

Purchases Report

August 2021

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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

The 12-month moving average of production continued in its declining trend while the purchases growth rate was positive. In August, tie production rebounded from July's seasonally low volume, though still below first quartile. Purchases exhibited a similar pattern.

Long-Term Trends

Production dropped at a 9.1% annual rate.

Purchases advanced at a 2.5% annual rate.

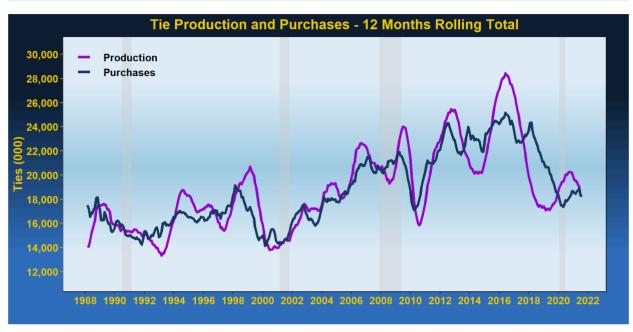
Inventory's 12 month moving average (12MMA) grew by 5.8% from year ago levels.

Inventory-to-Sales Ratio's 12MMA grew from 0.8 to 0.84.

Table of Annual Observations

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

Date	Production	Purchases	Inventory	ISR
August 2020	20,007	17,830	14,678	0.80
August 2021	18,190	18,279	15,529	0.84







Analysis of Quarterly Data

Production in Q2 increased by 8.8% from last quarter and dwindled by 9.3% from year ago.

For the same intervals, purchases increased by 66.2% and rose by 8.7% respectively.

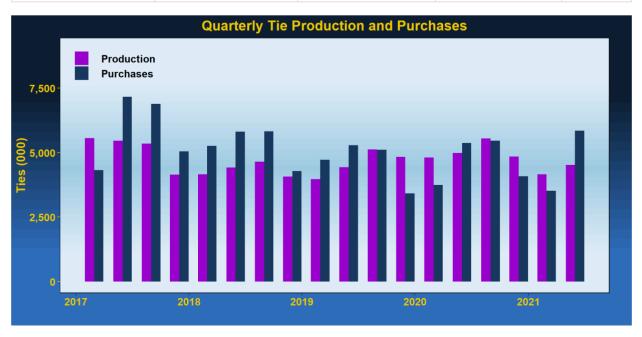
Inventory's 3MMA fell by 8.1% from last quarter and expanded by 1% from year ago levels.

From Q1 to Q2 2021, the 3MMA of Inventory-to-Sales Ratio dropped from 0.87 to 0.83. Year ago, the ratio was 0.86.

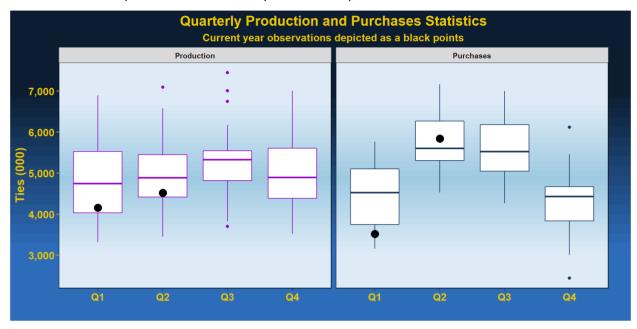
Table of Quarterly Observations

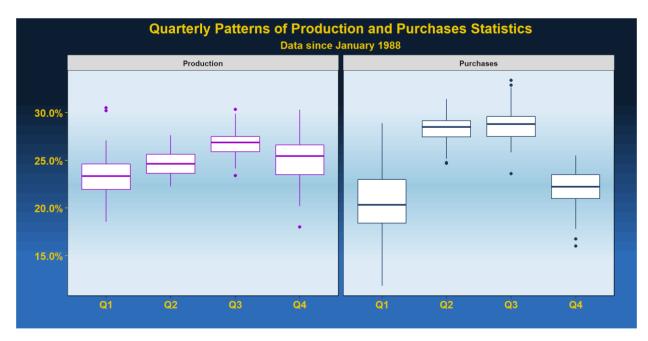
Production and Purchases Quarterly Sum, Inventory and ISR - 3MMA

Date	Production	Purchases	Inventory	ISR
June 2020	4,986	5,377	14,913	0.86
March 2021	4,154	3,517	16,393	0.87
June 2021	4,521	5,846	15,068	0.83



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 expanded by 32.6% from last month and dropped by 10.5% from year ago.

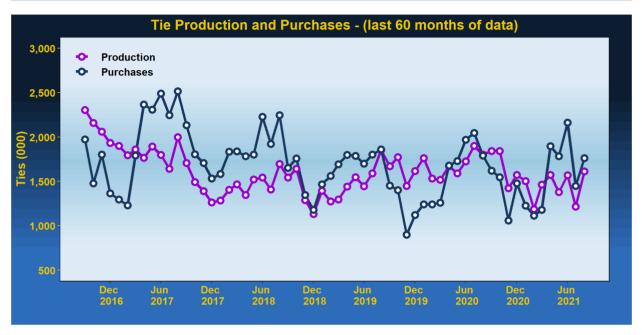
For the same time intervals, purchases rose by 21.7% and decreased by 1.6% respectively.

Inventory levels decreased by 1% from last month and came down by 0.6% from year ago levels.

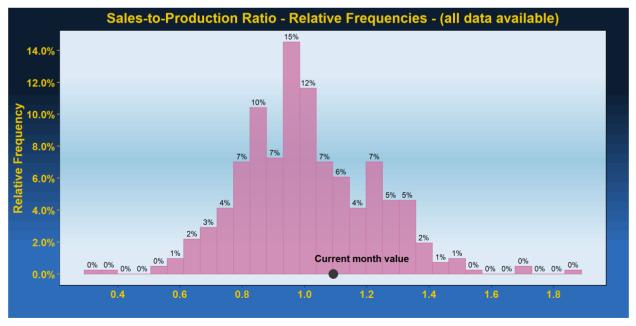
From month ago, the Inventory-to-Sales Ratio dropped from 0.81 to 0.8, and from year ago, the ratio decreased from 0.83.

Table of Monthly Observations

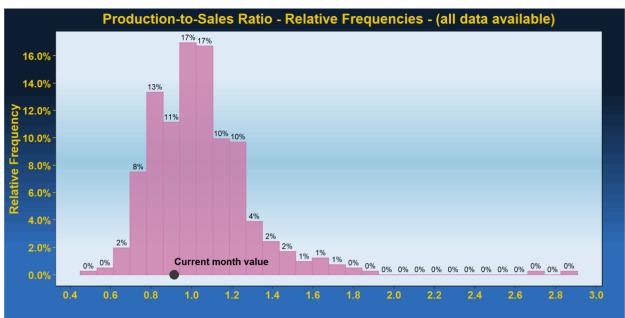
Date	Production	Purchases	Inventory	ISR
August 2020	1,803	1,793	14,776	0.83
July 2021	1,217	1,448	14,837	0.81
August 2021	1,613	1,763	14,687	0.80

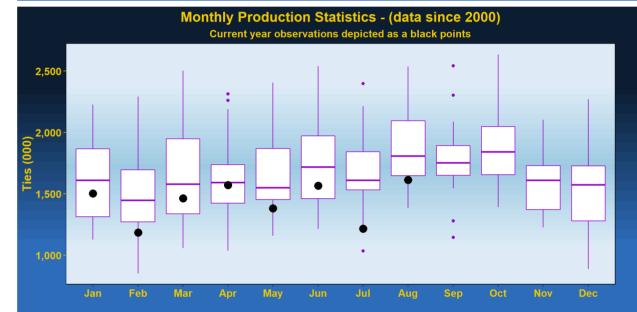


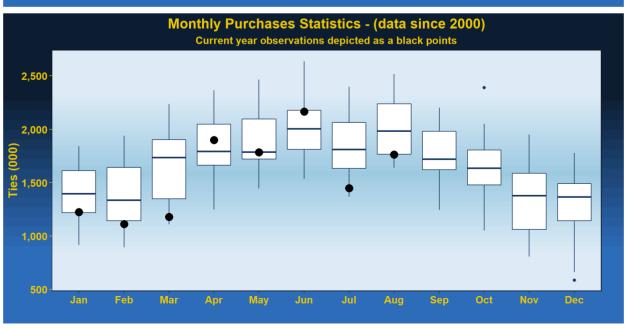
Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.

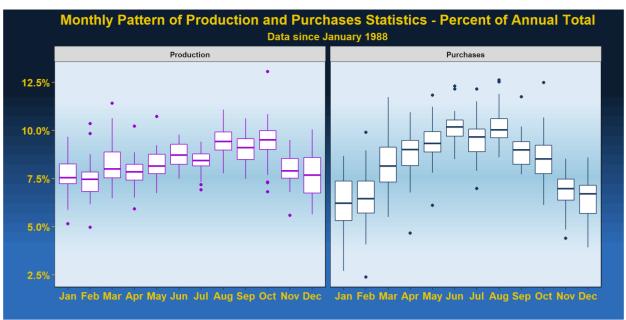


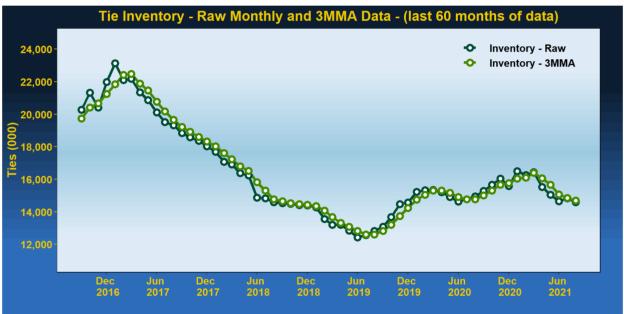
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

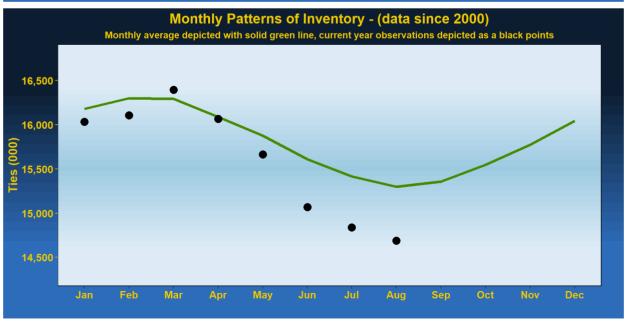


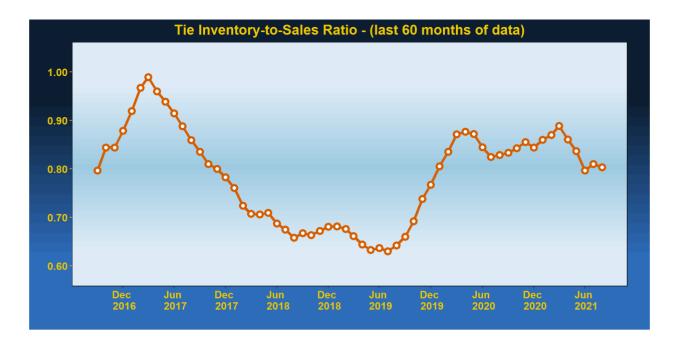




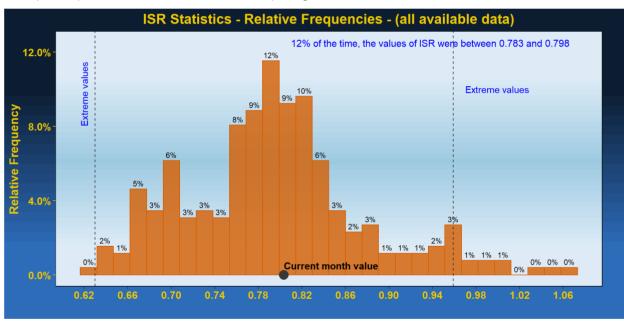








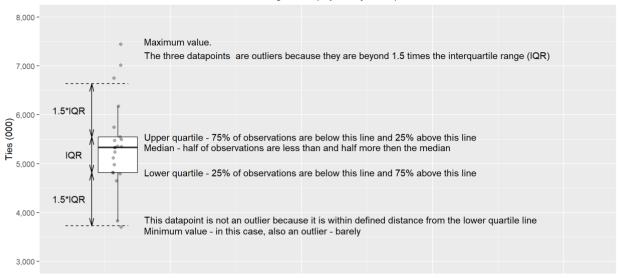
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.



Appendix

Box Plot Explained

Underluing data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

