



Purchases Report

February 2025

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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 2025, both the twelve-month rolling total for purchases and production continued their upward trajectories. However, the growth rate of each has decelerated in recent months, indicating a potential shift in trend. A closer examination of the monthly data revealed that production remained well above seasonal norms, while purchases were marginally below the seasonal median. With production outpacing purchases for a long time, the inventory-to-sales ratio reached extreme levels.

Long-Term Trends

Production increased at a 1.3% annual rate.

Purchases increased at a 6.9% annual rate.

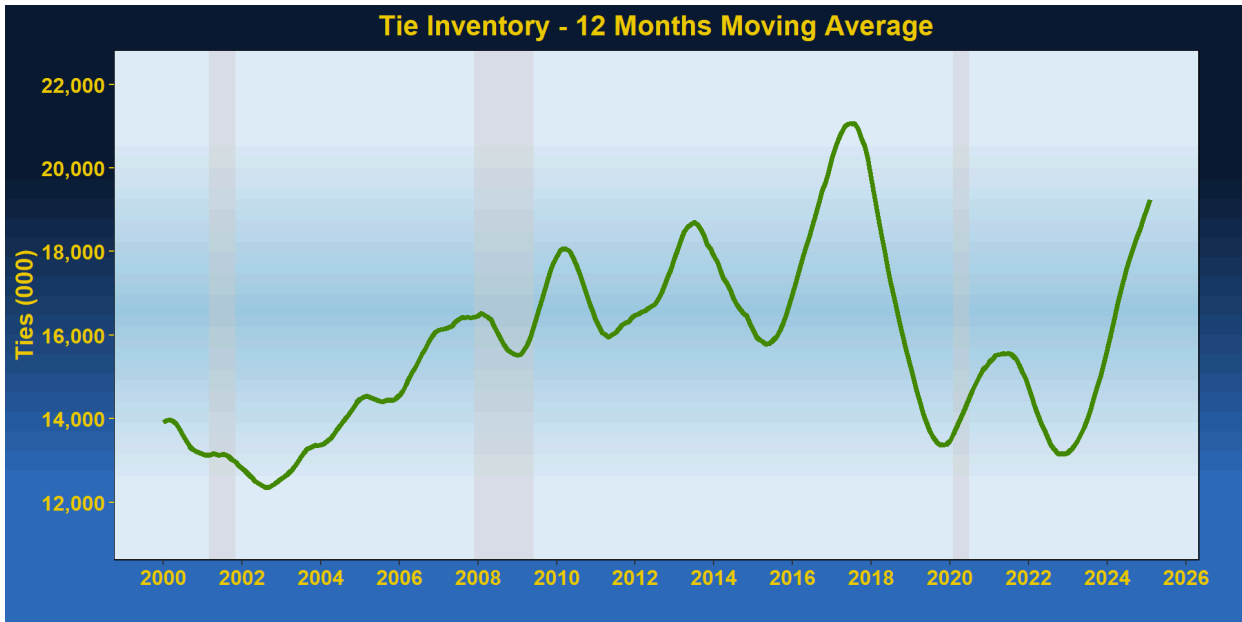
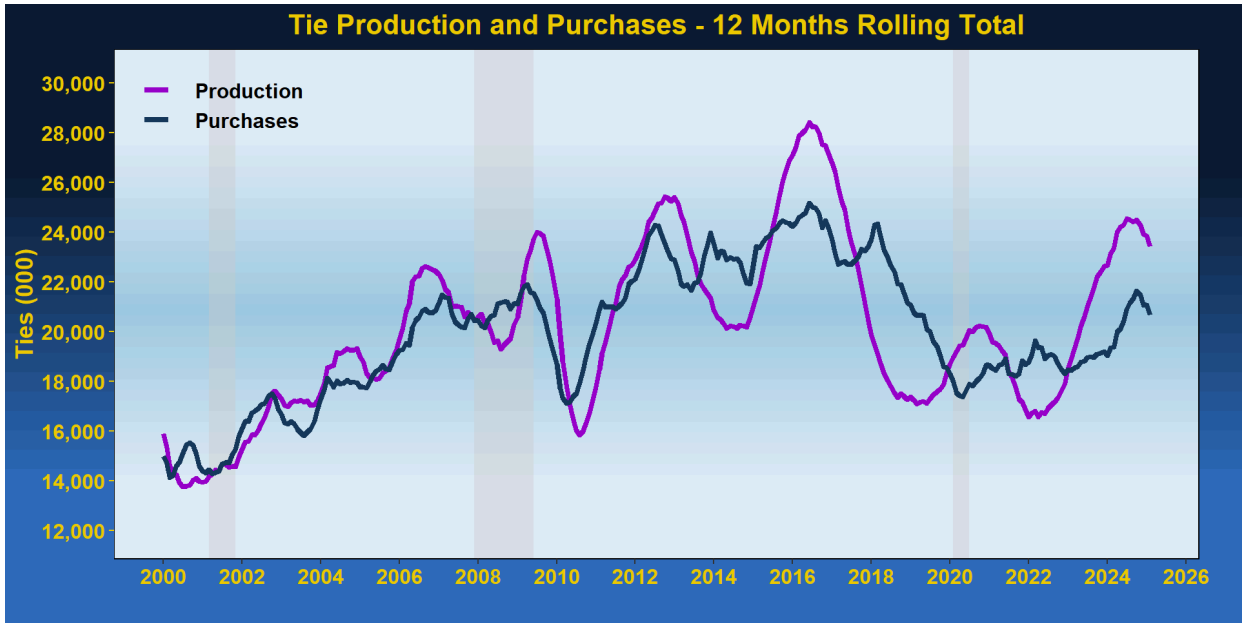
Inventory's 12 month moving average (12MMA) rose by 20.3% from a year ago levels.

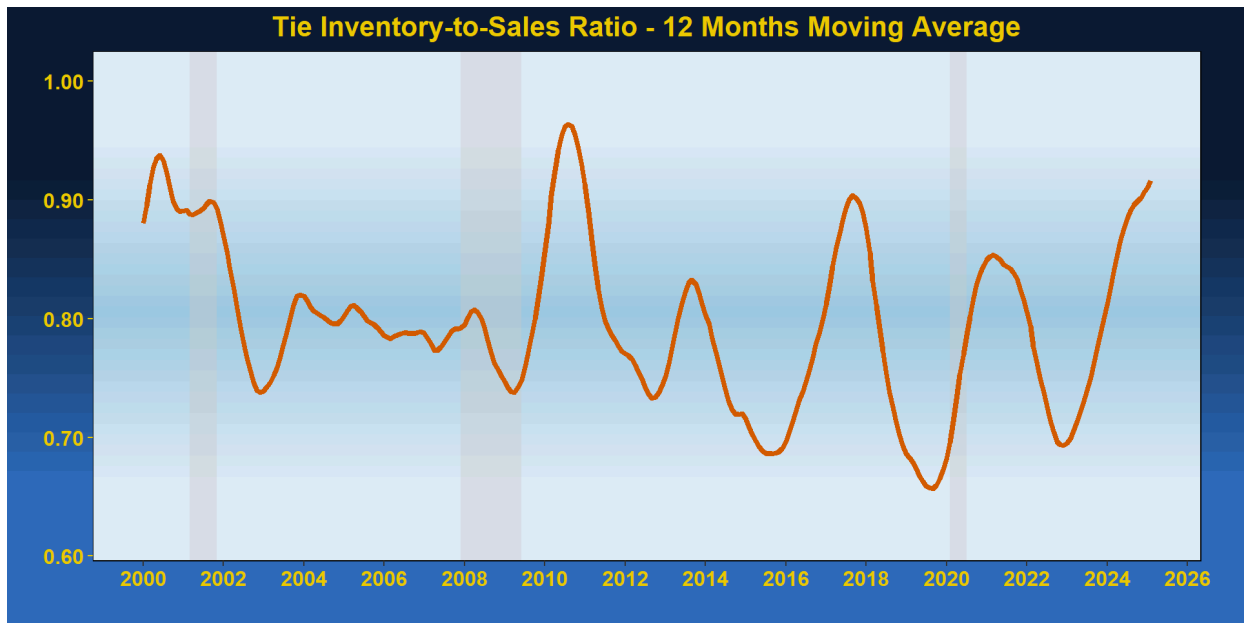
Inventory-to-Sales Ratio's 12MMA increased from 0.83 to 0.92.

Table of Annual Observations

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

Date	Production	Purchases	Inventory	ISR
February 2024	23,141	19,352	15,992	0.83
February 2025	23,435	20,693	19,239	0.92





Analysis of Quarterly Data

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

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

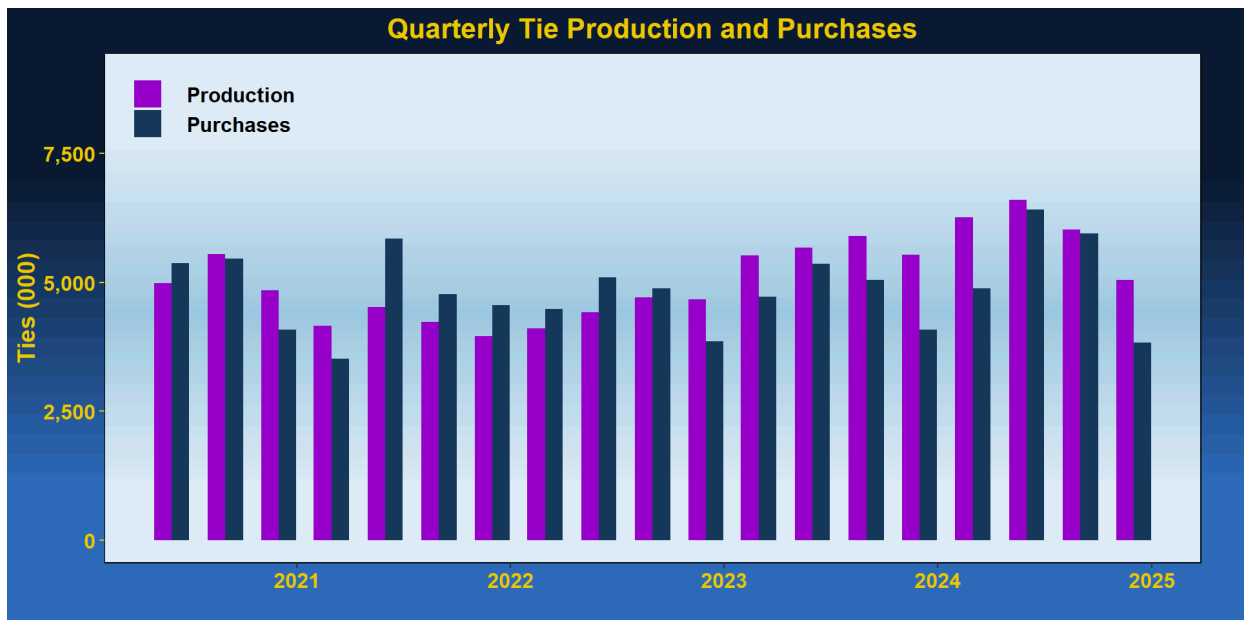
Inventory's 3MMA rose by 6.6% from last quarter and advanced by 16.9% from a year ago levels.

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

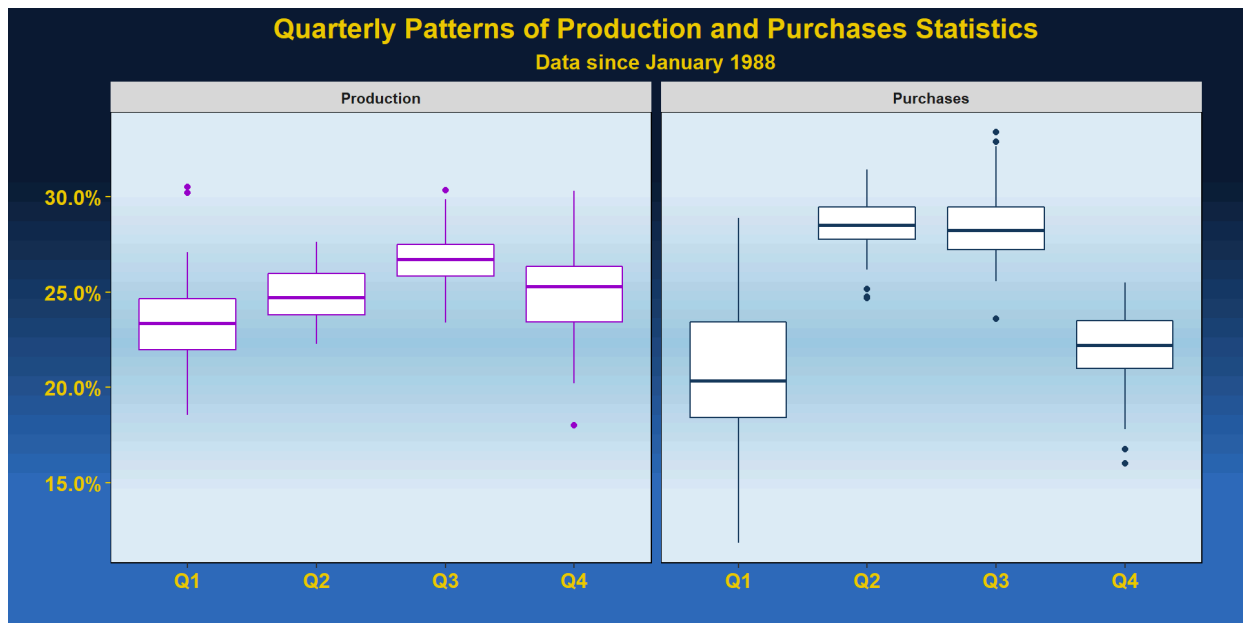
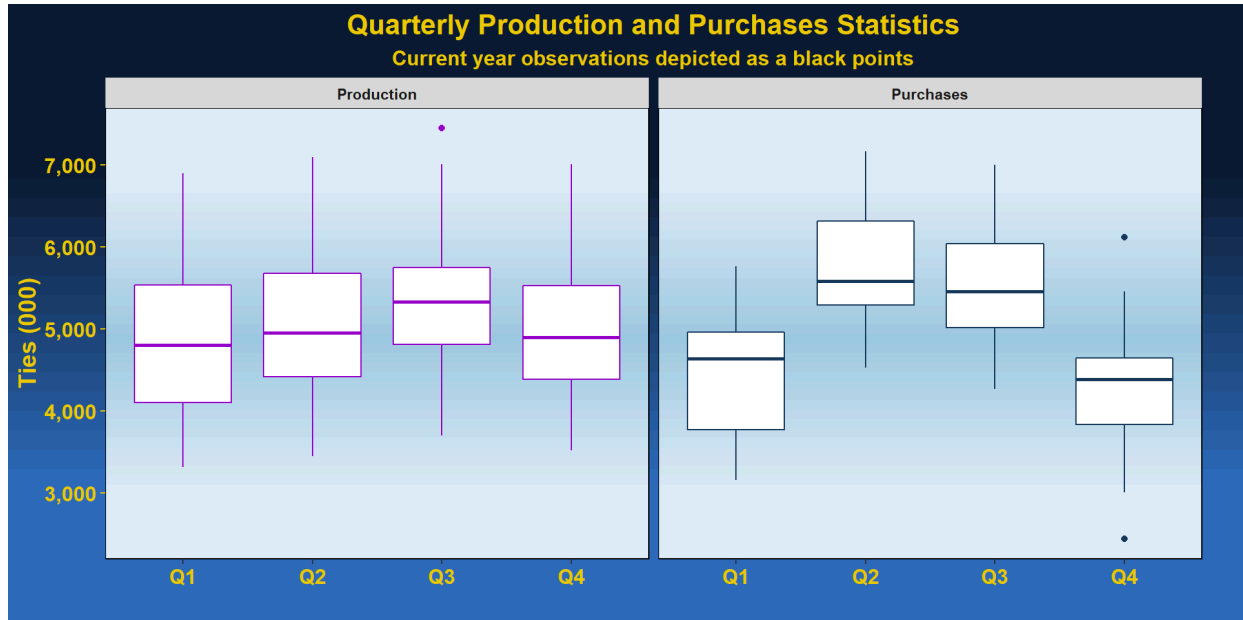
Table of Quarterly Observations

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.

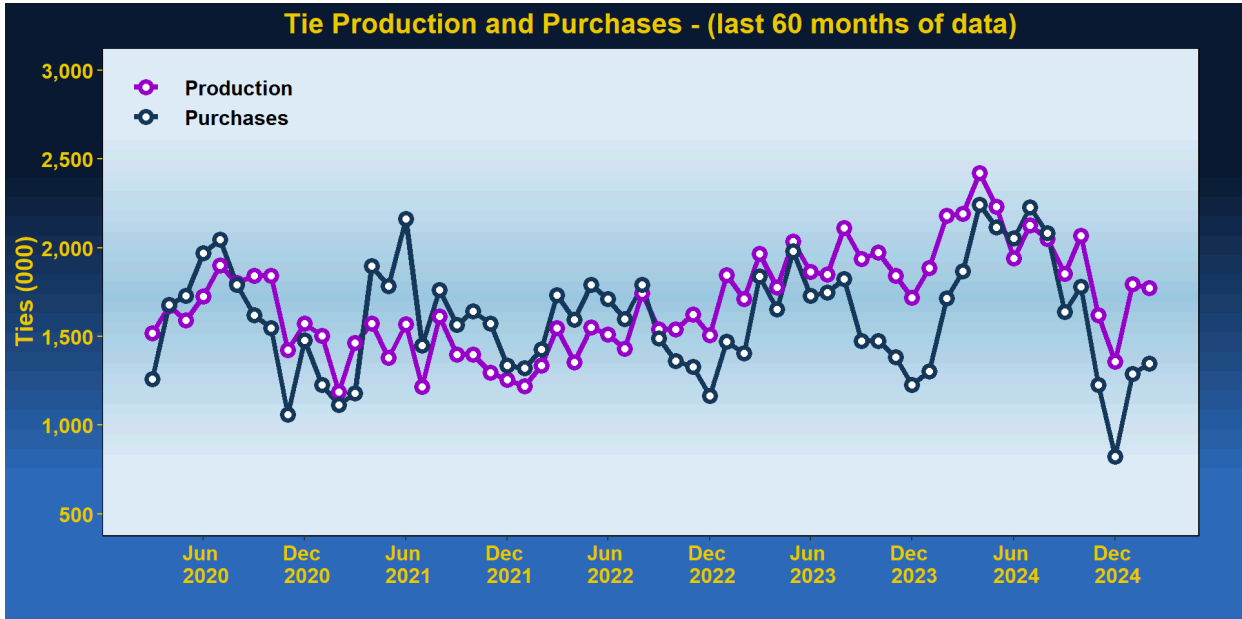


Analysis of Monthly Data

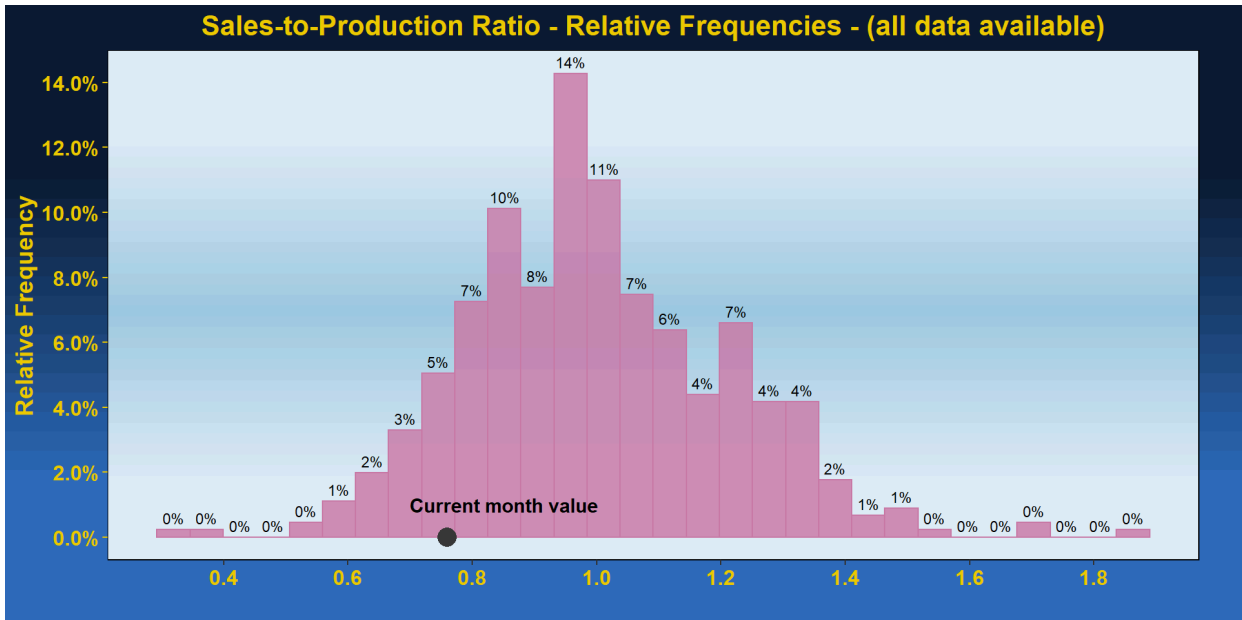
Production dwindled by 1.2% from last month and decreased by 18.7% from a year ago. For the same time intervals, purchases grew by 4.6% and declined by 21.4% respectively. Inventory levels advanced by 2.1% from last month and expanded by 15.2% from a year ago levels. The Inventory-to-Sales Ratio grew from 0.96 to 1 compared to month ago, and from a year ago, the ratio expanded from 0.93.

Table of Monthly Observations

Date	Production	Purchases	Inventory	ISR
February 2024	2,182	1,716	17,986	0.93
January 2025	1,796	1,289	20,302	0.96
February 2025	1,774	1,348	20,729	1.00

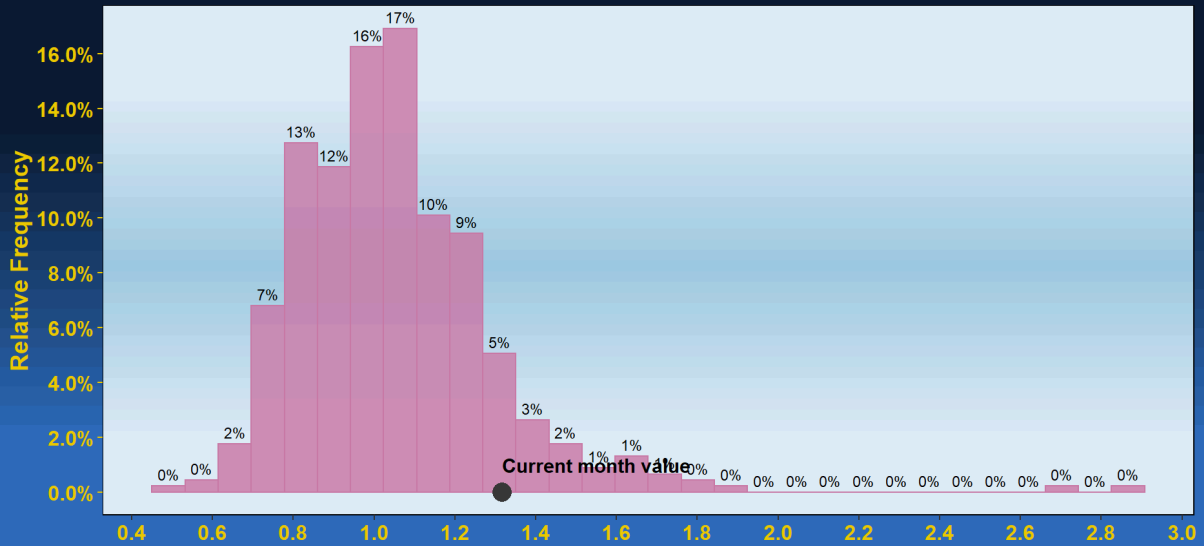


Sales-to-Production Ratio shows the replenishment/diminishment of inventory. Ratio above one signals diminishment and ratio below one replenishment of inventory stock.



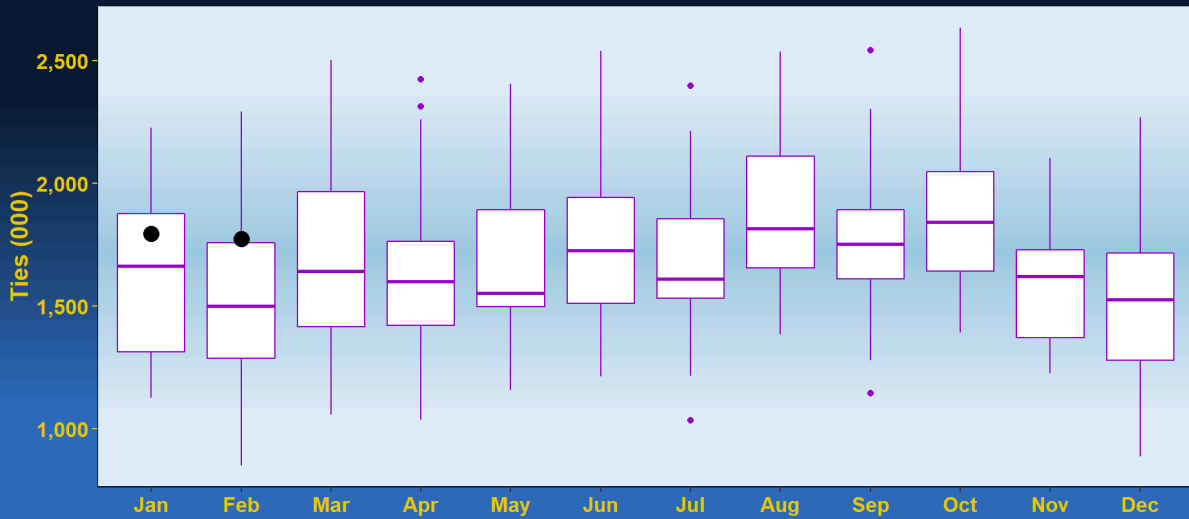
The following graph tells the same story as the graph above, just the ratio is reversed - Production-to-Sales Ratio.

Production-to-Sales Ratio - Relative Frequencies - (all data available)



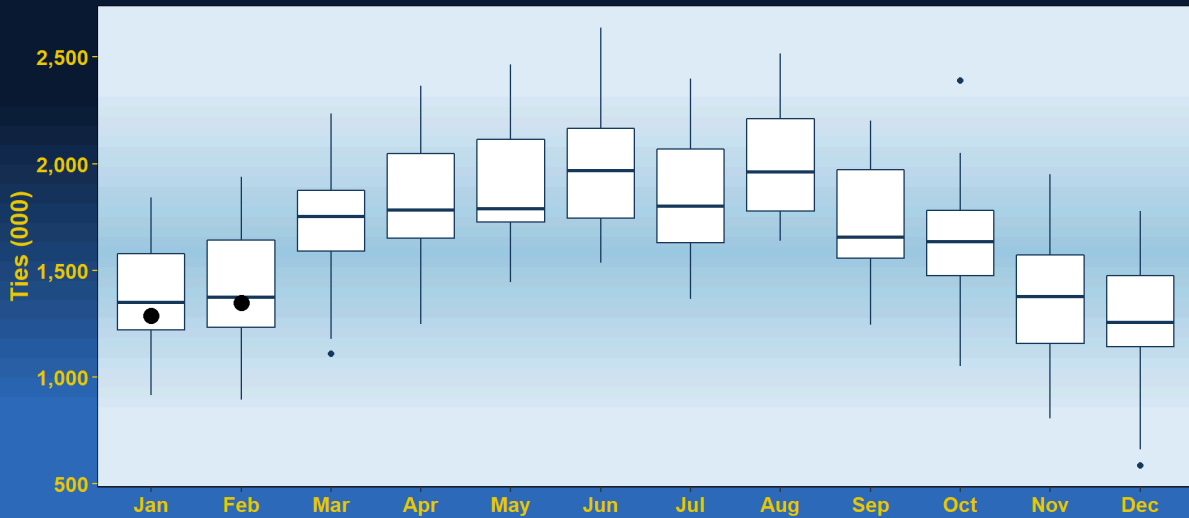
Monthly Production Statistics - (data since 2000)

Current year observations depicted as a black points



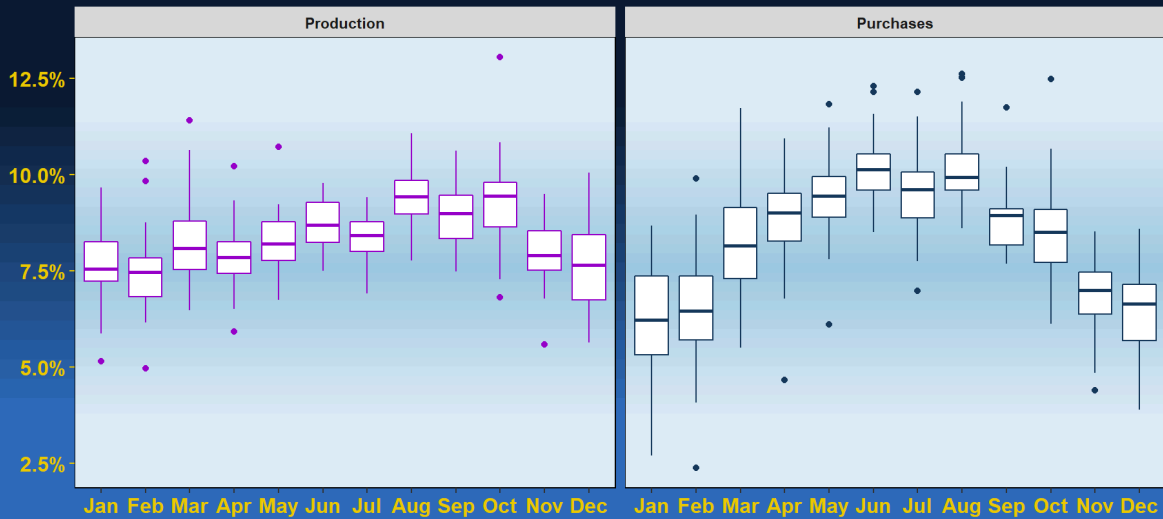
Monthly Purchases Statistics - (data since 2000)

Current year observations depicted as a black points

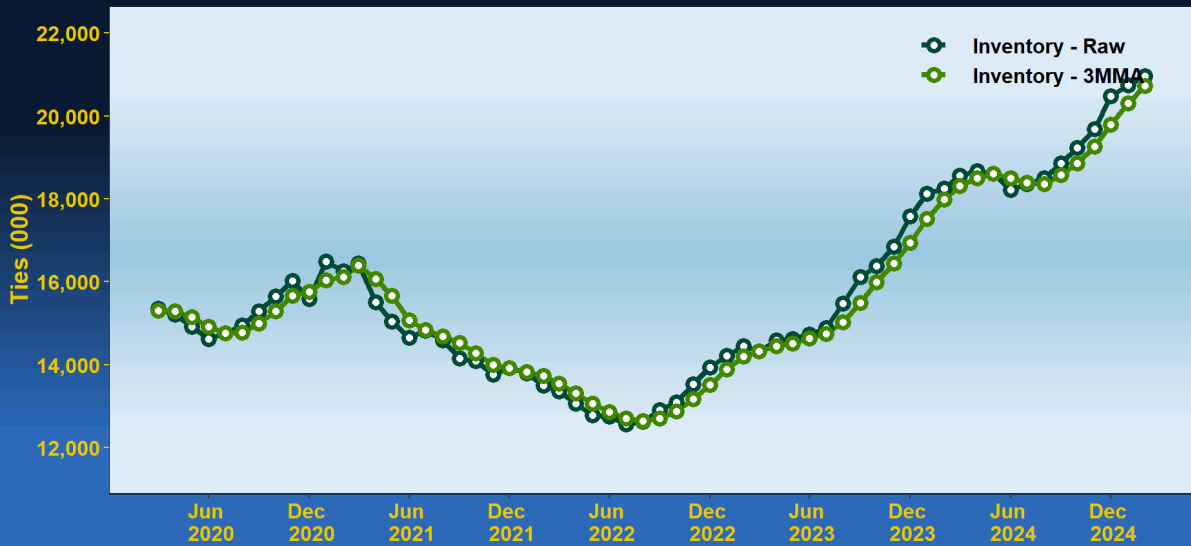


Monthly Pattern of Production and Purchases Statistics - Percent of Annual Total

Data since January 1988



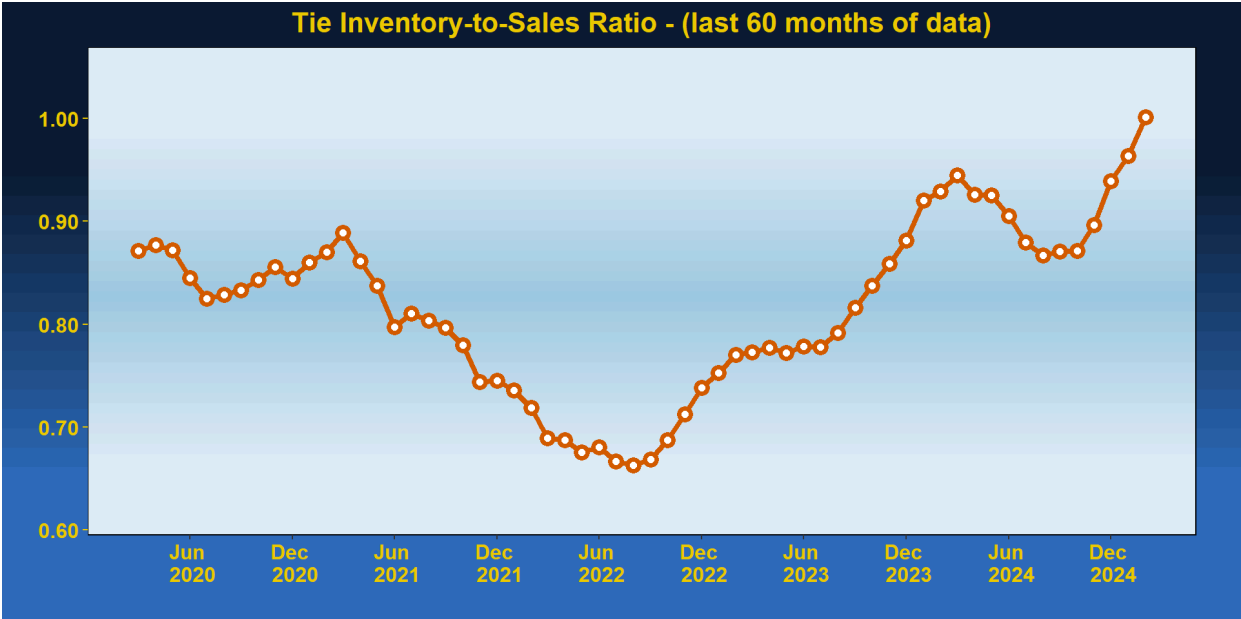
Tie Inventory - Raw Monthly and 3MMA Data - (last 60 months of data)



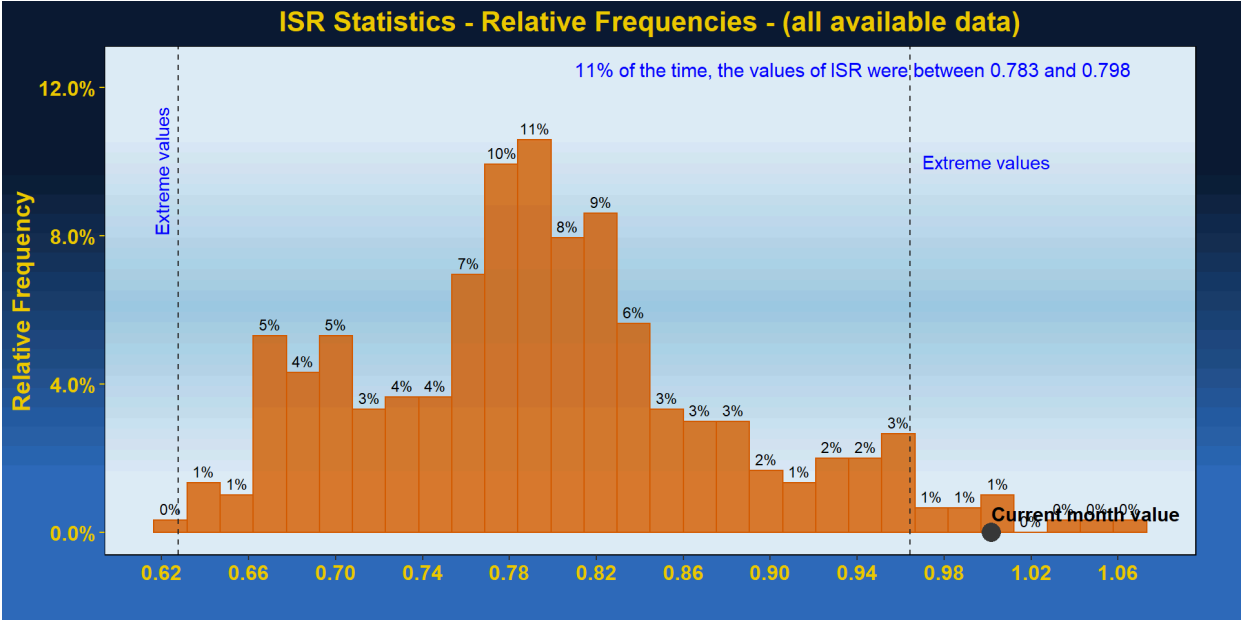
Monthly Patterns of Inventory - (data since 2000)

Monthly average depicted with solid green line, current year observations depicted as a black points





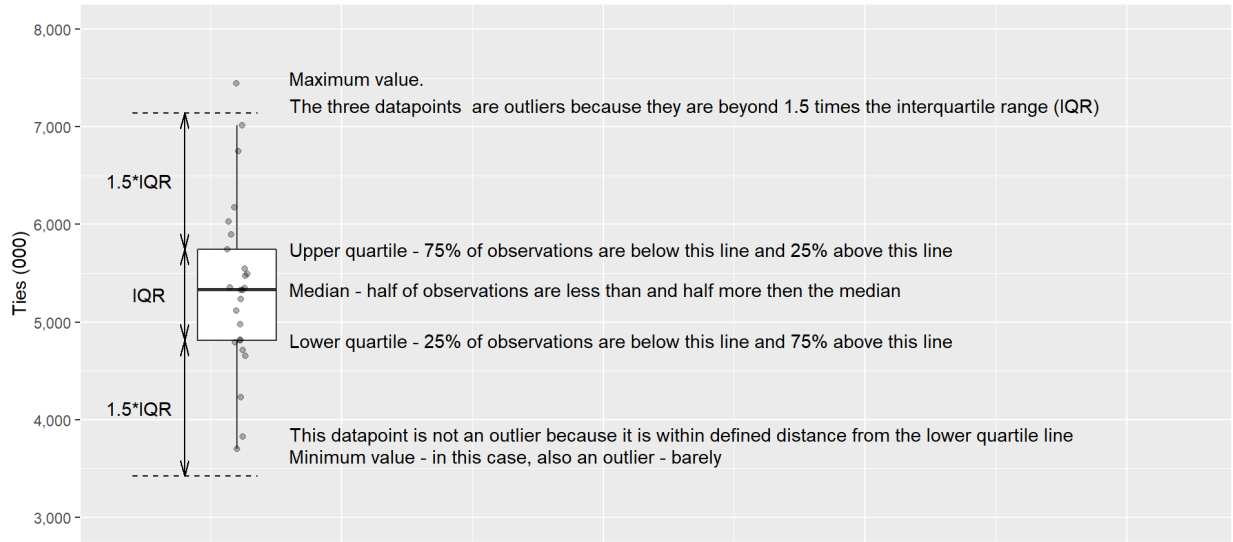
Inventory-to-Sales Ratio (ISR) histogram of relative frequencies shows the monthly ISR data distribution and the black point represents the value for the current reporting month.



Appendix

Box Plot Explained

Underlying data displayed as 'jittered' points



Histogram of Relative Frequencies Explained

