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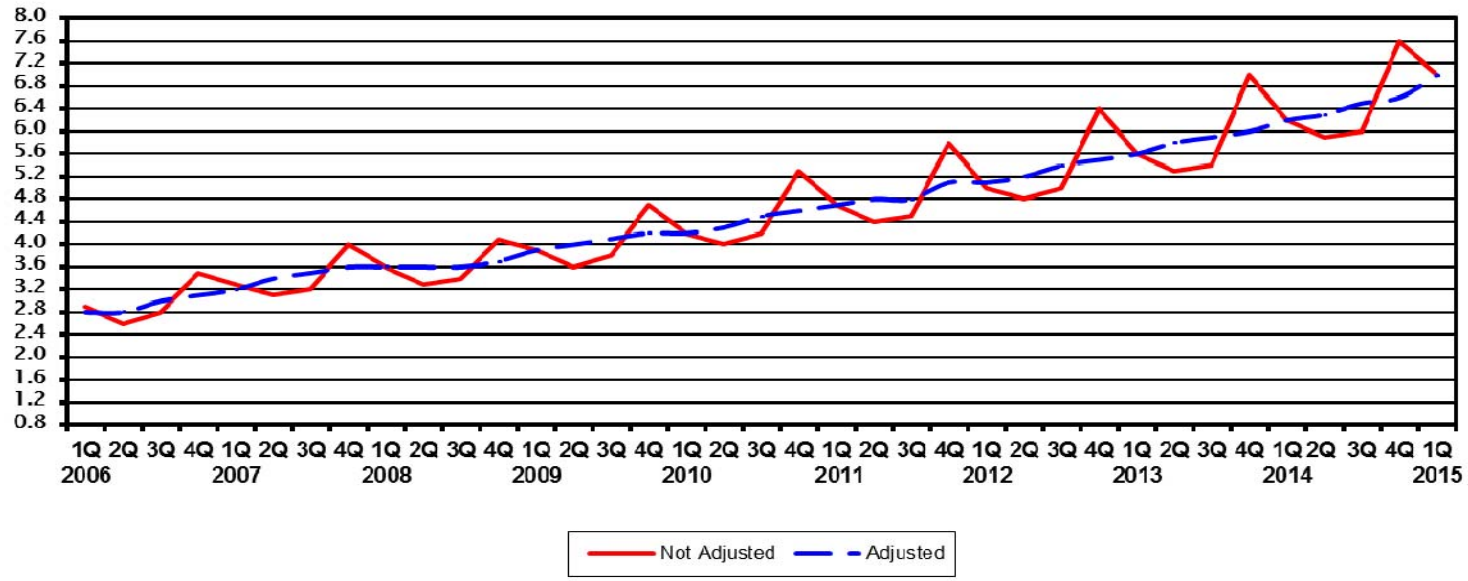
QUARTERLY RETAIL E-COMMERCE SALES
1ST QUARTER 2015

Notice of Revision: Quarterly retail e-commerce estimates were revised based on the results of the 2013 Annual Retail Trade Survey and the preliminary results from the 2012 Economic Census. Not adjusted estimates and corresponding adjusted estimates were revised for the fourth quarter 1999 through fourth quarter 2014.

The Census Bureau of the Department of Commerce announced today that the estimate of U.S. retail e-commerce sales for the first quarter of 2015, adjusted for seasonal variation, but not for price changes, was $80.3 billion, an increase of 3.5 percent (±0.5%) from the fourth quarter of 2014. Total retail sales for the first quarter of 2015 were estimated at $1,151.2 billion, a decrease of 1.5 percent (±0.2%) from the fourth quarter of 2014. The first quarter 2015 e-commerce estimate increased 14.5 percent (±1.9%) from the first quarter of 2014 while total retail sales increased 1.6 percent (±0.4%) in the same period. E-commerce sales in the first quarter of 2015 accounted for 7.0 percent of total sales.

On a not adjusted basis, the estimate of U.S. retail e-commerce sales for the first quarter of 2015 totaled $74.9 billion, a decrease of 19.9 percent (±0.5%) from the fourth quarter of 2014. The first quarter 2015 e-commerce estimate increased 14.3 percent (±1.9%) from the first quarter of 2014 while total retail sales increased 1.4 percent (±0.4%) in the same period. E-commerce sales in the first quarter of 2015 accounted for 7.0 percent of total sales.

Estimated Quarterly U.S. Retail E-commerce Sales as a Percent of Total Quarterly Retail Sales: 1st Quarter 2006 – 1st Quarter 2015



The Quarterly Retail E-Commerce sales estimate for the second quarter of 2015 is scheduled for release on August 17, 2015 at 10:00 A.M. EDT.

For information, including estimates from 4th quarter 1999 forward, visit the Census Bureau's Web site at <http://www.census.gov/retail>. For additional information about Census Bureau e-business measurement programs and plans visit <http://www.census.gov/estats>.

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

Table 1. Estimated Quarterly U.S. Retail Sales: Total and E-commerce[1]

(Estimates are based on data from the Monthly Retail Trade Survey and administrative records.)

Quarter	Retail Sales (millions of dollars)		E-commerce as a Percent of Total	Percent Change From Prior Quarter		Percent Change From Same Quarter A Year Ago	
	Total	E-commerce		Total	E-commerce	Total	E-commerce
Adjusted[2]							
1st quarter 2015(p)	1,151,196	80,259	7.0	-1.5	3.5	1.6	14.5
4th quarter 2014(r)	1,168,601	77,558	6.6	0.1	1.8	3.8	14.0
3rd quarter 2014	1,167,011	76,172	6.5	0.6	3.5	4.1	15.6
2nd quarter 2014	1,160,023	73,586	6.3	2.4	5.0	4.3	15.0
1st quarter 2014(r)	1,133,058	70,102	6.2	0.6	3.1	2.1	13.2
Not Adjusted							
1st quarter 2015(p)	1,076,643	74,914	7.0	-12.2	-19.9	1.4	14.3
4th quarter 2014(r)	1,225,969	93,530	7.6	4.9	32.9	3.9	13.9
3rd quarter 2014	1,168,187	70,351	6.0	-0.7	2.2	4.2	15.7
2nd quarter 2014	1,176,780	68,858	5.9	10.9	5.1	4.6	15.1
1st quarter 2014	1,061,353	65,517	6.2	-10.1	-20.2	1.7	13.1

(p) Preliminary estimate. (r) Revised estimate.

[1] E-commerce sales are sales of goods and services where the buyer places an order, or the price and terms of the sale are negotiated over an Internet, mobile device (M-commerce), extranet, Electronic Data Interchange (EDI) network, electronic mail, or other comparable online system. Payment may or may not be made online.

[2] Estimates are adjusted for seasonal variation, but not for price changes. Total sales estimates are also adjusted for trading-day differences and moving holidays.

Note: Table 2 provides estimated measures of sampling variability. For information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions, see http://www.census.gov/retail/mrts/how_surveys_are_collected.html.

Table 2. Estimated Measures of Sampling Variability for Quarterly U.S. Retail Sales Estimates: Total and E-commerce

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

Quarter	Coefficient of Variation (CV)		Standard Error[1] (SE) for E-commerce as a Percent of Total	SE for Percent Change From Prior Quarter		SE for Percent Change From Same Quarter A Year Ago	
	Total	E-commerce		Total	E-commerce	Total	E-commerce
1st quarter 2015(p)	0.4	1.5	0.1	0.1	0.3	0.2	1.1
4th quarter 2014(r)	0.4	1.3	0.1	0.1	0.7	0.3	1.2
3rd quarter 2014	0.4	1.7	0.1	0.1	0.4	0.3	1.8
2nd quarter 2014	0.4	1.6	0.1	0.2	0.7	0.3	1.6
1st quarter 2014	0.4	1.3	0.1	0.2	0.4	0.2	1.3

(p) Preliminary estimate. (r) Revised estimate. (Z) Estimate is less than 0.05%.

[1]Standard errors may be larger than those previously published because the estimated totals used to produce the percent changes are derived from different samples.

Note: Estimated measures of sampling variability are based on data not adjusted for seasonal variation, trading-day differences, or moving holidays, and are used to make confidence statements about both adjusted and not adjusted estimates. For information on confidentiality protection,sampling error, nonsampling error, sample design, and definitions, see http://www.census.gov/retail/mrts/how_surveys_are_collected.html.

Table 3. Estimated Quarterly U.S. Retail Sales (Adjusted[1]): Total and E-commerce[2]

(Estimates are based on data from the Monthly Retail Trade Survey and administrative records.)

Quarter	Retail Sales (millions of dollars)		E-commerce as a Percent of Total	Percent Change From Prior Quarter		Percent Change From Same Quarter A Year Ago	
	Total	E-commerce		Total	E-commerce	Total	E-commerce
1st quarter 2015(p)	1,151,196	80,259	7.0	-1.5	3.5	1.6	14.5
4th quarter 2014(r)	1,168,601	77,558	6.6	0.1	1.8	3.8	14.0
3rd quarter 2014	1,167,011	76,172	6.5	0.6	3.5	4.1	15.6
2nd quarter 2014	1,160,023	73,586	6.3	2.4	5.0	4.3	15.0
1st quarter 2014(r)	1,133,058	70,102	6.2	0.6	3.1	2.1	13.2
4th quarter 2013	1,126,312	68,026	6.0	0.5	3.2	3.2	12.6
3rd quarter 2013	1,120,658	65,906	5.9	0.8	3.0	4.2	14.1
2nd quarter 2013	1,112,179	64,014	5.8	0.2	3.4	4.4	14.9
1st quarter 2013	1,109,824	61,911	5.6	1.7	2.5	3.8	13.3
4th quarter 2012	1,091,076	60,403	5.5	1.4	4.5	4.1	13.8
3rd quarter 2012	1,075,657	57,776	5.4	1.0	3.7	4.4	15.8
2nd quarter 2012	1,065,194	55,730	5.2	-0.4	2.0	4.3	14.6
1st quarter 2012	1,069,065	54,643	5.1	2.0	2.9	6.3	16.2
4th quarter 2011	1,048,068	53,089	5.1	1.8	6.4	6.7	17.1
3rd quarter 2011	1,029,979	49,885	4.8	0.8	2.6	8.0	15.1
2nd quarter 2011	1,021,514	48,644	4.8	1.6	3.5	7.6	17.9
1st quarter 2011	1,005,638	47,005	4.7	2.4	3.7	7.6	19.3
4th quarter 2010	982,186	45,326	4.6	3.0	4.6	6.8	18.1
3rd quarter 2010	953,563	43,340	4.5	0.4	5.1	4.4	16.5
2nd quarter 2010	949,479	41,252	4.3	1.6	4.7	6.4	17.1
1st quarter 2010	934,189	39,417	4.2	1.6	2.7	5.0	15.0
4th quarter 2009	919,653	38,382	4.2	0.7	3.2	0.9	15.1
3rd quarter 2009	913,681	37,191	4.1	2.4	5.5	-8.5	3.1
2nd quarter 2009	892,150	35,241	4.0	0.3	2.8	-11.9	-3.5
1st quarter 2009	889,355	34,276	3.9	-2.4	2.8	-11.6	-5.4
4th quarter 2008	911,072	33,342	3.7	-8.8	-7.5	-10.2	-7.6
3rd quarter 2008	999,031	36,063	3.6	-1.3	-1.2	-0.4	3.9
2nd quarter 2008	1,012,316	36,515	3.6	0.6	0.8	1.8	8.9
1st quarter 2008	1,006,302	36,217	3.6	-0.8	0.4	2.1	13.6
4th quarter 2007	1,014,302	36,089	3.6	1.1	3.9	4.2	19.2
3rd quarter 2007	1,002,875	34,718	3.5	0.9	3.5	3.1	20.6
2nd quarter 2007	994,309	33,530	3.4	0.9	5.2	2.8	22.3
1st quarter 2007	985,634	31,868	3.2	1.2	5.2	2.2	20.2
4th quarter 2006	973,714	30,287	3.1	0.1	5.2	3.9	24.0
3rd quarter 2006	972,980	28,799	3.0	0.6	5.1	4.2	21.7
2nd quarter 2006	966,847	27,413	2.8	0.3	3.4	5.4	23.2
1st quarter 2006	964,110	26,516	2.8	2.8	8.6	7.4	27.2

NA Not available. (p) Preliminary. (r) Revised.

[1] Estimates are adjusted for seasonal variation, but not for price changes. Total sales estimates are also adjusted for trading-day differences and moving holidays.

[2] E-commerce sales are sales of goods and services where an order is placed by the buyer or price and terms of sale are negotiated over an Internet, extranet, Electronic Data Interchange (EDI) network, electronic mail, or other online system. Payment may or may not be made online.

Note: For information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions, see http://www.census.gov/retail/mrts/how_surveys_are_collected.html.

Table 4. Estimated Quarterly U.S. Retail Sales (Not Adjusted): Total and E-commerce[1]

(Estimates are based on data from the Monthly Retail Trade Survey and administrative records.)

Quarter	Retail Sales (millions of dollars)		E-commerce as a Percent of Total	Percent Change From Prior Quarter		Percent Change From Same Quarter A Year Ago	
	Total	E-commerce		Total	E-commerce	Total	E-commerce
1st quarter 2015(p)	1,076,643	74,914	7.0	-12.2	-19.9	1.4	14.3
4th quarter 2014(r)	1,225,969	93,530	7.6	4.9	32.9	3.9	13.9
3rd quarter 2014	1,168,187	70,351	6.0	-0.7	2.2	4.2	15.7
2nd quarter 2014	1,176,780	68,858	5.9	10.9	5.1	4.6	15.1
1st quarter 2014	1,061,353	65,517	6.2	-10.1	-20.2	1.7	13.1
4th quarter 2013	1,180,144	82,103	7.0	5.3	35.1	3.3	12.5
3rd quarter 2013	1,120,648	60,788	5.4	-0.4	1.6	4.9	14.2
2nd quarter 2013	1,124,886	59,825	5.3	7.8	3.2	4.2	15.1
1st quarter 2013	1,043,344	57,953	5.6	-8.7	-20.6	2.7	13.0
4th quarter 2012	1,142,852	72,966	6.4	7.0	37.1	4.1	13.8
3rd quarter 2012	1,068,015	53,232	5.0	-1.0	2.4	3.9	15.7
2nd quarter 2012	1,079,149	51,975	4.8	6.2	1.4	4.2	14.6
1st quarter 2012	1,016,221	51,267	5.0	-7.4	-20.1	7.6	15.9
4th quarter 2011	1,097,884	64,138	5.8	6.8	39.4	6.5	17.9
3rd quarter 2011	1,027,953	45,997	4.5	-0.7	1.4	8.0	14.6
2nd quarter 2011	1,035,541	45,352	4.4	9.6	2.6	7.7	17.7
1st quarter 2011	944,612	44,217	4.7	-8.4	-18.7	7.8	19.2
4th quarter 2010	1,031,005	54,391	5.3	8.3	35.5	6.6	18.6
3rd quarter 2010	951,560	40,143	4.2	-1.1	4.2	4.3	16.2
2nd quarter 2010	961,670	38,542	4.0	9.7	3.9	6.1	16.8
1st quarter 2010	876,628	37,108	4.2	-9.4	-19.1	5.7	14.7
4th quarter 2009	967,383	45,872	4.7	6.1	32.8	1.0	15.7
3rd quarter 2009	911,970	34,554	3.8	0.7	4.7	-8.8	2.9
2nd quarter 2009	906,027	32,991	3.6	9.3	2.0	-11.9	-4.0
1st quarter 2009	829,072	32,353	3.9	-13.4	-18.4	-12.8	-5.9
4th quarter 2008	957,622	39,653	4.1	-4.2	18.1	-9.7	-6.1
3rd quarter 2008	1,000,110	33,582	3.4	-2.7	-2.3	0.0	3.5
2nd quarter 2008	1,028,224	34,367	3.3	8.2	0.0	1.5	8.5
1st quarter 2008	950,352	34,367	3.6	-10.4	-18.7	3.2	12.7
4th quarter 2007	1,060,394	42,246	4.0	6.0	30.2	4.3	20.0
3rd quarter 2007	1,000,151	32,444	3.2	-1.3	2.4	2.5	20.4
2nd quarter 2007	1,013,371	31,682	3.1	10.0	3.9	2.9	22.4
1st quarter 2007	921,266	30,484	3.3	-9.3	-13.4	3.0	19.4
4th quarter 2006	1,016,253	35,210	3.5	4.1	30.6	3.2	25.0
3rd quarter 2006	975,835	26,954	2.8	-0.9	4.1	4.0	21.3
2nd quarter 2006	984,763	25,883	2.6	10.1	1.3	5.8	23.3
1st quarter 2006	894,722	25,539	2.9	-9.1	-9.3	7.1	26.6

NA Not available. (p) Preliminary. (r) Revised.

[1] E-commerce sales are sales of goods and services where an order is placed by the buyer or price and terms of sale are negotiated over an Internet, extranet, Electronic Data Interchange (EDI) network, electronic mail, or other online system. Payment may or may not be made online.

Note: For information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions, see http://www.census.gov/retail/mrts/how_surveys_are_collected.html.

Survey Description

Retail e-commerce sales are estimated from the same sample used for the Monthly Retail Trade Survey (MRTS) to estimate preliminary and final U.S. retail sales. Advance U.S. retail sales are estimated from a subsample of the MRTS sample that is not of adequate size to measure changes in retail e-commerce sales.

A stratified simple random sampling method is used to select approximately 12,500 retail firms whose sales are then weighted and benchmarked to represent the complete universe of over two million retail firms. The MRTS sample is probability based and represents all employer firms engaged in retail activities as defined by the North American Industry Classification System (NAICS). Coverage includes all retailers whether or not they are engaged in e-commerce. Online travel services, financial brokers and dealers, and ticket sales agencies are **not** classified as retail and are **not** included in either the total retail or retail e-commerce sales estimates. Nonemployers are represented in the estimates through benchmarking to prior annual survey estimates that include nonemployer sales based on administrative records. E-commerce sales are included in the total monthly sales estimates.

The MRTS sample is updated on an ongoing basis to account for new retail employer businesses (including those selling via the Internet), business deaths, and other changes to the retail business universe. Firms are asked each month to report e-commerce sales separately. For each month of the quarter, data for nonresponding sampling units are imputed from responding sampling units falling within the same kind of business and sales size category. Responding firms account for approximately 72 percent of the e-commerce sales estimate and about 70 percent of the estimate of U.S. retail sales for any quarter.

For each month of the quarter, estimates are obtained by summing weighted sales (either reported or imputed). The monthly estimates are benchmarked to prior annual survey estimates. Estimates for the quarter are obtained by summing the monthly benchmarked estimates. The estimate for the most recent quarter is a preliminary estimate. Therefore, the estimate is subject to revision. Data users who create their own estimates using data from this report should cite the Census Bureau as the source of the input data only.

Adjusted Estimates

This report publishes estimates that have been adjusted for seasonal variation and holiday and trading-day differences, but not for price changes. We used quarterly e-commerce sales estimates for 4th quarter 1999 to the current quarter as input to the X-13ARIMA-SEATS program to derive the adjusted estimates. For sales, we derived quarterly adjusted estimates by summing adjusted monthly sales estimates for each respective quarter. Seasonal adjustment of estimates is an approximation based on current and past experiences.

The X-13ARIMA-SEATS software improves upon the X-12 ARIMA seasonal adjustment software by providing enhanced diagnostics as well as incorporating an enhanced version of the Bank of Spain's SEATS (Signal Extraction in ARIMA Time Series) software, which uses an ARIMA model-based procedure instead of the X-11 filter-based approach to estimate seasonal factors. The X-13ARIMA-SEATS and X-12 ARIMA software produce identical results when using X-13ARIMA-SEATS with the X-11 filter-based adjustments. The X-13ARIMA-SEATS software and additional information on the X-13ARIMA-SEATS program may be found at http://www.census.gov/srd/www/x13as/.

Note that the retail estimates continue to be adjusted using the X-11 filter-based adjustment procedure.

Reliability of Estimates

Because the estimates 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 population conducted under the same survey conditions. This error occurs because only a subset of the entire population is measured in a sample survey. Standard errors and coefficients of variation, as given in Table 2 of this report, are estimated measures of sampling variation.

The margin of error, as used on page 1, gives a range about the estimate which is a 90 percent confidence interval. If, for example, the estimated percent change is -11.4% and its estimated standard error is 1.2%, then the margin of error is ±1.753 x 1.2% or 2.1%, and the 90 percent confidence interval is -13.5% to -9.3%. Confidence intervals are computed based on the particular sample selected and canvassed. If one repeats the process of drawing all possible samples and forming all corresponding confidence intervals, approximately 90 percent of these individual confidence intervals would contain the estimate computed from a complete enumeration of all units on the sampling frame. If the confidence 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.

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 with e-commerce sales, mistakes in the recording and coding of data, and other errors of collection, response, coverage, or processing. Although not directly measured, precautionary steps are taken to minimize the effects of nonsampling error.