The Outlook for U.S. Manufacturing

Economic Forecasting Conference
J. Mack Robinson College of Business
Georgia State University
Atlanta, GA
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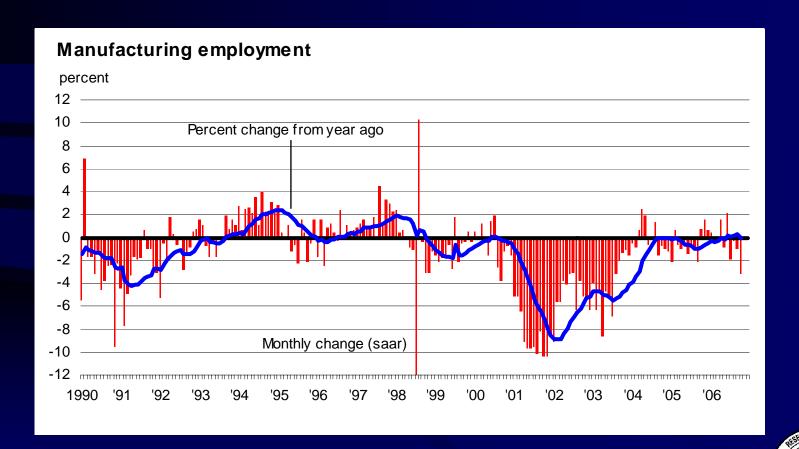
William Strauss
Senior Economist
and Economic Advisor
Federal Reserve Bank of Chicago



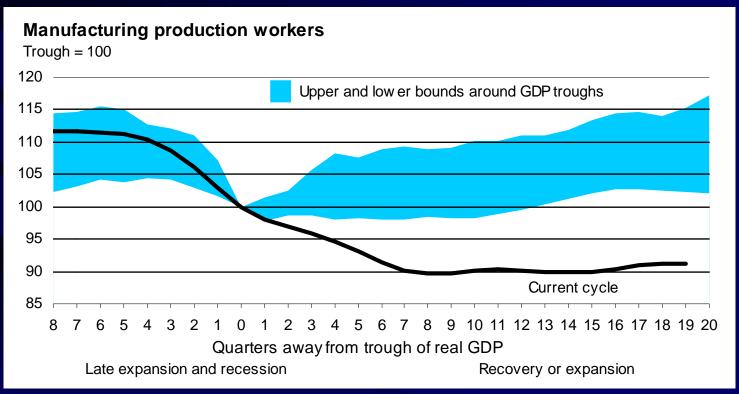
Overall performance



Manufacturing employment decreased by 15,000 jobs over the past twelve months

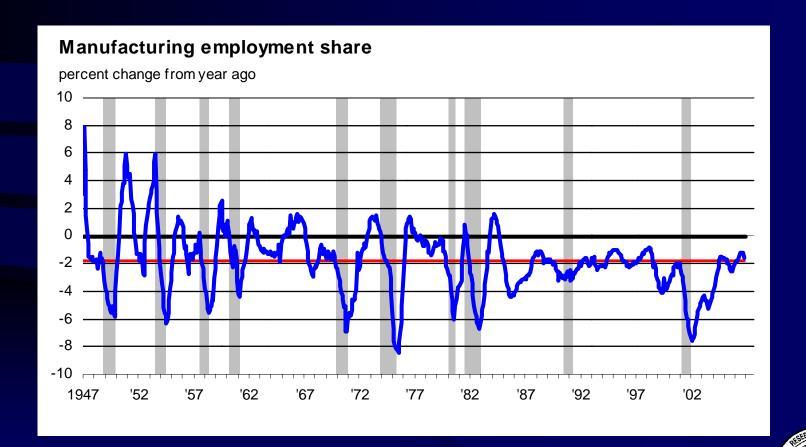


Manufacturing workers have suffered steep employment declines over the past several years

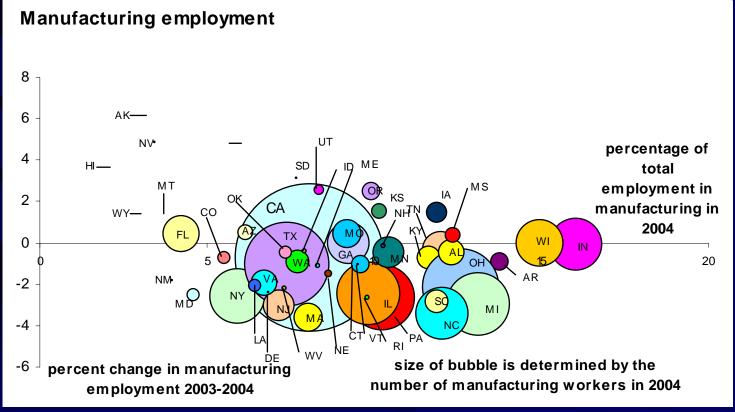




When changes in nonfarm employment are considered, the most recent manufacturing employment downturn is not unprecedented

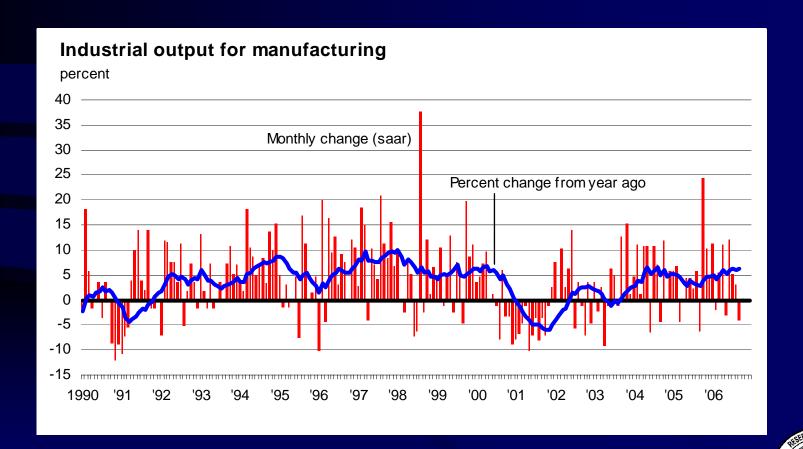


Manufacturing job losses are geographically wide-spread and do not seem to be related to concentration of manufacturing employment

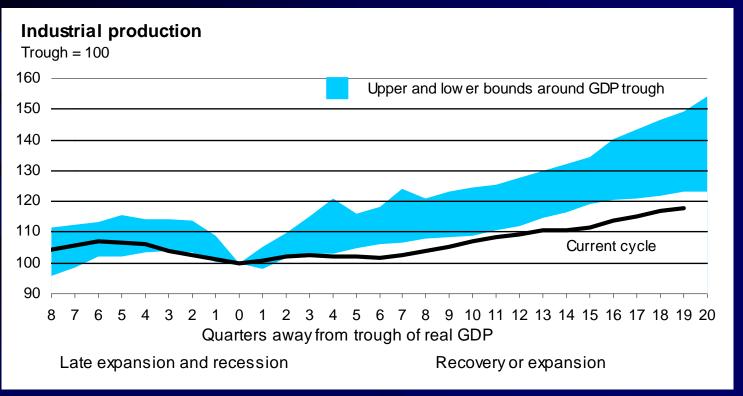




Manufacturing output has been rising since the fall of 2003

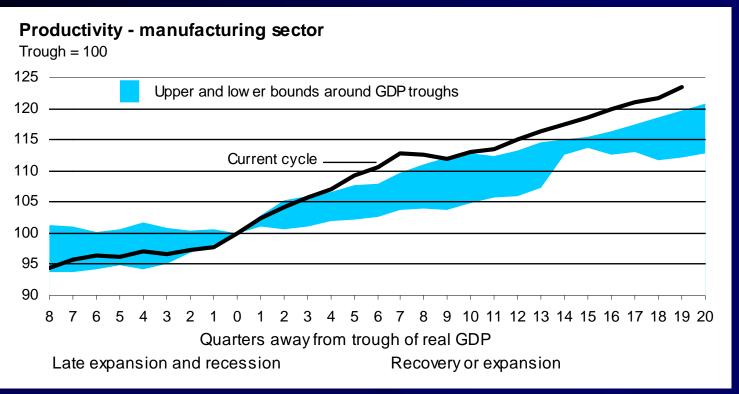


Manufacturing output has expanded at a slower pace than previous cycles





However, productivity within the manufacturing sector has grown at a faster rate than during any previous expansion



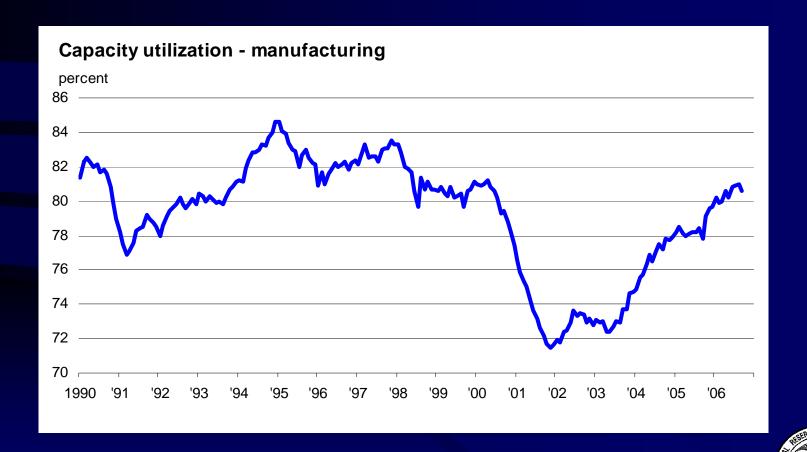


Manufacturing output in the United States has never been higher

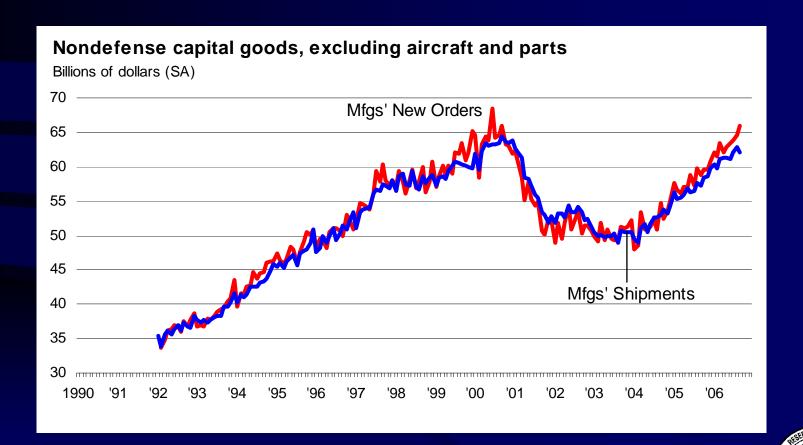




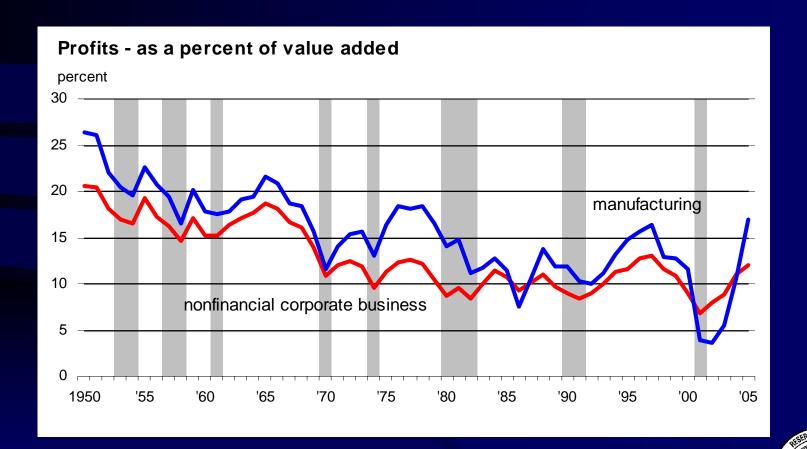
Manufacturing capacity utilization has been improving since June 2003



New orders and shipments for capital goods have been doing very well



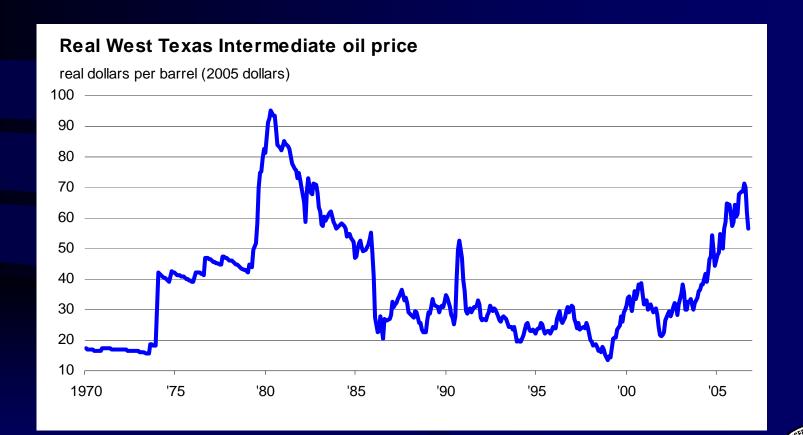
While more cyclical, profits in manufacturing have out-performed returns in nonfinancial corporate businesses



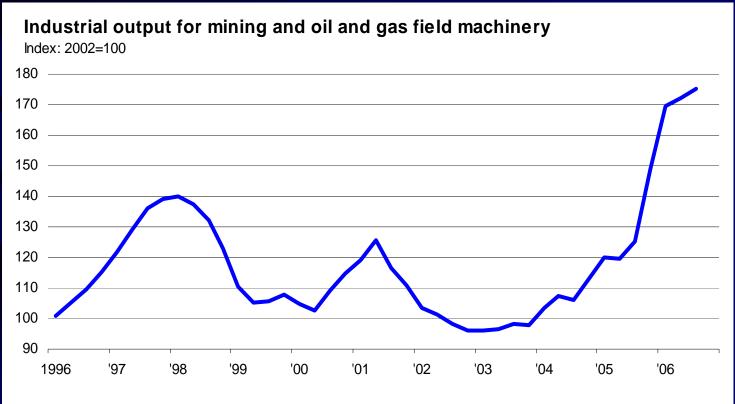
Industry performance



Real oil prices are well above levels of the past twenty years

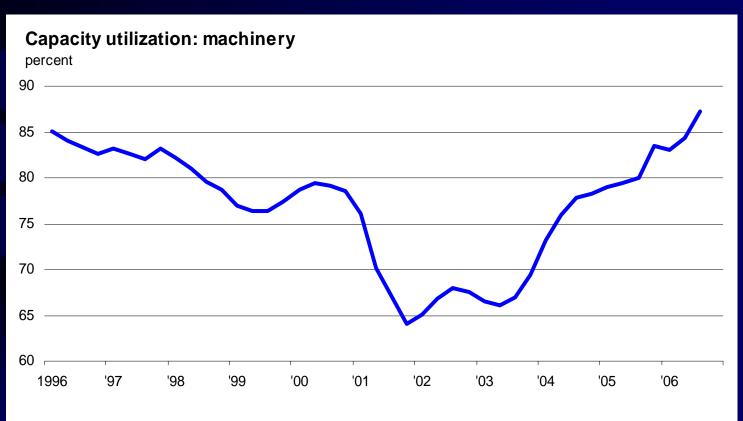


This has translated into a 75% increase in mining and oil and gas field machinery output over the past three years





Capacity utilization for the machinery sector rose to the highest rate in over twenty-five years

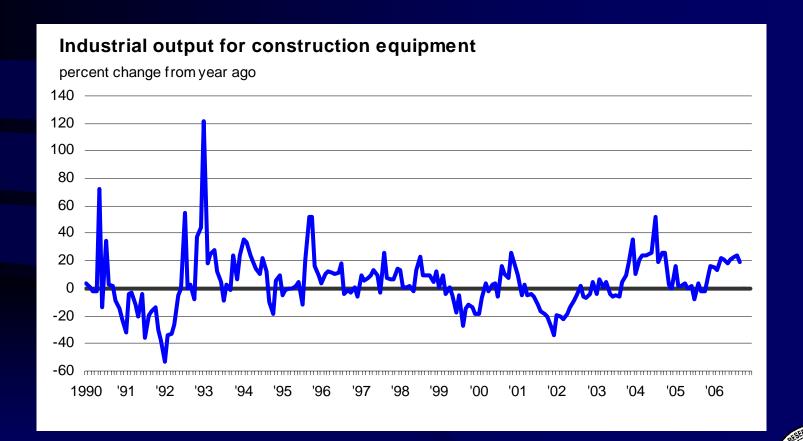




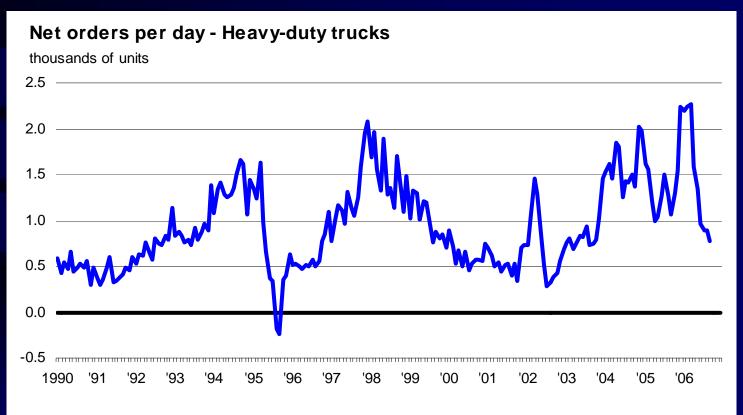
The Caterpillar 797B costs over \$4,000,000



Construction equipment production has improved markedly

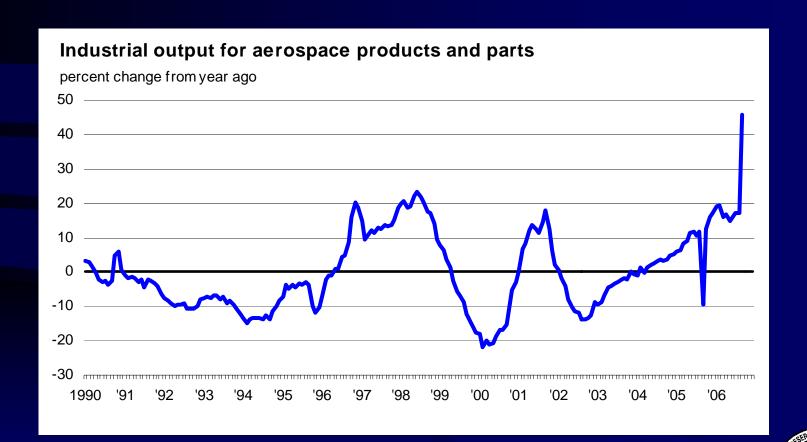


Heavy-duty truck order books for 2006 are full, in anticipation of EPA regulatory changes that will take effect on January 1, 2007

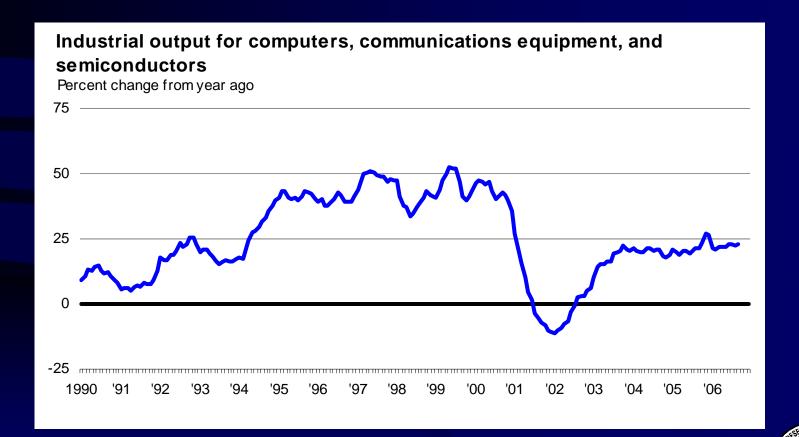




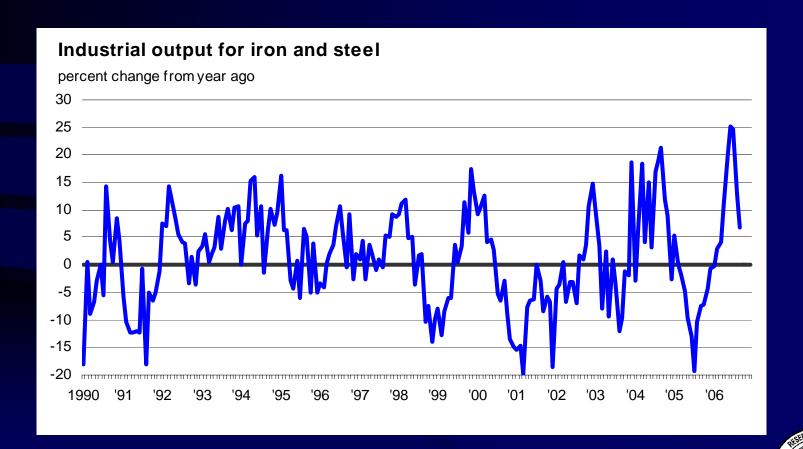
Aerospace production remains robust



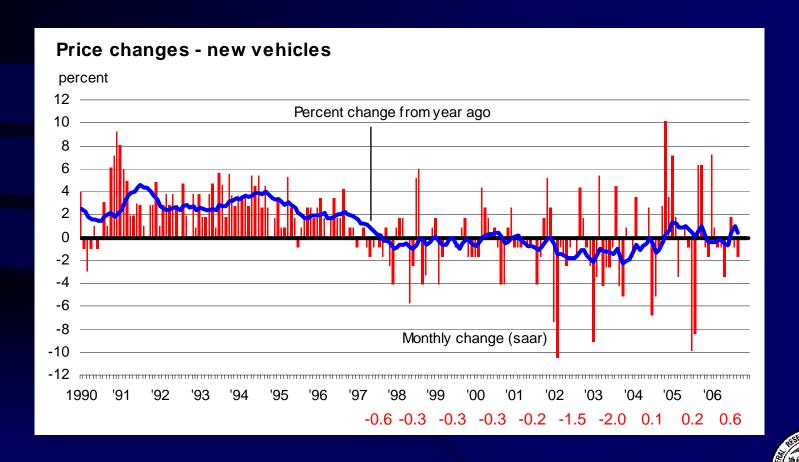
The high-tech sector's output growth has been at a solid rate



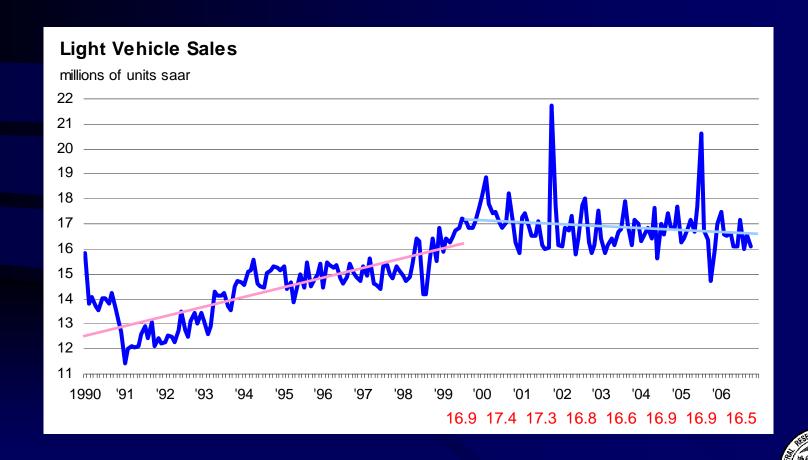
Steel industry growth has been slowing from extremely high rates



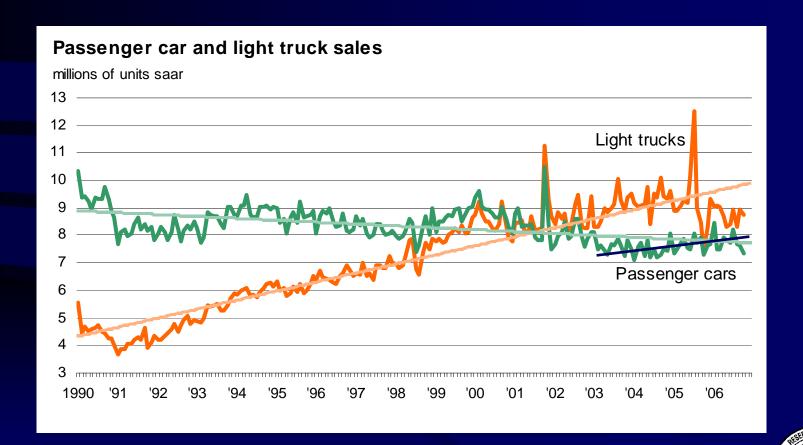
New vehicle prices have been under pressure since 1997



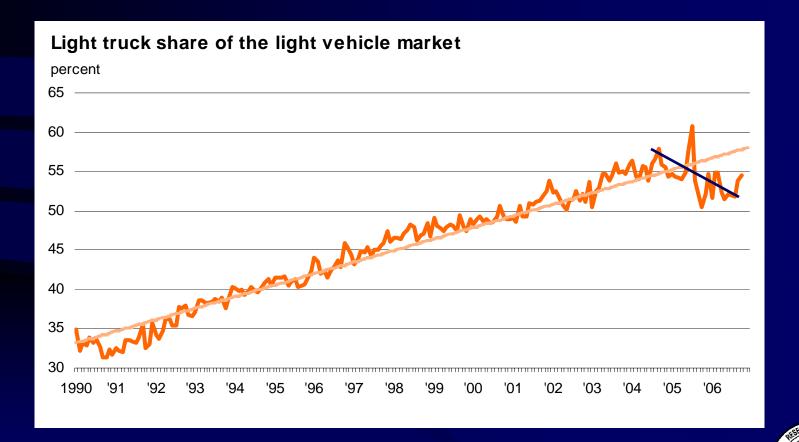
Light vehicle sales have shown no growth for the past eight years



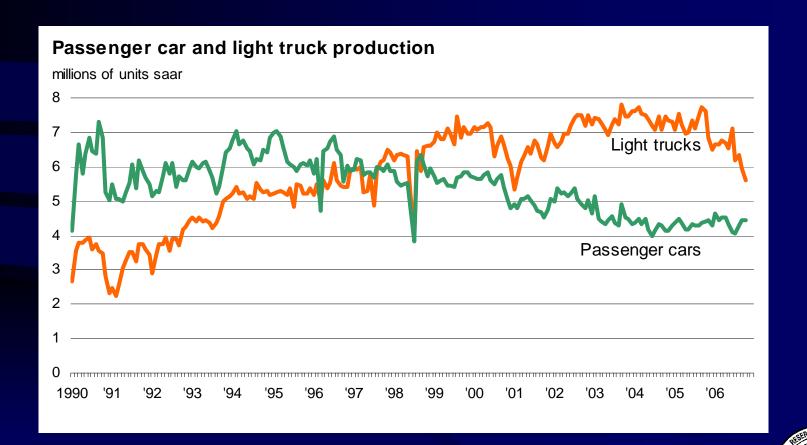
Passenger car sales have been moving higher



Light truck market share has been falling since August 2004



While passenger car production has been relatively stable, light truck production has been falling



GM and Ford produce some of the largest vehicles











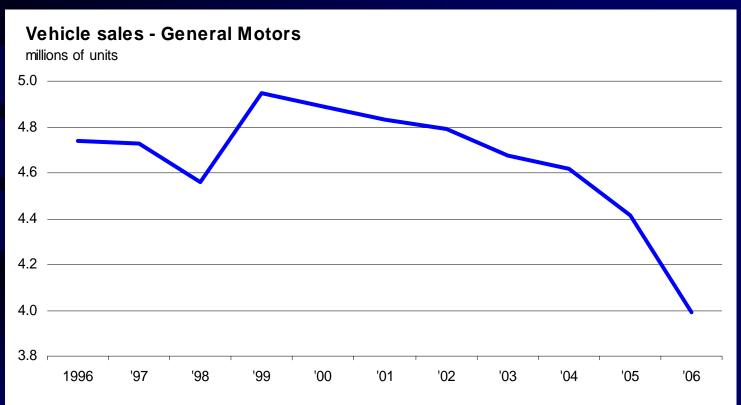






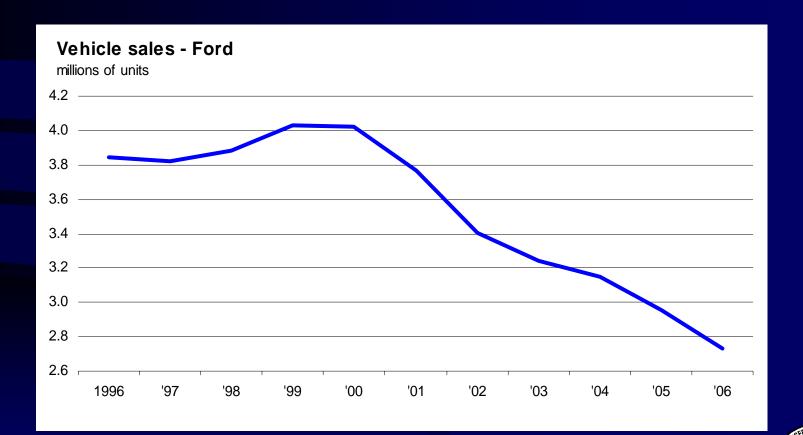


Since 1999, General Motors' sales declined by nearly a million vehicles

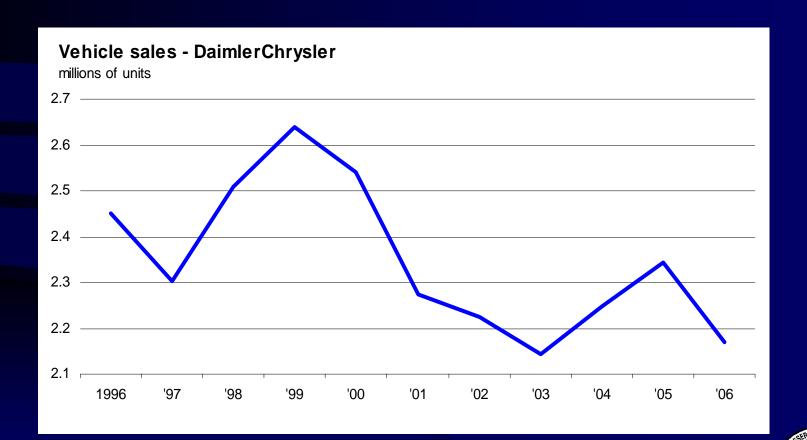




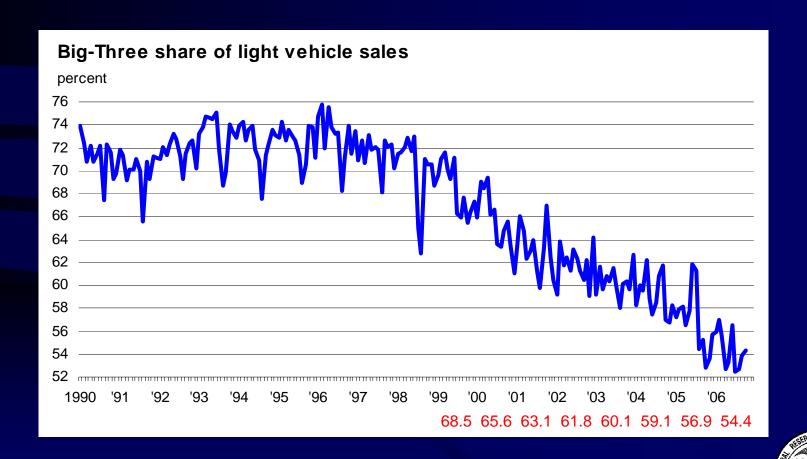
Ford's sales declined by nearly 1.3 million vehicles



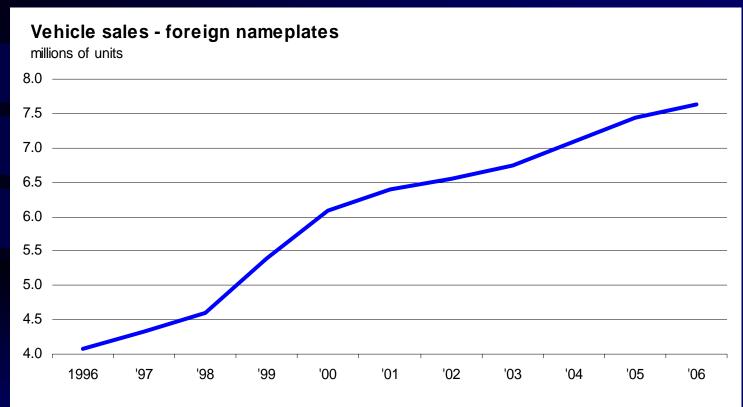
DaimlerChryler's sales fell by nearly half a million vehicles



So with losses approaching 3 million units, the Big-Three's market share has deteriorated

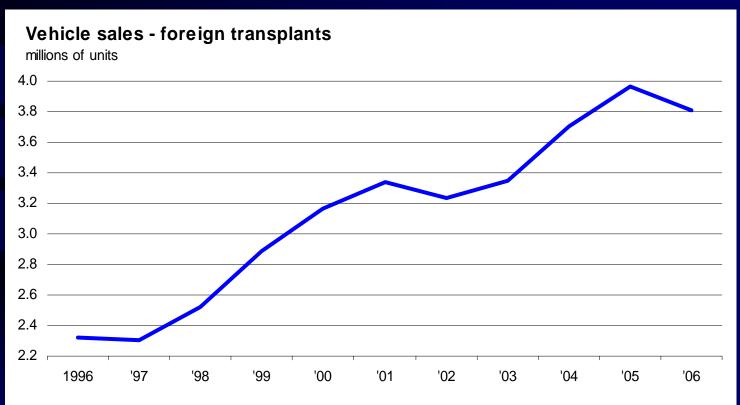


So with sales slipping for the Big-Three, foreign nameplate models have risen by over two million units





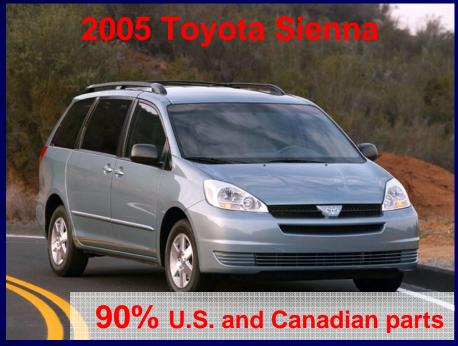
However "new domestic" production rose by over 900,000 vehicles





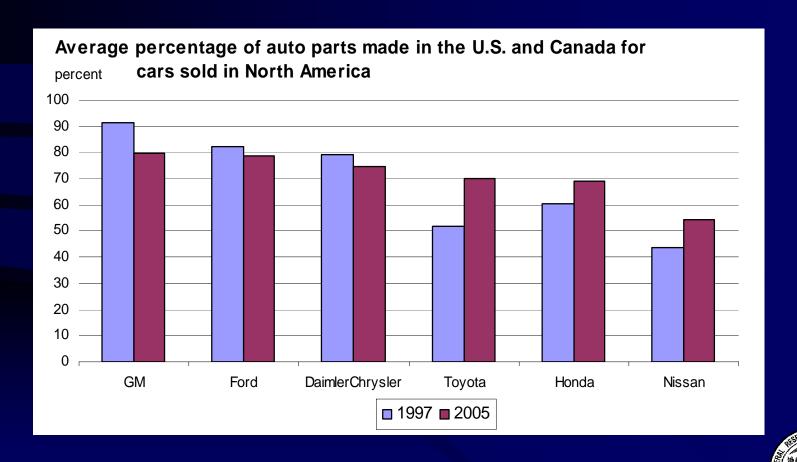
Buy American







Domestic content for the Big Three has been declining, while domestic content for the "new domestics" has been rising



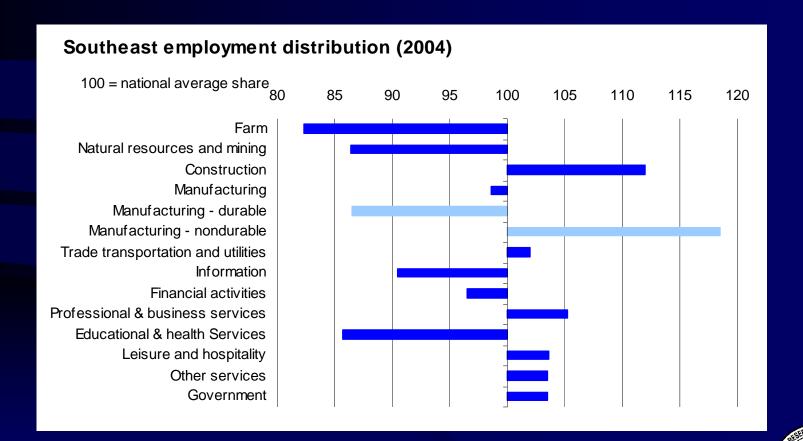
Light vehicle production has been declining at a more moderate pace than focusing on Big-Three losses would suggest



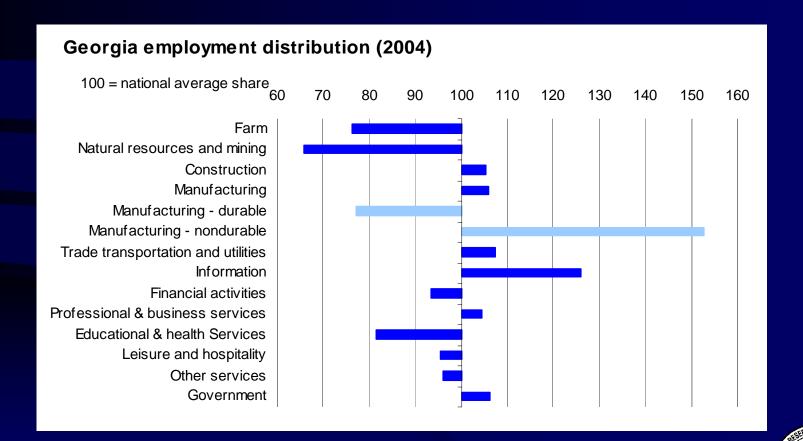
Regional analysis



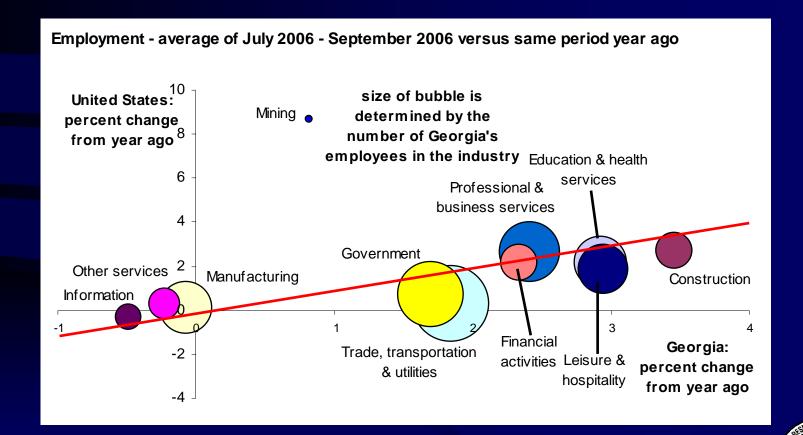
Construction and nondurable manufacturing have the largest employment concentration in the Southeast



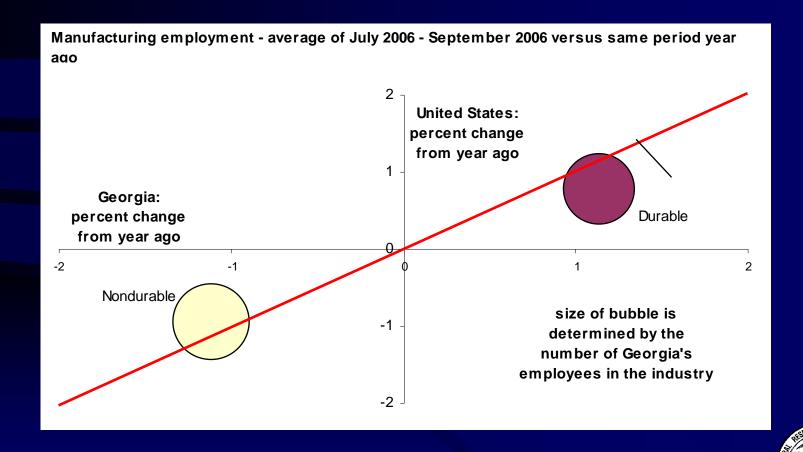
Nondurable manufacturing and information have the largest employment concentration in Georgia



Georgia's employment has been doing relatively better than the nation



Georgia's manufacturing has been close to the experience of the nation, doing a bit better in durables and a bit worse in nondurable



Summary

- Manufacturing continues to expand at solid rates
- Most industries are doing very well
- The domestic nameplate automobile manufacturers are struggling
- The domestic nameplate supplier base are also deeply affected
- Outside of the Big Three the rest of the domestic automobile producers are doing well



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