

Purchases Report

September 2024

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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 September, the twelve-month rolling total of purchases and production both continued their upward trends. Annual production growth was 0.2% lower than the annual growth of purchases. Analysis of quarterly data showed production was significantly above expectation and purchases were slightly below the seasonal third quartile. Analysis of the monthly data showed production above the seasonal norm while purchases were close to the seasonal median.

Long-Term Trends

Production increased at a 12.2% annual rate.

Purchases grew at a 12.4% annual rate.

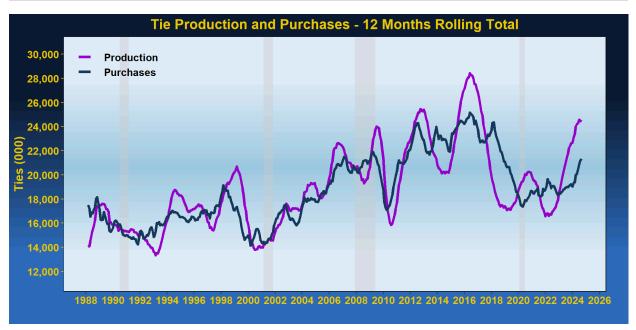
Inventory's 12 month moving average (12MMA) grew by 24.7% from a year ago levels.

Inventory-to-Sales Ratio's 12MMA increased from 0.76 to 0.9.

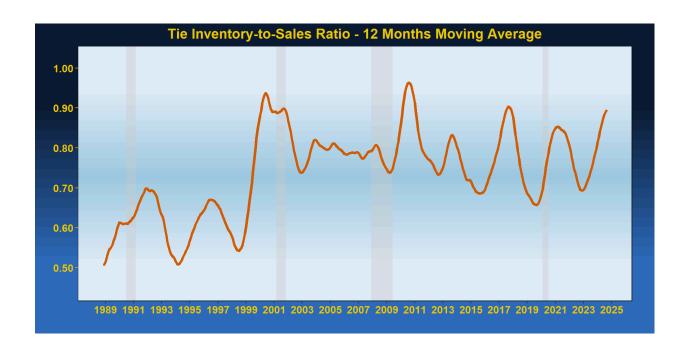
Table of Annual Observations

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

Date	Production	Purchases	Inventory	ISR
September 2023	21,770	18,977	14,494	0.76
September 2024	24,418	21,335	18,080	0.90





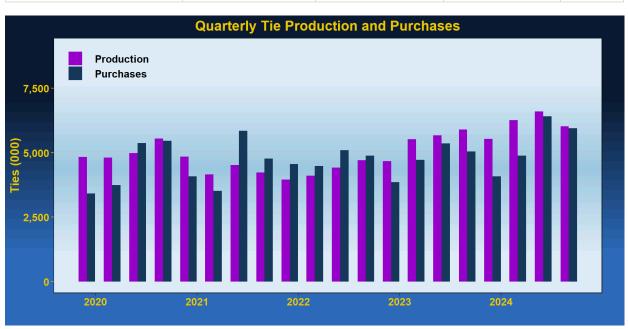


Analysis of Quarterly Data

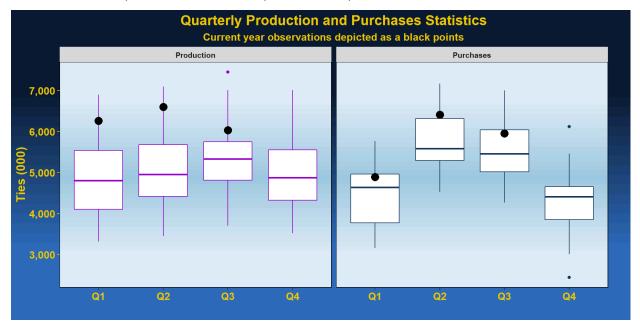
Production in Q3 dwindled by 8.6% from last quarter and grew by 2.2% from a year ago. For the same intervals, purchases decreased by 7.2% and increased by 17.9% respectively. Inventory's 3MMA increased by 0.4% from last quarter and increased by 19.9% from a year ago levels. From Q2 2024 to Q3 2024, the 3MMA of Inventory-to-Sales Ratio fell from 0.92 to 0.87. One year ago, the ratio was 0.8.

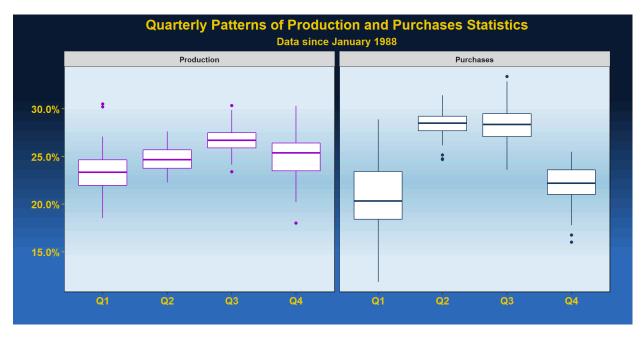
Table of Quarterly ObservationsProduction and Purchases Quarterly Sum, Inventory and ISR - 3MMA

Date	Production	Purchases	Inventory	ISR
September 2023	5,896	5,047	15,492	0.80
June 2024	6,597	6,412	18,497	0.92
September 2024	6,028	5,951	18,574	0.87



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.



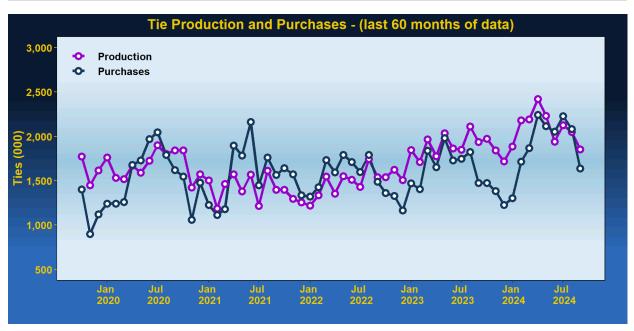


Analysis of Monthly Data

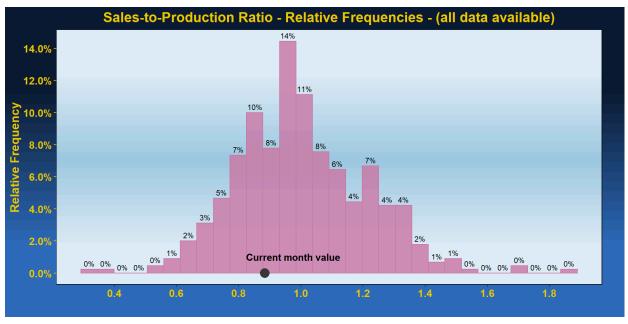
Production declined by 9.5% from last month and came down by 4.2% from a year ago. For the same time intervals, purchases decreased by 21.3% and rose by 11.1% respectively. Inventory levels rose by 1.2% from last month and expanded by 19.9% from a year ago levels. The Inventory-to-Sales Ratio remained flat at 0.87 compared to month ago, and from a year ago, the ratio advanced from 0.82.

Table of Monthly Observations

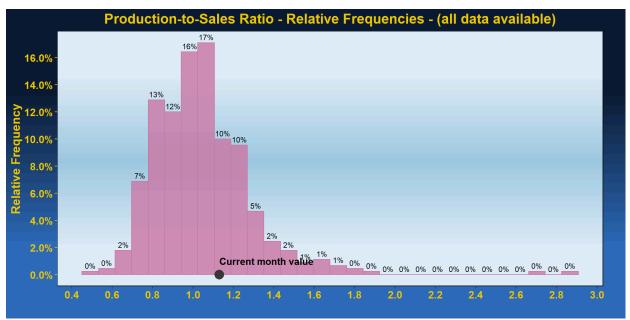
Date	Production	Purchases	Inventory	ISR
September 2023	1,935	1,476	15,492	0.82
August 2024	2,048	2,083	18,359	0.87
September 2024	1,854	1,639	18,574	0.87

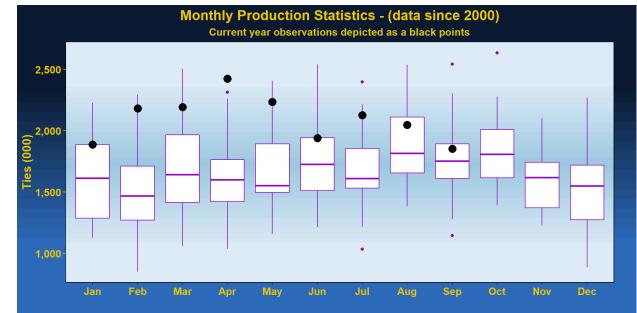


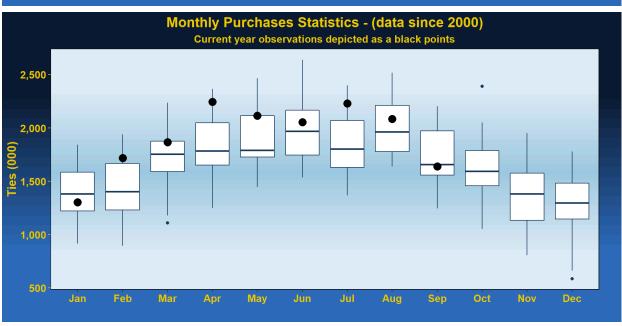
Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.

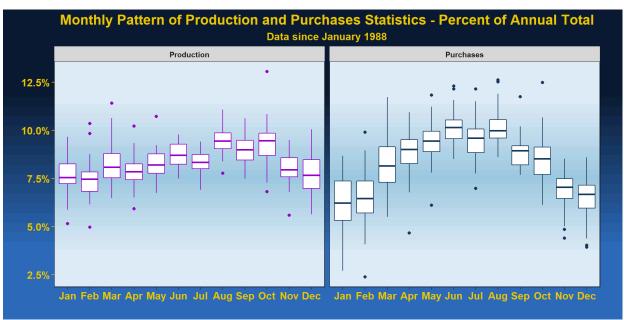


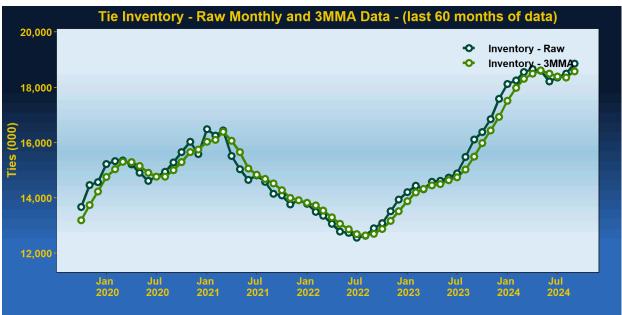
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

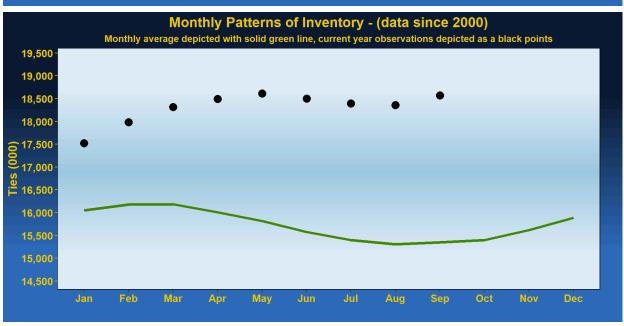


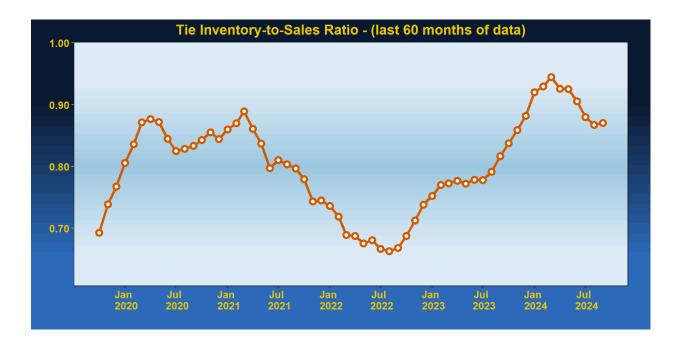




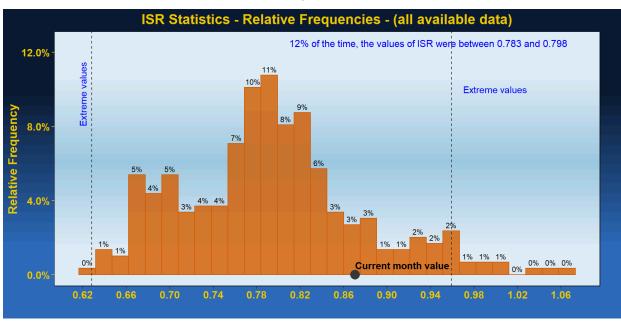








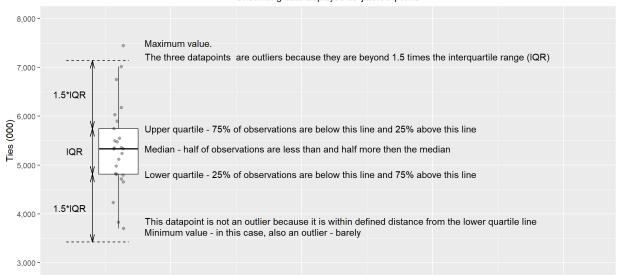
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.





Box Plot Explained

Underluing data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

