

Marquette ISM® Report on Manufacturing
July 2021- Early Release

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Released: July 30th, 2021

The Marquette-ISM Report on Manufacturing was prepared by Owen Liebelt and Onamica Dhar, graduate students 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	July 2021	June 2021	May 2021
Seasonally adjusted	57.54	62.62	64.49

(Milwaukee, Wisconsin) – July’s Index registered at 57.54, a decrease from 62.62 in June. July’s index indicates positive territory.

What respondents are saying in July 2021:

- Shortages curtail production and sales causing customers to go elsewhere; mixed with labor shortages these issues are placing a hold on what would be growth.
- “We are down 12 positions, no applicants”
- It is very difficult to get parts on time per acknowledged orders, as well as getting complete Purchase Order quantities.
- Prices are increasing along a wide spectrum of commodities.
- No improvement on material lead time and labor shortages.
- The chip shortage continues to be an issue, as well as transportation out of the Asia region.

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

MANUFACTURING AT A GLANCE: July 2021*				
Index	Series	Series	Percentage Point Change	Direction
	Index	Index		
	Jul-21	Jun-21		
PMI	57.54	62.62	-5.1	growing
New Orders	57.26	78.82	-21.6	growing
Production	40.29	47.71	-7.4	declining
Employment	60.67	49.61	11.1	growing
Supplier Deliveries	87.45	86.54	0.9	declining
Inventories	42.05	50.40	-8.4	declining
Customers' Inventories *	10.00	25.00	-15.0	declining
Prices *	94.74	93.33	1.4	growing
Backlog of Orders *	75.00	67.86	7.1	growing
Exports *	57.14	56.25	0.9	growing
Imports *	60.00	66.67	-6.7	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 respondents are saying in July 2021:

- Quoting a lot, but not receiving many orders; customers are searching around for suppliers lead times.
- Ordering in bulk to decrease inflated prices and receive better lead times.
- Safety stock is running out, few suppliers with inventory to replenish.
- Seeing additional 3-4 weeks on delivery times versus what was originally projected on some parts.

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

	Diffusion Index Jul-21	Diffusion Index Jun-21	Diffusion Index May-21	Direction	Comments
Blue Collar	60.7	49.6	49.5	growing	-
White Collar	58.1	49.6	58.2	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 respondents are saying in July 2021:

- Hard to get new employees, and when we do, they do not stick around long.
- We could run more machines and produce more if we had the people and materials, both are short.

Buying Policy

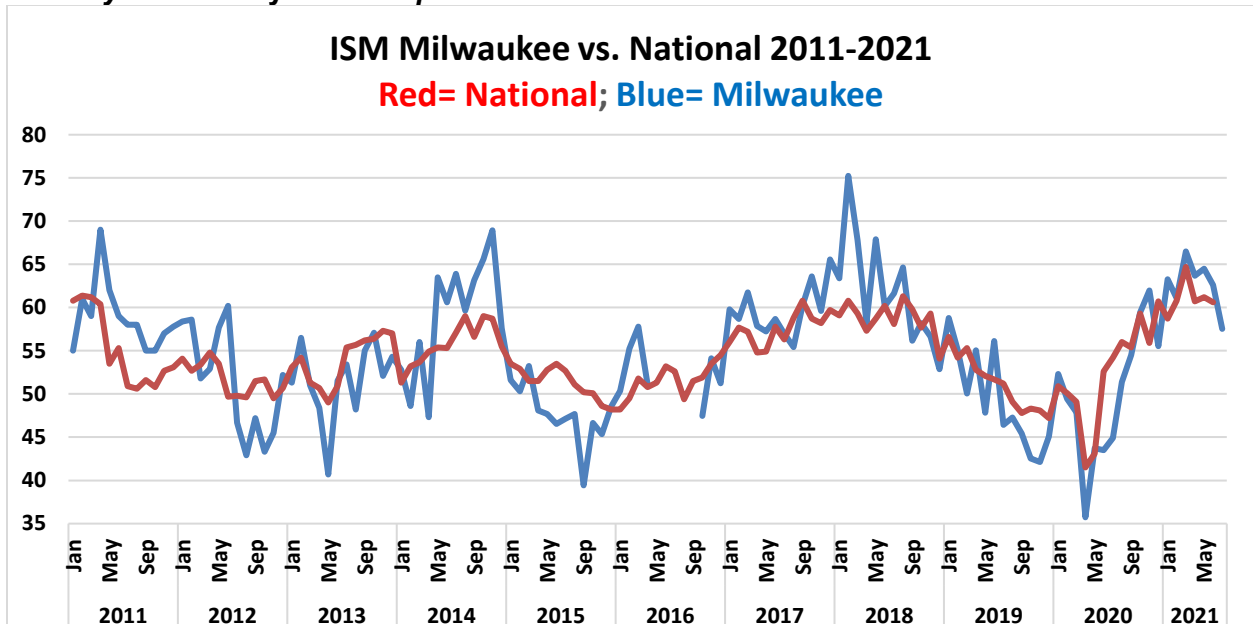
Average commitment lead-time for Capital Expenditures decreased from 146 to 139 days. Average lead-time for Production Materials remained at 82 days. Average lead-time for Maintenance, Repair and Operating (MRO) Supplies increased from 31 to 43 days.

Six- Month Outlook on Business Conditions

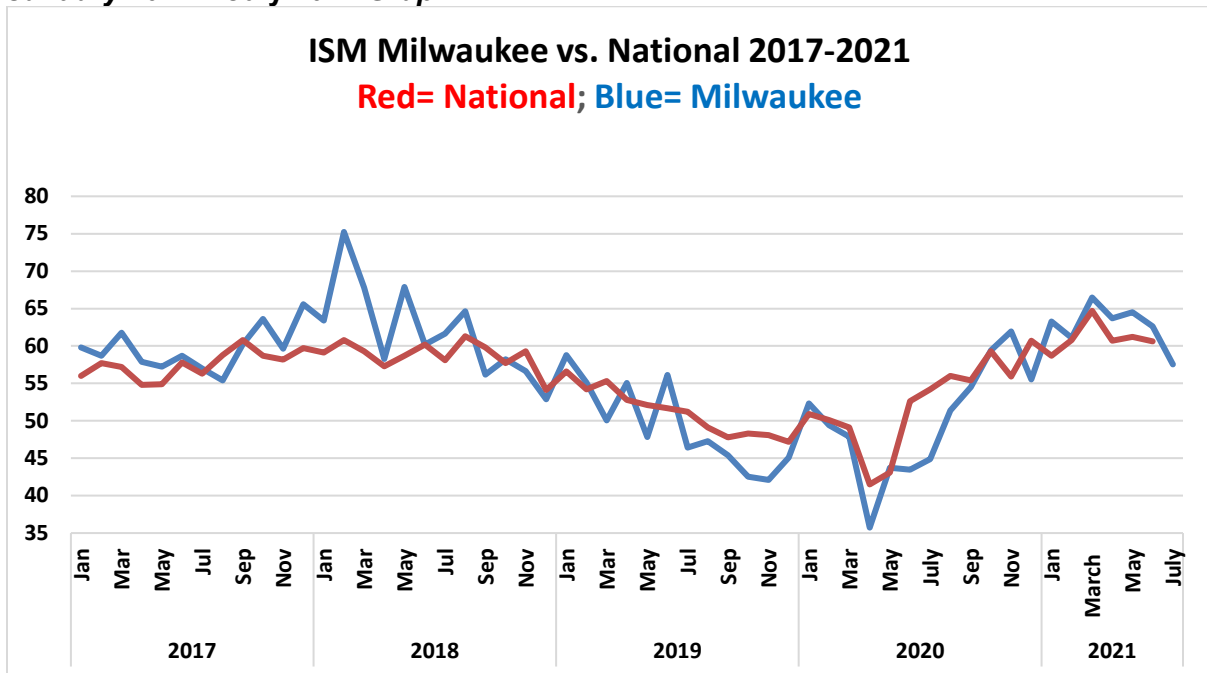
In this outlook, there is an upward shift in negative expectations compared with June and May in terms of market conditions. Approximately 50% of respondents expect positive conditions, 31% expect conditions to remain the same and 19% of the respondents expect conditions to worsen within the next six months.

	Expect Positive Conditions	Expect Same Conditions	Expect Worse Conditions	Diffusion Index
21-Jul	50.00%	31.25%	18.75%	65.63%
21-Jun	46.15%	46.15%	7.69%	69.23%
21-May	41.18%	47.06%	11.76%	64.71%

**Milwaukee versus the Nation –
January 2011 – July 2021 Graph**



January 2017 – July 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 $\pm .48$ 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/>