

Purchases Report

August 2023

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Important notes:

As of November 2016, unless explicitly specified otherwise, RTA uses 3-month moving average for reporting on inventory (including historical data), hence, affecting calculated values of purchases and Inventory-to-Sales Ratio. In this way, any exaggerations that might be manifest in monthly purchases data, due to regular inventory counts by members, are not emphasized.

Highlighted areas in the graphs represent time of recessions.

Explanation about how to read box plots and histograms can be found in the Appendix section.

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Disclaimer: The data and report presented herein are based solely on RTA member monthly reports on production and inventory. Occasionally, members send corrections to previously submitted data. If and when these corrections are received they are incorporated at that time. Users of this report should note while all care is taken to accurately compile the data submitted by member companies, that no warranty is made as to the accuracy of any RTA member reports.

Highlights

In August, the twelve months rolling total of purchases was marginally lower from last year. The twelve months rolling total of production continued an upward trend. Analysis of the monthly data showed production well above the seasonal norm – at the third quartile. Purchases were considerably lower than expected for this month.

Long-Term Trends

Production expanded at a 25.4% annual rate.

Purchases declined at a 0.5% annual rate.

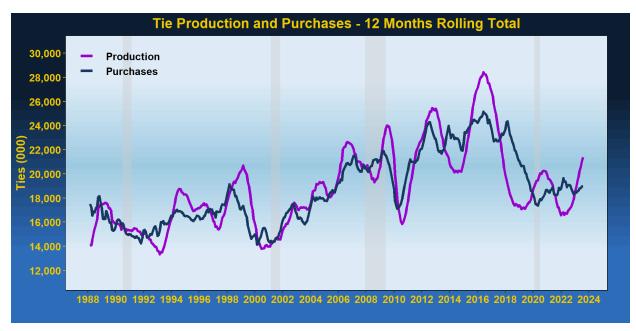
Inventory's 12 month moving average (12MMA) rose by 6.5% from a year ago levels.

Inventory-to-Sales Ratio's 12MMA increased from 0.71 to 0.75.

Table of Annual Observations

Production and Purchases are 12 months rolling totals, Inventory and ISR are 12MMA

Date	Production	Purchases	Inventory	ISR
August 2022	17,044	19,084	13,361	0.71
August 2023	21,375	18,989	14,226	0.75







Analysis of Quarterly Data

Production in Q2 advanced by 2.8% from last quarter and grew by 28.5% from a year ago.

For the same intervals, purchases rose by 13.7% and rose by 5.2% respectively.

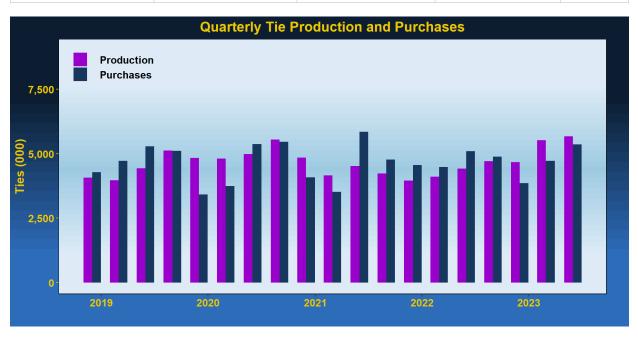
Inventory's 3MMA grew by 2.2% from last quarter and expanded by 13.8% from a year ago levels.

From Q1 2023 to Q2 2023, the 3MMA of Inventory-to-Sales Ratio advanced from 0.76 to 0.78. One year ago, the ratio was 0.68.

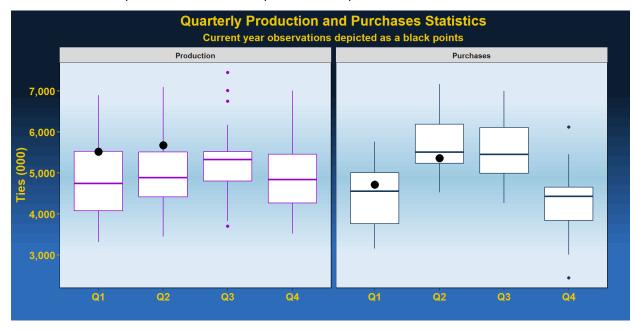
Table of Quarterly Observations

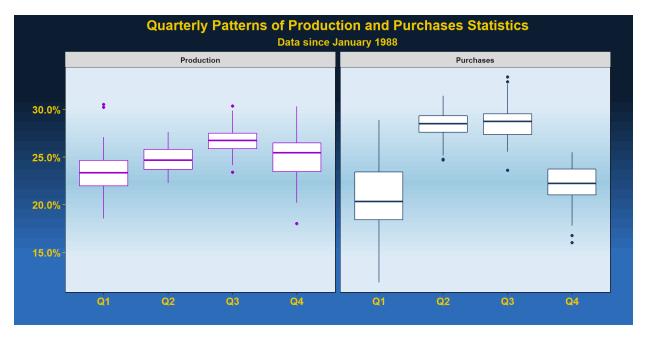
Production and Purchases Quarterly Sum, Inventory and ISR - 3MMA

Date	Production	Purchases	Inventory	ISR
June 2022	4,417	5,097	12,863	0.68
March 2023	5,524	4,714	14,325	0.76
June 2023	5,678	5,360	14,643	0.78



Quarterly pattern of production and purchases uses data from January 2000. The top graph shows data analysis within each quarter. It shows the median, upper quartile and lower quartile boundary (a more detailed explanation is available in the Appendix section). It also displays what the production and purchases were in each quarter of reporting year represented by black points in relation to quarterly statistical values. The second graph shows the contribution of each quarter to the total annual production and purchases.





Analysis of Monthly Data

Production grew by 14.1% from last month and rose by 21.1% from a year ago.

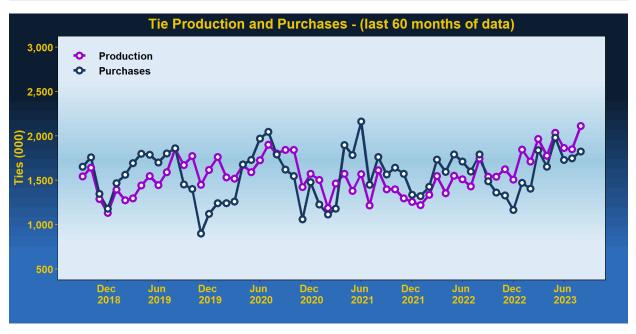
For the same time intervals, purchases increased by 4.2% and expanded by 1.7% respectively.

Inventory levels rose by 2% from last month and increased by 18.9% from a year ago levels.

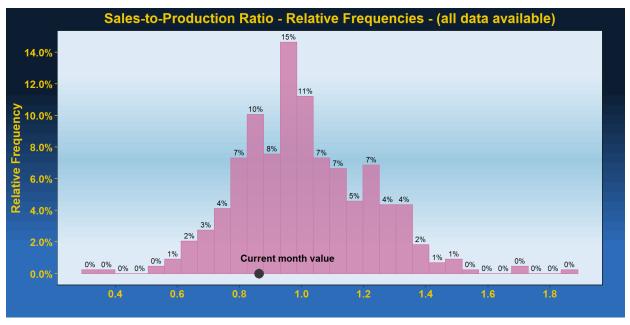
From month ago, the Inventory-to-Sales Ratio advanced from 0.78 to 0.79 and from year ago the ratio grew from 0.66.

Table of Monthly Observations

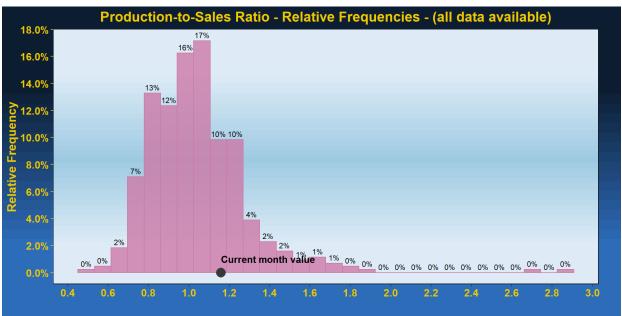
Date	Production	Purchases	Inventory	ISR
August 2022	1,743	1,792	12,646	0.66
July 2023	1,850	1,749	14,744	0.78
August 2023	2,111	1,823	15,032	0.79

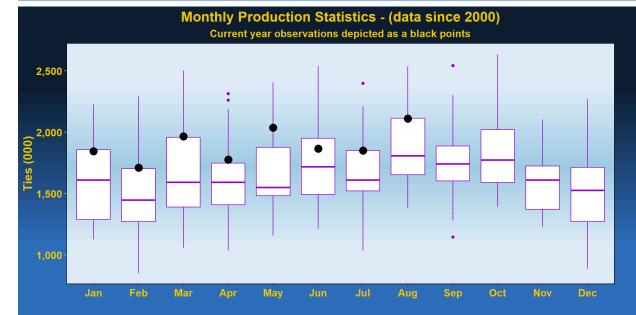


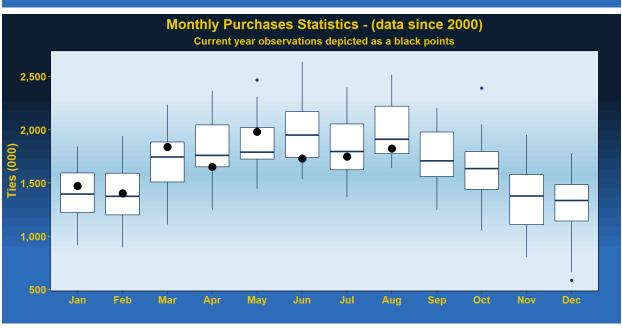
Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.

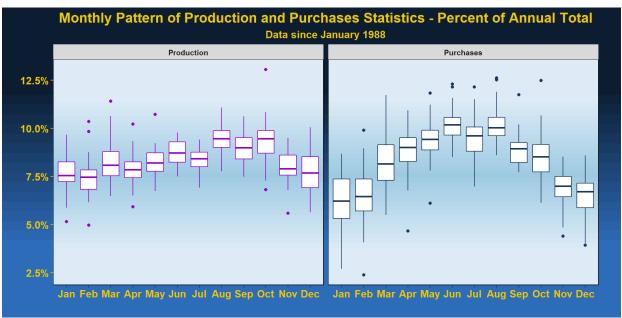


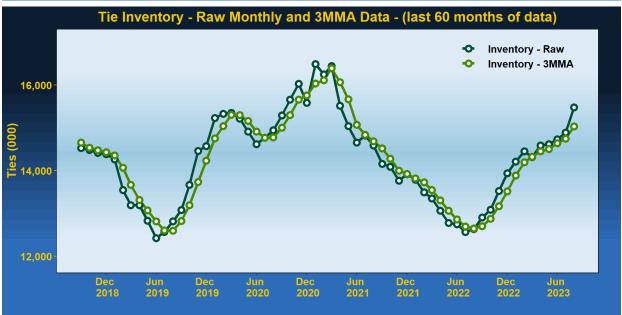
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

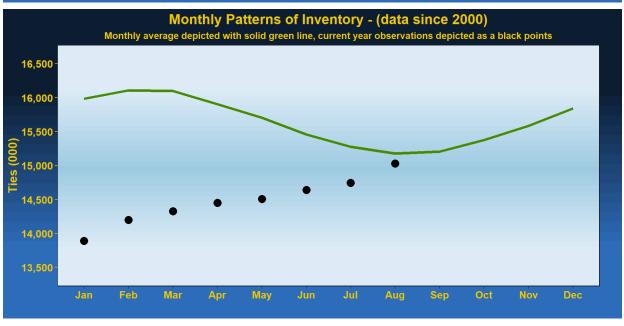


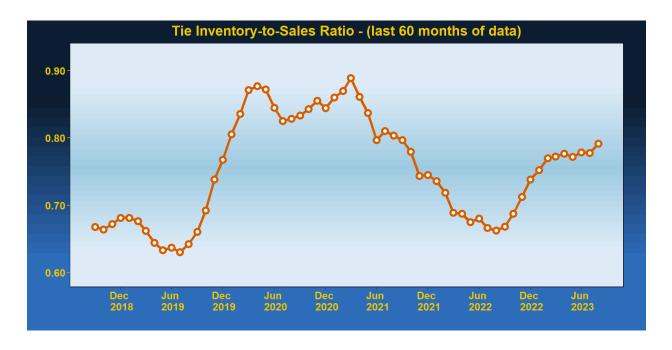




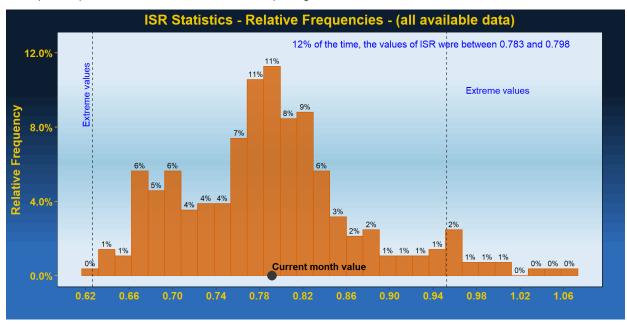








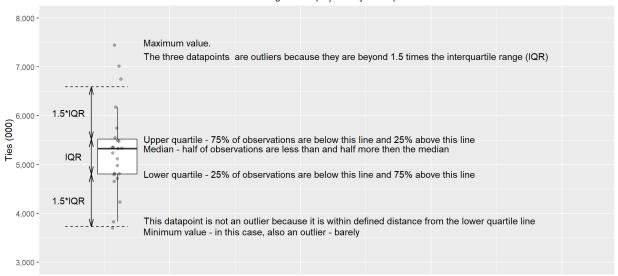
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.



Appendix

Box Plot Explained

Underluing data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

