




MONTHLY ADVANCE ECONOMIC INDICATORS REPORT, SEPTEMBER 2017

Release Number: CB17-176

Notice: For information on the impact of Hurricanes Harvey and Irma on the compilation of this report, please see the following links: [International Trade in Goods](#), [Retail Inventories](#), and [Wholesale Inventories](#).

October 26, 2017 — The U.S. Census Bureau announced the following international trade, wholesale inventories, and retail inventories advance statistics for September 2017:

	 ADVANCE INTERNATIONAL TRADE: GOODS DEFICIT	 ADVANCE WHOLESALE INVENTORIES	 ADVANCE RETAIL INVENTORIES
SEPTEMBER 2017	\$64.1 Billion +1.3%^o	\$609.1 Billion +0.3%	\$618.0 Billion -1.0%
AUGUST 2017	\$63.3 Billion	\$607.4 Billion (R)	\$624.3 Billion (R)
Next release: November 28, 2017.			
<small>* The 90 percent confidence interval includes zero. There is insufficient evidence to conclude that the actual change is different from zero. ^o 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, October 26, 2017.</small>			

Advance International Trade in Goods

The international trade deficit was \$64.1 billion in September, up \$0.8 billion from \$63.3 billion in August. Exports of goods for September were \$129.6 billion, \$0.9 billion more than August exports. Imports of goods for September were \$193.7 billion, \$1.7 billion more than August imports.

Advance Wholesale Inventories

Wholesale inventories for September, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$609.1 billion, up 0.3 percent (± 0.2 percent) from August 2017, and were up 4.6 percent (± 0.7 percent) from September 2016. The July 2017 to August 2017 percentage change was revised from up 0.9 percent (± 0.2 percent) to up 0.8 percent (± 0.2 percent).

Advance Retail Inventories

Retail inventories for September, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$618.0 billion, down 1.0 percent (± 0.2 percent) from August 2017, and were up 2.1 percent (± 0.4 percent) from September 2016. The July 2017 to August 2017 percentage change was revised from up 0.7 percent (± 0.2 percent) to up 0.6 percent (± 0.2 percent).

The October 2017 Advance report is scheduled for release on November 28, 2017. View the full schedule in the Economic Briefing Room: <www.census.gov/economic-indicators/>. The full text and tables of this release can be found at <www.census.gov/econ/indicators/>.

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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> and <www.census.gov/foreign-trade/guide/sec2.html#valuation>, respectively.

Non Sampling 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, 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>.

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

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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> 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>

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> and <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 consist of a stratified simple random sampling method of approximately 10,000 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 44.6 percent provided data for this reporting period resulting in a total quantity response rate of 53.1 percent. For surveyed Wholesale companies, approximately 54.3 percent provided data for this reporting period resulting in a total quantity response rate of 54.8 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.

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

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products are not covered in this report. Also excluded is NAICS Industry Group 4251: Wholesale Electronic Markets and Agents and Brokers.

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 ± 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.

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.

Data Availability

The Advance Economic Indicators Report is available at 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.

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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/>

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* 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 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		
	September 2017 (a)	August 2017	July 2017	September 2016	September 2017/ August 2017	August 2017/ July 2017	September 2017/ September 2016
Seasonally Adjusted							
Balance	-64,138	-63,319	-63,822	-58,356	(X)	(X)	(X)
Exports	129,582	128,676	128,593	124,282	0.7	0.1	4.3
Foods, Feeds, & Beverages	11,815	11,830	12,248	11,833	-0.1	-3.4	-0.2
Industrial Supplies (3)	38,309	36,552	37,506	34,664	4.8	-2.5	10.5
Capital Goods	45,013	45,295	44,888	43,583	-0.6	0.9	3.3
Automotive Vehicles, etc.	12,252	13,029	12,969	12,520	-6.0	0.5	-2.1
Consumer Goods	16,686	16,760	15,745	16,788	-0.4	6.4	-0.6
Other Goods	5,507	5,211	5,238	4,894	5.7	-0.5	12.5
Imports	193,720	191,996	192,415	182,638	0.9	-0.2	6.1
Foods, Feeds, & Beverages	11,760	11,570	11,650	10,880	1.6	-0.7	8.1
Industrial Supplies (3)	40,854	39,997	40,521	38,044	2.1	-1.3	7.4
Capital Goods	54,834	53,660	54,155	48,778	2.2	-0.9	12.4
Automotive Vehicles, etc.	29,429	30,035	29,360	29,809	-2.0	2.3	-1.3
Consumer Goods	48,973	48,877	48,778	47,437	0.2	0.2	3.2
Other Goods	7,869	7,857	7,951	7,690	0.2	-1.2	2.3
Not Seasonally Adjusted							
Balance	-64,964	-72,509	-69,990	-61,564	(X)	(X)	(X)
Exports	129,240	129,286	122,120	124,431	0.0	5.9	3.9
Foods, Feeds, & Beverages	10,723	10,347	10,173	10,997	3.6	1.7	-2.5
Industrial Supplies (3)	37,817	37,833	37,136	34,456	0.0	1.9	9.8
Capital Goods	45,528	45,871	43,588	43,959	-0.7	5.2	3.6
Automotive Vehicles, etc.	12,558	13,887	11,388	12,983	-9.6	21.9	-3.3
Consumer Goods	17,142	16,139	14,611	17,176	6.2	10.5	-0.2
Other Goods	5,472	5,210	5,225	4,861	5.0	-0.3	12.6
Imports	194,205	201,795	192,110	185,995	-3.8	5.0	4.4
Foods, Feeds, & Beverages	10,862	11,493	11,242	10,216	-5.5	2.2	6.3
Industrial Supplies (3)	40,347	42,805	41,874	38,044	-5.7	2.2	6.1
Capital Goods	53,947	55,747	54,286	48,912	-3.2	2.7	10.3
Automotive Vehicles, etc.	28,500	31,162	27,940	29,155	-8.5	11.5	-2.2
Consumer Goods	52,611	52,680	49,184	51,714	-0.1	7.1	1.7
Other Goods	7,939	7,907	7,584	7,953	0.4	4.3	-0.2

(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>.

(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>.

Source: U.S. Census Bureau; Advance Economic Indicators Report

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		
	September 2017 (a)	August 2017 (r)	September 2016 (r)	September 2017/ August 2017	August 2017/ July 2017	September 2017/ September 2016
Adjusted¹						
Merchant wholesale ² trade, total	609,071	607,354	582,351	0.3	0.8	4.6
Durable goods	372,726	371,673	352,646	0.3	0.7	5.7
Nondurable goods	236,345	235,681	229,705	0.3	0.9	2.9
Retail trade, total	617,983	624,340	605,105	-1.0	0.6	2.1
Total (excl. motor veh. & parts)	398,767	399,224	393,998	-0.1	0.3	1.2
Motor vehicle & parts dealers	219,216	225,116	211,107	-2.6	1.1	3.8
Not Adjusted						
Merchant wholesale ² trade, total	605,749	596,601	579,261	1.5	0.1	4.6
Durable goods	374,549	373,168	354,435	0.4	0.4	5.7
Nondurable goods	231,200	223,433	224,826	3.5	-0.4	2.8
Retail trade, total	620,364	611,284	607,923	1.5	1.2	2.0
Total (excl. motor veh. & parts)	408,104	395,671	403,482	3.1	1.6	1.1
Motor vehicle & parts dealers	212,260	215,613	204,441	-1.6	0.3	3.8

(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		
	September 2017 (a)	August 2017 (r)	September 2016 (r)	September 2017/ August 2017	August 2017/ July 2017	September 2017/ September 2016
Merchant wholesale ² trade, total	1.4	1.5	1.5	0.1	0.1	0.4
Durable goods	1.7	1.7	1.7	0.2	0.2	0.7
Nondurable goods	1.8	1.9	2.3	0.2	0.3	1.0
Retail trade, total	0.7	0.7	0.8	0.1	0.1	0.2
Total (excl. motor veh. & parts)	0.6	0.7	0.6	0.1	0.0	0.2
Motor vehicle & parts dealers	1.4	1.4	1.5	0.2	0.3	0.6

(a) Advance estimate

(r) Revised estimate

(1) Estimates are concurrently adjusted for seasonal variation, 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 2007 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 for wholesale and at www.census.gov/retail/mrts/how_surveys_are_collected.html for retail.