Supply Economics: Trends from a Non-Manufacturing Perspective

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Manufacturing ISM Report On Business®

- Manufacturing survey started in 1931
- Widely known and watched in the U.S.
- Concept applied in the U.K. and elsewhere around the world
- Long-running, non-government information
- Explanation and data available on-line and on CD-ROM from ISM (www.ism.ws)

Non-Manufacturing ISM Report On Business®

- Creation began in mid-1996 with an adhoc committee of ISM members and economists
- Pilot data collection began in October
 1996 with about 70 ISM members
- June 3, 1998 first release of data included May 1998 data and 10 months of history

Both Surveys:

- Each survey is produced from a separate committee of over 350 ISM members
- Committee membership is anonymous and confidential
- Committees are diversified by industry and geographically
- Membership is for an indefinite period

Manufacturing ISM Report On Business®

Includes all 19 NAICS manufacturing groups:

- Food, Beverage & Tobacco Products
- Textile Mills
- Apparel, Leather & Allied Products
- · Wood Products
- Paper Products
- Printing & Related Support Activities
- · Petroleum & Coal Products
- · Chemical Products
- · Plastics & Rubber Products
- Nonmetallic Mineral Products

- · Primary Metals
- Fabricated Metal Products
- Machinery
- · Computer & Electronic Products
- Electrical Equipment, Appliances
 & Components
- · Transportation Equipment
- · Furniture & Related Products
- Miscellaneous Manufacturing

Non-Manufacturing ISM Report On Business®

Includes all sectors of the U.S. economy not included in the manufacturing sector:

- Agriculture, Forestry, Fishing & Hunting
- Mining
- Utilities
- Construction
- · Wholesale trade
- Retail trade
- Transportation and Warehousing
- Information
- Finance & Insurance
- Real Estate, Rental & Leasing
- · Public Administration

- Professional, Scientific & Technical Services
- Management of Companies & Support Services
- Educational Services
- Health Care & Social Assistance
- Arts, Entertainment & Recreation
- Accommodation & Food Services
- · Other Services

Why Does Anybody Care??

- Because of the "Business Cycle"
 - The alternation of improvement and decline of business activity over time
- Usually measured in terms of Gross Domestic Product (GDP)
 - The value added domestically by all forms of economic activity

Business Cycles

Knowledge of business cycles and the relationship of particular businesses to it can improve business planning, which in turn can improve purchase and supply planning

Business Cycles

- From 1854 to 1991: 31 complete cycles
- Average expansion: 3 years
- Average decline: 18 months
- Last expansion: Mar. 1991-Mar. 2001
- Last decline: Mar. 2001 to Oct. 2001
- Current expansion began Oct. 2001

Manufacturing ISM Report On Business®

"Mr. Greenspan's favorite indicator. . ."

Comment by Edward Yardeni, Chief Economist at a leading New York investment firm referring to ISM's manufacturing supplier deliveries index.

> Wall Street Journal April 6, 1995

"I find the surveys conducted by the purchasing managers (ISM) to be an excellent supplement to the data supplied by various departments and agencies of government."

Alan Greenspan, Ph.D. Chairman of the Federal Reserve Board (1987 – 2006)

Monthly Report Format

- Summary analysis
- Index graphs
- Commodities in short supply
- · Commodities up or down in price
- Manufacturing report also has lead time data

ISM Report On Business® Indexes

Manufacturing

- Production
- New Orders
- Inventories
- Employment
- Prices
- Supplier Deliveries
- New Export Orders
- Imports
- Backlog of Orders
- Customer Inventories
- PMI

Non-Manufacturing

- · Business Activity
- New Orders
- Inventories
- Employment
- Prices
- Supplier Deliveries
- New Export Orders
- Imports
- Backlog of Orders
- Inventory Sentiment

ISM Indexes

All ISM indexes are reported as *Diffusion Indexes*

- The % response to the "Better," "Same" or "Worse" question is difficult to compare to prior periods. Therefore, the percentages are "diffused."
- Takes those indicating "Better" and half of those indicating "Same" and adds the percentages.
- Effectively measures the bias toward a positive (above 50%) or negative index (below 50%).
 - >50% = activity increased from last month
 - =50% = activity unchanged from last month
 - <50% = activity decreased from last month</p>
- · Shows the prevailing direction of change.
- Distance from 50% ~ rate of change of activity from last month

The PMI

(formerly the Purchasing Managers' Index)

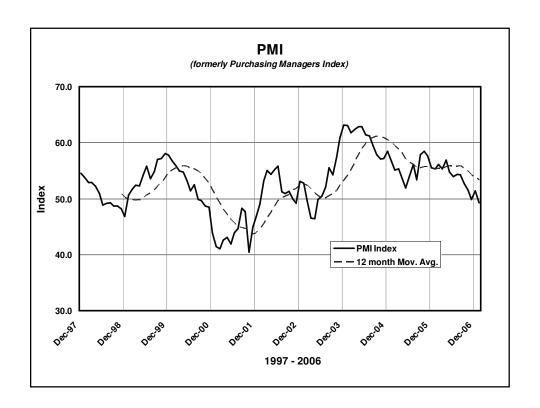
 Weighted average of 5 individual manufacturing indexes:

Production 25%New Orders 30%

■ Employment 20%

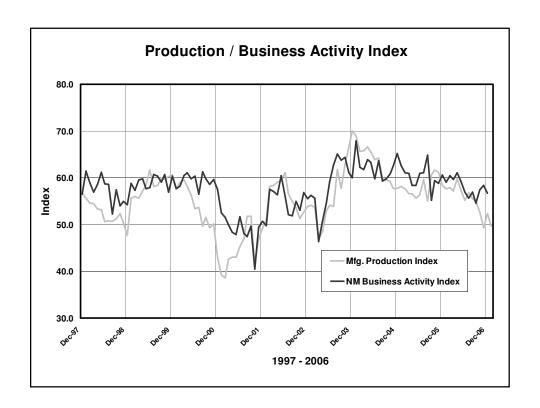
■ Inventories 10%

Supplier Deliveries 15%



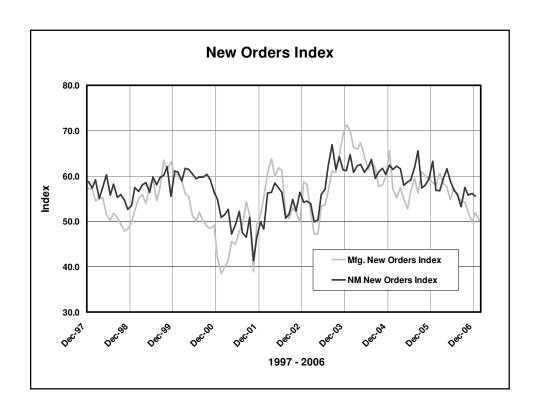
Production/Business Activity Indexes

- The level of overall production (manufacturing) or business activity (non-manufacturing) compared to the previous month's level of activity
- · Affected by general business conditions



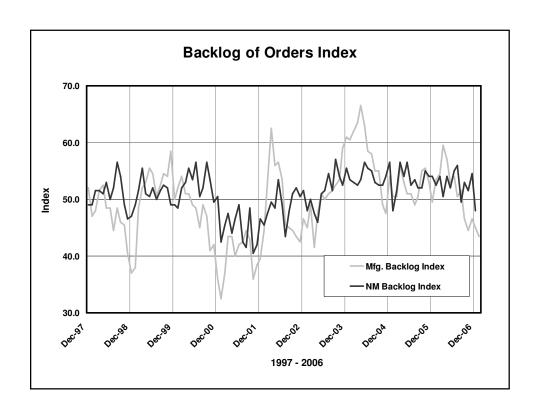
New Orders Indexes

- The current month's level of new business or activity compared to the previous month's level of new business or activity
- · Affected by general business conditions



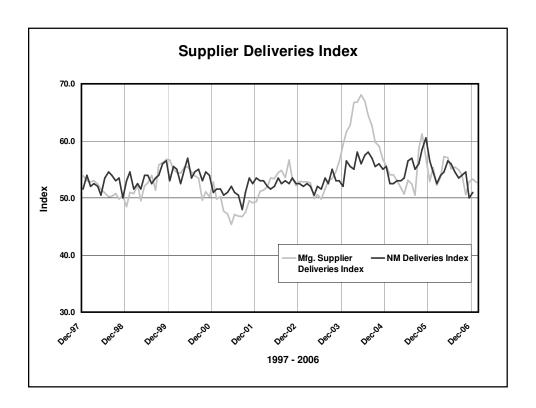
Backlog of Orders Indexes

- The current month's level of unfilled orders or activity requests compared to the previous month's level of unfilled orders or activity requests
- Affected by capacity utilization and general business conditions



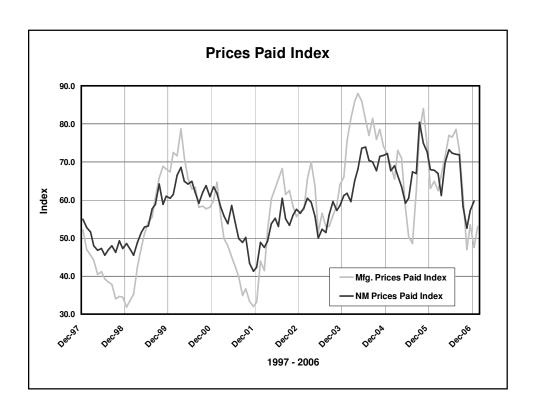
Supplier Deliveries Indexes

- The current month's level of difficulty of obtaining purchased materials and/or services compared to the previous month's level of difficulty of obtaining materials and/or services
- Affected by demand on suppliers and supplier capacity



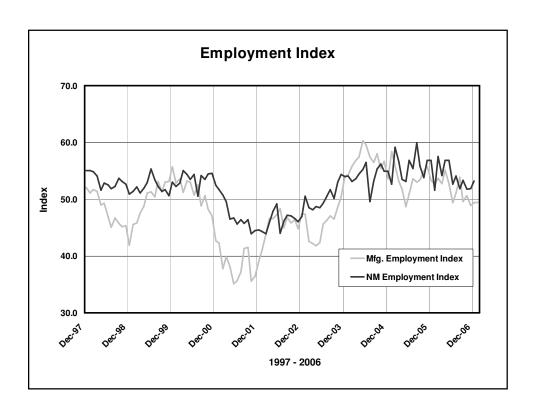
Prices Paid Indexes

- The current month's level of prices paid for purchased materials and/or services compared to the previous month's level of prices paid
- · Affected by supply and demand



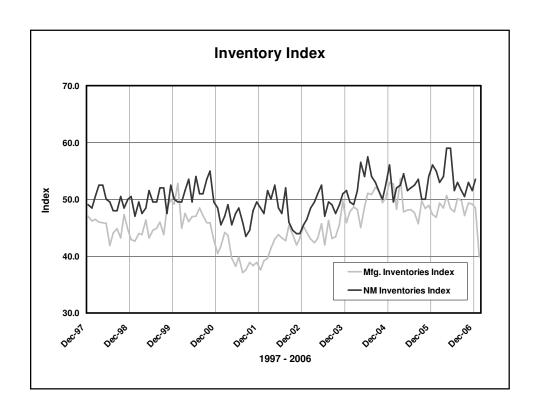
Employment Indexes

- The current month's level of employment (including temporary or contract personnel) compared to the previous month's level of employment
- Affected by level of business activity, productivity trends, outsourcing



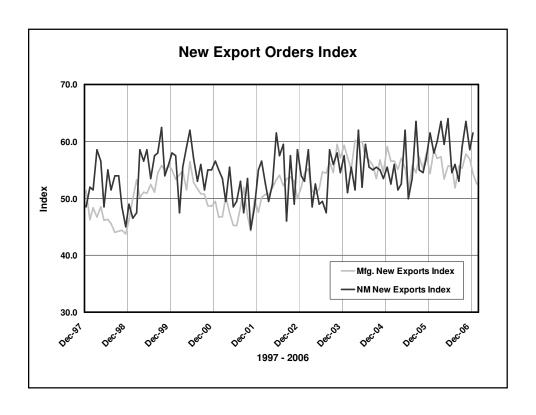
Inventory Indexes

- The current month's level of inventories of materials used in business or activity compared to the previous month's level of inventories
- Affected by current and expected business conditions and JIT trends



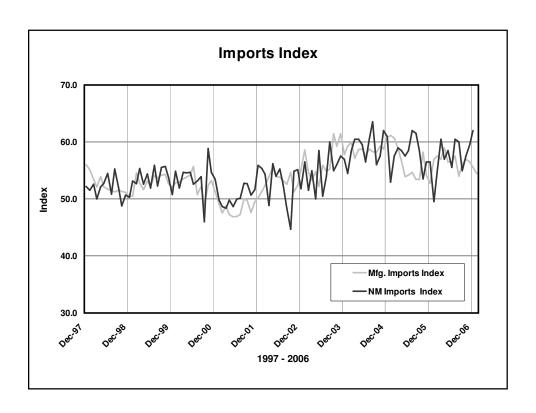
New Export Orders Indexes

- The change in the current month's level of new orders for exports or for business or activity outside of the United States, conducted by U.S.-based personnel
- Affected by U. S. competitiveness, exchange rates



Imports Indexes

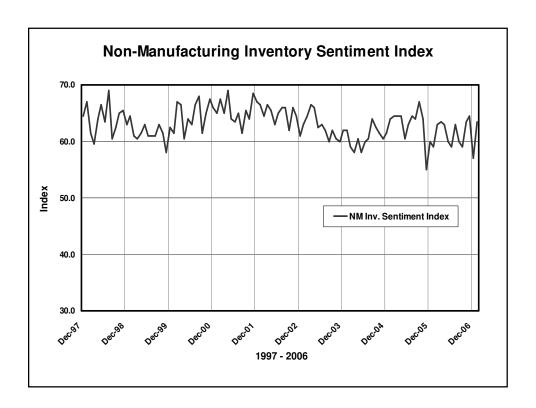
- The current month's level of use of imported materials in business or activity compared to the previous month's use of imported materials
- Affected by U. S. competitiveness, exchange rates, domestic availability



Inventory Sentiment Index

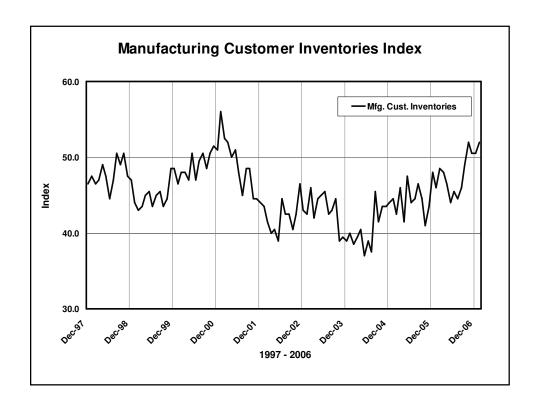
(Non-Manufacturing)

- Indicates the feeling of supply management executives as to whether current levels of inventories are too high, too low, or about right
- Affected by current and expected business conditions and current inventory levels



Customer Inventories Index (Manufacturing)

- The current month's level of inventories of members' customers compared to the previous month's level of inventories
- Affected by current and expected business conditions and JIT trends



ISM Reports on Business - How You Can Use Them

- ➤ Know your key supplier industries
- Find out how they relate to the general economy, i.e. lead, lag, coincide
- Know what is happening in the economy and to your supplier industries
- Revise supply strategies as economic conditions change

Outlook

• ISM Forecast for 2007

The Semiannual Economic Forecast

December 12, 2006
ISM Business Survey Committees

institute for supply management

Recent and Current Supply Chain Improvement Practices

In Manufacturing . . .

- New or improved enterprise technology
- ② Improved supplier management practices
- **©** Improved inventory management
- Increased low cost country sourcing
- S Application of lean manufacturing concepts to supply chain



Recent and Current Supply Chain Improvement Practices In Non-Manufacturing . . .

- Increased use of technology and ebusiness applications
- Supplier consolidation
- **❸** Strategic sourcing
- **4** Professional development and education
- **9** Improvements in supply management processes



Summary: Manufacturing

• Operating Rate is at 84.5% of normal capacity.

		2006 Act.	2007 Fcst
•	Production Capacity	+ 2.7%	+ 5.4%
•	Capital Expenditures	+ 7.3%	+ 8.5%
•	Prices Paid	+ 5.5%	+ 1.1%
•	Manufacturing Revenues	+ 6.2%	+ 6.4%

- Other 2007 Forecasts:
 - Labor and Benefit Costs + 2.5%.
 - Manufacturing Employment + 0.1%.
 - U.S. Imports and Exports to be strong!



Summary: Manufacturing contid.

- 2007 Concerns:
 - > Inflation
 - > Energy Costs and Supply
 - > Healthcare Costs
 - China Currency and Imports
 - Labor and Benefit Costs



Summary: Non-Manufacturing

• Operating rate is at 86.3%.

		2006 Act.	2007 Fcst
•	Capital Expenditures	+ 9.9%	+ 8.2%
•	Prices Paid	+ 2.4%	+ 4.0%
•	Non-Manufacturing		
	Revenues	+ 7.7%	+ 6.4%

- Other 2007 Forecasts:
 - Production and provision capacity + 6.2%.
 - U.S. Imports and Exports to be strong!



Summary: Non-Manufacturing

- 2007 Concerns:
 - > Energy
 - > Fuel and Transportation Costs
 - Overall Economy and Inflation
 - Labor and Benefit Costs
 - > Interest Rates
 - Price Increases



THANK YOU!