

Data Insights: Supply Chain Stress Monitor

Thursday, December 14, 2023

Supply chain pressure indices

Standard deviations from average



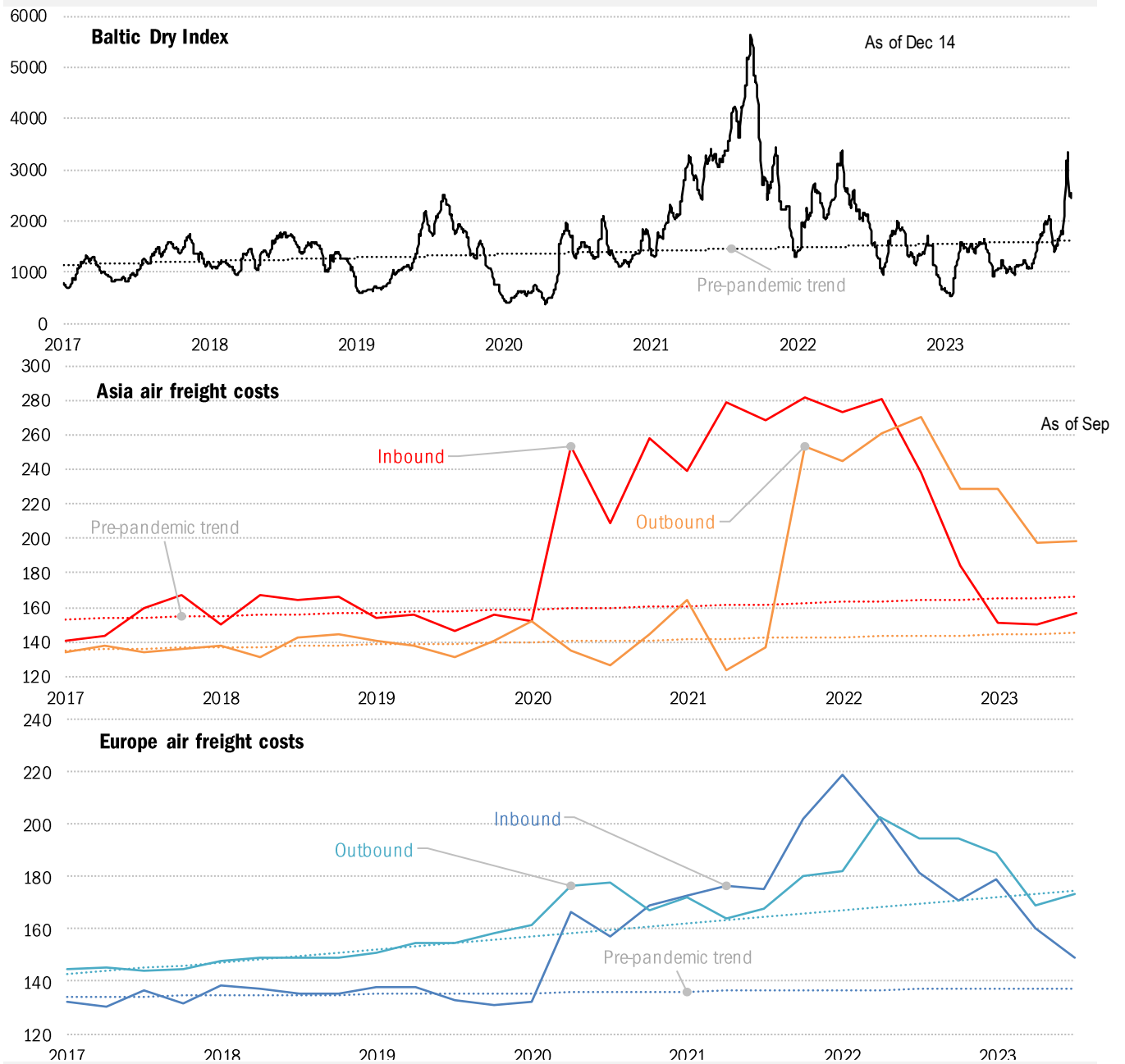
Source: [New York Fed](#), Citibank, TrendMacro calculations

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Global transportation costs

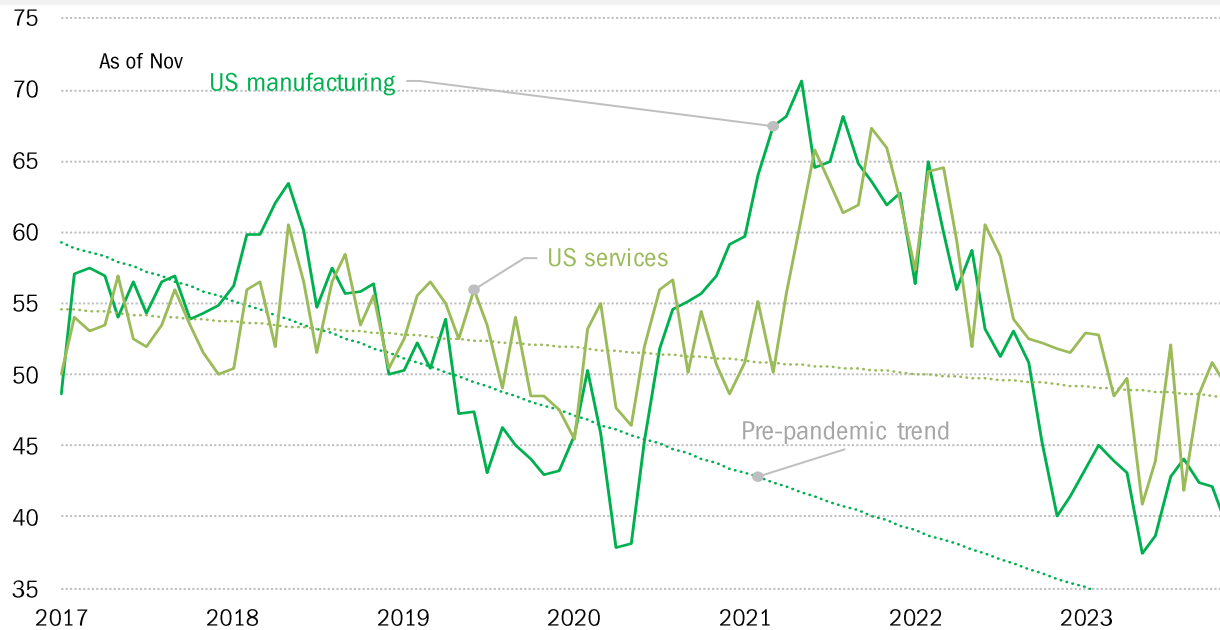
Index points



Source: Bloomberg, [BLS](#), TrendMacro calculations

US purchasing managers index: backlog of orders growing

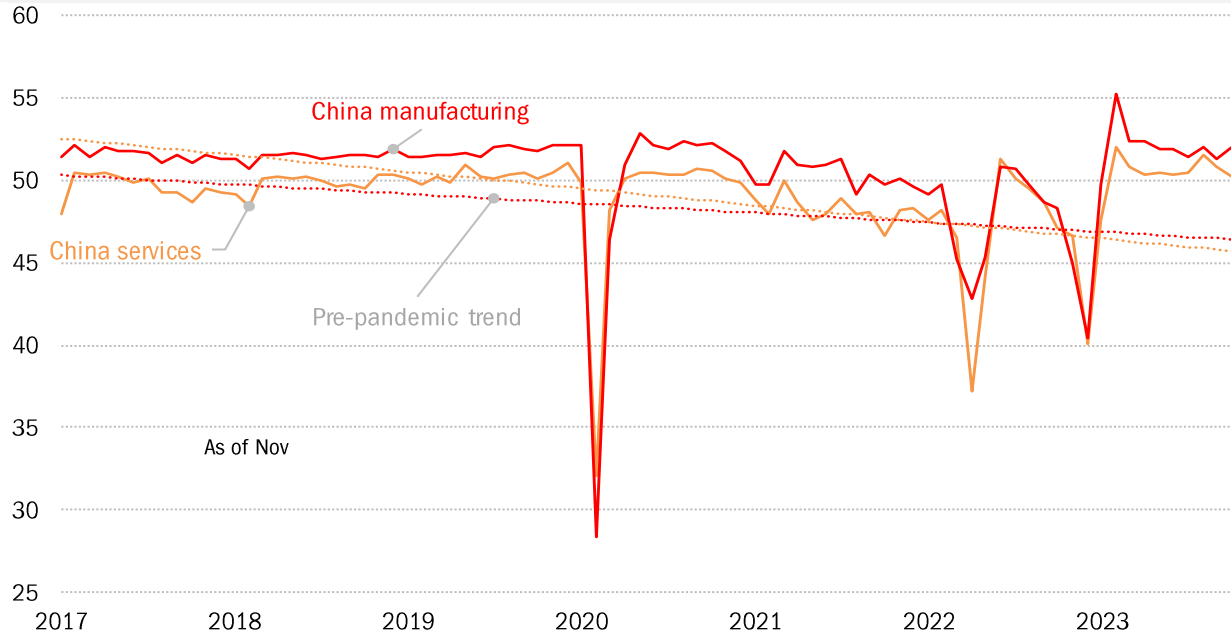
Diffusion index



Source: [ISM](#), TrendMacro calculations

China purchasing managers index: improving time-to-delivery from suppliers

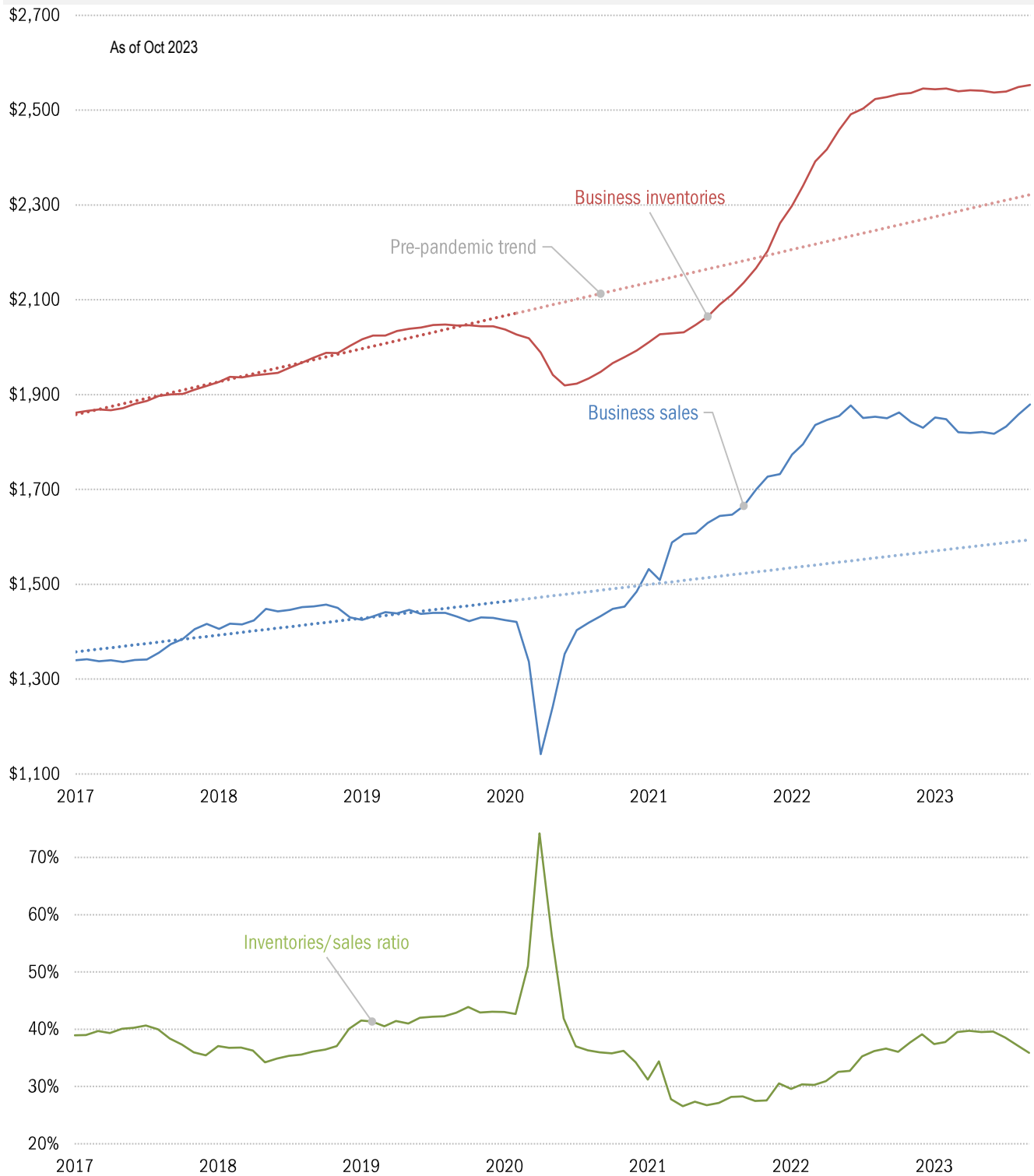
Diffusion index



Source: [China Federation of Logistics & Purchasing](#), TrendMacro calculations

The ecosystem: manufacturing and trade sales and inventories

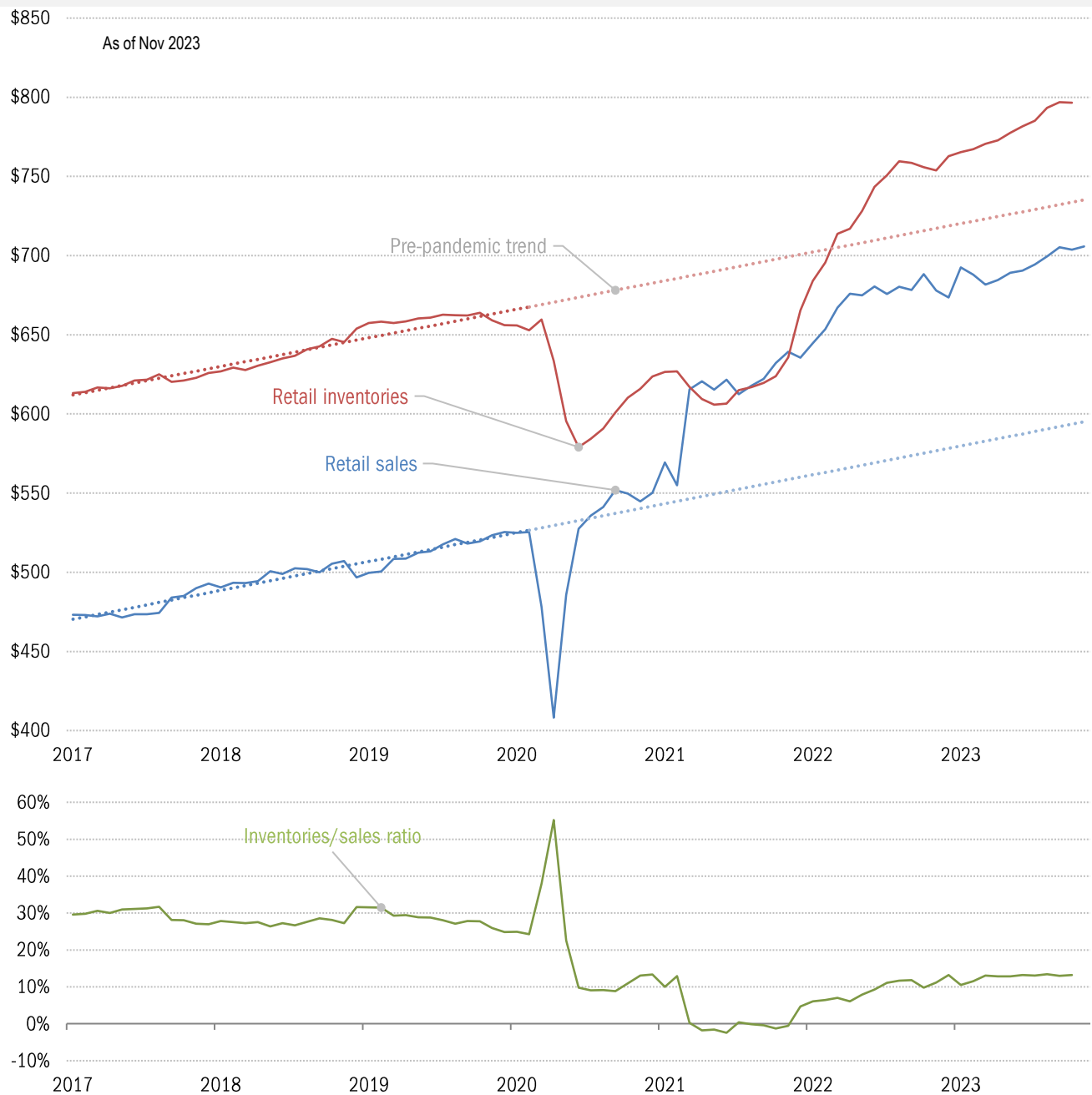
USD billions (DPI normalized to sale levels)



Source: [Census Bureau](#), [BEA](#), TrendMacro calculations

The Main Street sub-ecosystem: retail sales and inventories

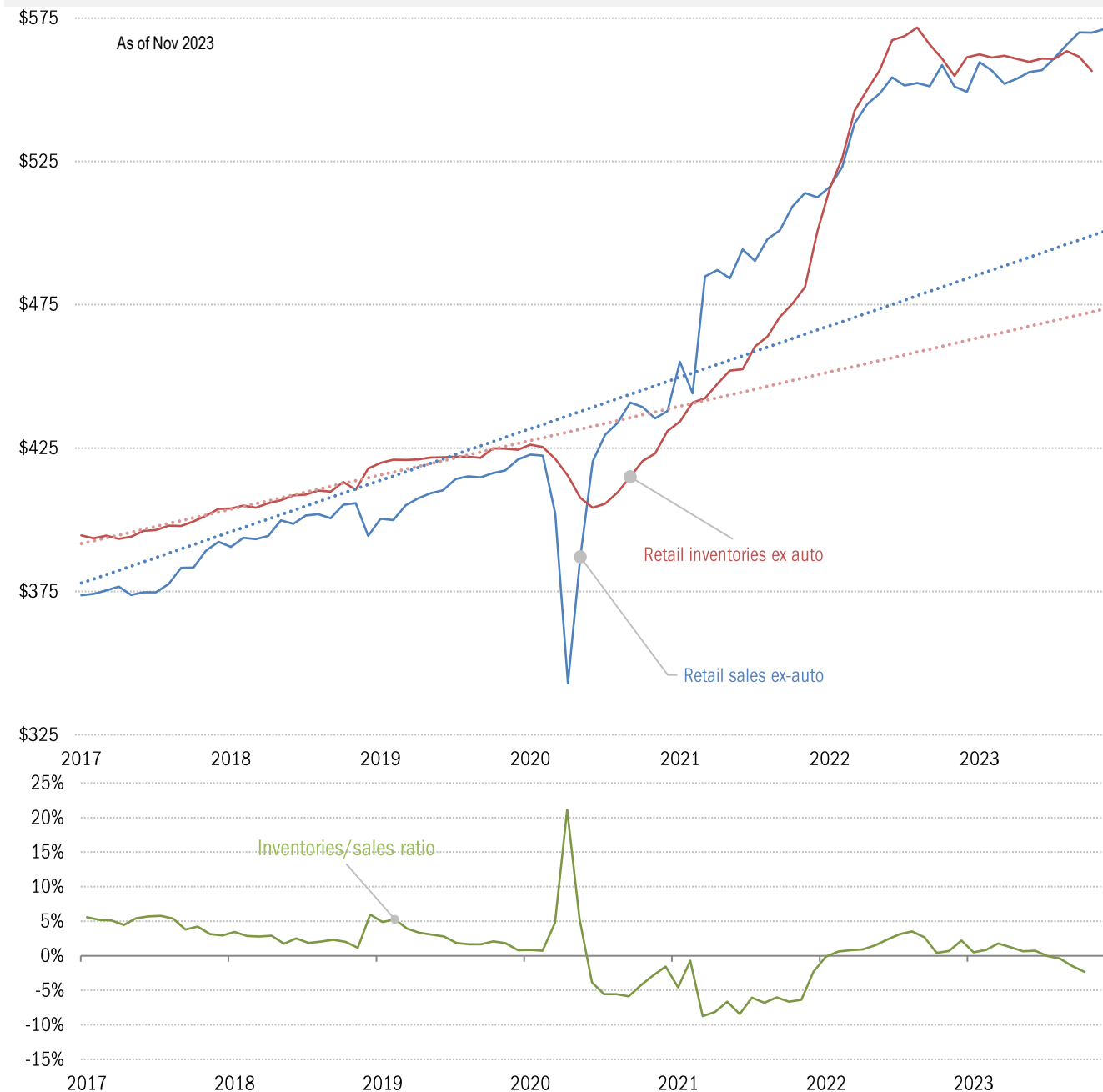
USD billions



Source: [Census Bureau](#), TrendMacro calculations

The Main Street sub-sub-ecosystem: retail sales and inventories *ex-auto*

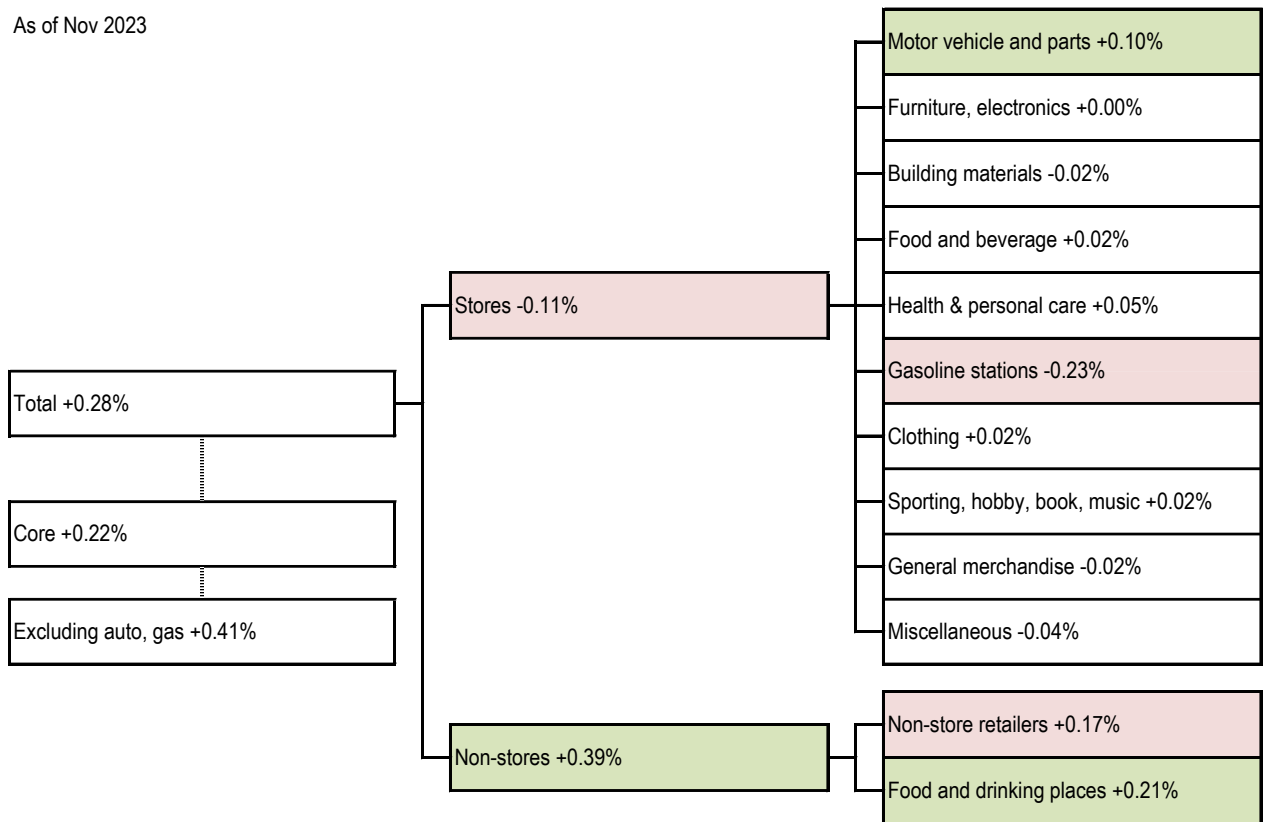
USD billions



Source: [Census Bureau](#), TrendMacro calculations

Retail sales – where did the growth come from?

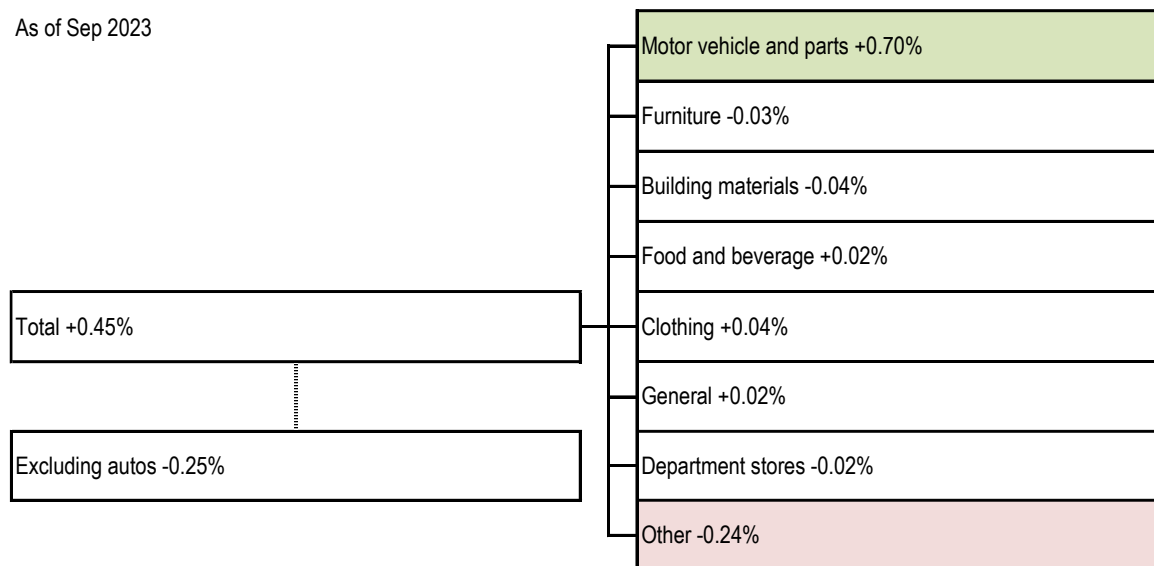
As of Nov 2023



Retail inventories – where did the growth come from?

Contributions to nominal, sequential month change, SA Biggest change per detail-level: ■ positive ■ negative

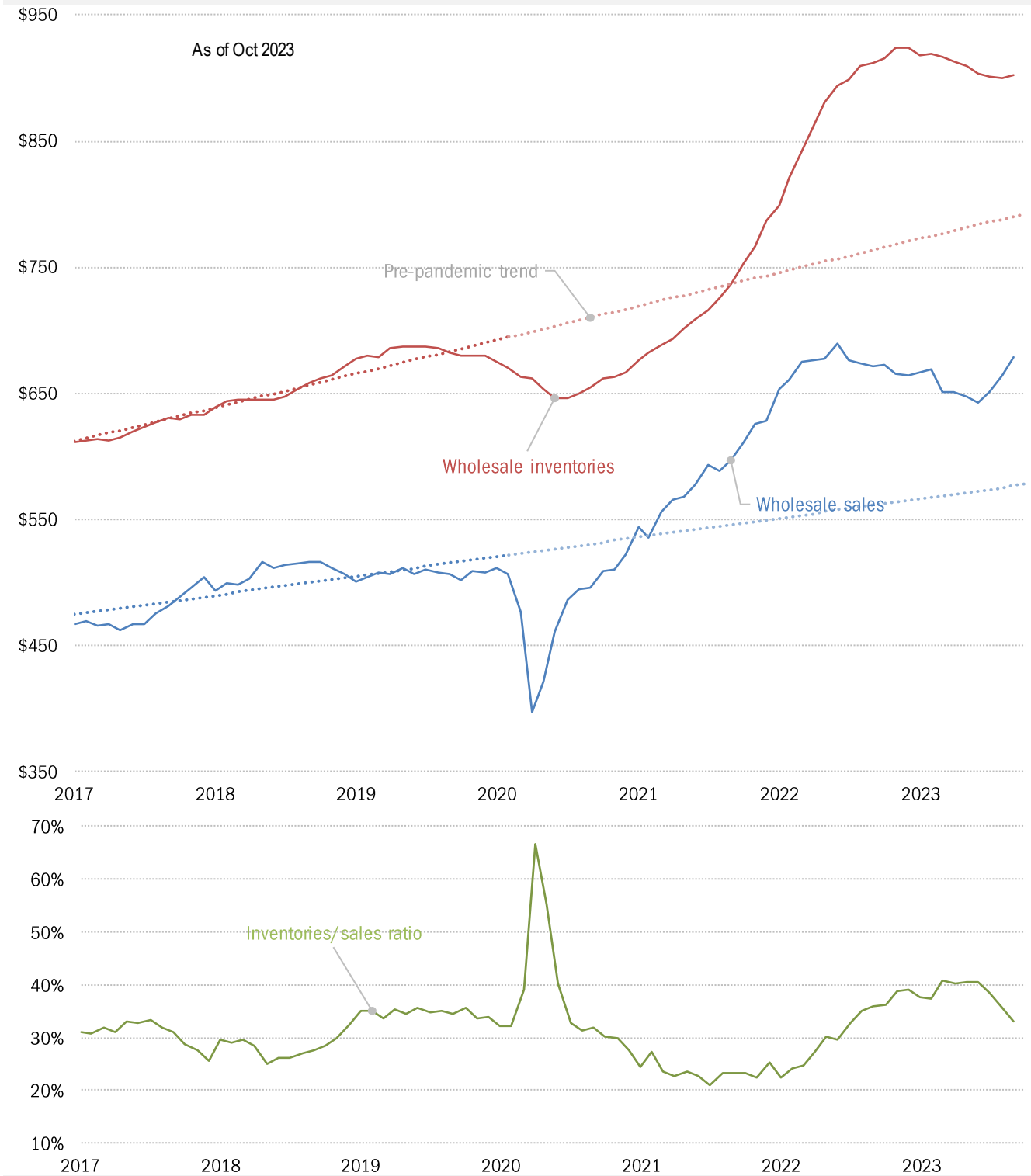
As of Sep 2023



Source: [Census Bureau](#), TrendMacro calculations

The backstage sub-ecosystem: wholesale sales and inventories

USD billions

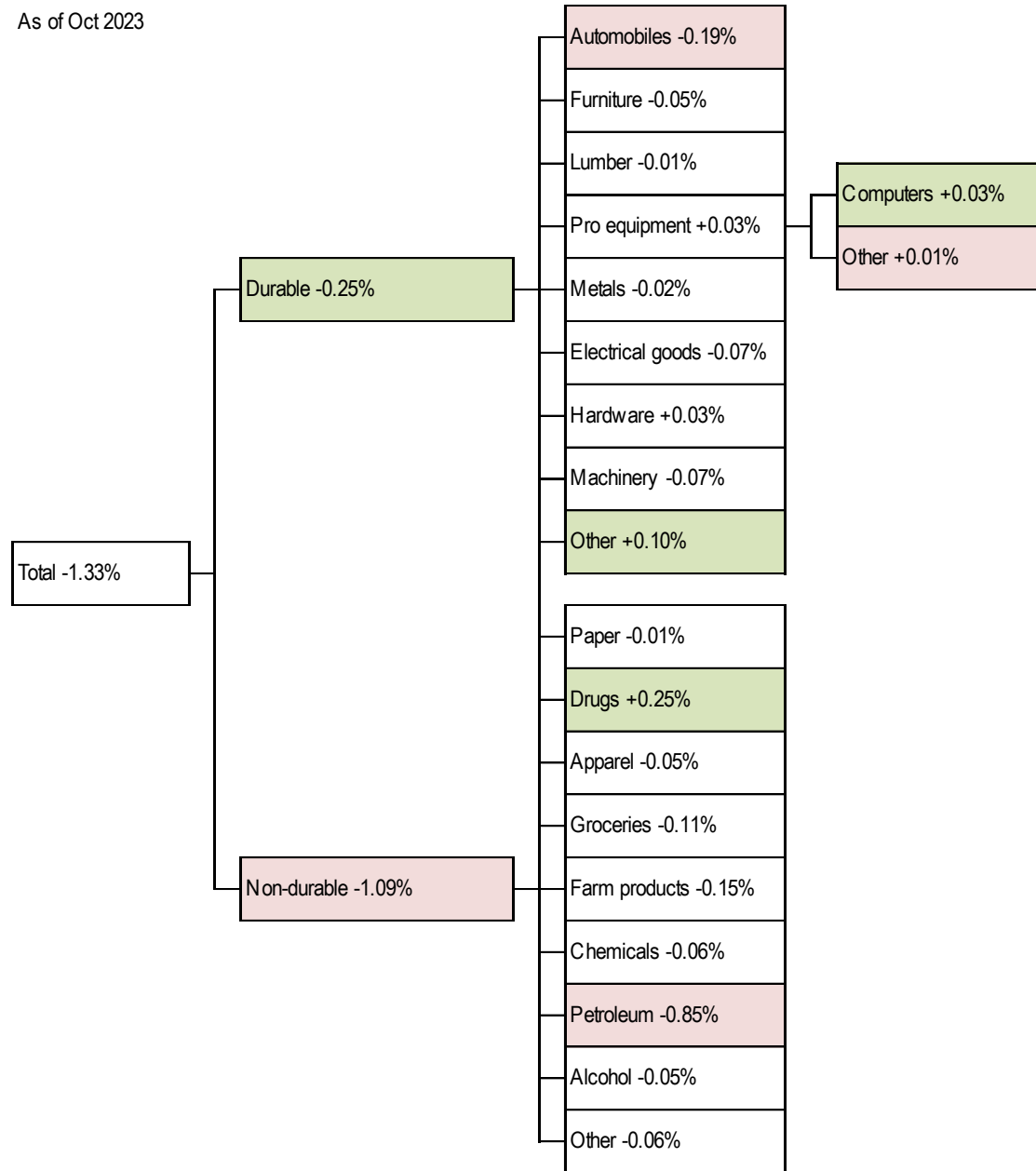


Source: [Census Bureau](#), TrendMacro calculations

Wholesale sales -- where did the growth come from?

Contributions to nominal, sequential month change, SA Biggest change per detail-level: ■ positive ■ negative

As of Oct 2023

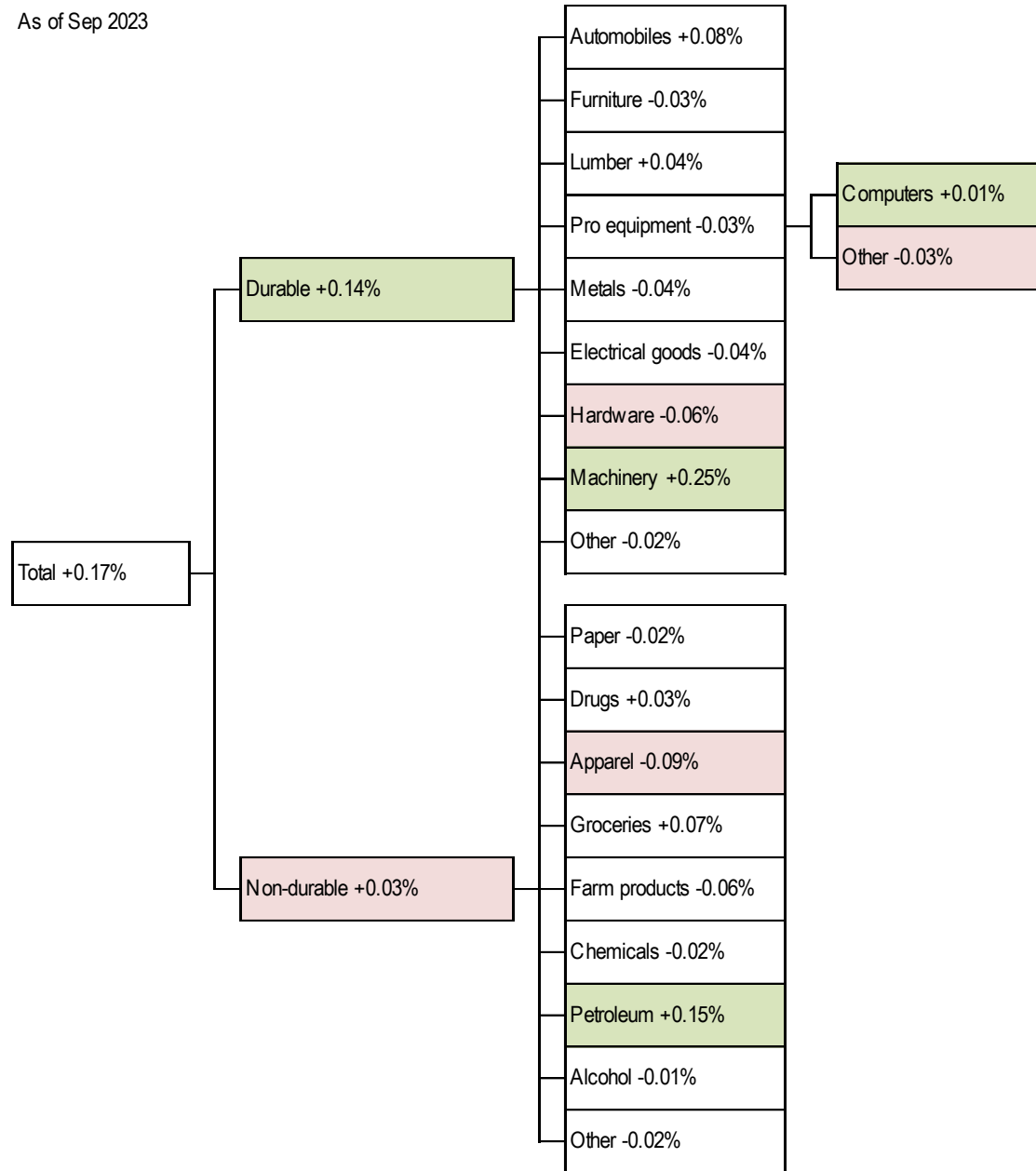


Source: [Census Bureau](https://www.census.gov), TrendMacro calculations

Wholesale inventories -- where did the growth come from?

Contributions to nominal, sequential month change, SA Biggest change per detail-level: ■ positive ■ negative

As of Sep 2023



Source: [Census Bureau](https://www.census.gov)