

Purchases Report

February 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 February, the twelve months rolling total of purchases continued an upward trend at faster pace than in January. This was also the case for production. Analysis of the monthly data showed production significantly above expectation. Also purchases were well above the seasonal median, though not as much as production. As a result, the tie inventory-to-sales ratio increased again.

Long-Term Trends

Production advanced at a 22.4% annual rate.

Purchases increased at a 5% annual rate.

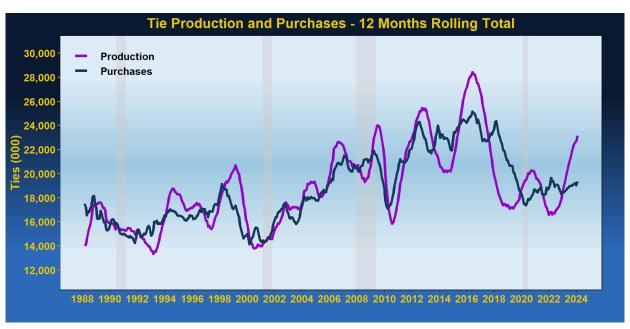
Inventory's 12 month moving average (12MMA) advanced by 20.5% from a year ago levels.

Inventory-to-Sales Ratio's 12MMA advanced from 0.7 to 0.83.

Table of Annual Observations

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

Date	Production	Purchases	Inventory	ISR
February 2023	18,905	18,438	13,270	0.70
February 2024	23,141	19,352	15,992	0.83







Analysis of Quarterly Data

Production in Q4 dwindled by 6.2% from last quarter and grew by 18.4% from a year ago.

For the same intervals, purchases dropped by 19% and increased by 6% respectively.

Inventory's 3MMA advanced by 9.3% from last quarter and increased by 25.3% from a year ago levels.

From Q3 2023 to Q4 2023, the 3MMA of Inventory-to-Sales Ratio advanced from 0.8 to 0.86. One year ago, the ratio was 0.71.

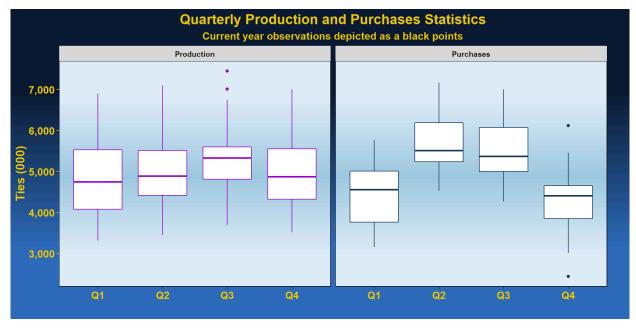
Table of Quarterly Observations

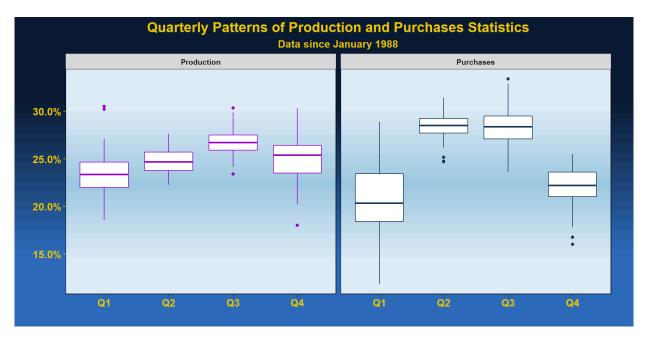
Production and Purchases Quarterly Sum, Inventory and ISR - 3MMA

Date	Production	Purchases	Inventory	ISR
December 2022	4,672	3,855	13,515	0.71
September 2023	5,896	5,047	15,492	0.80
December 2023	5,530	4,086	16,936	0.86



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.



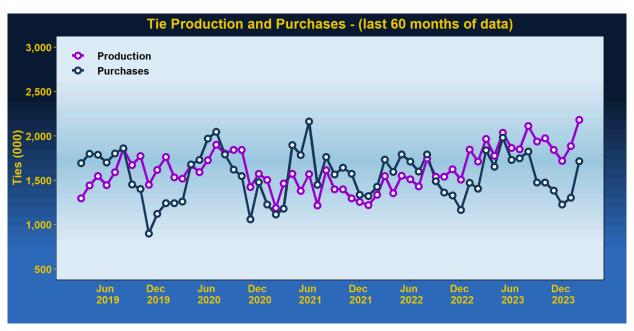


Analysis of Monthly Data

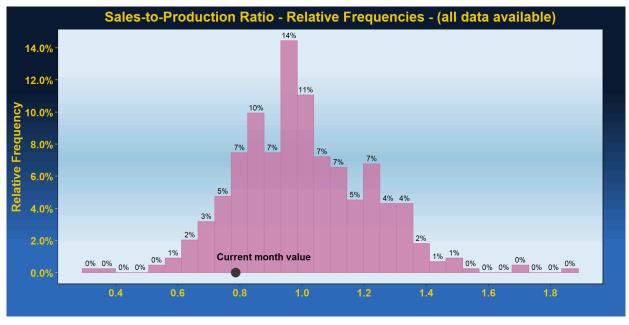
Production advanced by 15.6% from last month and increased by 27.4% from a year ago. For the same time intervals, purchases rose by 31.7% and expanded by 22.3% respectively. Inventory levels increased by 2.7% from last month and grew by 26.7% from a year ago levels. From month ago, the Inventory-to-Sales Ratio rose from 0.92 to 0.93 and from year ago the ratio increased from 0.77.

Table of Monthly Observations

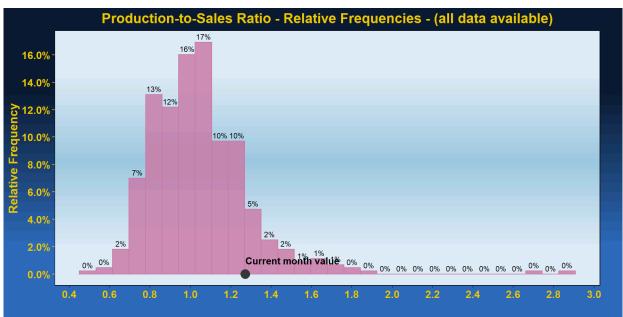
Date	Production	Purchases	Inventory	ISR
February 2023	1,712	1,403	14,197	0.77
January 2024	1,887	1,303	17,520	0.92
February 2024	2,182	1,716	17,986	0.93

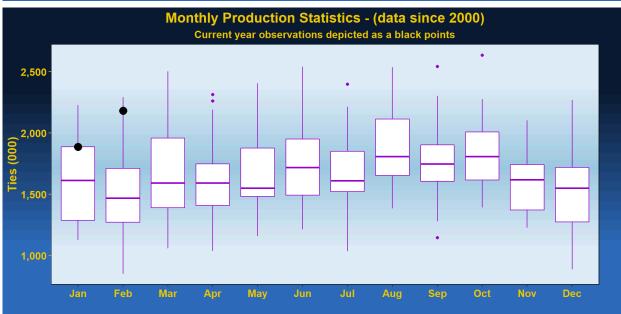


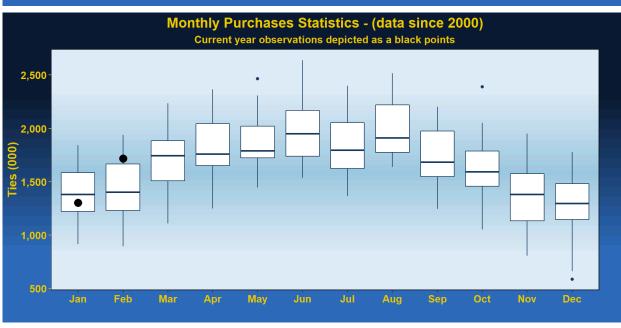
Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.

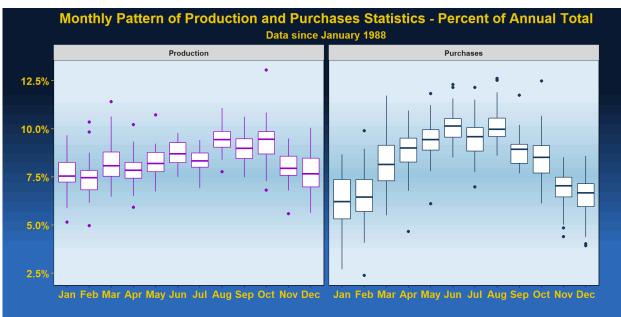


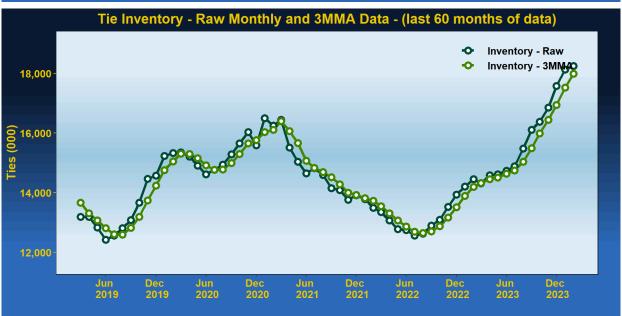
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

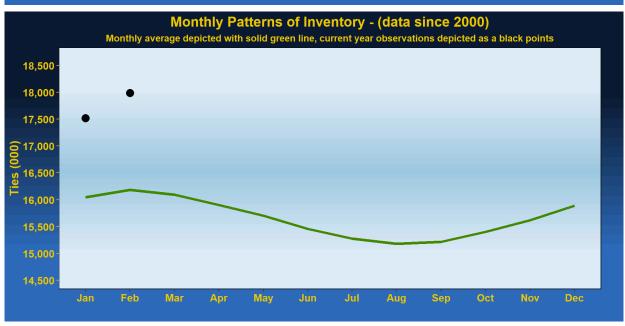


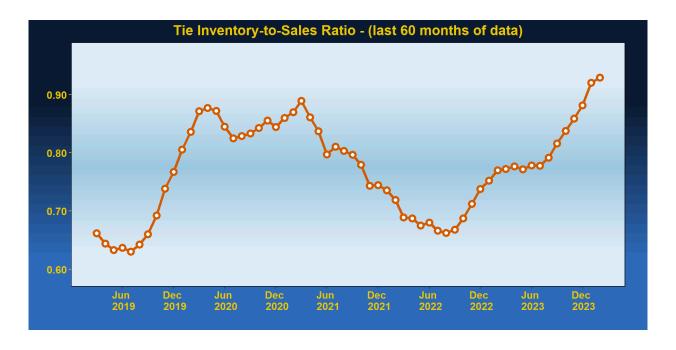




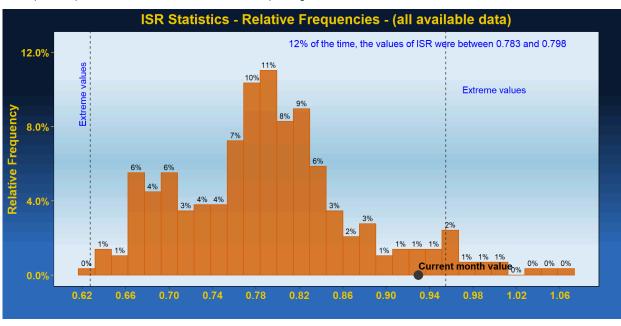








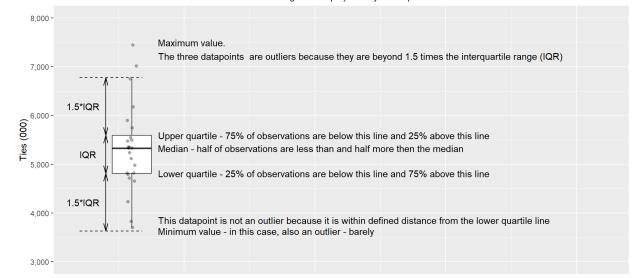
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.





Box Plot Explained

Underluing data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

