

# Purchasing Managers Index of Puerto Rico Manufacturing

## November 2022



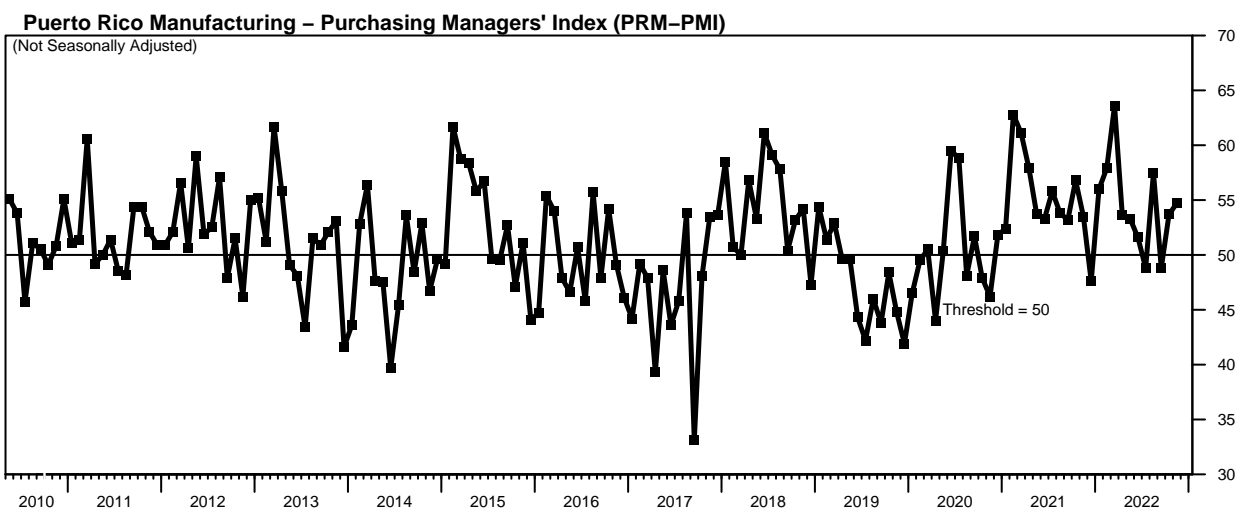
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### PUERTO RICO MANUFACTURING PMI INCREASED TO 54.7 IN NOVEMBER

The Purchasing Managers Index (PMI) for Puerto Rico's manufacturing sector is a collaborative effort between the Puerto Rico Manufacturers Association and the Puerto Rico Institute of Statistics. On a Non-Seasonally Adjusted (NSA) basis, the Purchasing Managers Index (PMI) for Puerto Rico's manufacturing sector increased to 54.7 in November 2022. A reading above the threshold level of 50 suggests an expansion in the manufacturing sector with respect to the previous month. Own inventories and Supplier Deliveries sub-indexes increased with respect to the previous month. On a positive note, all sub-indexes were at or above the threshold level of 50. In a supplemental survey of manufacturing establishments, the biggest challenges faced by companies during the past month were: in operations (shortage of raw material 18%, changing consumer preferences 6%, cash flow management 6%, lead times 6%, maintenance and repair of machinery and equipment 6%), human resources (employment 41%, absenteeism 6%) and utilities (energy costs 12%, unreliable utilities 6%, fuel supply 6%). The Puerto Rico Manufacturing-Purchasing Managers Index (PRM-PMI) has been at or above the threshold level in 92 of the 150 months since the survey was first undertaken. The PRM-PMI is currently available only on a Non- Seasonally Adjusted (NSA) basis which means that seasonal fluctuations can affect its performance.



**Table 1. Puerto Rico Manufacturing – Purchasing Managers' Index (NSA): November 2022**

	Better	Same	Worse	Index		
Órdenes nuevas	15.8	73.7	10.5	52.6	Higher	New orders
Producción	26.3	52.6	21.1	52.6	Higher	Production
Empleo	10.5	78.9	10.5	50	Same	Employment
Entregas de suplidores	5.3	94.7	0	52.6	Slower	Supplier deliveries
Inventarios de su empresa	31.6	68.4	0	65.8	Higher	Own inventories
<b>Puerto Rico Manufacturing – Purchasing Managers Index (NSA)</b>				<b>54.7</b>	<b>Expansion</b>	

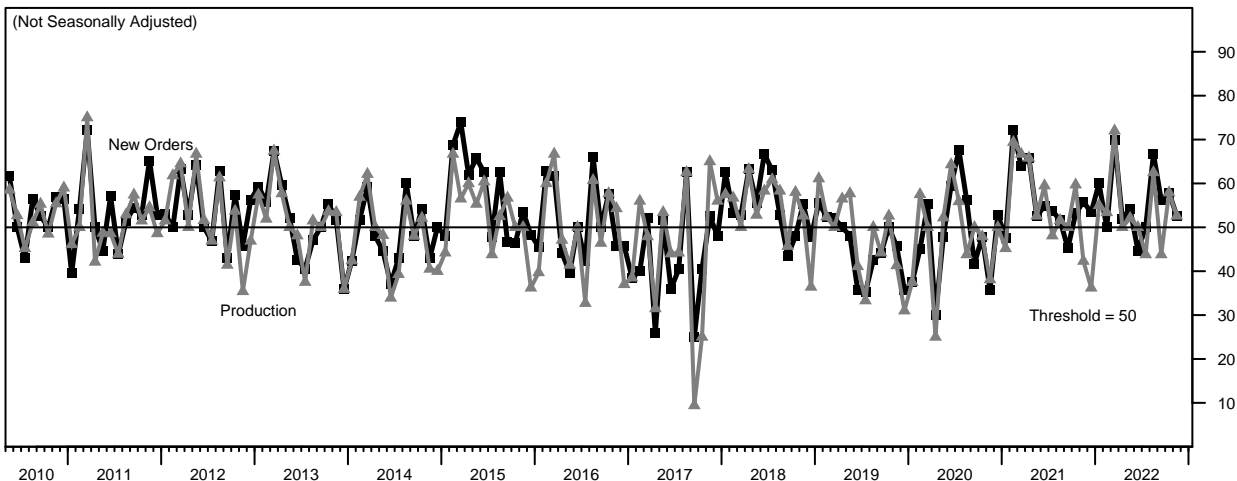
Note: Not Seasonally Adjusted (NSA)

## New Orders

In November, the New Orders PMI (NSA) decreased to 52.6, staying at or above the threshold for five consecutive months. A reading above 50 suggests that on a Non-Seasonally adjusted (NSA) basis, new orders at manufacturing establishments in November were higher than October.

## Production

The Production PMI (NSA) decreased to 52.6 in November, being above the threshold for two consecutive months. A reading above 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, manufacturing production in November was higher than October.

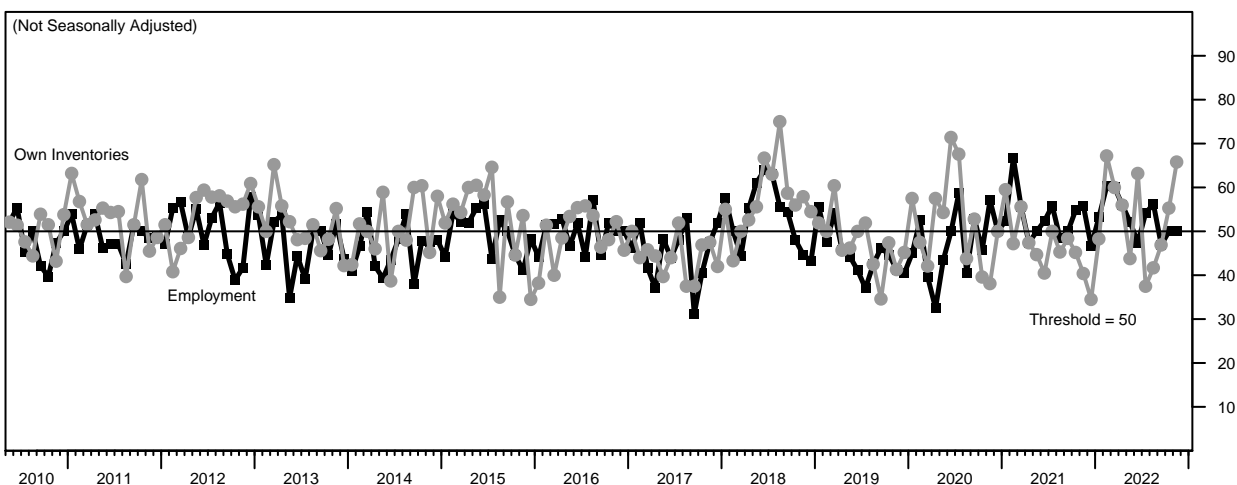


## Employment

In November, the Employment PMI (NSA) was 50.0, being at the threshold for two consecutive months. A reading at 50 suggests that on a Non-Seasonally Adjusted (NSA) basis, manufacturing employment in November was the same as in October.

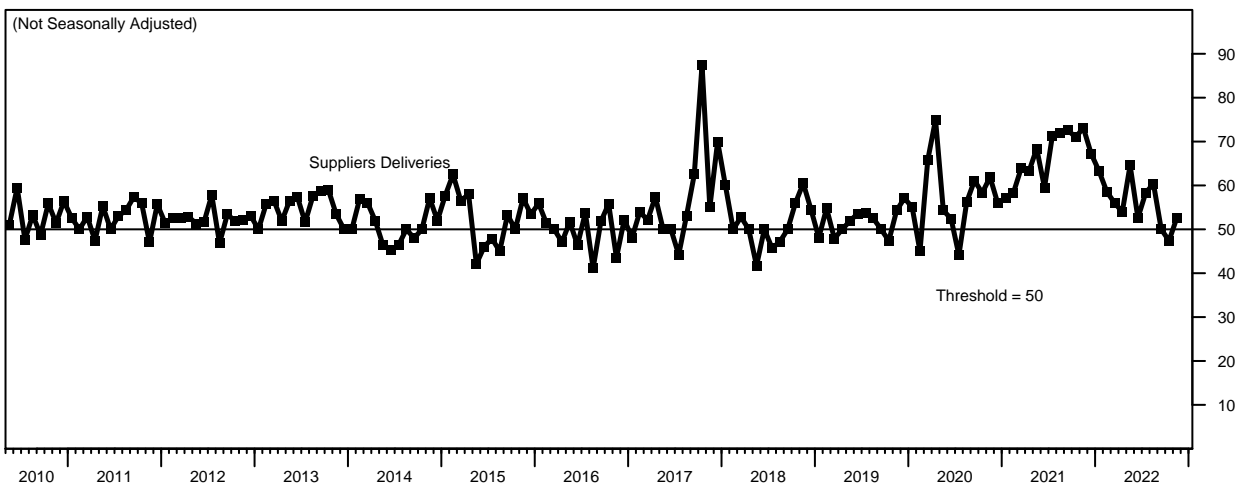
## Own Inventories

In November, the Own Inventories PMI (NSA) increased to 65.8, staying above the threshold for two consecutive months. A reading above 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, inventories in manufacturing establishments in November were higher than in October.



## Supplier Deliveries

The Supplier Deliveries PMI (NSA) increased to 52.6 in November, after being below the threshold last month. A reading above the threshold of 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, the speed of supplier deliveries in November was lower than in October.



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### Methodological note

The Puerto Rico Manufacturing-Purchasing Managers Index (PRM-PMI) is the result of a collaborative project between the Puerto Rico Manufacturers Association and the Puerto Rico Institute of Statistics. The PRM-PMI measures short-run business conditions in Puerto Rico's manufacturing sector and provides a broad-based metric for the productive side of Puerto Rico's economy. It is currently in a testing phase to ensure a reliable methodology. The methodology is similar to PMI surveys conducted elsewhere. The survey questionnaire is available at <https://estadisticas.pr/encuestas/puerto-rico-manufacturing>. The participants include manufacturing establishments with 50 or more employees with membership in the Puerto Rico Manufacturers Association. Currently, results are presented on a Non-Seasonally Adjusted (NSA) basis. In the future, with sufficient data points, a seasonally adjusted version of the PRM-PMI will be prepared, which will smooth away the influence of any seasonal fluctuations.

The PRM-PMI is calculated as the simple average of 5 sub-indexes, representing different business conditions in manufacturing establishments: New Orders PMI, Production PMI, Employment PMI, Supplier Deliveries PMI, Own Inventories PMI. The sub-indexes are computed using a diffusion index methodology. Specifically, for any given month with respect to the previous month, participants are asked to answer whether the business condition of the establishment: (1) improved, (2) remained the same, or (3) deteriorated. Diffusion indexes are calculated as the percentage of responses that indicate the business condition improved plus half of the percentage of responses that indicate the business condition remained the same. Responses that indicate the business condition deteriorated are not taken into account in calculating diffusion indexes. The survey also includes questions on other business conditions. The diffusion indexes that correspond to these questions are currently under evaluation.

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## Publication calendar

The monthly PRM-PMI report is published at 10:00 a.m. on the first business day of the month. In specific, the table below shows the expected publication dates of the PRM-PMI report during calendar year 2022:

Reference month	Publication date
Nov-22	January 10, 2023
Dec-22	February 2, 2023
Jan-23	March 2, 2023
Feb-23	April 3, 2023
Mar-23	May 1, 2023
Apr-23	June 1, 2023

Reference month	Publication date
May-23	July 6, 2023
Jun-23	August 2, 2023
Jul-23	September 6, 2023
Aug-23	October 2, 2023
Sep-23	November 2, 2023
Oct-23	December 4, 2023