

Purchasing Managers Index of Puerto Rico Manufacturing

April 2020



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PUERTO RICO MANUFACTURING PMI DECREASED TO 44.0 IN APRIL

On a Non-Seasonally Adjusted (NSA) basis, the Purchasing Managers Index (PMI) for Puerto Rico's manufacturing sector decreased to 44.0 in April. A reading below the threshold level suggests a contraction in the manufacturing sector with respect to the previous month. The Suppliers Deliveries and the Own Inventories sub-indexes increased with respect to the previous month. On a positive note, the Suppliers Deliveries and the Own Inventories sub-indexes were at or above the threshold level of 50. In a supplemental survey of manufacturing establishments, only 15% of the respondents indicated that their operations ceased following the health measurements taken by the government due to the COVID-19 pandemic. Factors affected by the pandemic in the manufacturing were: a reduction in suppliers' deliveries (45%), a reduction in demand (40%), a reduction in inventory (40%), a reduction in staff (35%), and others (20%). The Puerto Rico Manufacturing-Purchasing Managers Index (PRM-PMI) has been at or above the threshold level in 67 of the 120 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.

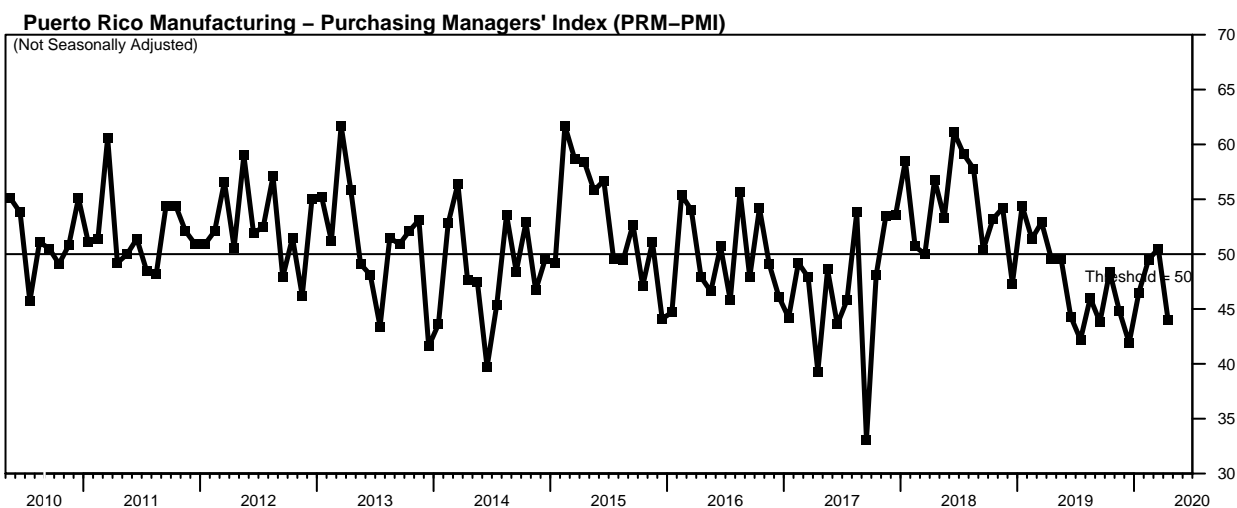


Table 1. Puerto Rico Manufacturing – Purchasing Managers' Index (NSA): April 2020

	Better	Same	Worse	PMI		
Órdenes nuevas	10	40	50	30	Lower	New orders
Producción	15	20	65	25	Lower	Production
Empleo	5	55	40	32.5	Lower	Employment
Entregas de suplidores	50	50	0	75	Slower	Supplier deliveries
Inventarios de su empresa	45	25	30	57.5	Higher	Own inventories
Puerto Rico Manufacturing – Purchasing Managers Index (NSA)				44	Contraction	

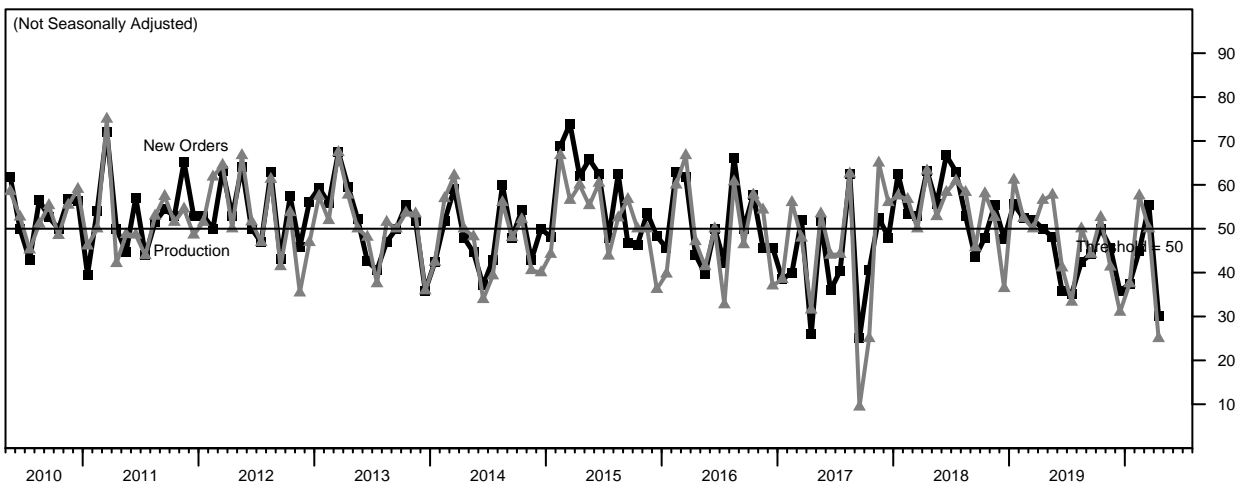
Note: Not Seasonally Adjusted (NSA)

New Orders

In April, the New Orders PMI (NSA) dropped below the threshold level to 30.0. A reading below 50 indicates that on a Non-Seasonally adjusted (NSA) basis, new orders at manufacturing establishments in April were lower than in March.

Production

The Production PMI (NSA) decreased to 25.0 in April, after having reached 50 last month. A reading of below 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, manufacturing production in April were lower than in March.

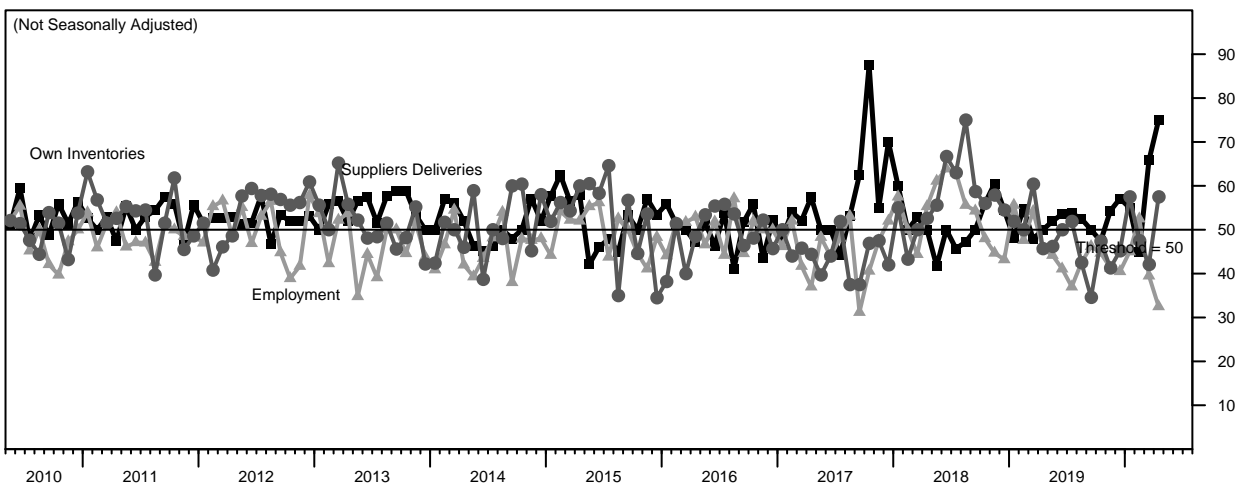


Employment

In April, the Employment PMI (NSA) decreased to 32.5. A reading below 50 suggests that on a Non-Seasonally Adjusted (NSA) basis, manufacturing employment in April were lower than in March.

Supplier Deliveries

The Supplier Deliveries PMI (NSA) climbed up to 75.0 in April, being above the threshold level. A reading above the threshold of 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, the speed of supplier deliveries in April was slower than in March.



Own Inventories

In April, the Own Inventories PMI (NSA) increased to 57.5, being above the threshold level of 50. A reading above 50 indicates that on a Non-Seasonally Adjusted (NSA) basis, inventories in manufacturing establishments in April were higher than in March.

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 2020:

Reference month	Publication date
Nov-19	January 2, 2020
Dec-19	February 3, 2020
Jan-20	March 3, 2020
Feb-20	April 1, 2020
Mar-20	May 1, 2020
Apr-20	June 1, 2020

Reference month	Publication date
May-20	July 1, 2020
Jun-20	August 3, 2020
Jul-20	September 1, 2020
Aug-20	October 1, 2020
Sep-20	November 2, 2020
Oct-20	December 1, 2020