




**MONTHLY ADVANCE ECONOMIC INDICATORS REPORT, AUGUST 2024**

Release Number: CB24-159

**September 27, 2024** — The U.S. Census Bureau announced the following international trade, wholesale inventories, and retail inventories advance statistics for August 2024:

	 <b>ADVANCE INTERNATIONAL TRADE: GOODS DEFICIT</b>	 <b>ADVANCE WHOLESALE INVENTORIES</b>	 <b>ADVANCE RETAIL INVENTORIES</b>
<b>AUGUST 2024</b>	\$94.3 Billion      -8.3%°	\$905.7 Billion      +0.2%*	\$816.0 Billion      +0.5%
<b>JULY 2024</b>	\$102.8 Billion	\$904.1 Billion (R)	\$811.7 Billion (R)
<b>Next release: October 29, 2024.</b>			
<small>* The 90 percent confidence interval includes zero. There is insufficient evidence to conclude that the actual change is different from zero.            ° Statistical significance is not applicable or not measurable.            Data adjusted for seasonality but not price changes.            Source: U.S. Census Bureau; Advance Economic Indicators Report, September 27, 2024.</small>			

**Advance International Trade in Goods**

The international trade deficit was \$94.3 billion in August, down \$8.6 billion from \$102.8 billion in July. Exports of goods for August were \$177.0 billion, \$4.1 billion more than July exports. Imports of goods for August were \$271.3 billion, \$4.5 billion less than July imports.

**Advance Wholesale Inventories**

Wholesale inventories for August, adjusted for seasonal variations and trading day differences, but not for price changes, were estimated at an end-of-month level of \$905.7 billion, up 0.2 percent ( $\pm 0.2$  percent)\* from July 2024, and were up 0.7 percent ( $\pm 0.7$  percent)\* from August 2023. The June 2024 to July 2024 percentage change was revised from up 0.2 percent ( $\pm 0.2$  percent)\* to up 0.3 percent ( $\pm 0.2$  percent).

**Advance Retail Inventories**

Retail inventories for August, adjusted for seasonal variations and trading day differences, but not for price changes, were estimated at an end-of-month level of \$816.0 billion, up 0.5 percent ( $\pm 0.2$  percent) from July 2024, and were up 6.3 percent ( $\pm 0.5$  percent) from August 2023. The June 2024 to July 2024 percentage change was unrevised from the preliminary estimate of up 0.8 percent ( $\pm 0.2$  percent).

The September 2024 Advance report is scheduled for release on October 29, 2024. View the full schedule in the Economic Briefing Room: <[www.census.gov/economic-indicators/](http://www.census.gov/economic-indicators/)>. The full text and tables of this release can be found at <[www.census.gov/econ/indicators/](http://www.census.gov/econ/indicators/)>.

**Data Inquiries**International Trade Indicator Branch: 301-763-2311 [eid.international.trade.data@census.gov](mailto:eid.international.trade.data@census.gov)Retail Indicator Branch: 301-763-2713 [eid.retail.indicator.branch@census.gov](mailto:eid.retail.indicator.branch@census.gov)Wholesale Indicator Branch: 301-763-6856 [eid.wholesale.indicator.branch@census.gov](mailto:eid.wholesale.indicator.branch@census.gov)**Media Inquiries**

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## GENERAL INFORMATION

The Advance Economic Indicators Report (AEIR) for September 2024 will be released a day earlier than previously announced in order to provide key data earlier to data users. The updated release date is as follows:

September 2024: October 29, 2024

For all of our 2024 release dates please see our <[Economic Indicator Release Schedule](#)>.

## EXPLANATORY NOTES

### International Trade in Goods

#### **Goods (Census Basis)**

Data for goods on a Census basis are compiled from the documents collected by the U.S. Customs and Border Protection and reflect the movement of goods between foreign countries and the 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and U.S. Foreign Trade Zones. They include government and non-government shipments of goods and exclude shipments between the United States and its territories and possessions; transactions with U.S. military, diplomatic, and consular installations abroad; U.S. goods returned to the United States by its Armed Forces; personal and household effects of travelers; and in-transit shipments. Data for U.S. exports to Canada are derived from import data compiled by Canada. For more information on the data exchange and substitution please refer to the FT-900. The General Imports value reflects the total arrival of merchandise from foreign countries that immediately enters consumption channels, warehouses, or Foreign Trade Zones.

For imports, the value reported is the U.S. Customs and Border Protection appraised value of merchandise—generally, the price paid for merchandise for export to the United States. Import duties, freight, insurance, and other charges incurred in bringing merchandise to the United States are excluded.

Exports are valued at the free alongside ship value of merchandise at the U.S. port of export, based on the transaction price including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation.

Additional information on coverage and valuation are available in the Guide to Foreign Trade Statistics, <[www.census.gov/foreign-trade/guide/sec2.html#coverage](http://www.census.gov/foreign-trade/guide/sec2.html#coverage)> and <[www.census.gov/foreign-trade/guide/sec2.html#valuation](http://www.census.gov/foreign-trade/guide/sec2.html#valuation)>, respectively.

#### **Nonsampling Errors**

Goods data are a complete enumeration of documents collected by the U.S. Customs and Border Protection and are not subject to sampling errors. This report presents current month statistics which reflect nearly complete coverage. Current month statistics reflecting complete coverage will be published in the upcoming U.S. International Trade in Goods and Services report (FT-900). Statistics for other months shown reflect complete coverage and appear in the most recently published FT-900. Quality assurance procedures are performed at every stage of collection,

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processing, and tabulation. However, the data are still subject to several types of nonsampling errors. Information on nonsampling errors and other quality issues are available in the Guide to Foreign Trade Statistics, <[www.census.gov/foreign-trade/guide/sec2.html](http://www.census.gov/foreign-trade/guide/sec2.html)>.

The U.S. Census Bureau recommends that data users incorporate this information into their analyses, as nonsampling errors could impact the conclusion drawn from the results. For a detailed discussion of errors affecting the goods data, see U.S. Merchandise Trade Statistics: A Quality Profile (October 2014), available at <[www.census.gov/foreign-trade/aip/quality\\_profile10032014.pdf](http://www.census.gov/foreign-trade/aip/quality_profile10032014.pdf)> or from the Economic Indicators Division, U.S. Census Bureau.

### **Adjustments for Seasonal and Trading-Day Variations**

Goods data are presented on a seasonally adjusted and not seasonally adjusted basis. Seasonally adjusted (and/or trading day adjusted data) are produced using X-13ARIMA-SEATS software to develop monthly adjustment factors. Goods data are initially classified under the Harmonized Commodity Description and Coding System (Harmonized System), which is an internationally accepted standard for the commodity classification of traded goods. Combining trade into approximately 140 export and 140 import end-use categories makes it possible to examine goods according to their principal uses. These categories are used as the basis for computing the seasonal and trading-day adjusted data. These adjusted data are then summed to the six end-use aggregates for publication.

For more information, visit the seasonal adjustment section of the Guide to Foreign Trade here:

<[www.census.gov/foreign-trade/guide/sec2.html#seasonal](http://www.census.gov/foreign-trade/guide/sec2.html#seasonal)>.

### **Retail and Wholesale Inventories**

National estimates of end-of-month inventories are based on data from the Monthly Retail Trade Survey and the Monthly Wholesale Trade Survey. Additional information for each survey can be found at <[www.census.gov/retail](http://www.census.gov/retail)> and <[www.census.gov/wholesale](http://www.census.gov/wholesale)>. The advance estimates contained in this report are not incorporated into the full MRTS and MWTS time series.

The MRTS and MWTS samples selected to measure inventories consist of a stratified simple random sampling method of approximately 11,000 retail firms and 4,200 wholesale firms located in the United States. The retail and wholesale samples include firms of all sizes and are updated on a quarterly basis to account for new retail and wholesale firms, deaths, and other changes to the universe.

Data for nonresponding firms are imputed based on data for similar-sized firms classified in the same kind of business. For surveyed Retail companies, approximately 41.7 percent provided data for this reporting period resulting in a total quantity response rate of 50.0 percent. For surveyed Wholesale companies, approximately 53.4 percent provided data for this reporting period resulting in a total quantity response rate of 59.7 percent.

MRTS estimates cover companies with one or more establishments that sell merchandise and related services to final consumers. Nonemployers are represented in the retail estimates through benchmarking to prior annual survey estimates that include nonemployer sales based on administrative records. The Census Bureau has reviewed

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this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-7504206, Disclosure Review Board (DRB) approval number: CBDRB-FY24-0003).

MWTS estimates cover wholesale merchants who sell goods on their own account and include such businesses as wholesale merchants or jobbers, industrial distributors, exporters, and importers. Sales offices and branches maintained by manufacturing, refining, or mining firms for the purpose of marketing their products are not covered in this report. Also excluded is NAICS Industry Group 4251: Wholesale Electronic Markets and Agents and Brokers. The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. 7503922, Disclosure Review Board (DRB) approval number: CBDRB-FY24-0002).

### **Reliability of Estimates**

Because the retail and wholesale estimates are based on a sample survey, they contain sampling error and nonsampling error.

Sampling error is the difference between the estimate and the result that would be obtained from a complete enumeration of the sampling frame conducted under the same survey conditions. This error occurs because only a subset of the entire sampling frame is measured in a sample survey. Standard errors and coefficients of variation are estimated measures of sampling variation.

The margin of sampling error gives a range about the estimate which is a 90 percent confidence interval. If, for example, the percentage change estimate is +1.2 percent and its estimated standard error is 0.9 percent, then the margin of sampling error is  $\pm 1.753 \times 0.9$  percent or  $\pm 1.6$  percent, and the 90 percent confidence interval is  $-0.4$  percent to  $+2.8$  percent. If the interval contains 0, then one does not have sufficient evidence to conclude at the 90 percent confidence level that the change is different from zero and therefore the change is not statistically significant. Estimated changes are statistically significant unless otherwise noted. For a monthly total, the estimated coefficient of variation is given. The resulting confidence interval is the estimated value  $\pm 1.753 \times CV \times$  (the estimated monthly total).

Nonsampling error encompasses all other factors that contribute to the total error of a sample survey estimate. This type of error can occur because of nonresponse, insufficient coverage of the universe of businesses, mistakes in the recording and coding of data, and other errors of collection, response, coverage, or processing. Although nonsampling error is not measured directly, the Census Bureau employs quality control procedures throughout the process to minimize this type of error.

The U.S. Census Bureau recommends that individuals using retail and wholesale estimates incorporate this information into their analyses, as sampling error and nonsampling error could affect the conclusions drawn from the estimates.

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## Adjustments for Seasonal Variations

Concurrent seasonal adjustment is used to adjust the retail and wholesale inventories estimates for seasonal variations. Concurrent seasonal adjustment uses all available unadjusted estimates as input to the X-13ARIMA-SEATS program. The factors derived from the program are applied to the retail and wholesale estimates of current and previous month inventories and for inventories estimates a year ago as well.

**Statement Regarding Natural Disasters:** For information on the impact of natural disasters, including hurricanes, on the compilation of this report, please see <[Wholesale Natural Disaster FAQs](#)> and <[Retail Natural Disaster FAQs](#)>.

## Data Availability

The Advance Economic Indicators Report is available at <[www.census.gov/econ/indicators/index.html](http://www.census.gov/econ/indicators/index.html)>. For archived versions of the Advance Economic Indicators Report please visit the Historical Data tab at the following: <[www.census.gov/econ/indicators/historical\\_data.html](http://www.census.gov/econ/indicators/historical_data.html)>.

## RESOURCES

### API

The Census Bureau's application programming interface lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before.

<[www.census.gov/developers](http://www.census.gov/developers)>

### FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <[fred.stlouisfed.org/fred-mobile](http://fred.stlouisfed.org/fred-mobile)> for both Apple and Android devices. FRED, the signature database of the Federal Reserve Bank of St. Louis, now incorporates the Census Bureau's 13 economic indicators.

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\* The 90 percent confidence interval includes zero. There is insufficient statistical evidence to conclude that the actual change is different from zero.

° Statistical significance is not applicable or not measurable for this survey.

(R) Revised from the last published Monthly Retail Trade Report and Monthly Wholesale Trade: Sales and Inventories Report

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**Table 1. U.S. International Trade in Goods by Principal End-Use Category (1)**

In millions of dollars. Details may not equal totals due to seasonal adjustment and rounding. (X) – Not applicable

	Goods - Census Basis (2)						
	Monthly				Percent change		
	August 2024 (a)	July 2024	June 2024	August 2023	August 2024/ July 2024	July 2024/ June 2024	August 2024/ August 2023
<b>Seasonally Adjusted</b>							
Balance	-94,258	-102,838	-96,484	-83,686	(X)	(X)	(X)
Exports	177,039	172,914	173,000	170,141	2.4	0.0	4.1
Foods, Feeds, & Beverages	13,373	13,514	13,334	12,812	-1.0	1.3	4.4
Industrial Supplies (3)	60,722	60,372	60,201	61,643	0.6	0.3	-1.5
Capital Goods	57,715	56,089	54,268	51,111	2.9	3.4	12.9
Automotive Vehicles, etc.	14,033	13,420	15,117	15,368	4.6	-11.2	-8.7
Consumer Goods	22,914	21,770	22,583	22,155	5.3	-3.6	3.4
Other Goods	8,281	7,750	7,498	7,052	6.9	3.4	17.4
Imports	271,297	275,753	269,484	253,828	-1.6	2.3	6.9
Foods, Feeds, & Beverages	17,929	17,485	17,245	16,734	2.5	1.4	7.1
Industrial Supplies (3)	53,536	57,620	54,801	54,889	-7.1	5.1	-2.5
Capital Goods	82,981	83,447	80,177	70,724	-0.6	4.1	17.3
Automotive Vehicles, etc.	38,483	39,763	39,956	38,528	-3.2	-0.5	-0.1
Consumer Goods	66,895	66,609	65,993	62,321	0.4	0.9	7.3
Other Goods	11,474	10,829	11,312	10,631	6.0	-4.3	7.9
<b>Not Seasonally Adjusted</b>							
Balance	-97,243	-119,129	-91,136	-93,265	(X)	(X)	(X)
Exports	179,642	168,813	174,419	172,531	6.4	-3.2	4.1
Foods, Feeds, & Beverages	12,564	12,351	11,999	11,805	1.7	2.9	6.4
Industrial Supplies (3)	62,344	60,868	60,586	63,347	2.4	0.5	-1.6
Capital Goods	58,597	55,165	55,689	51,804	6.2	-0.9	13.1
Automotive Vehicles, etc.	14,931	12,810	15,242	16,450	16.6	-16.0	-9.2
Consumer Goods	22,757	19,996	23,467	21,926	13.8	-14.8	3.8
Other Goods	8,449	7,622	7,435	7,198	10.8	2.5	17.4
Imports	276,885	287,942	265,554	265,796	-3.8	8.4	4.2
Foods, Feeds, & Beverages	17,557	17,816	17,115	16,763	-1.5	4.1	4.7
Industrial Supplies (3)	55,605	61,963	55,766	58,423	-10.3	11.1	-4.8
Capital Goods	83,569	86,553	80,383	72,829	-3.4	7.7	14.7
Automotive Vehicles, etc.	39,862	39,994	39,208	40,305	-0.3	2.0	-1.1
Consumer Goods	69,569	70,553	62,110	66,975	-1.4	13.6	3.9
Other Goods	10,724	11,064	10,972	10,501	-3.1	0.8	2.1

(a) Advance statistics

(1) For a listing of the detail included in each end-use category, see <[www.census.gov/foreign-trade/reference/codes/enduse/exeumstr.txt](http://www.census.gov/foreign-trade/reference/codes/enduse/exeumstr.txt)>.

(2) Data are presented on a Census basis. The information needed to convert to a balance of payment basis is not available.

(3) Includes petroleum and petroleum products.

NOTES:

\* Current month statistics reflect nearly complete coverage; current month statistics reflecting complete coverage will be published in the upcoming U.S. International Trade in Goods and Services report (FT-900). Statistics for other months shown reflect complete coverage and appear in the most recently published FT-900.

\* For information on data sources, nonsampling errors, and definitions, see the explanatory notes in this release or at <[www.census.gov/econ/indicators/advance\\_report.pdf](http://www.census.gov/econ/indicators/advance_report.pdf)>.

Source: U.S. Census Bureau; Advance Economic Indicators Report, September 27, 2024.

## Table 2. Levels and Percent Changes for Inventories

Inventories estimates are shown in millions of dollars. Estimates are based on data from the Monthly Wholesale Trade Survey and the Monthly Retail Trade Survey.

	Inventories					
	Monthly			Percent change		
	August 2024 (a)	July 2024 (r)	August 2023 (r)	August 2024/ July 2024	July 2024/ June 2024	August 2024/ August 2023
<b>Adjusted<sup>1</sup></b>						
Merchant wholesale <sup>2</sup> trade, total	905,746	904,120	899,121	0.2	0.3	0.7
Durable goods	576,316	574,543	560,152	0.3	0.1	2.9
Nondurable goods	329,430	329,577	338,969	0.0	0.6	-2.8
Retail trade, total	815,983	811,682	767,795	0.5	0.8	6.3
Total (excl. motor veh. & parts)	546,736	544,683	545,168	0.4	0.5	0.3
Motor vehicle & parts dealers	269,247	266,999	222,627	0.8	1.3	20.9
<b>Not Adjusted</b>						
Merchant wholesale <sup>2</sup> trade, total	892,551	893,742	884,316	-0.1	-0.3	0.9
Durable goods	576,799	578,764	561,030	-0.3	0.3	2.8
Nondurable goods	315,752	314,978	323,286	0.2	-1.3	-2.3
Retail trade, total	806,881	797,946	760,084	1.1	-0.2	6.2
Total (excl. motor veh. & parts)	543,666	535,993	541,794	1.4	0.2	0.3
Motor vehicle & parts dealers	263,215	261,953	218,290	0.5	-0.9	20.6

(a) Advance estimate

(r) Revised estimate

See footnotes and notes at the end of Table 3.

## Table 3. Estimated Measures of Sampling Variability

Estimates are shown as percents and are based on data from the Monthly Wholesale Trade Survey and the Monthly Retail Trade Survey.

	Inventories					
	Monthly			Standard Error of		
	Coefficient of Variation			Percent Change		
August 2024 (a)	July 2024 (r)	August 2023 (r)	August 2024/ July 2024	July 2024/ June 2024	August 2024/ August 2023	
Merchant wholesale <sup>2</sup> trade, total	2.0	2.0	2.0	0.1	0.1	0.4
Durable goods	2.8	2.9	2.9	0.1	0.1	0.7
Nondurable goods	1.5	1.7	1.7	0.2	0.3	0.6
Retail trade, total	1.1	1.0	1.0	0.1	0.1	0.3
Total (excl. motor veh. & parts)	1.4	1.4	1.3	0.1	0.1	0.3
Motor vehicle & parts dealers	1.4	1.4	1.4	0.3	0.2	0.7

(a) Advance estimate

(r) Revised estimate

(1) Estimates are concurrently adjusted for seasonal variation and trading day differences, but not for price changes. Concurrent seasonal adjustment uses all available not adjusted estimates as input to the X-13ARIMA-SEATS program. The factors derived from the program are used in calculating all seasonally adjusted estimates shown in this table.

(2) The 2012 North American Industry Classification System (NAICS) defines merchant wholesalers as including manufacturers' sales branches and offices. However, the estimates included in this release exclude manufacturers' sales branches and offices. Note that this is not a change in coverage from prior releases and is consistent with the description used in the Monthly Wholesale Trade Survey data products.

### NOTES:

Estimated measures of sampling variability are based on estimates not adjusted for seasonal variation. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/wholesale/www/how\\_surveys\\_are\\_collected/monthly\\_methodology.html](http://www.census.gov/wholesale/www/how_surveys_are_collected/monthly_methodology.html) for wholesale and at [www.census.gov/retail/mrts/how\\_surveys\\_are\\_collected.html](http://www.census.gov/retail/mrts/how_surveys_are_collected.html) for retail.