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## ADVANCE MONTHLY SALES FOR RETAIL AND FOOD SERVICES OCTOBER 2016

The U.S. Census Bureau announced today that advance estimates of U.S. retail and food services sales for October, adjusted for seasonal variation and holiday and trading-day differences, but not for price changes, were $\$ 465.9$ billion, an increase of 0.8 percent ( $\pm 0.5 \%$ ) from the previous month, and 4.3 percent $( \pm 0.9 \%)$ above October 2015. Total sales for the August 2016 through October 2016 period were up 3.3 percent ( $\pm 0.7 \%$ ) from the same period a year ago. The August 2016 to September 2016 percent change was revised from up 0.6 percent ( $\pm 0.5 \%$ ) to up 1.0 percent $( \pm 0.1 \%$ ).
Retail trade sales were up 1.0 percent ( $\pm 0.5 \%$ ) from September 2016, and up 4.3 percent ( $\pm 0.7 \%$ ) from last year. Nonstore retailers were up 12.9 percent $( \pm 1.6 \%)$ from October 2015, while Miscellaneous stores retailers were up 9.5 percent $( \pm 4.2 \%)$ from last year.

The scheduled release dates for 2017 are as follows: Januray 13, February 15, March 15, April 14, May 12, June 14, July 14, August 15, September 15, October 13, November 15, December 14.
The advance estimates are based on a subsample of the Census Bureau's full retail and food services sample. A stratified random sampling method is used to select approximately 4,700 retail and food services firms whose sales are then weighted and benchmarked to represent the complete universe of over three million retail and food services firms. For an explanation of the measures of sampling variability included in this report, please see the Reliability of Estimates section on the last page of this publication.

Percent Change in Retail and Food Services Sales
(Estimates adjusted for seasonal variation and holiday and trading-day differences, but not for price changes)


The Advance Monthly Sales for Retail and Food Services for November is scheduled to be released December 14, 2016 at 8:30 a.m. EST.
For customized retail time series estimates by industry, visit the Census Bureau's web site at www.census.gov/timeseries.
To receive the latest updates on the nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets.
The URL for the economic indicators data in the Census Bureau API (Application Programming Interface) has been updated to add /timeseries/. Examples can be found on the Developers' webpage. The old URL will be discontinued on December 31, 2016.
For additional survey information, visit www.census.gov/retail.

* The 90 percent confidence interval includes zero. The Census Bureau does not have sufficient statistical evidence to conclude that the actual change is different than zero.


## Table 1. Estimated Monthly Sales for Retail and Food Services, by Kind of Business

(Total sales estimates are shown in millions of dollars and are based on data from the Advance Monthly Retail Trade Survey, Monthly Retail Trade Survey, and administrative records.)

| NAICS ${ }^{1}$ code | Kind of Business | Not Adjusted |  |  |  |  |  |  | Adjusted $^{2}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 10 Month Total |  | 2016 |  |  | 2015 |  | 2016 |  |  | 2015 |  |
|  |  | 2016 | $\begin{gathered} \text { \% Chg. } \\ 2015 \end{gathered}$ | Oct. ${ }^{3}$ <br> (a) | Sep. (p) | Aug. <br> (r) | Oct. | Sep. | Oct. ${ }^{3}$ <br> (a) | Sep. <br> (p) | Aug. <br> (r) | Oct. <br> (r) | Sep. <br> (r) |
|  | Retail \& food services, |  |  |  |  |  |  |  |  |  |  |  |  |
|  | total | 4,494,704 | 2.9 | 454,520 | 447,774 | 471,574 | 444,959 | 430,917 | 465,914 | 462,106 | 457,722 | 446,708 | 447,641 |
|  | Total (excl. motor vehicle \& parts) ... | 3,552,844 | 2.8 | 362,560 | 353,912 | 369,300 | 355,300 | 340,802 | 369,099 | 366,317 | 363,721 | 354,861 | 355,327 |
|  | Retail | 3,946,643 | 2.5 | 399,181 | 393,467 | 416,217 | 391,072 | 380,320 | 410,905 | 406,691 | 402,695 | 393,981 | 395,317 |
|  | GAFO ${ }^{4}$ | (*) | (*) | (*) | 97,275 | 106,225 | 103,167 | 98,009 | (*) | 104,209 | 104,533 | 105,491 | 106,007 |
| 441 | Motor vehicle \& parts dealers ....... | 941,860 | 3.3 | 91,960 | 93,862 | 102,274 | 89,659 | 90,115 | 96,815 | 95,789 | 94,001 | 91,847 | 92,314 |
| 4411, 4412 | Auto \& other motor veh. dealers . | 868,835 | 3.5 | 84,647 | 86,629 | 94,529 | 82,125 | 82,903 | 89,574 | 88,578 | 86,803 | 84,665 | 85,116 |
| $44111$ | New car dealers .................. | (*) | (*) | (*) | 73,087 | 79,497 | 69,656 | 70,223 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 4413 | Auto parts, acc. \& tire stores...... | (*) | (*) | (*) | 7,233 | 7,745 | 7,534 | 7,212 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 442 | Furniture \& home furn. stores ...... | 88,181 | 3.4 | 8,818 | 9,312 | 9,385 | 8,973 | 8,847 | 9,110 | 9,192 | 9,015 | 8,955 | 8,821 |
| 4421 | Furniture stores ............ | (*) | (*) | (*) | 5,073 | 4,924 | 4,860 | 4,999 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 4422 | Home furnishings stores ........... | (*) | (*) | (*) | 4,239 | 4,461 | 4,113 | 3,848 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 443 | Electronics \& appliance stores ...... | 78,490 | -3.3 | 7,755 | 7,973 | 8,363 | 8,213 | 8,413 | 8,342 | 8,325 | 8,482 | 8,690 | 8,822 |
| 44311, 13 | Appl., T.V. \& camera | (*) | (*) | $\left({ }^{*}\right)$ | 6,092 | 6,464 | 6,007 | 6,173 | (*) | 6,320 | 6,381 | 6,404 | 6,457 |
| 44312 | Computer \& software stores... | (*) | (*) | (*) | (S) | (S) | (S) | (S) | (*) | (S) | (S) | (S) | (S) |
| 444 | Building material \& garden eq. \& supplies dealers. | 296,239 | 6.3 | 29,370 | 29,194 | 30,257 | 28,546 | 27,377 | 29,919 | 29,594 | 29,073 | 28,105 | 27,857 |
| 4441 | Building mat. \& sup. dealers .... | (*) | (*) | (*) | 26,071 | 27,094 | 25,100 | 24,325 | (*) | 25,762 | 25,321 | 24,322 | 24,037 |
| 445 | Food \& beverage stores................ | 582,711 | 2.2 | 59,240 | 57,813 | 59,036 | 58,065 | 56,109 | 59,694 | 59,155 | 58,793 | 57,583 | 57,791 |
| 4451 | Grocery stores | 522,424 | 2.1 | 52,942 | 51,651 | 52,769 | 51,987 | 50,244 | 53,208 | 52,813 | 52,506 | 51,472 | 51,638 |
| 4453 | Beer, wine \& liquor stores ......... | (*) | (*) | (*) | 4,339 | 4,386 | 4,291 | 4,091 | (*) | 4,405 | 4,364 | 4,240 | 4,235 |
| 446 | Health \& personal care stores | 276,283 | 7.6 | 28,306 | 27,915 | 28,799 | 26,602 | 26,072 | 28,650 | 28,427 | 28,401 | 26,443 | 26,658 |
| 44611 | Pharmacies \& drug stores | (*) | (*) | (*) | 23,276 | 24,132 | 22,640 | 22,025 | (*) | 23,751 | 23,846 | 22,349 | 22,520 |
| 447 | Gasoline stations | 337,061 | -8.6 | 35,582 | 34,850 | 35,954 | 35,932 | 35,574 | 34,816 | 34,066 | 33,076 | 34,550 | 35,048 |
| 448 | Clothing \& clothing accessories stores $\qquad$ | 199,576 | 0.4 | 20,503 | 19,573 | 22,086 | 20,563 | 19,080 | 21,550 | 21,430 | 21,377 | 21,071 | 21,233 |
| 44811 | Men's clothing stores | (*) | (*) | (*) | 698 | 681 | 734 | 683 | (*) | 726 | 722 | 706 | 717 |
| 44812 | Women's clothing stores ........... | (*) | (*) | (*) | 3,218 | 3,404 | 3,510 | 3,212 | (*) | 3,427 | 3,459 | 3,465 | 3,446 |
| 44814 | Family clothing stores ............... | (*) | (*) | (*) | 7,819 | 8,551 | 8,571 | 7,752 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 4482 | Shoe stores | (*) | (*) | (*) | 2,626 | 3,704 | 2,641 | 2,542 | (*) | 2,898 | 2,930 | 2,849 | 2,847 |
| 451 | Sporting goods, hobby, book \& music stores. $\qquad$ | 72,137 | 3.9 | 6,808 | 7,224 | 8,350 | 6,876 | 7,292 | 7,816 | 7,718 | 7,626 | 7,683 | 7,749 |
| 452 | General merchandise stores.......... | 531,923 | -0.7 | 53,760 | 50,417 | 54,859 | 55,544 | 51,588 | 55,009 | 54,784 | 55,269 | 56,325 | 56,592 |
| 4521 | Department stores (ex. L.D.)....... | 118,510 | -5.2 | 11,861 | 11,339 | 12,628 | 12,936 | 12,023 | 12,663 | 12,748 | 12,846 | 13,658 | 13,659 |
| 4521 | Department stores (incl. L.D.) ${ }^{5} \ldots .$. | (*) | (*) | (*) | 11,450 | 13,009 | 13,115 | 12,185 | (*) | (NA) | (NA) | (NA) | (NA) |
| 4529 | Other general merch. stores.... .. | (*) | (*) | (*) | 39,078 | 42,231 | 42,608 | 39,565 | (*) | 42,036 | 42,423 | 42,667 | 42,933 |
| 45291 | Warehouse clubs \& supercenters. | (*) | (*) | (*) | 33,533 | 36,591 | 36,768 | 34,148 | (*) | 36,174 | 36,554 | 36,879 | 37,158 |
| 45299 | All oth. gen. merch. stores...... | (*) | (*) | (*) | 5,545 | 5,640 | 5,840 | 5,417 | (*) | 5,862 | 5,869 | 5,788 | 5,775 |
| 453 | Miscellaneous store retailers ........ | 104,463 | 4.8 | 11,491 | 10,749 | 11,023 | 10,647 | 9,991 | 10,942 | 10,687 | 10,473 | 9,992 | 9,961 |
| 454 | Nonstore retailers ...................... | 437,719 | 11.1 | 45,588 | 44,585 | 45,831 | 41,452 | 39,862 | 48,242 | 47,524 | 47,109 | 42,737 | 42,471 |
| 4541 | Elect. shopping \& m/o houses .... | (*) | (*) | (*) | 39,233 | 40,611 | 35,824 | 34,783 | (*) | 41,737 | 41,355 | 37,085 | 36,885 |
| 722 | Food services \& drinking places ... | 548,061 | 6.0 | 55,339 | 54,307 | 55,357 | 53,887 | 50,597 | 55,009 | 55,415 | 55,027 | 52,727 | 52,324 |

(*) Advance estimates are not available for this kind of business.
(NA) Not available
(a) Advance estimate
(p) Preliminary estimate
(S) Estimate does not meet publication standards because of high sampling variability (coefficient of variation is greater than 30\%), poor response quality (total quantity response rate is less than 50\%), or other concerns about the estimate's quality.
(1) For a full description of the NAICS codes used in this table, see http://www.census.gov/eos/www/naics
(2) Estimates are concurrently adjusted for seasonal variation and for holiday and trading day differences, but not for price changes. Concurrent seasonal adjustment uses all available unadjusted 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. Year-to-date seasonally adjusted sales estimates are not tabulated. Adjustment factors and explanatory material can be found on the Internet at http://www.census.gov/retai
(3) Advance estimates are based on early reports obtained from a small sample of firms selected from the larger Monthly Retail Trade Survey (MRTS) sample. All other estimates are from the MRTS sample.
(4) GAFO represents firms which specialize in department store types of merchandise and is comprised of furniture \& home furnishings (442), electronics \& appliances (443), clothing \& accessories (448), sporting goods, hobby, book, and music (451), general merchandise (452), office supply, stationery, and gift stores (4532),
(5) Estimates include data for leased departments operated within department stores. Data for this line are not included in broader kind-of-business totals.

Note: Table 3 provides estimated measures of sampling variability. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at http://www.census.gov/retail

Table 2. Estimated Change in Monthly Sales for Retail and Food Services, by Kind of Business
(Estimates are shown as percents and are based on data from the Advance Monthly Retail Trade Survey, Monthly Retail Trade Survey, and administrative records.)

| NAICS code | Kind of Business | Percent Change ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Oct. 2016 Advance from -- |  | Sep. 2016 Preliminary from -- |  | Aug. 2016 through <br> Oct. 2016 from -- |  |
|  |  | Sep. 2016 <br> (p) | Oct. 2015 <br> (r) | Aug. 2016 <br> (r) | Sep. 2015 <br> (r) | May 2016 through Jul. 2016 | Aug. 2015 through Oct. 2015 |
|  | Retail \& food services, total $\qquad$ Total (excl. motor vehicle \& parts) Retail $\qquad$ | $\begin{aligned} & 0.8 \\ & 0.8 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 4.3 \\ & 4.0 \\ & 4.3 \end{aligned}$ | 1.0 0.7 1.0 | 3.2 3.1 2.9 | $\begin{aligned} & 1.2 \\ & 0.7 \\ & 1.2 \end{aligned}$ | $\begin{aligned} & 3.3 \\ & 3.1 \\ & 3.0 \end{aligned}$ |
| 441 <br> 4411, 4412 | Motor vehicle \& parts dealers $\qquad$ Auto \& other motor veh. dealers | 1.1 1.1 | 5.4 5.8 | 1.9 2.0 | 3.8 4.1 | 3.1 3.4 | 4.0 4.3 |
| 4411,4412 | Furniture \& home furn. stores ....... | 1.1 -0.9 | 5.8 1.7 | 2.0 | 4.1 | 3.4 0.3 | 2.6 |
| 443 | Electronics \& appliance stores ...... | 0.2 | -4.0 | -1.9 | -5.6 | -1.5 | -4.3 |
| 444 | Building material \& garden eq. \& supplies dealers. | 1.1 | 6.5 | 1.8 | 6.2 | 2.0 | 5.4 |
| 445 | Food \& beverage stores. | 0.9 | 3.7 | 0.6 | 2.4 | 0.9 | 2.6 |
| 4451 | Grocery stores ...................... | 0.7 | 3.4 | 0.6 | 2.3 | 0.8 | 2.5 |
| 446 | Health \& personal care stores ....... | 0.8 | 8.3 | 0.1 | 6.6 | 1.7 | 8.0 |
| 447 | Gasoline stations ..................... | 2.2 | 0.8 | 3.0 | -2.8 | 0.6 | -4.1 |
| 448 | Clothing \& clothing accessories stores $\qquad$ | 0.6 | 2.3 | 0.2 | 0.9 | 0.8 | 1.1 |
| 451 | Sporting goods, hobby, book \& music stores. $\qquad$ | 1.3 | 1.7 | 1.2 | -0.4 | -2.4 | 0.3 |
| 452 | General merchandise stores.......... | 0.4 | -2.3 | -0.9 | -3.2 | -1.4 | -2.5 |
| 4521 | Department stores (ex. L.D.)........ | -0.7 | -7.3 | -0.8 | -6.7 | -2.5 | -6.7 |
| 453 | Miscellaneous store retailers ......... | 2.4 | 9.5 | 2.0 | 7.3 | 1.7 | 5.7 |
| 454 | Nonstore retailers ....................... | 1.5 | 12.9 | 0.9 | 11.9 | 2.1 | 12.3 |
| 722 | Food services \& drinking places .... | -0.7 | 4.3 | 0.7 | 5.9 | 0.8 | 5.2 |

(p) Preliminary estimate (r) Revised estimate
(1) Estimates shown in this table are derived from adjusted estimates provided in Table 1 of this report.

Note: Table 3 provides estimated measures of sampling variability. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at http://www.census.gov/retail.

Source: U.S. Census Bureau

## Survey Description

The U.S. Census Bureau conducts the Advance Monthly Retail Trade and Food Services Survey (MARTS) to provide an early estimate of monthly sales by kind of business for retail and food service firms located in the United States. Each month, questionnaires are mailed to a probability sample of approximately 4,700 employer firms selected from the larger Monthly Retail Trade Survey (MRTS). Advance sales estimates are computed using a link relative estimator. The change in sales from the previous month is estimated using only units that have reported data for both the current and previous month. There is no imputation
or adjustment for nonrespondents in MARTS. The total sales estimate is derived by multiplying this ratio by the preliminary sales estimate for the previous month (derived from the larger MRTS sample). Detailed industry estimates are summed to derive total estimates at broad industry levels. The monthly estimates are adjusted using annual survey estimates and for seasonal variation and holiday and trading-day differences. Additional information on MARTS and MRTS can be found on the Census Bureau website at: http://www.census.gov/retail.

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## Reliability of Estimates

Because the estimates presented in this report 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 (CV), as given in Table 3 of this report, are estimated measures of sampling variation.

The margin of sampling error, as used on page 1 , gives a range about the estimate which is a 90 percent confidence interval. If, for example, the percent 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 shown in the text are statistically significant unless otherwise noted. For a monthly total, the median estimated coefficient of variation is given. The resulting confidence interval is the estimated value $\pm 1.753 \times \mathrm{CV} x$ (the estimated monthly total). The Census Bureau recommends that individuals using estimates in this report incorporate this information into their analyses, as sampling error could affect the conclusions drawn from the estimates.

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 retail 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.

Table 3. Estimated Measures of Sampling Variability and Revision to Advance Estimates Oct. 2016
(Estimates are shown as percents and are based on data from the Advance Monthly Retail Trade Survey and Monthly Retail Trade Survey)

| NAICS Code | Kind of Business | Median CV ${ }^{(1)}$ for Current Mo. <br> (\%) | Median standard error ${ }^{(1)}$ for Percent change |  |  | Revision for month-to-month change ${ }^{(2)}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Previous Mo. to Current Mo. | Previous Otr. to Current Otr. | Current Mo. to same Mo. Last Yr. | Average revision | Median absolute revision |
|  | Retail \& food services, total $\qquad$ | 0.5 | 0.3 | 0.2 | 0.5 | 0.1 | 0.2 |
|  | Total (excl. motor vehicle \& parts) .. | 0.6 | 0.3 | 0.2 | 0.5 | 0.0 | 0.1 |
|  | Retail ................................. | 0.5 | 0.3 | 0.2 | 0.4 | 0.1 | 0.2 |
| 441 | Motor vehicle \& parts dealers ........ | 1.2 | 1.0 | 0.4 | 1.2 | 0.2 | 0.7 |
| 4411, 4412 | Auto \& other motor veh. dealers . | 1.3 | 1.0 | 0.4 | 1.3 | 0.2 | 0.8 |
| 442 | Furniture \& home furn. stores....... | 2.5 | 1.1 | 0.8 | 1.3 | 0.1 | 0.3 |
| 443 | Electronics \& appliance stores ..... | 3.1 | 0.6 | 0.6 | 2.1 | -0.2 | 0.3 |
| 444 | Building material \& garden eq. \&.... supplies dealers. | 2.1 | 1.0 | 0.7 | 1.2 | -0.1 | 0.5 |
| 445 | Food \& beverage stores............... | 1.4 | 0.2 | 0.2 | 0.5 | 0.0 | 0.2 |
| 4451 | Grocery stores ..................... | 1.5 | 0.2 | 0.2 | 0.5 | 0.0 | 0.2 |
| 446 | Health \& personal care stores ...... | 2.2 | 0.4 | 0.5 | 1.4 | 0.1 | 0.3 |
| 447 | Gasoline stations ..................... | 1.8 | 0.5 | 0.4 | 0.8 | 0.2 | 0.5 |
| 448 | Clothing \& clothing accessories stores $\qquad$ | 2.2 | 0.6 | 0.4 | 0.7 | 0.1 | 0.2 |
| 451 | Sporting goods, hobby, book \& music stores. | 2.2 | 0.9 | 0.8 | 1.2 | 0.0 | 0.2 |
| 452 | General merchandise stores......... | 0.2 | 0.0 | 0.0 | 0.1 | -0.2 | 0.2 |
| 4521 | Department stores (ex. L.D.)...... | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.2 |
| 453 | Miscellaneous store retailers ........ | 2.9 | 2.3 | 1.3 | 2.4 | 0.3 | 0.8 |
| 454 | Nonstore retailers ..................... | 1.5 | 0.5 | 0.4 | 0.9 | 0.1 | 0.4 |
| 722 | Food services \& drinking places .. | 2.3 | 1.0 | 0.7 | 1.8 | 0.1 | 0.3 |

(1) Estimated measures of sampling variability are based on estimates not adjusted for seasonal variation or holiday or trading day variation. Medians are based on estimates for the most recent 12 months.
(2) These columns provide measures of the difference between the advance-to-preliminary and preliminary-to-final estimates of month-to-month change for the same pair of months as measured by the Advance sample and MRTS sample. The average and median revisions are based on estimates for the most recent 12 months.

Note: Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at http://www.census.gov/retail

