



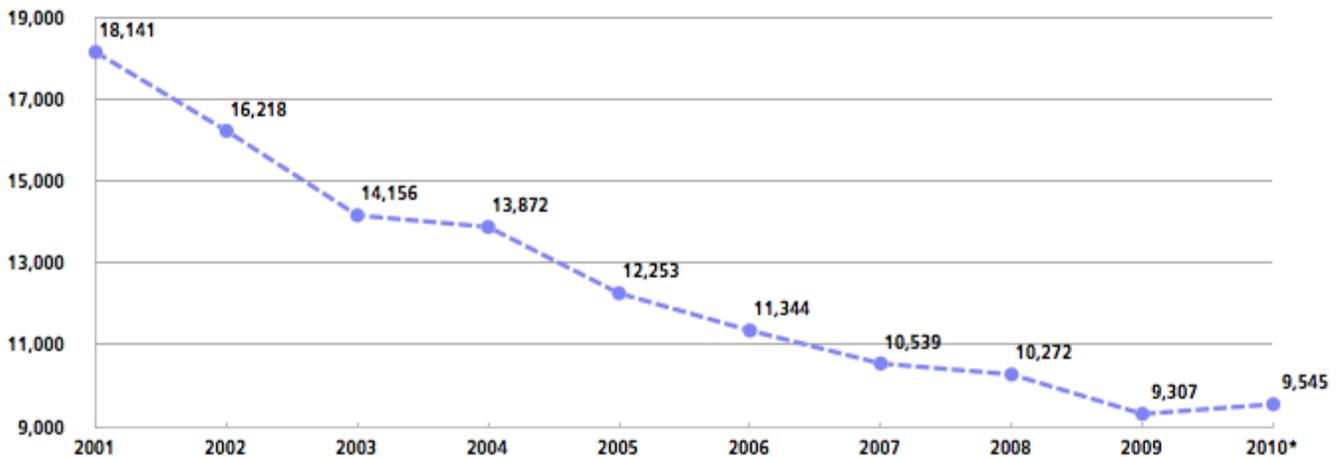
## Manufacturing Industry

Manufacturing is currently a small industry in Boston, making up less than 1.4% of total employment in 2010. This ranks manufacturing 15th amongst the 20 major industrial sectors identified by the Bureau of Labor Statistics (BLS)<sup>1</sup>. The largest sectors in manufacturing include surgical & medical instrument manufacturing, food processing, and commercial bakeries.

### Employment

Today, Boston's manufacturing industry employs about 9,500 people. The general trend in the last decade has been fewer manufacturing jobs as they have decreased nearly 50% from 2001 to 2010. The industry continued to lose about 1,000 jobs a year following the 2008 economic recession, but added an additional 200 jobs by 2010. Nevertheless, the industry saw a net loss of 700 jobs in the two years following 2008.

### Number of Manufacturing Jobs



Source: Massachusetts Department of Workforce Development, US Bureau of Economic Analysis, Boston Redevelopment Authority (BRA) Research Division Analysis.

\*2010 employment data is a preliminary estimate based on 2010 annual data from DWD and 2009 BEA data.

1. Industry sectors were selected according to their 2-digit North American Industry Classification System (NAICS) codes. LINK: <http://www.census.gov/eos/www/naics/>

The largest occupations in the manufacturing industry in Boston include team assemblers, first-line supervisors/managers of production and operating workers, and electrical and electronic equipment assemblers. Below is a list of the top ten manufacturing occupations in Boston by employment. These ten occupations make up approximately 23% of the manufacturing industry.

### Top Ten Manufacturing Occupations by Employment

<b>Job Title:</b>	<b>Total</b>
Team Assemblers .....	328
First-Line Supervisors/Managers of Production and.....	309
Electrical and Electronic Equipment Assemblers .....	225
Inspectors, Testers, Sorters, Samplers, and Weighers .....	217
Machinists.....	210
Shipping, Receiving, and Traffic Clerks.....	183
Computer Software Engineers, Systems Software .....	171
Customer Service Representatives .....	168
Helpers--Production Workers .....	168
Sales Representatives, Wholesale and Manufacturing,.....	161

Source: Labor Market Assessment Tool 2.0, (BRA) Research Division Analysis.

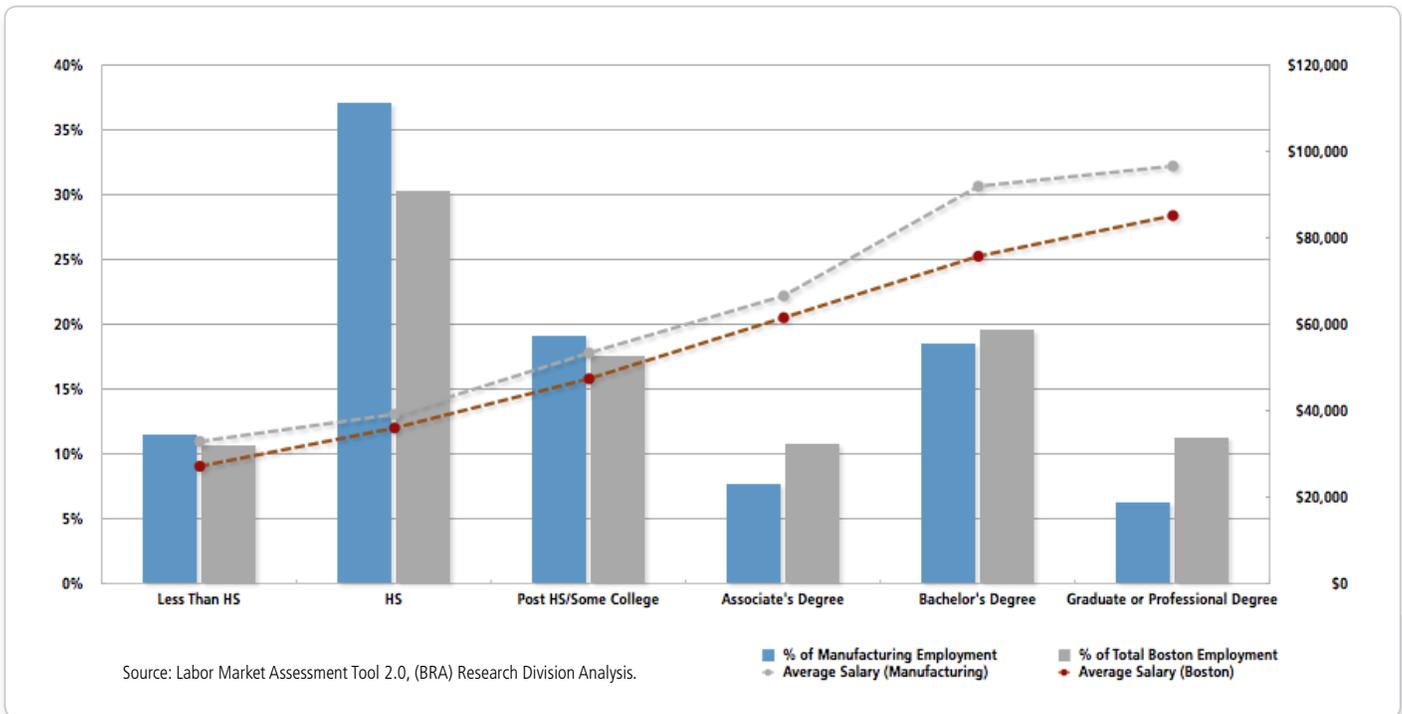
### Major Employers in Manufacturing

The city's largest employers in the manufacturing industry are Gillette Company, Joslin Diabetes Center, Kayem Foods Inc., and New England Confectionary. Manufacturing establishments are mainly located in the South Boston Waterfront, along the Boston Harbor area, in the financial district, and throughout the Allston/Brighton neighborhoods. The attached map depicts manufacturing establishments by size in Boston.

### Education, Skill Requirements, and Wages

Overall, the educational requirements for the manufacturing industry are comparable to those of Boston’s total employment averages. More than 65% of jobs in manufacturing require some college or less. This is higher than Boston as a whole, where approximately 58% of jobs require some college or less. The average salary for manufacturing employees in Boston (\$56,605) is greater than the average salary for employees in all Boston industries (\$53,075) at all levels of educational attainment.

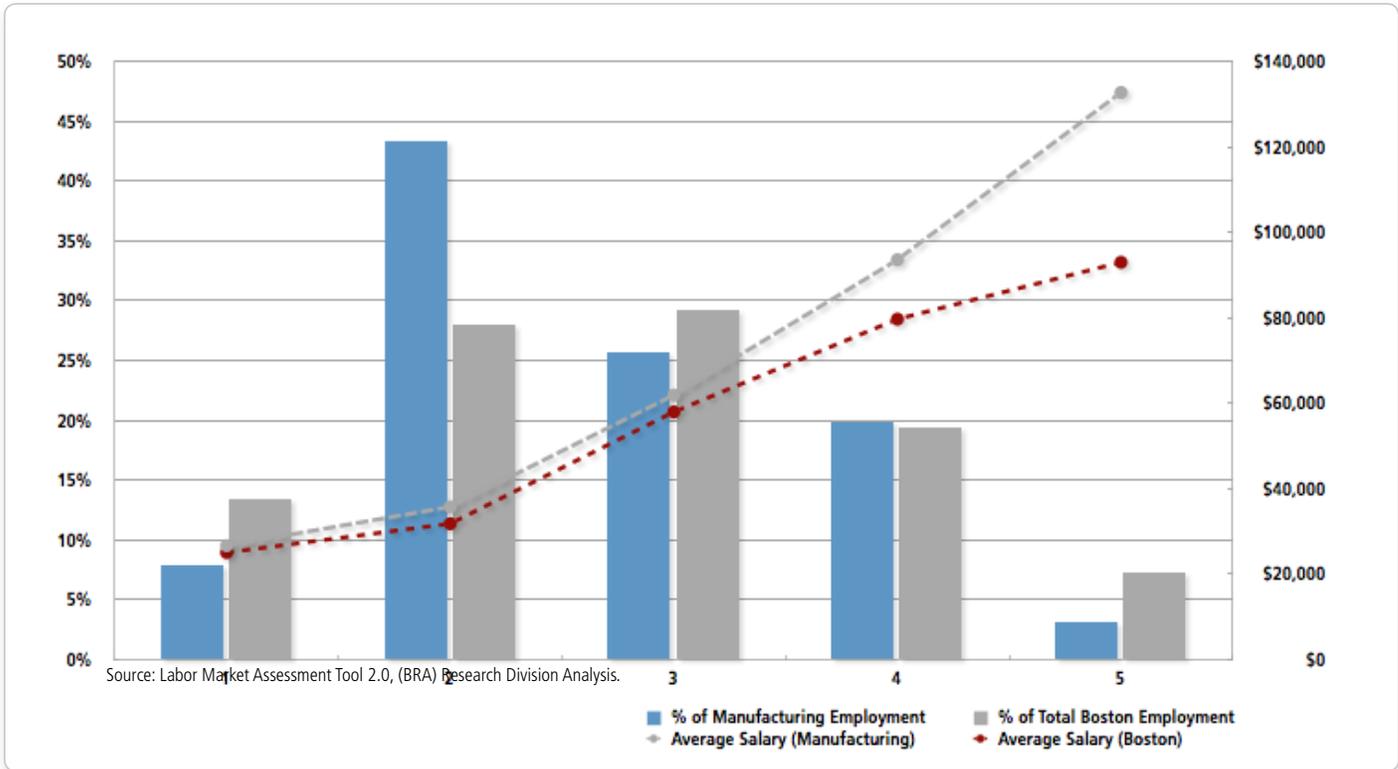
### Education Requirements and Wages



The Boston Redevelopment Authority’s Labor Market Assessment Tool (LMAT)<sup>2</sup> also has different measures for job training, called job zones. The lower the job zone number, the less training, education, and previous work experience needed to perform the job. Overall, close to 78% of jobs in manufacturing are in job zones 1, 2, and 3. This indicates the industry overall requires modest skills. Most occupations in manufacturing require some preparation, such as a high school diploma and previous manufacturing-related skills.

2. For more detailed information on LMAT, please see *Introducing the Labor Market Assessment Tool*-Boston Redevelopment Authority Research Division-publication 613.  
 LINK: <http://www.bostonredevelopmentauthority.org/PDF/ResearchPublications/LMAT%20Introduction.pdf>

### Job Zones and Wages

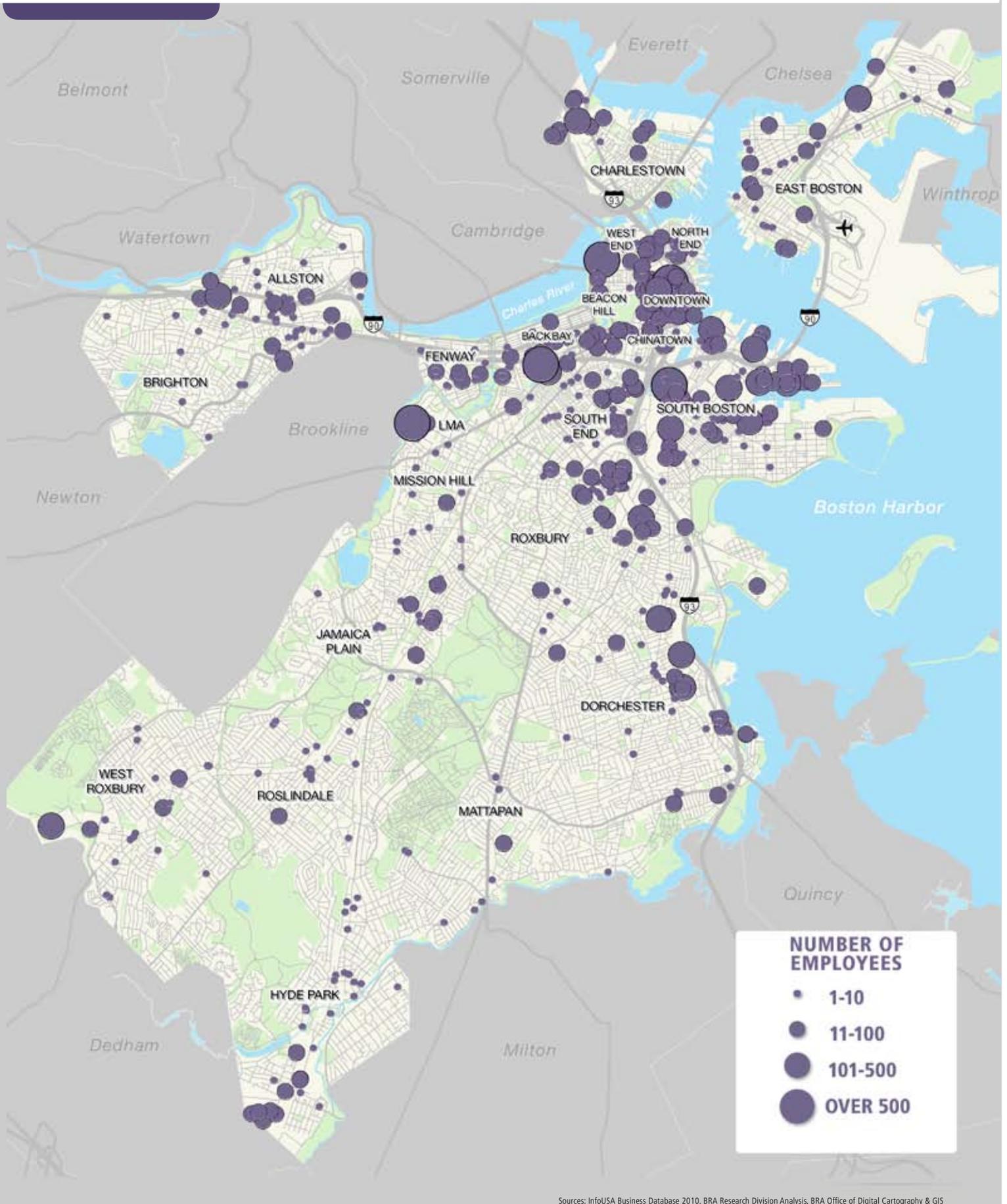


### Sector Trends

A location quotient (LQ) is used to assess the degree of regional specialization in an industry as compared to the national average. An LQ of "1" indicates that an industry is concentrated in a region's economy in a proportion similar to the US overall. An LQ over "1" indicates that the industry is an area of concentration for the region. With a location quotient of 0.20, the manufacturing industry accounts for a much smaller proportion of total jobs in Boston than at the national level.

In the coming years, employment in the manufacturing industry in Boston is not expected to change a great deal. Using New England Economic Partnership (NEEP) projections, we estimate the manufacturing industry to grow 1.8%—or 175 jobs—by 2015<sup>3</sup>. This change would account for 0.4% of the city's total employment change during the 5-year period.

3. Projections for 2010-2015 are based upon the New England Economic Partnership (NEEP) May 2011 forecast.



Sources: InfoUSA Business Database 2010, BRA Research Division Analysis, BRA Office of Digital Cartography & GIS

## City of Boston - Industry Profiles

<b>Rank Industry:</b>	<b># OF EMPLOYEES</b>	<b>CHANGE IN JOBS 2001-2010</b>	<b>% OF TOTAL EMPLOYMENT</b>	<b>LOCATION QUOTIENT</b>	<b>AVERAGE WAGES</b>	<b>JOBS ADDED BY 2015</b>
1. Health Care and Social Assistance Industry	122,532	26,390	18.5%	1.67	\$53,437	13,117
2. Public Administration	78,354	(11,619)	11.8%	0.84	\$46,916	2,911
<i>State Government</i>	39,185	12,474	5.9%	1.95	-	1,456
<i>Local Government</i>	22,983	(19,428)	3.5%	0.42	-	854
<i>Federal Government</i>	16,184	1,354	2.4%	1.48	-	601
3. Finance and Insurance Industry	78,407	(5,993)	11.8%	2.28	\$69,177	1,695
4. Professional, Scientific and Technical Services Industry	73,897	1,692	11.2%	1.62	\$81,686	7,550
5. Educational Services Industry	50,247	6,585	7.6%	3.28	\$57,223	5,376
6. Accommodation and Food Services Industry	49,577	6,143	7.5%	1.06	\$26,753	4,622
7. Administrative and Support and Waste Management Remediation Services Industry	32,124	(7,675)	4.9%	1.01	\$39,793	3,286
8. Retail Trade Industry	30,477	(360)	4.6%	0.45	\$32,255	655
9. Other Services (except Public Administration)	29,279	2,967	4.4%	0.89	\$39,662	1,264
10. Real Estate and Rental and Leasing Industry	21,382	2,227	3.2%	0.75	\$47,397	465
11. Transportation and Warehousing Industry	18,537	(5,893)	2.8%	0.88	\$43,490	(426)
12. Information Industry	16,407	(5,844)	2.5%	1.28	\$69,792	1,583
13. Arts, Entertainment, and Recreation Industry	14,712	2,452	2.2%	1.00	\$37,882	1,383
14. Construction Industry	13,864	(5,794)	2.1%	0.41	\$59,341	28
15. Manufacturing Industry	9,545	(8,596)	1.4%	0.20	\$56,605	175
16. Wholesale Trade Industry	9,256	(1,672)	1.4%	0.41	\$59,139	283
17. Management of Companies and Enterprises	6,243	(4,022)	0.9%	0.86	\$71,497	643
18. Utilities Industry	2,441	(249)	0.4%	-	\$70,421	63
19. Agriculture, Forestry, Fishing and Hunting and Mining	180	(1)	0.0%	-	\$24,645	26
<b>Total</b>	<b>657,461</b>	<b>(9,262)</b>	<b>99.3%</b>	<b>-</b>	<b>\$53,075</b>	<b>47,610</b>

- Projections for 2010-2015 are based upon the New England Economic Partnership (NEEP) May 2011 forecast.
- 2010 employment data is a preliminary estimate based on 2010 annual data from DWD and 2009 BEA data.

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