Purchases Report



Purchases Report

December 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 the last month of 2024, the twelve-month rolling total of purchases and production both continued their upward trends. However, the pace of production growth slowed in the last three month. Analysis of the quarterly data showed production was slightly above the seasonal median while purchases were at the seasonal first quartile. Analysis of the monthly data showed production below the seasonal norm and purchases were substantially below the seasonal first quartile.

Long-Term Trends

Production grew at a 5.8% annual rate.

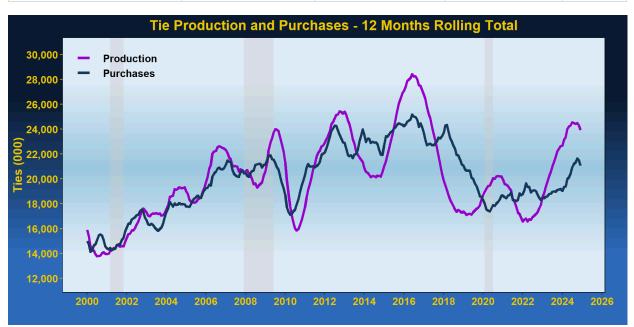
Purchases rose at a 9.7% annual rate.

Inventory's 12 month moving average (12MMA) increased by 22.5% from a year ago levels. Inventory-to-Sales Ratio's 12MMA expanded from 0.8 to 0.91.

Table of Annual Observations

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

Date	Production	Purchases	Inventory	ISR
December 2023	22,628	19,208	15,349	0.80
December 2024	23,934	21,075	18,795	0.91







Analysis of Quarterly Data

Production in Q4 declined by 16.3% from last quarter and fell by 8.8% from a year ago.

For the same intervals, purchases fell by 35.7% and dwindled by 6.4% respectively.

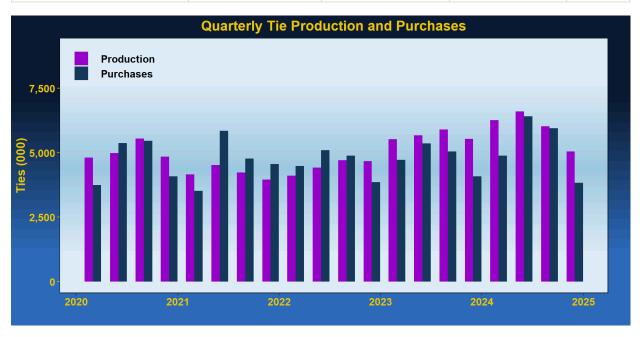
Inventory's 3MMA advanced by 6.6% from last quarter and increased by 16.9% from a year ago levels.

From Q3 2024 to Q4 2024, the 3MMA of Inventory-to-Sales Ratio rose from 0.87 to 0.9. One year ago, the ratio was 0.86.

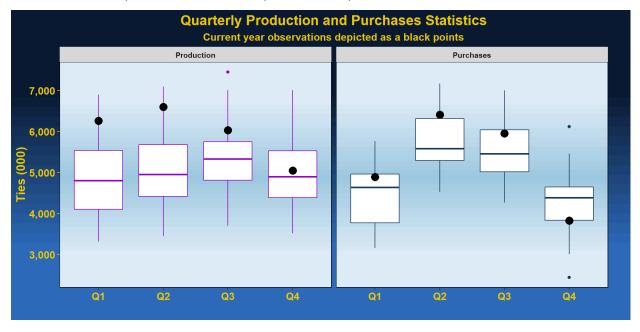
Table of Quarterly Observations

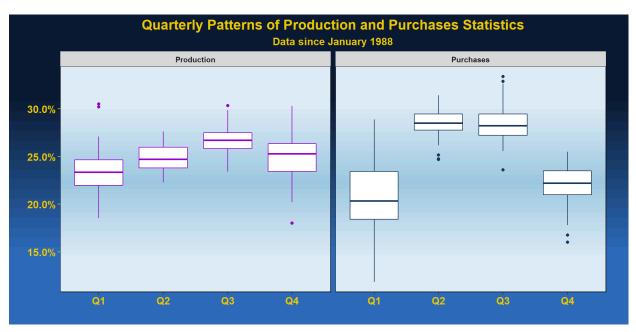
Production and Purchases Quarterly Sum, Inventory and ISR - 3MMA

Date	Production	Purchases	Inventory	ISR
December 2023	5,530	4,086	16,936	0.86
September 2024	6,028	5,951	18,574	0.87
December 2024	5,046	3,826	19,794	0.90



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 dropped by 16.3% from last month and decreased by 21% from a year ago.

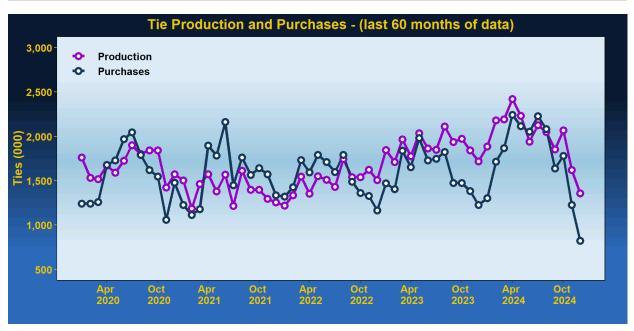
For the same time intervals, purchases decreased by 33% and dwindled by 33.1% respectively.

Inventory levels grew by 2.8% from last month and expanded by 16.9% from a year ago levels.

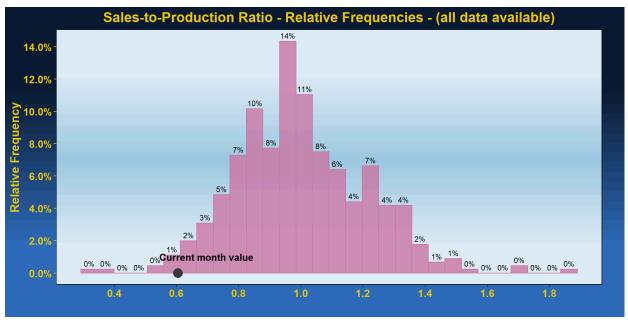
The Inventory-to-Sales Ratio rose from 0.9 to 0.94 compared to month ago, and from a year ago, the ratio rose from 0.88.

Table of Monthly Observations

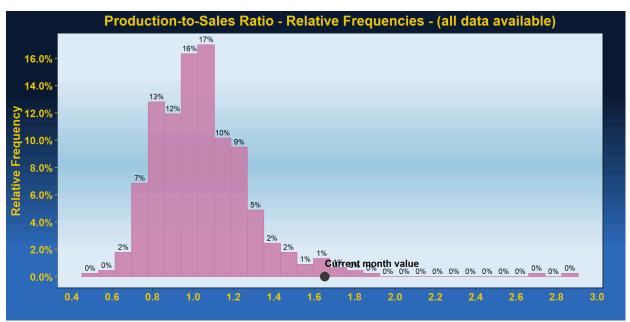
Date	Production	Purchases	Inventory	ISR
December 2023	1,717	1,226	16,936	0.88
November 2024	1,621	1,225	19,259	0.90
December 2024	1,356	821	19,794	0.94

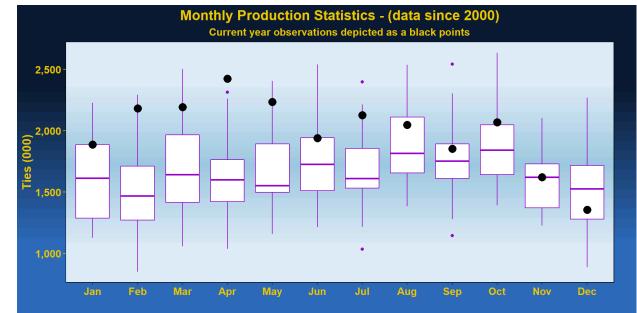


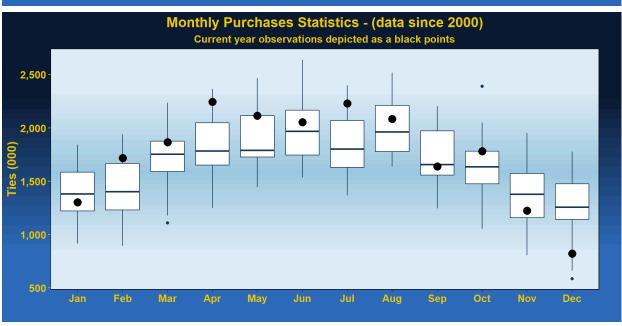
Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.

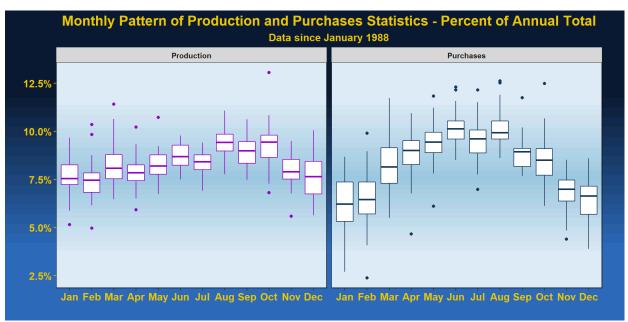


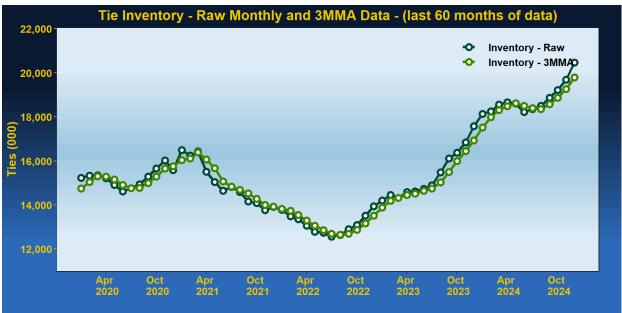
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

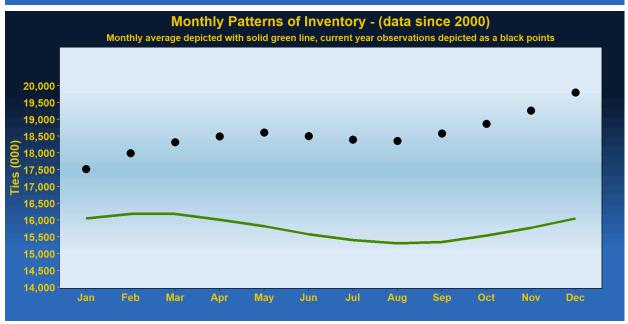


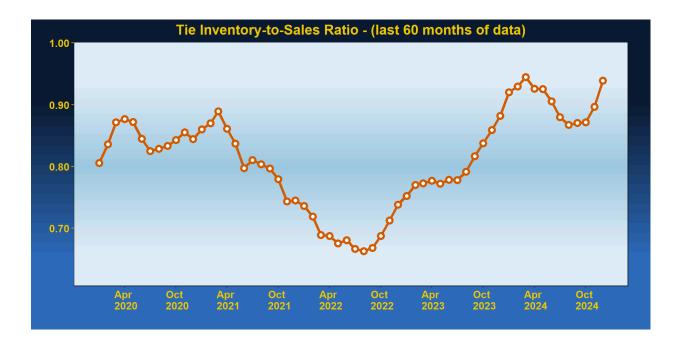




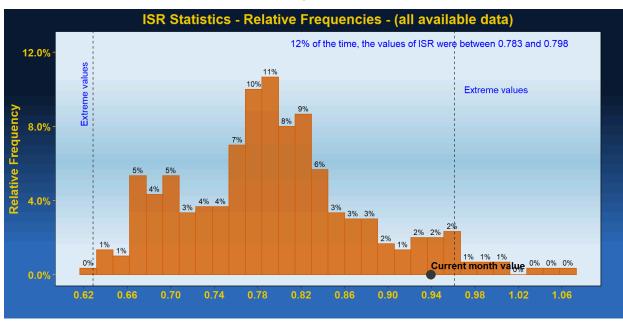








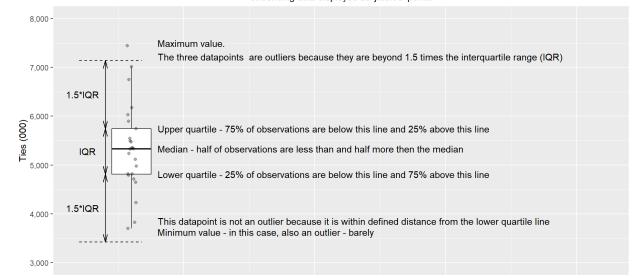
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.





Box Plot Explained

Underluing data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

