



Marquette ISM® Report on Manufacturing September 2021- Early Release

Contact: Dr. Marko Bastl

Associate Professor of Supply Chain Management Director, Center for Supply Chain Management

Marquette University (414) 288-6866

Marko.Bastl@marquette.edu

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The Marquette-ISM Report on Manufacturing was prepared by **Onamica Dhar**, graduate student in Applied Economics at Marquette University, and distributed by **Kelly Wesolowski**, Associate Director of the Center for Supply Chain Management.

Please direct data questions and requests for media commentary to Dr. Marko Bastl.

This report should not be confused with the Report On Business[®], PMI[®], NMI[®], published by the Institute of Supply Management[®] (ISM[®]). While a reasonable attempt has been made to remain consistent with the national report, the contents of this report reflect only information pertinent to the southeast Wisconsin and northern Illinois region. This report is not used in the calculation of the national report.

Summary

Milwaukee-area PMI	September 2021	August 2021	July 2021
Seasonally adjusted	58.66	57.81	57.54

(Milwaukee, Wisconsin) – September's Index registered at 58.66, an increase from 57.81 in August. September's index indicates positive territory.

What are respondents saying in September 2021:

- Investment in businesses is increasing.
- Raw materials and logistic costs are still higher.
- Employment shortage is still a big challenge. However, labor supply is slowly increasing.
- Lead time remains a major issue. Prices of materials are still high.
- Raw material delivery is still challenging.
- Optimistic about problem recovery.

Important: See explanatory notes on the survey and diffusion index at the end of this report.

MANUFACTURING AT A GLANCE: September 2021*				
	Series	Series	Percentage	
Index	Index	Index	Point	Direction
	Sep-21	Aug-21	Change	
РМІ	58.66	57.81	0.9	growing
New Orders	49.60	62.66	-13.1	declining
Production	51.07	53.32	-2.3	growing
Employment	58.30	49.55	8.7	growing
Supplier Deliveries	89.42	90.18	-0.8	declining
Inventories	44.92	33.34	11.6	declining
Customers' Inventories *	25.00	28.57	-3.6	declining
Prices *	89.47	94.74	-5.3	growing
Backlog of Orders *	73.53	76.32	-2.8	growing
Exports *	45.00	58.33	-13.3	declining
Imports *	59.09	46.15	12.9	growing

(*) The indices are seasonally adjusted except for the Customers' Inventories, Prices, Backlog of Orders, Exports, and Imports Indexes, which do not meet the accepted criteria for seasonal adjustments. **Note**: A reading above 50 percent indicates that the manufacturing economy is generally expanding (**growing**); below 50 percent indicates that it is generally contracting (**declining**). Supplier Deliveries is the one exception, where it is the reversed relationship. Above 50 percent indicates declining, below 50 percent indicates growing.

What are respondents saying in September 2021:

- Longer lead time still causing longer holding time.
- Staffing is a major problem.
- Still dealing with material delays and delivery problems.
- Customers are adjusting to create more safety stock.

We have collected input on Blue and White Collar Employment. The indices are below for **September 2021**, **August 2021**, and **July 2021**.

	Diffusion Index Sep-21	Diffusion Index Aug-21	Diffusion Index July-21	Direction	Comments
Blue Collar	55.7	46.9	60.7	growing	-
White Collar	53.0	46.9	58.1	growing	-

Note: These have been calculated based on the seasonally adjusted (SA) Blue and White Collar indices. A reading above 50 percent indicates that the manufacturing economy is generally expanding (**growing**); below 50 percent indicates that it is generally contracting (**declining**).

What are respondents saying in 2021:

- Shortage of materials decreases working progress.
- Increase in the number of due orders.
- Employment increased in comparison to previous months.

Buying Policy

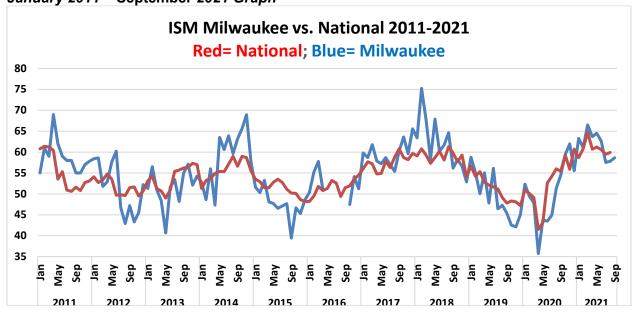
Average commitment lead-time for Capital Expenditures decreased from 152 to 137 days. Average lead-time for Production Materials increased from 92 to 98 days. Average lead-time for Maintenance, Repair and Operating (MRO) Supplies increased from 42 to 47days.

Six- Month Outlook on Business Conditions

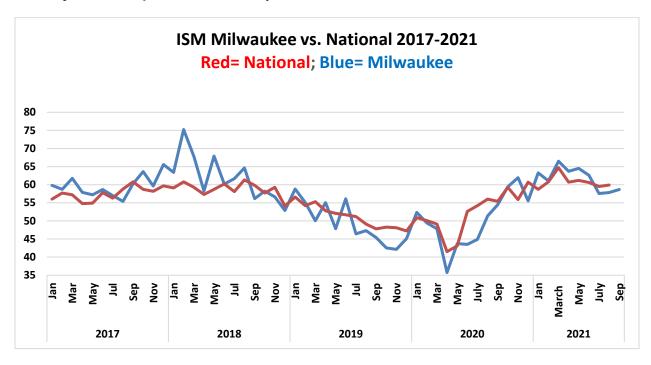
In this outlook, there is a downward shift in negative expectations compared with September and August in terms of market conditions. Approximately 32% of respondents expect positive conditions, 47% expect conditions to remain the same and 21% of the respondents expect conditions to worsen within the next six months.

	Expect Positive Conditions	Expect Same Conditions	Expect Worse Conditions	Diffusion Index
21-Sep	31.58%	47.37%	21.05%	55.26%
21-Aug	33.33%	38.89%	27.78%	52.78%
21-Jul	50.00%	31.25%	18.75%	65.63%

Milwaukee versus the Nation – January 2011 – September 2021 Graph



January 2017 - September 2021 Graph



Insights on the ISM® PMI® from Institute for Supply Management®:

ISM® Manufacturing Report On Business® Background

In February 1982, the PMI® was developed by the U.S. Department of Commerce (DOC) and ISM. The index, based on analytical work by the DOC, adjusts five components of the Institute's monthly survey — new orders, production, employment, supplier deliveries and inventories — for normal seasonal variations, applies equal weights to each and then calculates them into a single monthly index number.

An update of research originally done by Theodore S. Torda, the late economist for the DOC, shows a close parallel between growth in real Gross Domestic Product (GDP) and the PMI®. The index can explain about 60 percent of the annual variation in GDP, with a margin of error that averaged ± .48 percent during the last ten years. George McKittrick, an economist at the DOC, said "Not only does the PMI® track well with the overall economy, but the indication provided by ISM data about how widespread changes are, complements analogous government series that show size and direction of change."

In January 1989, the Supplier Deliveries Index from the Report became a standard element of the DOC's Bureau of Economic Analysis Index of Leading Economic Indicators. The data was incorporated into the index from June 1976 forward. In January 1996, The Conference Board began compiling this index.

What Is a Diffusion Index?

Diffusion indexes have the properties of leading indicators and are convenient summary measures showing the prevailing direction of change. The percent response to the "Better," "Same" or "Worse" question is difficult to compare to prior periods. Therefore, the percentages are "diffused" for this purpose. A diffusion index takes those indicating "Better" and half of those indicating "Same" and adds the percentages. This effectively measures the bias toward a positive (above 50 percent) or negative index (below 50 percent). For example, if the response is 20 percent "Better," 70 percent "Same," and 10 percent "Worse," then the diffusion index would be 55 percent $(20\% + [0.50 \times 70\%])$. The data for each question is converted to a diffusion index and then seasonally adjusted.

For each index, a reading above 50 percent indicates expansion of an index, while a reading below 50 percent indicates it is generally declining. And a reading of 50 percent indicates "no change" from the previous month. Supplier Deliveries is an exception. A Supplier Deliveries Index above 50 percent indicates slower deliveries, and below 50 percent indicates faster deliveries.

https://www.ismworld.org/supply-management-news-and-reports/reports/ism-report-on-business/