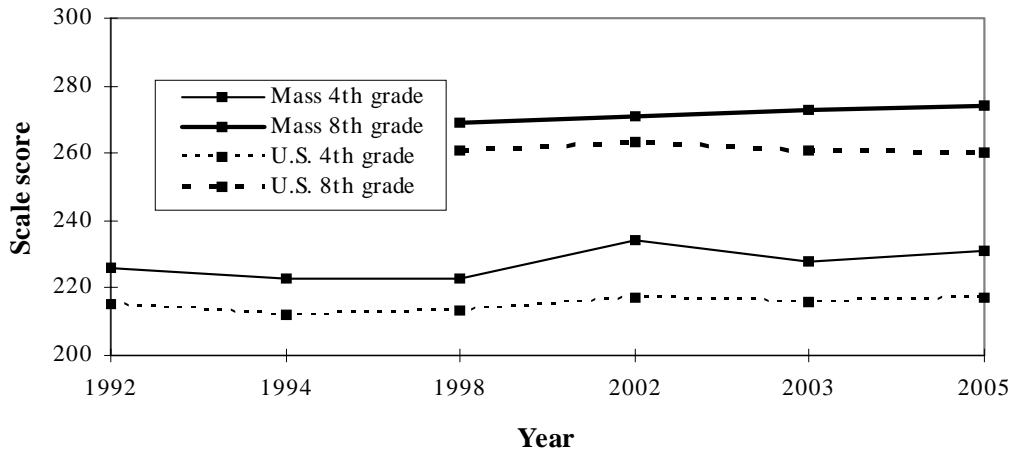
Since 1990, NAEP assessments have also been conducted to give results for participating states. Those that choose to participate receive assessment results that report on the performance of students in that state. In its content, the state assessment is identical to the assessment conducted nationally. 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>  
**The Conference Board, Inc.**  
<http://www.conference-board.org>  
**Mass Insight Corporation**  
<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>

## **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>  
**Federal Aviation Administration**  
[http://www.faa.gov/airports\\_airtraffic/airports/planning\\_capacity/passenger\\_allcargo\\_stats/](http://www.faa.gov/airports_airtraffic/airports/planning_capacity/passenger_allcargo_stats/)  
**Army Corps of Engineers**  
<http://www.iwr.usace.army.mil.ndc/>  
**Federal Reserve Bank of Boston**  
<http://www.bos.frb.org>  
**United States Department of Commerce**  
<http://www.census.gov>  
**National Association of Realtors; Federal Reserve Bank of Boston**  
<http://www.bos.frb.org/economic/needi/needidata.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>  
**Institute of International Education**  
<http://www.iese.org>