reporton business

Chair of the Institute for Supply Management® Manufacturing Business Survey Committee

Economic activity in the manufacturing sector contracted in May for the seventh consecutive month following a 28-month period of growth, say the nation's supply executives in the latest Manufacturing ISM® Report On Business®.

The May Manufacturing PMI® registered 46.9 percent. The New Orders Index remained in contraction territory at 42.6 percent, 3.1 percentage points lower than the figure of 45.7 percent recorded in April. The Production Index reading of 51.1 percent is a 2.2-percentage point increase compared to April's figure of 48.9 percent. The Prices Index registered 44.2 percent, down 9 percentage points compared to the April figure of 53.2 percent. The Backlog of Orders Index registered 37.5 percent, 5.6 percentage points lower than the April reading of 43.1 percent. The Employment Index indicated another month of expansion, registering 51.4 percent, up 1.2 percentage points from April's reading of 50.2 percent. The Supplier Deliveries Index figure of 43.5 percent is 1.1 percentage points lower than the 44.6 percent recorded in April; this is the index's lowest reading since March 2009 (43.2 percent).

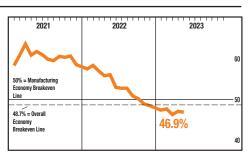
Of the six biggest manufacturing industries, only one — Transportation Equipment — registered growth in May. The four manufacturing industries that reported growth in May are: Nonmetallic Mineral Products; Furniture & Related Products; Transportation Equipment; and Fabricated Metal Products. ISM

#Miscellaneous Manufacturing (products such as medical equipment and supplies, jewelry, sporting goods, toys and office supplies)



PMI® at 46.9%

The U.S. manufacturing sector contracted in May, as the Manufacturing PMI® registered 46.9 percent, 0.2 percentage point lower than the reading of 47.1 percent recorded in April. This is the seventh month of contraction and continuation of a downward trend that began in June 2022. That trend is reflected in the Manufacturing PMI®'s 12-month average falling to 49.4 percent.



Manufacturing at a Glance

| INDEX | May Index | Apr Index | % Point Change | Direction | Rate of Change | Trend* (months) |
|-----------------------------|--------------|--------------|-------------------|-------------|-------------------|--------------------|
| Manufacturing PMI® | 46.9 | 47.1 | -0.2 | Contracting | Faster | 7 |
| New Orders | 42.6 | 45.7 | -3.1 | Contracting | Faster | 9 |
| Production | 51.1 | 48.9 | +2.2 | Growing | From Contracting | 1 |
| Employment | 51.4 | 50.2 | +1.2 | Growing | Faster | 2 |
| Supplier Deliveries | 43.5 | 44.6 | -1.1 | Faster | Faster | 8 |
| Inventories | 45.8 | 46.3 | -0.5 | Contracting | Faster | 3 |
| Customers' Inventories | 51.4 | 51.3 | +0.1 | Too High | Faster | 2 |
| Prices | 44.2 | 53.2 | -9.0 | Decreasing | From Increasing | 1 |
| Backlog of Orders | 37.5 | 43.1 | -5.6 | Contracting | Faster | 8 |
| New Export Orders | 50.0 | 49.8 | +0.2 | Unchanged | From Contracting | 1 |
| Imports | 47.3 | 49.9 | -2.6 | Contracting | Faster | 7 |
| Overall Economy | | | | Contracting | Faster | 6 |
| Manufacturing Sector | | | | Contracting | Faster | 7 |

*Number of months moving in current direction. Manufacturing ISM® Report On Business® data has been seasonally adjusted for the New Orders, Production, Employment and Inventories indexes.



Commodities Up in Price: Aluminum; Copper (6); Electrical Components (7); Electronic Components (4); Labor — Temporary (2); and Steel* (4).

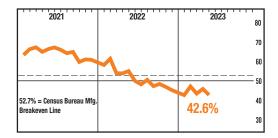
Commodities Down in Price: Corrugate (6); Diesel; Epoxy (2); Freight (7); Pallets; Paper; Plastic Resins (12); Polypropylene; Steel — Hot Rolled; Steel* (2); and Sulphur.

Commodities in Short Supply: Electrical Components (32); Electronic Components (30); Semiconductors (30); and Steel Based Products

ISM® Report On Business®

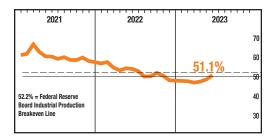
Manufacturing PMI®

Analysis by Timothy R. Fiore, CPSM, C.P.M., Chair of the Institute for Supply Management® Manufacturing Business Survey Committee



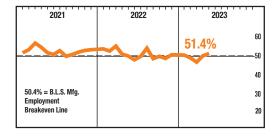
New Orders

ISM's New Orders Index contracted for the ninth consecutive month in May, registering 42.6 percent. The three manufacturing industries that reported growth in new orders in May are: Furniture & Related Products; Plastics & Rubber Products; and Miscellaneous Manufacturing‡.



Production

The Production Index registered 51.1 percent. The seven industries reporting growth in production during the month of May are, in order: Nonmetallic Mineral Products; Fabricated Metal Products; Computer & Electronic Products; Electrical Equipment, Appliances & Components; Plastics & Rubber Products; Machinery; and Transportation Equipment.



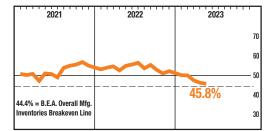
Employment

ISM's Employment Index registered 51.4 percent. Of 18 manufacturing industries, five reported employment growth in May: Nonmetallic Mineral Products; Transportation Equipment; Machinery; Electrical Equipment, Appliances & Components; and Fabricated Metal Products.



Supplier Deliveries

The delivery performance of suppliers to manufacturing organizations was faster for the eighth straight month in May, as the Supplier Deliveries Index registered 43.5 percent. Two of 18 manufacturing industries reported slower supplier deliveries in May: Textile Mills; and Transportation Equipment.



Inventories

The Inventories Index registered 45.8 percent in May, 0.5 percentage point lower than the 46.3 percent reported for April. Of 18 manufacturing industries, the two reporting higher inventories in May are: Textile Mills; and Electrical Equipment, Appliances & Components.

ISM® Report On Business®

May 2023

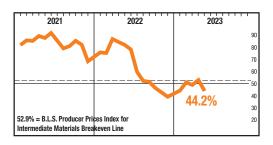
Manufacturing PMI®

Analysis by **Timothy R. Fiore, CPSM, C.P.M.**, Chair of the Institute for Supply Management® Manufacturing Business Survey Committee



Customers' Inventories

ISM's Customers' Inventories Index registered 51.4 percent. The eight industries reporting customers' inventories as too high in May are, in order: Paper Products; Electrical Equipment, Appliances & Components; Petroleum & Coal Products; Wood Products; Fabricated Metal Products; Computer & Electronic Products; Plastics & Rubber Products; and Transportation Equipment.



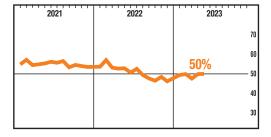
Prices

The ISM Prices Index registered 44.2 percent. In May, five industries reported paying increased prices for raw materials: Textile Mills; Nonmetallic Mineral Products; Machinery; Petroleum & Coal Products; and Transportation Equipment.



Backlog of Orders

ISM's Backlog of Orders Index registered 37.5 percent. No industries reported growth in order backlogs in May. Twelve industries reported lower backlogs in May, in the following order: Paper Products; Wood Products; Plastics & Rubber Products; Electrical Equipment, Appliances & Components; Nonmetallic Mineral Products; Primary Metals; Food, Beverage & Tobacco Products; Computer & Electronic Products; Fabricated Metal Products; Transportation Equipment; Chemical Products; and Machinery.



New Export Orders

ISM's New Export Orders Index registered 50 percent. Five industries reported growth in new export orders in May: Miscellaneous Manufacturing‡; Paper Products; Plastics & Rubber Products; Fabricated Metal Products; and Transportation Equipment.



Imports

ISM's Imports Index registered 47.3 percent in May, a decrease of 2.6 percentage points compared to April's figure of 49.9 percent. The two industries reporting an increase in import volumes in May are: Petroleum & Coal Products; and Food, Beverage & Tobacco Products.

About This Report

DO NOT CONFUSE THIS NATIONAL REPORT with the various regional purchasing reports released across the country. The national report's information reflects the entire U.S., while the regional reports contain primarily regional data from their local vicinities. Also, the information in the regional reports is not used in calculating the results of the national report.

The data presented herein is obtained from a survey of manufacturing and services supply executives based on information they have collected within their respective organizations. ISM® makes no representation, other than that stated within this release, regarding the individual company data collection procedures. The data should be compared to all other economic data sources when used in decision-making.

Data and Method of Presentation

The Manufacturing ISM® Report On Business® is based on data compiled from purchasing and supply executives nationwide. The composition of the Manufacturing Business Survey Committee is stratified according to the North American Industry Classification System (NAICS) and each of the following NAICS-based industry's contribution to gross domestic product (GDP): Food, Beverage & Tobacco Products; Textile Mills; Apparel, Leather & Allied Products; Wood 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; and Miscellaneous Manufacturing (products such as medical equipment and supplies, jewelry, sporting goods, toys and office supplies). The data are weighted based on each industry's contribution to GDP. According to the BEA estimates for 2021 GDP (released December 22, 2022), the six largest manufacturing subsectors are: Computer & Electronic Products; Chemical Products; Transportation Equipment; Food, Beverage & Tobacco Products; Machinery; and Petroleum & Coal Products.

The Services ISM® Report On Business® (formerly the Non-Manufacturing ISM® Report On Business®) is based on data compiled from purchasing and supply executives nationwide. Membership of the Services Business Survey Committee (formerly Non-Manufacturing Business Survey Committee) is diversified by NAICS, based on each industry's contribution to gross domestic product (GDP). The Services Business Survey Committee responses are divided into the following NAICS code categories: Agriculture, Forestry, Fishing & Hunting; Mining; Utilities; Construction; Wholesale Trade; Retail Trade; Transportation & Warehousing; Information; Finance & Insurance; Real Estate, Rental & Leasing; Professional, Scientific & Technical Services; Management of Companies & Support Services; Educational Services; Health Care & Social Assistance; Arts. Entertainment & Recreation; Accommodation & Food Services: Public Administration: and Other Services (services such as Equipment & Machinery Repairing; Promoting or Administering Religious Activities; Grantmaking; Advocacy; and Providing Dry-Cleaning & Laundry Services, Personal Care Services, Death Care Services. Pet Care Services, Photofinishing Services, Temporary Parking Services, and Dating Services). The data are weighted based on each industry's contribution to GDP. According to the BEA estimates for 2021 GDP (released December 22, 2022), the six largest services sectors are: Real Estate, Rental & Leasing; Government; Professional, Scientific, & Technical Services; Health Care & Social Assistance; Information; and Finance & Insurance.

Survey responses reflect the change, if any, in the current month compared to the previous month. Responses are raw data and are never changed. The diffusion index includes the percent of positive responses plus one-half of those responding the same (considered positive).

The resulting single index number for those meeting the criteria for seasonal adjustments (for Manufacturing: New Orders, Production, Employment, and Inventories) (for Services: Business Activity, New Orders, Employment and Prices) is then seasonally adjusted to allow for the effects of repetitive intra-year variations resulting primarily from normal differences in weather conditions, various institutional arrangements, and differences attributable to non-moveable holidays. The remaining indexes have not indicated significant seasonality. All seasonal adjustment factors are subject annually to relatively minor changes when conditions warrant them.

The Manufacturing PMI® is a composite index based on the diffusion indexes of five of the indexes with equal weights: New Orders (seasonally adjusted), Production (seasonally adjusted), Employment (seasonally adjusted), Supplier Deliveries, and Inventories (seasonally adjusted). The Services PMI® is a composite index based on the diffusion indexes for four of the indicators with equal weights: Business Activity (seasonally adjusted), New Orders (seasonally adjusted), Employment (seasonally adjusted) and Supplier Deliveries.

Diffusion indexes have the properties of leading indicators and are convenient summary measures showing the prevailing direction of change and the scope of change.

A Manufacturing PMI® reading above 50 percent indicates that the manufacturing economy is generally expanding; below 50 percent indicates that it is generally declining. A Manufacturing PMI® above 48.7 percent, over a period of time, indicates that the overall economy, or gross domestic product (GDP), is generally expanding; below 48.7 percent, it is generally declining.

The distance from 50 percent or 48.7 percent is indicative of the extent of the expansion or decline. A Services PMI® reading above 50 percent indicates that the services economy is generally expanding; below 50 percent indicates that it is generally declining. A Services PMI® above 49.9 percent, over time, indicates that the overall economy, or gross domestic product (GDP), is generally expanding; below 49.9 percent, it is generally declining. The distance from 50 percent or 49.9 percent is indicative of the strength of the expansion or decline. With some of the indicators within the Manufacturing ISM® Report On Business®, ISM® has indicated the departure point between expansion and decline of comparable government series, as determined by regression analysis.

The Report On Business® surveys are sent out to Manufacturing and Services Business Survey Committee respondents the first part of each month. Respondents are asked to report on information for the current month for U.S. operations only. ISM® receives survey responses throughout most of any given month, with the majority of respondents generally waiting until late in the month to submit responses to give the most accurate picture of current business activity.

The industries reporting growth, as indicated in the monthly reports, are listed in the order of most growth to least growth. For the industries reporting contraction or decreases, those are listed in the order of the highest level of contraction/decrease to the least level of contraction/decrease

ISM ROB Content

The Institute for Supply Management® ("ISM®") Report On Business® (Manufacturing, Services, and Hospital reports) ("ISM ROB") contains information, text, files, images, video, sounds, musical works, works of authorship, applications, and any other materials or content (collectively, "Content") of ISM ("ISM ROB Content"). ISM ROB Content is protected by copyright, trademark, trade secret, and other laws, and as between you and ISM, ISM owns and retains all rights in the ISM ROB Content. ISM hereby grants you a limited, revocable, nonsublicensable license to access and display on your individual device the ISM ROB Content (excluding any software code) solely for your personal, non-commercial use. The ISM ROB Content shall also contain Content of users and other ISM licensors. Except as provided herein or as explicitly allowed in writing by ISM, you shall not copy, download, stream, capture, reproduce, duplicate, archive, upload, modify, translate, publish, broadcast, transmit, retransmit, distribute, perform, display, sell, or otherwise use any ISM ROB Content.

Except as explicitly and expressly permitted by ISM, you are strictly prohibited from creating works or materials (including but not limited to tables, charts, data streams, time-series variables, fonts, icons, link buttons, wallpaper, desktop themes, online postcards, montages, mashups and similar videos, greeting cards, and unlicensed merchandise) that derive from or are based on the ISM ROB Content. This prohibition applies regardless of whether the derivative works or materials are sold, bartered, or given away. You shall not either directly or through the use of any device, software, internet site, web-based service, or other means remove, alter, bypass, avoid, interfere with, or circumvent any copyright, trademark, or other proprietary notices marked on the Content or any digital rights management mechanism, device, or other content protection or access control measure associated with the Content including geo-filtering mechanisms. Without prior written authorization from ISM, you shall not build a business utilizing the Content, whether or not for profit.

You shall not create, recreate, distribute, incorporate in other work, or advertise an index of any portion of the Content unless you receive prior written authorization from ISM. Requests for permission to reproduce or distribute ISM ROB Content can be made by contacting in writing at: ISM Research, Institute for Supply Management, 309 West Elliot Road, Suite 113, Tempe, Arizona 85284-1556, or by emailing kcahill@ismworld.org. Subject: Content Request.

ISM shall not have any liability, duty, or obligation for or relating to the ISM ROB Content or other information contained herein, any errors, inaccuracies, omissions or delays in providing any ISM ROB Content, or for any actions taken in reliance thereon. In no event shall ISM be liable for any special, incidental, or consequential damages, arising out of the use of the ISM ROB. Report On Business®, PMI®, Manufacturing PMI®, Services PMI®, and Hospital PMI® are registered trademarks of Institute for Supply Management®. Institute for Supply Management, Inc.

About Institute for Supply Management®

Institute for Supply Management® (ISM®) serves supply management professionals in more than 90 countries. Its 50,000 members around the world manage about US\$1 trillion in corporate and government supply chain procurement annually. Founded in 1915 as the first supply management institute in the world, ISM is committed to advancing the practice of supply management to drive value and competitive advantage for its members, contributing to a prosperous and sustainable world. ISM leads the profession through the ISM® Report On Business®, its highly regarded certification programs and the ISM Advance® Digital Platform. This report has been issued by the association since 1931, except for a four-year interruption during World War II.