

U.S. Census Bureau News

U.S. Department of Commerce • Washington, D.C. 20233

FOR IMMEDIATE RELEASE
FRIDAY, FEBRUARY 17, 2006, AT 10:00 A.M. EST

Scott Scheleur (Survey Processing): (301) 763-2713
Carol King (Survey Methodology): (301) 763-2675
Mike Shimberg (Seasonal Adjustment): (301) 763-2480

CB06-19

QUARTERLY RETAIL E-COMMERCE SALES 4th QUARTER 2005

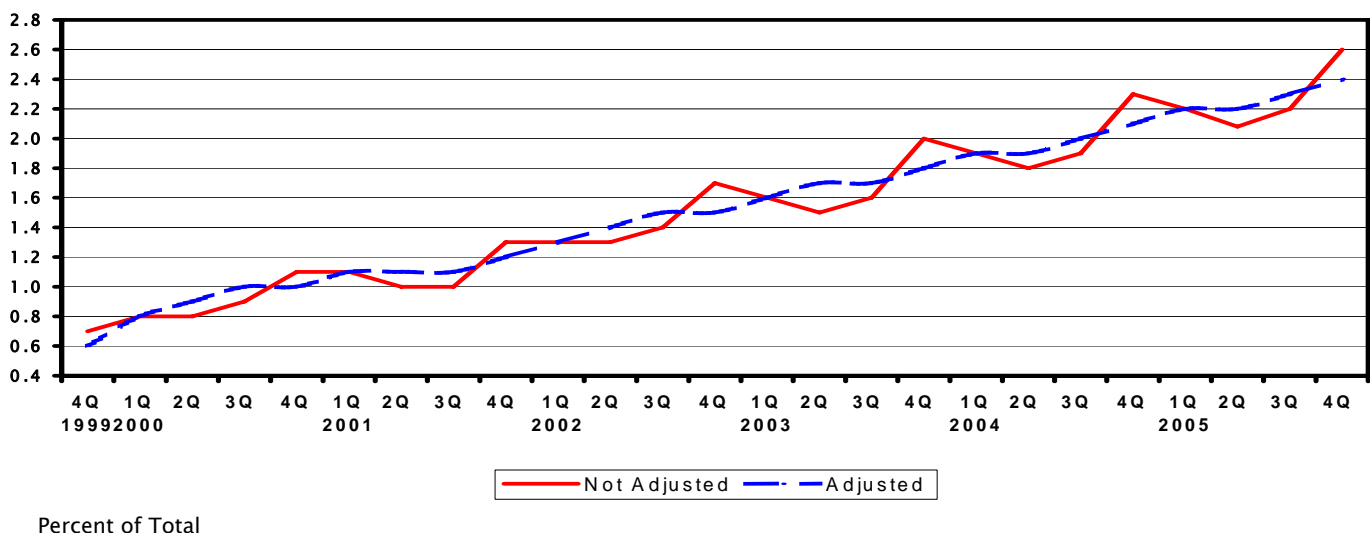
Intention to Revise: Quarterly retail e-commerce estimates will be revised on the results of the 2004 Annual Retail Trade Survey. Unadjusted and adjusted estimates will be revised for fourth quarter 1999 through fourth quarter 2005. Revised data are scheduled for release on May 18, 2006.

The Census Bureau of the Department of Commerce announced today that the estimate of U.S. retail e-commerce sales for the fourth quarter of 2005, adjusted for seasonal variation and holiday and trading-day differences, but not for price changes, was \$22.9 billion, an increase of 3.3 percent ($\pm 2.1\%$) from the third quarter of 2005. Total retail sales for the fourth quarter of 2005 were estimated at \$960.3 billion, an increase of 0.3 percent ($\pm 0.3\%$)* from the third quarter of 2005. The fourth quarter 2005 e-commerce estimate increased 23.0 percent ($\pm 3.8\%$) from the fourth quarter of 2004 while total retail sales increased 6.0 percent ($\pm 0.3\%$) in the same period. E-commerce sales in the fourth quarter accounted for 2.4 percent of total sales.

On a not adjusted basis, the estimate of U.S. retail e-commerce sales for the fourth quarter of 2005 totaled \$26.5 billion, an increase of 27.5 percent ($\pm 2.1\%$) from the third quarter of 2005. The fourth quarter 2005 e-commerce estimate increased 23.4 percent ($\pm 3.8\%$) from the fourth quarter of 2004 while total retail sales increased 6.0 percent ($\pm 0.3\%$) in the same period. E-commerce sales in the fourth quarter of 2005 accounted for 2.6 percent of total sales.

Total e-commerce sales for 2005 were estimated at \$86.3 billion, an increase of 24.6 percent ($\pm 3.3\%$) from 2004. Total retail sales in 2005 increased 7.2 percent ($\pm 0.3\%$) from 2004. E-commerce sales in 2005 accounted for 2.3 percent of total sales. E-commerce sales in 2004 accounted for 2.0 percent of total sales.

Estimated Quarterly U.S. Retail E-commerce Sales as a Percent of Total Quarterly Retail Sales: 4th Quarter 1999 – 4th Quarter 2005



The Quarterly Retail E-Commerce sales estimate for the first quarter of 2006 is scheduled for release on May 18, 2006 at 10:00 A.M. EDT. Annual e-statistics for the year 2004 covering manufacturing, wholesale, retail, and selected service industries are scheduled for release in April 2006. For more information, visit: www.census.gov/estats.

For information, visit the Census Bureau's Web site at <<http://www.census.gov/mrts/www/ecommm.html>>. 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-commerce¹
(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 ¹		Total	E-commerce	Total	E-commerce
Adjusted							
4th quarter 2005(p)	960,291	22,942	2.4	0.3	3.3	6.0	23.0
3rd quarter 2005(r)	957,804	22,210	2.3	1.8	5.2	8.5	26.0
2nd quarter 2005	941,282	21,112	2.2	2.8	7.0	8.5	25.7
1st quarter 2005	915,972	19,729	2.2	1.1	5.8	7.2	23.3
4th quarter 2004(r)	905,703	18,655	2.1	2.6	5.9	8.5	24.3
Not Adjusted							
4th quarter 2005(p)	1,009,498	26,549	2.6	4.9	27.5	6.0	23.4
3rd quarter 2005(r)	962,513	20,815	2.2	1.1	5.1	8.6	26.4
2nd quarter 2005	952,392	19,812	2.1	11.8	3.6	8.1	25.8
1st quarter 2005	852,249	19,124	2.2	-10.5	-11.1	6.3	23.4
4th quarter 2004	952,572	21,519	2.3	7.5	30.6	8.3	24.0

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

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.

² Estimates are adjusted for seasonal variation and holiday and trading-day differences, but not for price changes.

Note: Table 2 provides estimated measures of sampling variability. For information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions, see www.census.gov/mrts/www/nrely.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 (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
4th quarter 2005(p)	0.5	3.6	0.1	0.2	1.3	0.2	2.3
3rd quarter 2005(r)	0.5	4.0	0.1	0.2	1.0	0.3	2.7
2nd quarter 2005	0.5	3.7	0.1	0.2	0.5	0.3	2.2
1st quarter 2005	0.5	3.6	0.1	0.1	1.3	0.3	2.0
4th quarter 2004	0.5	3.2	0.1	0.2	1.9	0.3	1.6

Note: Estimated measures of sampling variability are based on data not adjusted for seasonal variation or holiday or trading-day differences, 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 www.census.gov/mrts/www/nrely.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 11,000 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 85 percent of the e-commerce sales estimate and about 80 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-12 ARIMA 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. Additional information on the X-12 ARIMA program may be found at <http://www.census.gov/srd/www/x12a/>.

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 $\pm 1.645 \times 1.2\%$ or 2.0%, and the 90 percent confidence interval is -13.4% to -9.4%. 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.

The U.S. Census Bureau, pre-eminent collector and disseminator of timely, relevant, and quality data about the people and the economy of the United States, conducts a population and housing census every 10 years, an economic census every five years, and more than 100 demographic and economic surveys every year, all of them evolving from the first census in 1790.