




MONTHLY ADVANCE ECONOMIC INDICATORS REPORT, MAY 2019

Release Number: CB19-95

June 26, 2019 — The U.S. Census Bureau announced the following international trade, wholesale inventories, and retail inventories advance statistics for May 2019:

	 ADVANCE INTERNATIONAL TRADE: GOODS DEFICIT	 ADVANCE WHOLESALE INVENTORIES	 ADVANCE RETAIL INVENTORIES
MAY 2019	\$74.5 Billion +5.1% ^o	\$678.7 Billion +0.4%	\$664.5 Billion +0.5%
APRIL 2019	\$70.9 Billion	\$675.9 Billion (R)	\$661.4 Billion (R)
Next release: July 25, 2019.			
<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, June 26, 2019.</small>			

Advance International Trade in Goods

The international trade deficit was \$74.5 billion in May, up \$3.6 billion from \$70.9 billion in April. Exports of goods for May were \$140.2 billion, \$4.1 billion more than April exports. Imports of goods for May were \$214.7 billion, \$7.8 billion more than April imports.

Advance Wholesale Inventories

Wholesale inventories for May, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$678.7 billion, up 0.4 percent (± 0.2 percent) from April 2019, and were up 7.8 percent (± 1.1 percent) from May 2018. The March 2019 to April 2019 percentage change was revised from up 0.8 percent (± 0.4 percent) to up 0.9 percent (± 0.4 percent).

Advance Retail Inventories

Retail inventories for May, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$664.5 billion, up 0.5 percent (± 0.2 percent) from April 2019, and were up 4.8 percent (± 0.5 percent) from May 2018. The March 2019 to April 2019 percentage change was unrevised at up 0.6 percent (± 0.4 percent).

The June 2019 Advance report is scheduled for release on July 25, 2019. 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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GENERAL INFORMATION

Notice of Revision: Revisions to the Retail estimates were released June 25, 2019 and are reflected in this release. Estimates were revised to reflect the results of the 2017 Annual Retail Trade Survey.

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.

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

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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 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 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.

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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 47.3 percent provided data for this reporting period resulting in a total quantity response rate of 55.1 percent. For surveyed Wholesale companies, approximately 53.9 percent provided data for this reporting period resulting in a total quantity response rate of 56.2 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 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,

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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: <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/>

FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <<https://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.

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° 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		
	May 2019 (a)	April 2019	March 2019	May 2018	May 2019/ April 2019	April 2019/ March 2019	May 2019/ May 2018
Seasonally Adjusted							
Balance	-74,550	-70,915	-71,804	-65,631	(X)	(X)	(X)
Exports	140,195	136,073	140,564	143,753	3.0	-3.2	-2.5
Foods, Feeds, & Beverages	11,896	11,208	11,099	13,087	6.1	1.0	-9.1
Industrial Supplies (3)	44,323	44,628	44,661	45,353	-0.7	-0.1	-2.3
Capital Goods	46,251	44,696	47,419	48,075	3.5	-5.7	-3.8
Automotive Vehicles, etc.	13,790	13,172	13,924	13,587	4.7	-5.4	1.5
Consumer Goods	18,221	17,293	17,855	17,655	5.4	-3.1	3.2
Other Goods	5,715	5,076	5,606	5,995	12.6	-9.4	-4.7
Imports	214,745	206,988	212,368	209,384	3.7	-2.5	2.6
Foods, Feeds, & Beverages	12,775	12,845	12,987	12,355	-0.5	-1.1	3.4
Industrial Supplies (3)	46,303	44,568	45,180	47,997	3.9	-1.4	-3.5
Capital Goods	57,131	55,617	57,357	58,555	2.7	-3.0	-2.4
Automotive Vehicles, etc.	33,234	30,907	31,889	29,972	7.5	-3.1	10.9
Consumer Goods	55,485	54,295	55,394	51,886	2.2	-2.0	6.9
Other Goods	9,818	8,756	9,562	8,620	12.1	-8.4	13.9
Not Seasonally Adjusted							
Balance	-78,065	-73,889	-59,726	-71,016	(X)	(X)	(X)
Exports	142,408	135,118	148,267	145,424	5.4	-8.9	-2.1
Foods, Feeds, & Beverages	10,550	10,611	11,342	11,421	-0.6	-6.4	-7.6
Industrial Supplies (3)	45,780	45,212	46,055	46,801	1.3	-1.8	-2.2
Capital Goods	46,923	44,134	51,172	48,620	6.3	-13.8	-3.5
Automotive Vehicles, etc.	14,967	13,531	14,991	14,755	10.6	-9.7	1.4
Consumer Goods	18,369	16,546	18,998	17,754	11.0	-12.9	3.5
Other Goods	5,818	5,084	5,709	6,073	14.4	-11.0	-4.2
Imports	220,473	209,007	207,993	216,440	5.5	0.5	1.9
Foods, Feeds, & Beverages	13,458	13,365	13,377	13,103	0.7	-0.1	2.7
Industrial Supplies (3)	48,889	46,239	44,373	50,940	5.7	4.2	-4.0
Capital Goods	59,057	56,181	57,177	60,751	5.1	-1.7	-2.8
Automotive Vehicles, etc.	33,393	31,480	33,814	30,233	6.1	-6.9	10.5
Consumer Goods	55,650	52,564	49,699	52,612	5.9	5.8	5.8
Other Goods	10,027	9,178	9,553	8,801	9.2	-3.9	13.9

(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, June 26, 2019.

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		
	May 2019 (a)	April 2019 (r)	May 2018 (r)	May 2019/ April 2019	April 2019/ March 2019	May 2019/ May 2018
Adjusted¹						
Merchant wholesale ² trade, total	678,655	675,854	629,782	0.4	0.9	7.8
Durable goods	421,947	421,127	381,160	0.2	0.9	10.7
Nondurable goods	256,708	254,727	248,622	0.8	0.8	3.3
Retail trade, total	664,521	661,389	634,172	0.5	0.6	4.8
Total (excl. motor veh. & parts)	419,975	418,818	407,608	0.3	0.5	3.0
Motor vehicle & parts dealers	244,546	242,571	226,564	0.8	0.8	7.9
Not Adjusted						
Merchant wholesale ² trade, total	673,333	677,396	624,627	-0.6	0.2	7.8
Durable goods	421,726	421,846	381,169	0.0	1.2	10.6
Nondurable goods	251,607	255,550	243,458	-1.5	-1.5	3.3
Retail trade, total	658,568	662,023	628,049	-0.5	0.6	4.9
Total (excl. motor veh. & parts)	412,372	414,038	399,957	-0.4	0.2	3.1
Motor vehicle & parts dealers	246,196	247,985	228,092	-0.7	1.4	7.9

(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		
	May 2019 (a)	April 2019 (r)	May 2018 (r)	May 2019/ April 2019	April 2019/ March 2019	May 2019/ May 2018
Merchant wholesale ² trade, total	1.8	1.8	1.4	0.1	0.2	0.6
Durable goods	2.4	2.3	2.1	0.2	0.2	0.9
Nondurable goods	1.5	1.6	1.4	0.1	0.2	0.9
Retail trade, total	0.6	0.6	0.6	0.1	0.2	0.3
Total (excl. motor veh. & parts)	0.6	0.7	0.5	0.0	0.2	0.3
Motor vehicle & parts dealers	1.3	1.3	1.3	0.3	0.4	0.8

(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 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 for wholesale and at www.census.gov/retail/mrts/how_surveys_are_collected.html for retail.