

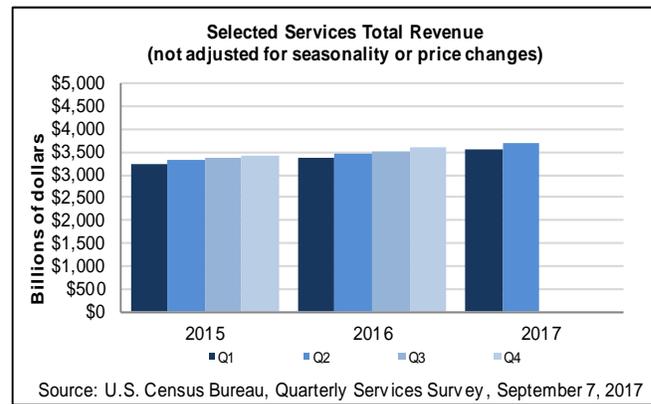
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## QUARTERLY SELECTED SERVICES ESTIMATES, SECOND QUARTER 2017

Release Number: CB17-151

**September 7, 2017** — The U.S. Census Bureau announced the following selected services estimates for the second calendar quarter of 2017:

 <b>SELECTED SERVICES TOTAL REVENUE</b>		
<b>2Q 2017</b>	<b>\$3,684.6 billion</b>	<b>+3.2 %</b>
<b>1Q 2017</b>	<b>\$3,570.4 billion</b>	<b>-1.3 %</b>
<b>Next release: November 17, 2017</b>		
Data are not adjusted for seasonality or price changes. Source: U.S. Census Bureau, Quarterly Services Survey, September 7, 2017		



### Selected Services Total

U.S. selected services total revenue for the second quarter of 2017, not adjusted for seasonal variation or price changes, was \$3,684.6 billion, an increase of 3.2 percent ( $\pm 0.6$  percent) from the first quarter of 2017 and up 6.2 percent ( $\pm 0.6$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was not revised from the advance estimate.

### Information

U.S. information sector revenue for the second quarter of 2017, adjusted for seasonal variation but not for price changes, was \$384.8 billion, an increase of 1.4 percent ( $\pm 0.6$  percent) from the first quarter of 2017 and up 5.7 percent ( $\pm 1.1$  percent) from the second quarter of 2016. The fourth quarter of 2016 to first quarter of 2017 percentage change was revised from 1.5 percent ( $\pm 0.2$  percent) to 1.6 percent ( $\pm 0.2$  percent).

### Professional, scientific, and technical services

U.S. professional, scientific, and technical services revenue for the second quarter of 2017, adjusted for seasonal variation but not for price changes, was \$445.6 billion, an increase of 0.5 percent ( $\pm 1.3$  percent)\* from the first quarter of 2017 and up 3.3 percent ( $\pm 1.9$  percent) from the second quarter of 2016. The fourth quarter of 2016 to first quarter of 2017 percentage change was revised from 0.8 percent ( $\pm 1.3$  percent)\* to 0.7 percent ( $\pm 1.3$  percent)\*.

### Administrative and support and waste management and remediation services

U.S. administrative and support and waste management and remediation services revenue for the second quarter of 2017, adjusted for seasonal variation but not for price changes, was \$234.5 billion, an increase of 1.5 percent ( $\pm 0.9$  percent) from the first quarter of 2017 and up 8.9 percent ( $\pm 2.3$  percent) from the second

#### Data Inquiries

Economic Indicators Division, Service Indicator Branch  
301-763-2960  
[sssd.qss@census.gov](mailto:sssd.qss@census.gov)

#### Media Inquiries

Public Information Office  
301-763-3030  
[pio@census.gov](mailto:pio@census.gov)



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quarter of 2016. The fourth quarter of 2016 to first quarter of 2017 percentage change was revised from 2.9 percent ( $\pm 1.7$  percent) to 2.9 percent ( $\pm 1.5$  percent).

### **Utilities**

U.S. utilities revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$136.6 billion, a decrease of 7.8 percent ( $\pm 1.3$  percent) from the first quarter of 2017 and up 6.3 percent ( $\pm 0.8$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of -7.7 percent ( $\pm 1.5$  percent).

### **Transportation and warehousing**

U.S. transportation and warehousing revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$231.7 billion, an increase of 7.9 percent ( $\pm 0.6$  percent) from the first quarter of 2017 and up 4.9 percent ( $\pm 1.7$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 8.2 percent ( $\pm 0.8$  percent).

### **Finance and insurance**

U.S. finance and insurance revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$1,134.2 billion, an increase of 2.2 percent ( $\pm 1.7$  percent) from the first quarter of 2017 and up 6.8 percent ( $\pm 1.5$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was not revised from the advance estimate.

### **Real estate and rental and leasing**

U.S. real estate and rental and leasing revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$176.2 billion, an increase of 8.8 percent ( $\pm 1.5$  percent) from the first quarter of 2017 and up 8.1 percent ( $\pm 1.7$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 9.2 percent ( $\pm 1.5$  percent).

### **Educational services**

U.S. educational services revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$18.6 billion, an increase of 11.0 percent ( $\pm 3.0$  percent) from the first quarter of 2017 and up 5.3 percent ( $\pm 1.9$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 10.9 percent ( $\pm 3.0$  percent).

### **Health care and social assistance**

U.S. health care and social assistance revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$633.7 billion, an increase of 1.0 percent ( $\pm 0.9$  percent) from the first quarter of 2017 and up 3.4 percent ( $\pm 1.3$  percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was not revised from the advance estimate.

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## **Arts, entertainment, and recreation**

U.S. arts, entertainment, and recreation revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$68.4 billion, an increase of 13.6 percent ( $\pm$  3.4 percent) from the first quarter of 2017 and up 9.6 percent ( $\pm$  4.0 percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 13.5 percent ( $\pm$  3.6 percent).

## **Accommodation**

U.S. accommodation revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$65.3 billion, an increase of 10.3 percent ( $\pm$  1.5 percent) from the first quarter of 2017 and up 4.5 percent ( $\pm$  3.0 percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 10.3 percent ( $\pm$  1.7 percent).

## **Other services (except public administration)**

U.S. other services (except public administration) revenue for the second quarter of 2017, not adjusted for seasonal variation, or price changes, was \$152.3 billion, an increase of 9.4 percent ( $\pm$  3.0 percent) from the first quarter of 2017 and up 18.4 percent ( $\pm$  3.0 percent) from the second quarter of 2016. The first quarter of 2017 to second quarter of 2017 percentage change was revised from the advance estimate of 8.9 percent ( $\pm$  3.0 percent).

## **Upcoming Sample Revision**

Effective with the November 2017 release for the third quarter of 2017, quarterly services estimates will be based on a new sample and published on a 2012 North American Industry Classification System (NAICS) basis. For more information on the new sample or the impact of adopting the 2012 NAICS definitions, visit [www.census.gov/services/qss/faqs](http://www.census.gov/services/qss/faqs).

## **Upcoming Benchmarking**

Effective with the February 2018 release for the fourth quarter of 2017, quarterly services estimates will be revised based on the results of the 2016 Service Annual Survey.

## **Release Schedule**

The third quarter 2017 Advance Quarterly Services Report is scheduled for release on November 17, 2017. View the full schedule in the Economic Briefing Room: [www.census.gov/economic-indicators](http://www.census.gov/economic-indicators).

Additional industry detail and estimates of revenue, expenses, inpatient days, and discharges can be found at [www.census.gov/services](http://www.census.gov/services).

## **America's Economy Mobile App**

The America's Economy app provides real-time updates for 19 key economic indicators released from the Census Bureau, Bureau of Labor Statistics, and Bureau of Economic Analysis.

[www.census.gov/mobile/economy](http://www.census.gov/mobile/economy)

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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/](http://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.

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**Table 1a. Selected Services - Estimated Quarterly Revenue for Employer Firms, Seasonally Adjusted<sup>1</sup>**

[Estimates are adjusted for seasonal variation but not for price change and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>2</sup>	Kind of business	Total revenue (millions of dollars)						Percent change					
		2Q 2017 (p)	1Q 2017 (r)	4Q 2016 (r)	3Q 2016 (r)	2Q 2016 (r)	1Q 2016 (r)	2Q 2017 from 1Q 2017 (p)	1Q 2017 from 4Q 2016 (r)	4Q 2016 from 3Q 2016 (r)	3Q 2016 from 2Q 2016 (r)	2Q 2017 from 2Q 2016 (p)	1Q 2017 from 1Q 2016 (r)
<b>51</b>	<b>Information .....</b>	<b>384,823</b>	<b>379,521</b>	<b>373,490</b>	<b>371,094</b>	<b>363,919</b>	<b>364,099</b>	<b>1.4</b>	<b>1.6</b>	<b>0.6</b>	<b>2.0</b>	<b>5.7</b>	<b>4.2</b>
5112	Software publishers.....	54,704	53,430	51,738	50,867	49,852	50,877	2.4	3.3	1.7	2.0	9.7	5.0
512	Motion picture and sound recording industries .....	26,734	27,591	25,175	26,117	25,013	27,622	-3.1	9.6	-3.6	4.4	6.9	-0.1
<b>54</b>	<b>Professional, scientific, and technical services<sup>3</sup> .....</b>	<b>445,580</b>	<b>443,460</b>	<b>440,552</b>	<b>435,525</b>	<b>431,333</b>	<b>428,465</b>	<b>0.5</b>	<b>0.7</b>	<b>1.2</b>	<b>1.0</b>	<b>3.3</b>	<b>3.5</b>
5411	Legal services <sup>3</sup> .....	74,429	74,072	74,765	71,100	71,913	72,030	0.5	-0.9	5.2	-1.1	3.5	2.8
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	46,132	45,449	44,068	43,264	42,427	42,002	1.5	3.1	1.9	2.0	8.7	8.2
<b>56</b>	<b>Administrative and support and waste management and remediation services<sup>4</sup> .....</b>	<b>234,543</b>	<b>231,146</b>	<b>224,600</b>	<b>220,130</b>	<b>215,338</b>	<b>209,026</b>	<b>1.5</b>	<b>2.9</b>	<b>2.0</b>	<b>2.2</b>	<b>8.9</b>	<b>10.6</b>
5613	Employment services .....	95,643	94,981	90,423	87,939	85,935	81,901	0.7	5.0	2.8	2.3	11.3	16.0
5615	Travel arrangement and reservation services .....	11,322	11,212	11,182	11,290	10,537	10,585	1.0	0.3	-1.0	7.1	7.4	5.9
561 pt	Other administrative and support services <sup>5</sup> .....	104,382	101,655	99,833	98,115	96,327	94,049	2.7	1.8	1.8	1.9	8.4	8.1
562	Waste management and remediation services .....	23,196	23,298	23,162	22,786	22,539	22,491	-0.4	0.6	1.7	1.1	2.9	3.6
<b>622</b>	<b>Hospitals.....</b>	<b>269,830</b>	<b>271,400</b>	<b>271,871</b>	<b>266,284</b>	<b>267,087</b>	<b>257,194</b>	<b>-0.6</b>	<b>-0.2</b>	<b>2.1</b>	<b>-0.3</b>	<b>1.0</b>	<b>5.5</b>

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

(1) The seasonal factors are based on a short time series that may not have stable seasonal patterns. As more estimates are added to the time series, large revisions in seasonal factors and consequently historical estimates may be observed. Data users should exercise caution when drawing inferences based on the seasonally adjusted estimates. Unless otherwise specified, seasonally adjusted estimates are obtained using a direct seasonal adjustment at the published NAICS (North American Industry Classification System) level.

(2) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2007 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(3) Excludes NAICS 54112 (Offices of notaries).

(4) Seasonally adjusted estimates for NAICS 56 are obtained by summing the seasonally adjusted estimates for 5613, 5615, 561pt, and 562.

(5) Includes NAICS 5611 (Office administrative services), 5612 (Facilities support services), 5614 (Business support services), 5616 (Investigation and security services), 5617 (Services to buildings and dwellings), and 5619 (Other support services).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		2Q 2017 (p)	1Q 2017	4Q 2016	3Q 2016	2Q 2016	1Q 2016	2Q 2017 from 1Q 2017 (p)	1Q 2017 from 4Q 2016	2Q 2017 from 2Q 2016 (p)	1Q 2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)
	<b>Selected Services Total</b> <sup>2</sup> .....	<b>3,684,576</b>	<b>3,570,394</b>	<b>3,616,917</b>	<b>3,533,145</b>	<b>3,471,049</b>	<b>3,357,362</b>	<b>3.2</b>	<b>-1.3</b>	<b>6.2</b>	<b>6.3</b>	<b>7,254,970</b>	<b>6,828,411</b>	<b>6.2</b>
22	<b>Utilities</b> <sup>3</sup> .....	<b>136,579</b>	<b>148,140</b>	<b>139,537</b>	<b>154,305</b>	<b>128,480</b>	<b>144,235</b>	<b>-7.8</b>	<b>6.2</b>	<b>6.3</b>	<b>2.7</b>	<b>284,719</b>	<b>272,715</b>	<b>4.4</b>
2211	Electric power generation, transmission and distribution .....	112,487	110,367	110,085	134,135	107,902	109,440	1.9	0.3	4.2	0.8	222,854	217,342	2.5
2212	Natural gas distribution .....	20,414	34,470	25,876	16,335	17,189	31,638	-40.8	33.2	18.8	9.0	54,884	48,827	12.4
2213	Water, sewage and other systems .....	3,678	3,303	3,576	3,835	3,389	3,157	11.4	-7.6	8.5	4.6	6,981	6,546	6.6
48-49	<b>Transportation and warehousing</b> <sup>4</sup> .....	<b>231,662</b>	<b>214,748</b>	<b>223,406</b>	<b>225,927</b>	<b>220,901</b>	<b>207,733</b>	<b>7.9</b>	<b>-3.9</b>	<b>4.9</b>	<b>3.4</b>	<b>446,410</b>	<b>428,634</b>	<b>4.1</b>
481	Air transportation .....	51,562	45,302	48,007	52,066	50,884	46,166	13.8	-5.6	1.3	-1.9	96,864	97,050	-0.2
483	Water transportation .....	10,854	10,033	10,519	12,166	10,424	9,806	8.2	-4.6	4.1	2.3	20,887	20,230	3.2
4831	Deep sea, coastal, and Great Lakes water transportation.....	9,000	8,124	8,456	10,123	8,420	7,869	10.8	-3.9	6.9	3.2	17,124	16,289	5.1
4832	Inland water transportation.....	1,854	1,909	2,063	2,043	2,004	1,937	-2.9	-7.5	-7.5	-1.4	3,763	3,941	-4.5
484	Truck transportation .....	69,257	63,284	65,611	68,053	66,119	61,783	9.4	-3.5	4.7	2.4	132,541	127,902	3.6
4841	General freight trucking .....	42,237	39,545	41,224	42,106	41,887	39,856	6.8	-4.1	0.8	-0.8	81,782	81,743	2
48412	General freight trucking, long-distance .....	36,049	33,480	35,297	35,963	35,630	33,686	7.7	-5.1	1.2	-0.6	69,529	69,316	0.3
4842	Specialized freight trucking .....	27,020	23,739	24,387	25,947	24,232	21,927	13.8	-2.7	11.5	8.3	50,759	46,159	10.0
485	Transit and ground passenger transportation .....	9,499	8,931	9,178	7,706	9,022	8,421	6.4	-2.7	5.3	6.1	18,430	17,443	5.7
486	Pipeline transportation .....	10,794	11,418	11,480	10,790	10,732	10,829	-5.5	-0.5	0.6	5.4	22,212	21,561	3.0
487	Scenic and sightseeing transportation .....	1,103	566	759	1,288	1,014	634	94.9	-25.4	8.8	-10.7	1,669	1,648	1.3
488	Support activities for transportation .....	48,033	45,764	47,043	45,356	44,642	42,330	5.0	-2.7	7.6	8.1	93,797	86,972	7.8
492	Couriers and messengers .....	21,230	20,607	22,151	20,067	19,898	19,803	3.0	-7.0	6.7	4.1	41,837	39,701	5.4
493	Warehousing and storage .....	9,330	8,843	8,658	8,435	8,166	7,961	5.5	2.1	14.3	11.1	18,173	16,127	12.7
51	<b>Information</b> .....	<b>382,514</b>	<b>373,069</b>	<b>389,924</b>	<b>363,301</b>	<b>361,735</b>	<b>357,909</b>	<b>2.5</b>	<b>-4.3</b>	<b>5.7</b>	<b>4.2</b>	<b>755,583</b>	<b>719,644</b>	<b>5.0</b>
511	Publishing industries (except Internet) .....	77,376	72,875	79,811	71,572	73,220	70,972	6.2	-8.7	5.7	2.7	150,251	144,192	4.2
51111	Newspaper publishers .....	6,012	5,837	6,653	6,235	6,391	6,078	3.0	-12.3	-5.9	-4.0	11,849	12,469	-5.0
51112	Periodical publishers .....	6,885	6,296	7,185	6,806	7,093	6,341	9.4	-12.4	-2.9	-0.7	13,181	13,434	-1.9
5111 pt	Book, directory and mailing list, and other publishers <sup>5</sup> .....	9,994	8,381	9,579	11,072	10,083	8,744	19.2	-12.5	-0.9	-4.2	18,375	18,827	-2.4
5112	Software publishers .....	54,485	52,361	56,394	47,459	49,653	49,809	4.1	-7.2	9.7	5.1	106,846	99,462	7.4
512	Motion picture and sound recording industries .....	25,985	27,177	27,466	24,863	24,338	27,125	-4.4	-1.1	6.8	0.2	53,162	51,463	3.3
515	Broadcasting (except Internet) .....	40,286	39,626	43,006	38,872	38,482	37,721	1.7	-7.9	4.7	5.1	79,912	76,203	4.9
5151	Radio and television broadcasting .....	18,482	18,140	20,975	18,285	17,518	17,463	1.9	-13.5	5.5	3.9	36,622	34,981	4.7
5152	Cable and other subscription programming .....	21,804	21,486	22,031	20,587	20,964	20,258	1.5	-2.5	4.0	6.1	43,290	41,222	5.0
517	Telecommunications .....	153,486	151,691	157,207	153,287	152,341	151,514	1.2	-3.5	0.8	0.1	305,177	303,855	0.4
5171	Wired telecommunications carriers .....	79,785	79,168	80,145	78,824	79,019	78,621	0.8	-1.2	1.0	0.7	158,953	157,640	0.8
5172	Wireless telecommunications carriers (except satellite) .....	62,834	61,908	66,339	63,870	62,749	62,447	1.5	-6.7	0.1	-0.9	124,742	125,196	-0.4
517 pt	Other telecommunications <sup>6</sup> .....	10,867	10,615	10,723	10,593	10,573	10,446	2.4	-1.0	2.8	1.6	21,482	21,019	2.2
518	Data processing, hosting, and related services .....	39,313	37,239	37,681	35,922	35,281	34,212	5.6	-1.2	11.4	8.8	76,552	69,493	10.2
519	Other information services .....	46,068	44,461	44,753	38,785	38,073	36,365	3.6	-0.7	21.0	22.3	90,529	74,438	21.6
52	<b>Finance and insurance</b> <sup>7</sup> .....	<b>1,134,181</b>	<b>1,109,731</b>	<b>1,096,859</b>	<b>1,081,828</b>	<b>1,061,685</b>	<b>1,032,909</b>	<b>2.2</b>	<b>1.2</b>	<b>6.8</b>	<b>7.4</b>	<b>2,243,912</b>	<b>2,094,594</b>	<b>7.1</b>
52 pt	Finance and insurance (except monetary authorities-central bank) <sup>8</sup> .....	1,104,162	1,080,574	1,071,811	1,053,801	1,032,422	1,003,249	2.2	0.8	6.9	7.7	2,184,736	2,035,671	7.3
521	Monetary authorities-central bank.....	30,019	29,157	25,048	28,027	29,263	29,660	3.0	16.4	2.6	-1.7	59,176	58,923	0.4
522	Credit intermediation and related activities.....	303,622	292,592	293,080	295,295	288,041	279,431	3.8	-0.2	5.4	4.7	596,214	567,472	5.1
5221	Depository credit intermediation .....	134,816	128,418	128,976	128,362	124,736	122,038	5.0	-0.4	8.1	5.2	263,234	246,774	6.7
5222	Nondepository credit intermediation .....	143,698	140,290	140,064	142,582	140,429	135,564	2.4	0.2	2.3	3.5	283,988	275,993	2.9
5223	Activities related to credit intermediation.....	25,108	23,884	24,040	24,351	22,876	21,829	5.1	-0.6	9.8	9.4	48,992	44,705	9.6
523	Securities, commodity contracts, and other financial investments and related activities .....	157,317	158,452	151,529	148,121	146,205	138,188	-0.7	4.6	7.6	14.7	315,769	284,393	11.0
5231	Securities and commodity contracts intermediation and brokerage .....	69,458	71,529	65,857	66,135	67,592	59,072	-2.9	8.6	2.8	21.1	140,987	126,664	11.3
5232	Securities and commodity exchanges .....	2,968	2,982	2,782	2,577	2,748	2,913	-0.5	7.2	8.0	2.4	5,950	5,661	5.1
5239	Other financial investment activities .....	84,891	83,941	82,890	79,409	75,865	76,203	1.1	1.3	11.9	10.2	168,832	152,068	11.0
524	Insurance carriers and related activities .....	643,223	629,530	627,202	610,385	598,176	585,630	2.2	0.4	7.5	7.5	1,272,753	1,183,806	7.5
5241	Insurance carriers .....	555,902	543,409	542,578	527,307	516,625	506,113	2.3	0.2	7.6	7.4	1,099,311	1,022,738	7.5
5242	Agencies, brokerages, and other insurance related activities .....	87,321	86,121	84,624	83,078	81,551	79,517	1.4	1.8	7.1	8.3	173,442	161,068	7.7
53	<b>Real estate and rental and leasing</b> .....	<b>176,206</b>	<b>161,908</b>	<b>168,637</b>	<b>167,119</b>	<b>162,996</b>	<b>149,763</b>	<b>8.8</b>	<b>-4.0</b>	<b>8.1</b>	<b>8.1</b>	<b>338,114</b>	<b>312,759</b>	<b>8.1</b>
531	Real estate .....	123,470	113,698	117,460	116,585	113,037	103,460	8.6	-3.2	9.2	9.9	237,168	216,497	9.5
5311	Lessors of real estate.....	69,749	66,709	66,976	65,117	63,500	62,121	4.6	-0.4	9.8	7.4	136,458	125,621	8.6
5312	Offices of real estate agents and brokers.....	30,283	24,063	27,014	28,702	28,272	21,008	25.8	-10.9	7.1	14.5	54,346	49,280	10.3
5313	Activities related to real estate.....	23,438	22,926	23,470	22,766	21,265	20,331	2.2	-2.3	10.2	12.8	46,364	41,596	11.5
532	Rental and leasing services .....	42,150	38,674	39,913	40,978	39,813	36,798	9.0	-3.1	5.9	5.1	80,824	76,611	5.5
5321	Automotive equipment rental and leasing .....	14,766	13,521	14,409	15,684	14,589	13,023	9.2	-6.2	1.2	3.8	28,287	27,612	2.4
53211	Passenger car rental and leasing .....	9,855	9,204	9,782	10,844	9,897	8,771	7.1	-5.9	-0.4	4.9	19,059	18,668	2.1
53212	Truck, utility trailer, and RV (recreational vehicle) rental and leasing .....	4,911	4,317	4,627	4,840	4,692	4,252	13.8	-6.7	4.7	1.5	9,228	8,944	3.2
5322	Consumer goods rental .....	5,489	5,614	5,463	5,368	5,716	5,875	-2.2	2.8	-4.0	-4.4	11,103	11,591	-4.2
5323	General rental centers.....	S	S	S	S	S	S	S	S	S	S	S	S	S
5324	Commercial and industrial machinery and equipment rental and leasing .....	21,049	18,966	19,389	19,134	18,805	17,350	11.0	-2.2	11.9	9.3	40,015	36,155	10.7
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	10,586	9,536	11,264	9,556	10,146	9,505	11.0	-15.3	4.3	0.3	20,122	19,651	2.4

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		2Q 2017 (p)	1Q 2017	4Q 2016	3Q 2016	2Q 2016	1Q 2016	2Q 2017 from 1Q 2017 (p)	1Q 2017 from 4Q 2016	2Q 2017 from 2Q 2016 (p)	1Q 2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)
<b>54</b>	<b>Professional, scientific, and technical services<sup>9</sup></b>	<b>449,590</b>	<b>433,704</b>	<b>448,922</b>	<b>432,912</b>	<b>435,215</b>	<b>418,182</b>	<b>3.7</b>	<b>-3.4</b>	<b>3.3</b>	<b>3.7</b>	<b>883,294</b>	<b>853,397</b>	<b>3.5</b>
5411	Legal services <sup>9</sup>	73,610	65,850	83,438	71,527	71,122	63,891	11.8	-21.1	3.5	3.1	139,460	135,013	3.3
5412	Accounting, tax preparation, bookkeeping, and payroll services	49,084	53,175	38,163	38,894	45,185	49,100	-7.7	39.3	8.6	8.3	102,259	94,285	8.5
5413	Architectural, engineering, and related services	76,586	74,644	77,970	77,228	75,053	73,210	2.6	-4.3	2.0	2.0	151,230	148,263	2.0
5413 pt	Architectural and related services <sup>10</sup>	18,377	17,926	18,989	18,720	17,662	17,689	2.5	-5.6	4.0	1.3	36,303	35,351	2.7
54133	Engineering services	58,209	56,718	58,981	58,508	57,391	55,521	2.6	-3.8	1.4	2.2	114,927	112,912	1.8
5414	Specialized design services	6,017	5,692	5,965	5,663	5,467	5,842	5.7	-4.6	10.1	-2.6	11,709	11,309	3.5
5415	Computer systems design and related services	94,444	91,498	92,253	92,245	90,879	88,409	3.2	-0.8	3.9	3.5	185,942	179,288	3.7
5416	Management, scientific, and technical consulting services	65,829	63,495	65,470	64,391	63,865	60,792	3.7	-3.0	3.1	4.4	129,324	124,657	3.7
5417	Scientific research and development services	34,271	33,328	37,109	35,461	36,137	33,125	2.8	-10.2	-5.2	0.6	67,599	69,262	-2.4
5418	Advertising, public relations, and related services	26,711	25,807	27,007	26,117	25,822	24,762	3.5	-4.4	3.4	4.2	52,518	50,584	3.8
5419	Other professional, scientific, and technical services	23,038	20,215	21,547	21,386	21,685	19,051	14.0	-6.2	6.2	6.1	43,253	40,736	6.2
<b>56</b>	<b>Administrative and support and waste management and remediation services</b>	<b>235,610</b>	<b>226,221</b>	<b>226,392</b>	<b>222,186</b>	<b>216,293</b>	<b>204,278</b>	<b>4.2</b>	<b>-0.1</b>	<b>8.9</b>	<b>10.7</b>	<b>461,831</b>	<b>420,571</b>	<b>9.8</b>
561	Administrative and support services	211,881	204,111	203,276	198,739	193,191	182,957	3.8	0.4	9.7	11.6	415,992	376,148	10.6
5613	Employment services	92,869	95,646	93,950	86,444	83,357	82,392	-2.9	1.8	11.4	16.1	188,515	165,749	13.7
5615	Travel arrangement and reservation services	11,707	10,876	10,791	11,629	10,906	10,278	7.6	0.8	7.3	5.8	22,583	21,184	6.6
561 pt	Other administrative and support services <sup>11</sup>	107,305	97,589	98,535	100,666	98,928	90,287	10.0	-1.0	8.5	8.1	204,894	189,215	8.3
562	Waste management and remediation services	23,729	22,110	23,116	23,447	23,102	21,321	7.3	-4.4	2.7	3.7	45,839	44,423	3.2
<b>61</b>	<b>Educational services<sup>12</sup></b>	<b>18,565</b>	<b>16,720</b>	<b>16,112</b>	<b>16,157</b>	<b>17,624</b>	<b>15,699</b>	<b>11.0</b>	<b>3.8</b>	<b>5.3</b>	<b>6.5</b>	<b>35,285</b>	<b>33,323</b>	<b>5.9</b>
6114	Business schools and computer and management training	3,226	3,045	2,983	2,842	3,124	2,920	5.9	2.1	3.3	4.3	6,271	6,044	3.8
6115	Technical and trade schools	3,457	3,474	3,508	3,709	3,673	3,628	-0.5	-1.0	-5.9	-4.2	6,931	7,301	-5.1
6116	Other schools and instruction	7,155	S	6,038	5,738	6,586	5,858	S	S	8.6	S	S	12,444	S
6117	Educational support services	4,727	3,753	3,583	3,868	4,241	3,293	26.0	4.7	11.5	14.0	8,480	7,534	12.6
<b>62</b>	<b>Health care and social assistance</b>	<b>633,711</b>	<b>627,513</b>	<b>630,468</b>	<b>604,410</b>	<b>612,677</b>	<b>592,319</b>	<b>1.0</b>	<b>-0.5</b>	<b>3.4</b>	<b>5.9</b>	<b>1,261,224</b>	<b>1,204,996</b>	<b>4.7</b>
621	Ambulatory health care services	255,866	249,020	249,905	241,000	242,500	234,601	2.7	-0.4	5.5	6.1	504,886	477,101	5.8
6211	Offices of physicians	124,960	121,053	124,331	118,120	119,234	114,306	3.2	-2.6	4.8	5.9	246,013	233,540	5.3
6212	Offices of dentists	S	S	S	S	S	S	S	S	S	S	S	S	S
6213	Offices of other health practitioners	21,511	21,082	20,727	19,802	19,967	19,458	2.0	1.7	7.7	8.3	42,593	39,425	8.0
6214	Outpatient care centers	34,863	34,115	34,216	32,883	32,231	31,251	2.2	-0.3	8.2	9.2	68,978	63,482	8.7
6215	Medical and diagnostic laboratories	12,747	12,378	12,478	12,121	12,403	11,943	3.0	-0.8	2.8	3.6	25,125	24,346	3.2
6216	Home health care services	20,643	19,941	20,005	19,610	19,507	18,782	3.5	-0.3	5.8	6.2	40,584	38,289	6.0
6219	Other ambulatory health care services	9,150	8,871	8,913	8,719	8,657	8,486	3.1	-0.5	5.7	4.5	18,021	17,143	5.1
622	Hospitals	271,179	273,843	272,958	261,757	268,422	259,509	-1.0	0.3	1.0	5.5	545,022	527,931	3.2
6221	General medical and surgical hospitals	252,314	255,467	254,801	243,592	250,584	241,634	-1.2	0.3	0.7	5.7	507,781	492,218	3.2
6222	Psychiatric and substance abuse hospitals	6,688	6,633	6,614	6,524	6,316	6,296	0.8	0.3	5.9	5.4	13,321	12,612	5.6
6223	Specialty (except psychiatric and substance abuse) hospitals	12,177	11,743	11,543	11,641	11,522	11,579	3.7	1.7	5.7	1.4	23,920	23,101	3.5
623	Nursing and residential care facilities	61,133	59,206	60,580	59,123	58,733	56,541	3.3	-2.3	4.1	4.7	120,339	115,274	4.4
624	Social assistance	45,533	45,444	47,025	42,530	43,022	41,668	0.2	-3.4	5.8	9.1	90,977	84,690	7.4
6241	Individual and family services	23,851	23,888	23,802	22,604	22,405	21,433	-0.2	0.4	6.5	11.5	47,739	43,838	8.9
6242	Community food and housing, and emergency and other relief services	8,291	8,172	9,734	7,693	7,862	7,589	1.5	-16.0	5.5	7.7	16,463	15,451	6.5
6243	Vocational rehabilitation services	3,296	3,235	3,338	3,316	3,286	3,258	1.9	-3.1	0.3	-0.7	6,531	6,544	-0.2
6244	Child day care services	10,095	10,149	10,151	8,917	9,469	9,388	-0.5	Z	6.6	8.1	20,244	18,857	7.4
<b>71</b>	<b>Arts, entertainment, and recreation</b>	<b>68,374</b>	<b>60,162</b>	<b>67,407</b>	<b>66,848</b>	<b>62,380</b>	<b>55,513</b>	<b>13.6</b>	<b>-10.7</b>	<b>9.6</b>	<b>8.4</b>	<b>128,536</b>	<b>117,893</b>	<b>9.0</b>
711	Performing arts, spectator sports, and related industries	28,082	25,225	32,365	29,673	25,996	23,215	11.3	-22.1	8.0	8.7	53,307	49,211	8.3
7111	Performing arts companies	3,957	3,780	4,020	3,986	4,026	3,300	4.7	-6.0	-1.7	14.5	7,737	7,326	5.6
7112	Spectator sports	10,518	9,131	13,525	11,343	9,934	8,194	15.2	-32.5	5.9	11.4	19,649	18,128	8.4
7113	Promoters of performing arts, sports, and similar events	7,200	5,952	7,179	7,843	6,358	5,452	21.0	-17.1	13.2	9.2	13,152	11,810	11.4
7114	Agents and managers for artists, athletes, entertainers, and other public figures	1,879	1,674	1,974	1,912	1,720	1,552	12.2	-15.2	9.2	7.9	3,553	3,272	8.6
7115	Independent artists, writers, and performers	4,528	4,688	5,667	4,589	3,958	4,717	-3.4	-17.3	14.4	-0.6	9,216	8,675	6.2
712	Museums, historical sites, and similar institutions	4,510	3,606	4,424	4,075	4,084	3,126	25.1	-18.5	10.4	15.4	8,116	7,210	12.6
713	Amusement, gambling, and recreation industries	35,782	31,331	30,618	33,100	32,300	29,172	14.2	2.3	10.8	7.4	67,113	61,472	9.2
7131	Amusement parks and arcades	5,970	4,030	4,603	6,311	5,091	3,565	48.1	-12.4	17.3	13.0	10,000	8,656	15.5
7132	Gambling industries	7,771	7,787	7,032	7,104	7,219	7,505	-0.2	10.7	7.6	3.8	15,558	14,724	5.7
7139	Other amusement and recreation industries	22,041	19,514	18,983	19,685	19,990	18,102	12.9	2.8	10.3	7.8	41,555	38,092	9.1
<b>721</b>	<b>Accommodation</b>	<b>65,302</b>	<b>59,225</b>	<b>58,128</b>	<b>64,556</b>	<b>62,497</b>	<b>55,250</b>	<b>10.3</b>	<b>1.9</b>	<b>4.5</b>	<b>7.2</b>	<b>124,527</b>	<b>117,747</b>	<b>5.8</b>
7211	Traveler accommodation	63,224	57,711	56,874	62,228	60,402	53,813	9.6	1.5	4.7	7.2	120,935	114,215	5.9
7212	RV (recreational vehicle) parks and recreational camps	1,820	1,196	931	1,931	1,814	1,094	52.2	28.5	0.3	9.3	3,016	2,908	3.7
7213	Rooming and boarding houses	258	318	323	397	281	343	-18.9	-1.5	-8.2	-7.3	576	624	-7.7

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		2Q 2017 (p)	1Q 2017	4Q 2016	3Q 2016	2Q 2016	1Q 2016	2Q 2017 from 1Q 2017 (p)	1Q 2017 from 4Q 2016	2Q 2017 from 2Q 2016 (p)	1Q 2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)
<b>81</b>	<b>Other services (except public administration)<sup>13</sup></b> .....	<b>152,282</b>	<b>139,253</b>	<b>151,125</b>	<b>133,596</b>	<b>128,566</b>	<b>123,572</b>	<b>9.4</b>	<b>-7.9</b>	<b>18.4</b>	<b>12.7</b>	<b>291,535</b>	<b>252,138</b>	<b>15.6</b>
811	Repair and maintenance .....	42,770	40,588	39,972	40,907	41,777	40,006	5.4	1.5	2.4	1.5	83,358	81,783	1.9
8111	Automotive repair and maintenance .....	27,278	26,071	25,884	26,589	26,801	26,334	4.6	0.7	1.8	-1.0	53,349	53,135	0.4
8112	Electronic and precision equipment repair and maintenance .....	4,595	4,564	4,500	4,463	4,403	3,974	0.7	1.4	4.4	14.8	9,159	8,377	9.3
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	8,672	8,406	7,927	8,010	8,405	8,150	3.2	6.0	3.2	3.1	17,078	16,555	3.2
8114	Personal and household goods repair and maintenance .....	2,225	1,547	1,661	1,845	2,168	1,548	43.8	-6.9	2.6	-0.1	3,772	3,716	1.5
812	Personal and laundry services.....	29,652	27,945	28,443	27,669	27,451	26,479	6.1	-1.8	8.0	5.5	57,597	53,930	6.8
8121	Personal care services.....	S	9,958	9,752	9,932	9,806	9,263	S	2.1	S	7.5	S	19,069	S
8122	Death care services.....	5,187	5,238	5,062	4,709	4,743	4,859	-1.0	3.5	9.4	7.8	10,425	9,602	8.6
8123	Drycleaning and laundry services.....	7,212	6,732	6,806	6,729	6,834	6,613	7.1	-1.1	5.5	1.8	13,944	13,447	3.7
8129	Other personal services.....	6,485	6,017	6,823	6,299	6,068	5,744	7.8	-11.8	6.9	4.8	12,502	11,812	5.8
813	Religious, grantmaking, civic, professional, and similar organizations <sup>14</sup> .....	79,860	70,720	82,710	65,020	59,338	57,087	12.9	-14.5	34.6	23.9	150,580	116,425	29.3

(p) Preliminary estimate. Z Absolute value is less than .05.

S Estimate does not meet publication standards because of high variability (coefficient of variation greater than 30%), poor response quality (total quantity response rate is less than 50%) or other concerns about the estimate's quality. Unpublished estimates derived from this table by subtraction are subject to these same limitations and should not be attributed to the U.S. Census Bureau. For a description of publication standards and the total quantity response rate, see [www.census.gov/quality/guidelines/index.html](http://www.census.gov/quality/guidelines/index.html).

(1) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2007 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(2) Includes NAICS 22 (Utilities), NAICS 48-49 (Transportation and warehousing), NAICS 51 (Information), NAICS 52 (Finance and insurance), NAICS 53 (Real estate and rental and leasing), NAICS 54 (Selected professional, scientific, and technical services), NAICS 56 (Administrative and support and waste management and remediation services), NAICS 61 (Educational services), NAICS 62 (Health care and social assistance), NAICS 71 (Arts, entertainment, and recreation), NAICS 721 (Accommodation), and NAICS 81 (Other services (except public administration)). Exclusions listed in footnotes 3, 4, 7, 9, 12, and 13 also apply to the Selected Services Total.

(3) Excludes government owned utilities.

(4) Excludes NAICS 482 (Rail transportation) and 491 (Postal service).

(5) Includes NAICS 51113 (Book publishers), 51114 (Directory and mailing list publishers), and 51119 (Other publishers).

(6) Includes NAICS 5174 (Satellite telecommunications), and 5179 (Other telecommunications).

(7) Excludes NAICS 525 (Funds, trusts, and other financial vehicles).

(8) Excludes NAICS 521 (Monetary authorities-central bank) and NAICS 525 (Funds, trusts, and other financial vehicles).

(9) Excludes NAICS 54112 (Offices of notaries).

(10) Includes all of NAICS 5413 (Architectural, engineering, and related services) except 54133 (Engineering services).

(11) Includes NAICS 5611 (Office administrative services), 5612 (Facilities support services), 5614 (Business support services), 5616 (Investigation and security services), 5617 (Services to buildings and dwellings), and 5619 (Other support services).

(12) Excludes NAICS 6111 (Elementary and secondary schools), 6112 (Junior colleges), and 6113 (Colleges, universities, and professional schools).

(13) Excludes NAICS 8131 (Religious organizations), 81393 (Labor unions and similar labor organizations), 81394 (Political organizations), and 814 (Private households).

(14) Excludes NAICS 8131 (Religious organizations), 81393 (Labor unions and similar labor organizations), and 81394 (Political organizations).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html). For NAICS 52, estimates may include unrealized gains (losses).

**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date				
		2Q 2017 (p)		1Q 2017		4Q 2016		3Q 2016		2Q 2016		1Q 2016		Coefficient of variation		Standard error
		2017 (p)	2017	2016	2016	2016	2016	2017 from 1Q 2017 (p)	2017 from 4Q 2016	2017 from 2Q 2016 (p)	2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)		
	<b>Selected Services Total</b> .....	<b>1.4</b>	<b>1.4</b>	<b>1.4</b>	<b>1.4</b>	<b>1.4</b>	<b>1.4</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>1.4</b>	<b>1.4</b>	<b>0.2</b>		
<b>22</b>	<b>Utilities</b> .....	<b>4.7</b>	<b>4.1</b>	<b>4.2</b>	<b>4.5</b>	<b>4.6</b>	<b>3.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.4</b>	<b>0.9</b>	<b>4.4</b>	<b>4.1</b>	<b>0.6</b>		
2211	Electric power generation, transmission and distribution .....	5.5	5.0	4.9	5.1	5.4	4.5	0.8	0.7	0.4	1.1	5.2	4.9	0.7		
2212	Natural gas distribution .....	3.5	2.9	3.0	4.2	3.1	2.6	1.4	1.5	1.6	1.9	2.9	2.6	1.7		
2213	Water, sewage and other systems .....	7.7	7.9	7.3	6.7	6.8	7.6	1.5	2.0	2.0	2.7	7.8	7.2	2.2		
<b>48-49</b>	<b>Transportation and warehousing</b> .....	<b>2.7</b>	<b>2.5</b>	<b>2.6</b>	<b>2.7</b>	<b>2.7</b>	<b>2.6</b>	<b>0.3</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>	<b>2.6</b>	<b>2.6</b>	<b>1.0</b>		
481	Air transportation .....	2.3	2.9	3.8	4.4	4.3	4.4	1.0	2.8	3.7	3.4	2.5	4.4	3.5		
483	Water transportation .....	3.6	2.8	3.2	3.1	3.2	3.4	1.0	0.7	0.6	0.7	3.2	3.2	0.4		
4831	Deep sea, coastal, and Great Lakes water transportation .....	4.5	3.6	4.1	3.8	4.2	4.3	1.1	0.9	0.8	0.8	4.0	4.2	0.4		
4832	Inland water transportation .....	5.3	3.9	4.6	4.8	3.7	3.4	1.9	1.3	1.8	1.1	4.5	3.6	1.1		
484	Truck transportation .....	7.1	6.9	7.6	7.9	7.8	7.9	0.5	1.0	1.1	1.5	7.0	7.8	1.2		
4841	General freight trucking .....	11.0	10.8	11.5	11.9	11.7	11.5	0.8	1.3	1.4	1.6	10.9	11.6	1.4		
48412	General freight trucking, long-distance .....	11.7	11.6	12.3	12.5	12.5	12.6	0.6	1.1	1.6	2.1	11.6	12.6	1.8		
4842	Specialized freight trucking .....	4.2	4.8	4.5	4.1	3.6	3.6	1.4	1.3	1.8	3.1	4.4	3.5	2.4		
485	Transit and ground passenger transportation .....	5.4	6.5	6.2	5.5	6.7	5.9	2.3	1.1	2.6	1.8	5.9	6.1	1.6		
486	Pipeline transportation .....	1.8	1.9	1.9	1.8	1.6	1.4	0.3	0.3	0.3	1.4	1.9	1.4	0.8		
487	Scenic and sightseeing transportation .....	8.9	10.6	11.9	10.7	10.0	8.5	12.4	5.0	6.6	4.1	9.3	8.8	2.7		
488	Support activities for transportation .....	6.6	6.4	6.5	5.9	6.1	5.7	0.7	0.3	1.1	1.5	6.5	5.9	1.3		
492	Couriers and messengers .....	1.5	1.7	1.6	1.6	1.6	1.7	0.2	0.2	0.3	0.3	1.6	1.7	0.3		
493	Warehousing and storage .....	6.2	6.3	6.8	6.0	5.7	6.1	1.6	1.8	2.7	2.3	6.2	5.8	2.4		
<b>51</b>	<b>Information</b> .....	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>	<b>1.4</b>	<b>1.6</b>	<b>1.8</b>	<b>0.3</b>	<b>0.1</b>	<b>0.6</b>	<b>0.7</b>	<b>1.3</b>	<b>1.7</b>	<b>0.6</b>		
511	Publishing industries (except Internet) .....	6.2	5.5	5.3	4.6	5.1	5.3	1.1	0.6	1.4	0.9	5.9	5.2	1.1		
51111	Newspaper publishers .....	4.2	4.1	4.4	4.9	5.3	5.3	0.2	1.1	1.8	1.8	4.1	5.3	1.8		
51112	Periodical publishers .....	4.7	4.7	5.8	3.6	5.0	4.6	4.9	2.7	1.9	2.2	4.1	4.4	1.6		
5111 pt	Book, directory and mailing list, and other publishers .....	5.6	4.5	4.2	4.6	5.5	4.8	4.3	0.7	1.3	1.7	4.8	4.7	1.4		
5112	Software publishers .....	8.0	7.2	6.9	6.0	6.6	7.0	1.1	0.7	2.1	1.2	7.6	6.8	1.6		
512	Motion picture and sound recording industries .....	4.0	3.4	4.0	3.2	3.9	5.5	1.6	1.4	1.2	3.7	3.6	4.6	2.6		
515	Broadcasting (except Internet) .....	2.1	1.7	1.9	1.4	1.9	1.9	0.5	0.4	0.6	0.6	1.9	1.9	0.6		
5151	Radio and television broadcasting .....	3.5	2.7	2.9	2.6	3.3	3.2	1.1	0.7	1.8	1.2	3.0	3.3	1.4		
5152	Cable and other subscription programming .....	1.4	1.2	1.3	1.2	1.3	1.3	0.5	0.2	0.5	0.2	1.3	1.3	0.3		
517	Telecommunications .....	1.8	1.7	1.7	1.7	2.0	2.0	0.2	0.3	0.3	0.4	1.8	2.0	0.4		
5171	Wired telecommunications carriers .....	3.4	3.4	3.2	3.4	3.6	3.8	0.1	0.2	0.4	0.5	3.4	3.7	0.4		
5172	Wireless telecommunications carriers (except satellite) .....	2.4	2.4	2.6	2.6	2.8	2.8	0.5	0.6	0.5	0.7	2.4	2.8	0.5		
517 pt	Other telecommunications .....	3.0	3.3	3.5	3.6	4.5	3.8	0.5	0.6	1.8	1.2	3.2	4.1	1.5		
518	Data processing, hosting, and related services .....	3.3	3.4	3.4	3.5	4.0	4.0	0.9	0.3	2.0	1.7	3.3	4.0	1.7		
519	Other information services .....	4.2	4.5	3.6	3.1	3.9	4.8	0.9	1.3	2.3	2.5	4.3	4.3	2.3		
<b>52</b>	<b>Finance and insurance</b> .....	<b>5.0</b>	<b>4.7</b>	<b>5.3</b>	<b>4.8</b>	<b>5.2</b>	<b>4.7</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>4.9</b>	<b>4.9</b>	<b>0.8</b>		
52 pt	Finance and insurance (except monetary authorities-central bank) .....	5.2	4.8	5.4	5.0	5.3	4.9	0.9	0.9	0.8	0.9	5.0	5.1	0.8		
521	Monetary authorities-central bank .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
522	Credit intermediation and related activities .....	4.3	4.2	4.5	4.4	4.7	4.5	0.5	0.3	1.3	1.0	4.3	4.6	1.2		
5221	Depository credit intermediation .....	7.6	7.6	7.9	7.7	8.2	8.3	0.3	0.5	1.7	1.7	7.6	8.2	1.7		
5222	Nondepository credit intermediation .....	4.3	4.0	4.3	4.6	4.7	3.7	1.0	0.4	1.6	1.0	4.1	4.2	1.2		
5223	Activities related to credit intermediation .....	3.5	3.6	3.0	2.4	2.3	2.1	0.3	0.9	1.5	1.9	3.6	2.2	1.6		
523	Securities, commodity contracts, and other financial investments and related activities .....	4.1	4.0	4.0	4.4	3.7	3.5	1.0	1.1	1.1	1.4	4.0	3.6	1.2		
5231	Securities and commodity contracts intermediation and brokerage .....	7.5	7.1	7.5	7.2	6.2	5.8	1.0	1.0	1.4	2.2	7.3	6.0	1.6		
5232	Securities and commodity exchanges .....	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
5239	Other financial investment activities .....	3.8	4.9	4.9	5.0	3.7	3.5	1.5	1.7	1.8	2.4	4.3	3.5	1.9		
524	Insurance carriers and related activities .....	7.5	7.1	8.0	7.1	7.8	7.0	1.5	1.7	1.2	1.2	7.3	7.4	1.2		
5241	Insurance carriers .....	8.8	8.2	9.2	8.3	8.9	7.9	1.6	1.7	1.2	1.3	8.5	8.4	1.2		
5242	Agencies, brokerages, and other insurance related activities .....	3.5	4.5	3.8	4.4	4.3	4.6	1.4	2.0	2.1	2.1	3.9	4.4	1.8		
<b>53</b>	<b>Real estate and rental and leasing</b> .....	<b>5.2</b>	<b>4.7</b>	<b>4.8</b>	<b>5.4</b>	<b>5.2</b>	<b>4.5</b>	<b>0.8</b>	<b>0.6</b>	<b>0.9</b>	<b>1.0</b>	<b>5.0</b>	<b>4.8</b>	<b>0.9</b>		
531	Real estate .....	7.0	6.3	6.5	7.4	7.2	6.4	1.1	0.8	1.3	1.3	6.7	6.8	1.3		
5311	Lessors of real estate .....	8.8	7.8	8.2	9.4	9.1	8.4	1.2	1.1	1.8	1.5	8.3	8.8	1.6		
5312	Offices of real estate agents and brokers .....	12.4	11.6	10.7	11.6	11.9	10.5	2.5	2.0	1.9	1.8	12.0	11.2	1.8		
5313	Activities related to real estate .....	6.5	7.4	6.1	6.7	7.0	6.6	1.8	1.3	2.1	1.6	6.9	6.8	1.5		
532	Rental and leasing services .....	4.1	4.4	4.6	3.9	4.2	4.1	1.2	1.0	0.7	1.2	4.2	4.1	0.8		
5321	Automotive equipment rental and leasing .....	3.3	3.3	3.4	3.2	3.5	2.7	0.3	0.3	0.3	0.9	3.3	3.1	0.4		
53211	Passenger car rental and leasing .....	3.4	3.4	3.3	3.0	3.3	2.3	0.2	0.3	0.4	1.4	3.4	2.8	0.7		
53212	Truck, utility trailer, and RV (recreational vehicle) rental and leasing .....	5.1	5.2	5.6	5.1	5.2	4.9	0.8	0.5	1.0	0.8	5.1	5.0	0.6		
5322	Consumer goods rental .....	9.3	8.9	10.3	10.9	10.3	9.3	1.2	1.9	2.3	2.1	9.1	9.8	1.9		
5323	General rental centers .....	S	S	S	S	S	S	S	S	S	S	S	S	S		
5324	Commercial and industrial machinery and equipment rental and leasing .....	5.7	6.1	6.4	5.7	6.3	5.6	2.3	2.0	1.9	3.2	5.9	5.8	2.2		
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	6.3	6.6	5.7	7.1	7.6	7.4	0.6	1.3	2.3	2.0	6.5	7.5	2.1		

**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date				
		2Q 2017 (p)		1Q 2017		4Q 2016		3Q 2016		2Q 2016		1Q 2016		Coefficient of variation		Standard error
		2017 (p)	2017	2016	2016	2016	2016	2017 from 1Q 2017 (p)	2017 from 4Q 2016	2017 from 2Q 2016 (p)	2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)		
<b>54</b>	<b>Professional, scientific, and technical services .....</b>	<b>1.7</b>	<b>1.6</b>	<b>2.1</b>	<b>2.2</b>	<b>2.4</b>	<b>2.0</b>	<b>0.7</b>	<b>0.7</b>	<b>1.0</b>	<b>1.1</b>	<b>1.6</b>	<b>2.2</b>	<b>0.9</b>		
5411	Legal services .....	2.3	3.1	3.7	2.7	2.3	2.5	1.6	1.2	1.3	2.0	2.6	2.3	1.2		
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	3.1	3.4	4.4	4.8	4.0	3.7	1.5	2.5	1.6	0.8	3.1	3.8	1.2		
5413	Architectural, engineering, and related services .....	6.0	4.1	5.5	5.1	4.8	4.2	2.8	1.9	2.9	2.9	5.0	4.4	2.8		
5413 pt	Architectural and related services .....	4.7	4.7	8.6	7.8	8.2	8.7	3.9	5.2	7.2	8.1	4.2	8.3	7.4		
54133	Engineering services .....	7.4	5.2	6.6	6.1	5.3	5.1	2.7	2.1	2.9	3.4	6.2	5.0	3.1		
5414	Specialized design services .....	5.3	3.8	4.5	4.0	3.3	5.8	3.3	3.0	3.9	3.2	4.4	4.4	1.9		
5415	Computer systems design and related services .....	6.5	6.1	5.9	7.1	7.5	7.6	1.7	0.7	2.8	2.1	6.2	7.5	2.3		
5416	Management, scientific, and technical consulting services .....	5.2	5.6	5.4	5.4	5.2	5.3	1.2	1.1	1.7	0.9	5.4	5.2	0.7		
5417	Scientific research and development services .....	4.0	4.7	7.3	6.9	6.2	5.9	1.0	3.6	3.7	4.4	4.3	6.0	3.9		
5418	Advertising, public relations, and related services .....	3.6	3.6	3.4	3.1	3.0	2.9	1.4	0.7	1.5	1.8	3.5	2.9	1.4		
5419	Other professional, scientific, and technical services .....	7.6	8.4	7.7	6.1	6.2	6.3	3.1	3.3	2.9	3.5	7.9	6.2	2.4		
<b>56</b>	<b>Administrative and support and waste management and remediation services .....</b>	<b>1.0</b>	<b>1.3</b>	<b>1.3</b>	<b>1.4</b>	<b>1.4</b>	<b>1.6</b>	<b>0.5</b>	<b>0.8</b>	<b>1.2</b>	<b>1.4</b>	<b>1.1</b>	<b>1.5</b>	<b>1.3</b>		
561	Administrative and support services .....	1.5	1.8	1.9	1.9	1.9	2.2	0.6	0.9	1.3	1.5	1.6	2.0	1.4		
5613	Employment services .....	5.5	5.0	4.5	4.5	3.9	3.8	0.9	2.0	3.8	3.2	5.2	3.8	3.5		
5615	Travel arrangement and reservation services .....	8.2	7.6	7.3	8.5	7.1	8.9	2.6	3.9	3.5	4.5	7.8	7.8	3.1		
561 pt	Other administrative and support services .....	3.9	3.9	3.7	4.0	3.8	4.0	0.8	1.0	1.1	0.9	3.9	3.9	0.8		
562	Waste management and remediation services .....	4.7	3.7	4.0	3.7	3.5	3.4	1.6	0.9	1.8	1.6	4.2	3.4	1.5		
<b>61</b>	<b>Educational services .....</b>	<b>5.0</b>	<b>5.7</b>	<b>5.2</b>	<b>4.8</b>	<b>4.6</b>	<b>5.5</b>	<b>1.6</b>	<b>1.1</b>	<b>1.0</b>	<b>1.9</b>	<b>5.3</b>	<b>5.0</b>	<b>1.2</b>		
6114	Business schools and computer and management training .....	16.7	18.0	18.0	17.5	17.1	17.6	3.4	3.0	4.0	3.1	17.3	17.3	2.8		
6115	Technical and trade schools .....	10.7	12.2	11.7	13.7	11.7	11.4	2.1	2.6	2.5	2.5	11.5	11.5	2.4		
6116	Other schools and instruction .....	6.8	S	5.8	8.4	6.5	7.1	S	S	4.2	S	S	6.7	S		
6117	Educational support services .....	4.1	4.3	4.2	8.1	3.6	3.9	1.9	1.9	2.9	4.0	4.1	3.3	2.6		
<b>62</b>	<b>Health care and social assistance .....</b>	<b>1.9</b>	<b>2.2</b>	<b>1.9</b>	<b>1.9</b>	<b>2.2</b>	<b>1.9</b>	<b>0.5</b>	<b>0.8</b>	<b>0.7</b>	<b>0.7</b>	<b>2.1</b>	<b>2.1</b>	<b>0.4</b>		
621	Ambulatory health care services .....	2.0	2.1	2.0	2.1	1.9	1.9	0.3	0.5	0.4	0.6	2.1	1.9	0.4		
6211	Offices of physicians .....	5.6	5.8	5.4	5.8	5.4	5.4	0.8	1.1	0.9	1.5	5.7	5.4	1.0		
6212	Offices of dentists .....	S	S	S	S	S	S	S	S	S	S	S	S	S		
6213	Offices of other health practitioners .....	5.6	5.2	4.6	5.2	4.5	4.7	1.8	2.0	2.3	1.8	5.3	4.6	1.8		
6214	Outpatient care centers .....	3.4	3.6	4.2	3.3	3.4	3.7	0.9	1.1	1.9	2.0	3.5	3.5	1.9		
6215	Medical and diagnostic laboratories .....	4.0	4.1	4.1	3.9	3.9	3.7	0.7	0.8	1.0	1.1	4.1	3.8	1.0		
6216	Home health care services .....	4.0	3.9	3.6	4.3	3.8	4.4	1.2	1.3	1.9	2.0	3.9	4.0	1.9		
6219	Other ambulatory health care services .....	5.9	5.4	5.7	6.1	6.0	6.0	0.9	0.5	1.1	1.2	5.6	6.0	1.1		
622	Hospitals .....	3.5	3.8	3.7	3.4	4.0	3.8	0.7	1.7	1.3	1.6	3.6	3.8	1.0		
6221	General medical and surgical hospitals .....	3.7	4.0	4.0	3.7	4.4	4.0	0.7	1.8	1.4	1.7	3.8	4.1	1.1		
6222	Psychiatric and substance abuse hospitals .....	9.6	8.2	9.3	9.1	9.5	8.7	2.3	1.3	1.1	0.6	8.8	9.0	0.7		
6223	Specialty (except psychiatric and substance abuse) hospitals .....	7.1	7.3	7.1	7.0	7.2	7.2	0.3	0.3	0.6	0.5	7.2	7.2	0.5		
623	Nursing and residential care facilities .....	4.8	4.5	4.6	4.9	4.4	4.7	0.9	0.7	1.1	0.6	4.6	4.5	0.5		
624	Social assistance .....	3.3	3.3	3.0	1.9	2.2	2.5	0.9	0.7	1.5	1.4	3.2	2.3	1.3		
6241	Individual and family services .....	3.4	3.5	3.1	1.8	1.9	2.5	1.3	1.7	2.3	2.7	3.4	2.0	2.4		
6242	Community food and housing, and emergency and other relief services .....	4.0	4.4	4.2	5.0	4.2	4.7	2.2	1.5	1.6	3.2	4.1	4.2	2.1		
6243	Vocational rehabilitation services .....	8.8	8.0	9.4	8.0	9.1	10.1	2.0	2.1	2.9	2.9	8.4	9.5	2.2		
6244	Child day care services .....	7.1	6.4	6.8	7.2	6.8	5.9	2.6	2.6	3.0	3.1	6.6	6.2	3.0		
<b>71</b>	<b>Arts, entertainment, and recreation .....</b>	<b>4.5</b>	<b>3.0</b>	<b>3.6</b>	<b>3.5</b>	<b>3.3</b>	<b>2.9</b>	<b>1.8</b>	<b>1.1</b>	<b>2.1</b>	<b>1.4</b>	<b>3.8</b>	<b>3.0</b>	<b>1.5</b>		
711	Performing arts, spectator sports, and related industries .....	5.9	3.7	3.8	3.9	5.0	3.4	4.6	2.2	2.7	2.2	4.6	4.0	2.3		
7111	Performing arts companies .....	5.8	6.3	7.0	10.6	7.8	6.1	1.2	2.1	4.2	3.9	6.0	7.0	3.7		
7112	Spectator sports .....	13.4	11.9	8.6	9.2	12.1	11.4	12.9	5.6	2.6	2.5	11.6	10.9	2.1		
7113	Promoters of performing arts, sports, and similar events .....	3.5	7.9	2.2	2.2	4.4	7.1	9.0	6.4	2.6	3.7	4.0	5.0	2.4		
7114	Agents and managers for artists, athletes, entertainers, and other public figures .....	13.1	11.2	11.3	11.7	11.9	9.8	4.4	7.7	12.5	9.0	12.0	10.7	10.6		
7115	Independent artists, writers, and performers .....	17.4	16.0	12.9	10.0	12.5	9.8	4.3	4.7	21.9	8.0	16.6	10.3	12.9		
712	Museums, historical sites, and similar institutions .....	4.7	6.3	5.4	5.0	3.4	5.0	6.7	4.0	2.6	4.6	4.7	4.0	2.3		
713	Amusement, gambling, and recreation industries .....	6.0	5.7	5.3	5.3	4.3	5.0	1.3	1.3	3.1	1.9	5.8	4.5	2.3		
7131	Amusement parks and arcades .....	5.8	5.9	4.5	5.2	4.0	4.8	4.1	1.5	3.9	4.0	5.7	4.1	3.8		
7132	Gambling industries .....	11.3	11.3	10.8	12.1	11.5	11.6	0.4	3.3	3.6	3.8	11.3	11.5	3.7		
7139	Other amusement and recreation industries .....	6.9	6.3	6.4	7.6	6.1	6.3	3.1	1.3	6.5	3.0	6.4	6.1	4.5		
<b>721</b>	<b>Accommodation .....</b>	<b>3.4</b>	<b>2.9</b>	<b>3.5</b>	<b>3.5</b>	<b>3.5</b>	<b>2.7</b>	<b>0.8</b>	<b>1.0</b>	<b>1.6</b>	<b>1.5</b>	<b>3.1</b>	<b>3.0</b>	<b>1.5</b>		
7211	Traveler accommodation .....	3.4	2.9	3.5	3.5	3.4	2.7	0.8	1.0	1.6	1.6	3.1	3.0	1.5		
7212	RV (recreational vehicle) parks and recreational camps .....	7.1	6.9	7.5	6.3	7.1	3.9	7.5	7.7	2.0	6.5	6.5	5.5	1.7		
7213	Rooming and boarding houses .....	13.0	7.3	11.9	16.3	21.0	16.7	6.7	6.2	6.2	7.4	9.1	18.5	6.6		

**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		2Q 2017 (p)	1Q 2017	4Q 2016	3Q 2016	2Q 2016	1Q 2016	2Q 2017 from 1Q 2017 (p)	1Q 2017 from 4Q 2016	2Q 2017 from 2Q 2016 (p)	1Q 2017 from 1Q 2016	2017 (p)	2016	2017 from 2016 (p)
81	<b>Other services (except public administration) .....</b>	2.5	2.3	2.4	2.0	2.2	2.6	1.6	1.1	1.6	0.8	2.3	2.2	1.0
811	Repair and maintenance .....	4.2	5.0	4.4	3.9	3.6	3.7	1.5	1.6	1.3	1.8	4.5	3.7	1.5
8111	Automotive repair and maintenance .....	6.3	7.8	7.9	6.5	6.4	5.2	2.0	1.9	2.1	4.3	7.0	5.7	3.0
8112	Electronic and precision equipment repair and maintenance .....	21.0	21.3	21.6	16.7	17.1	14.2	2.6	1.5	4.1	5.6	21.1	15.7	4.3
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	8.9	9.5	9.7	9.9	9.0	10.0	1.5	3.1	2.8	4.5	9.2	9.4	3.4
8114	Personal and household goods repair and maintenance .....	18.1	16.8	14.8	15.6	16.3	13.7	7.6	7.3	5.4	6.6	17.5	15.2	5.8
812	Personal and laundry services.....	4.9	4.2	4.1	4.3	4.5	4.7	1.4	0.5	2.7	1.9	4.5	4.5	2.1
8121	Personal care services.....	S	8.9	9.4	9.7	9.9	9.2	S	1.4	S	2.9	S	9.5	S
8122	Death care services.....	8.5	8.8	8.0	8.1	8.0	9.8	1.9	1.6	4.3	6.2	8.6	8.8	5.0
8123	Drycleaning and laundry services.....	9.5	10.4	10.2	9.5	9.5	9.4	3.4	0.3	3.5	1.5	9.9	9.4	2.3
8129	Other personal services.....	10.1	8.1	8.0	7.2	7.4	6.7	4.4	2.6	6.7	5.2	9.0	7.0	5.6
813	Religious, grantmaking, civic, professional, and similar organizations .....	4.0	3.2	2.8	3.3	3.4	3.0	2.9	1.7	3.3	1.8	3.4	2.4	2.0

(p) Preliminary estimate. Z Absolute value is less than .05.

S Corresponding estimate in Table 1a and/or 1b does not meet publication standards because of high sampling variability, poor response quality or other concerns about the estimate's quality.

Note: Estimated measures of sampling variability are based on data not adjusted for seasonal variation, and should be used when drawing inferences about both adjusted and not adjusted estimates. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

## EXPLANATORY NOTES

### Survey Description

The U.S. Census Bureau conducts the Quarterly Services Survey to provide national estimates of quarterly revenue for employer firms located in the United States and classified in select service industries. The current total sample size is approximately 19,500 employer firms.

Each quarter, questionnaires are mailed to a probability sample of employer firms selected from the larger Service Annual Survey sample. The QSS sample includes firms of all sizes and is updated on a quarterly basis to account for new services businesses, deaths, and other changes to the survey universe. Data for nonresponding firms are imputed based on data for similar-sized firms classified in the same kind of business. The following table lists imputation rates of total quarterly revenue for the industries published in the QSS:

2007 NAICS Code	Kind of Business	Imputation Rate of Total Quarterly Revenue (in %)
	Selected Services Total	26
22	Utilities	6
48-49	Transportation and warehousing	26
51	Information	17
52	Finance and insurance	15
53	Real estate and rental and leasing	34
54	Professional, scientific, and technical services	38
56	Administrative and support and waste management and remediation services	36
61	Educational services	42
62	Health care and social assistance	35
71	Arts, entertainment, and recreation	34
721	Accommodation	34
81	Other services (except public administration)	40

Quarterly revenue estimates are obtained by summing weighted data (either reported or imputed), where the weight for a particular unit is the reciprocal of its probability of being selected into the sample. The estimates are benchmarked using results of the latest SAS. Additional information on the QSS can be found on the Census Bureau website at <[www.census.gov/services/](http://www.census.gov/services/)>.

### Description of Seasonal Adjustment

To derive the seasonally adjusted revenue estimates published in this report, we used all available quarterly

#### Data Inquiries

Economic Indicators Division, Service Indicator Branch  
301-763-2960  
[sssd.qss@census.gov](mailto:sssd.qss@census.gov)

#### Media Inquiries

Public Information Office  
301-763-3030  
[pio@census.gov](mailto:pio@census.gov)



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revenue estimates as input to the Census Bureau’s X-13 ARIMA-SEATS program. With each non-advance quarterly release, we publish preliminary seasonally adjusted estimates for the current quarter and revised seasonally adjusted estimates for the previous five quarters. The seasonal adjustment models used to derive seasonal factors for each kind of business are evaluated annually and will not be revised until the next benchmarking operation. For a table of the seasonal adjustment factors, see [www.census.gov/services/qss/qssseasfactors.xls](http://www.census.gov/services/qss/qssseasfactors.xls). A list of “Frequently Asked Questions” on seasonal adjustment of QSS estimates is available at [www.census.gov/services/qss/seasonally adjusted\\_faqs](http://www.census.gov/services/qss/seasonally_adjusted_faqs).

### **Reliability of the Estimates**

The estimates in this report may differ from the actual, but unknown, population values. For a particular estimate, statisticians define this difference as the total error of the estimate. When describing the accuracy of survey results, it is convenient to discuss total error as the sum of sampling error and nonsampling error. Nonsampling error is the difference between the actual population parameter and the value that would be derived by surveying the entire set of units identified as the survey universe (the sampling frame). There are many potential contributors to nonsampling error – the inclusion of erroneous units in the survey (overcoverage), the exclusion of eligible units from the survey (undercoverage), nonresponse, misreporting, mistakes in recording and coding responses, misinterpretation of questions, and other errors of collection, response, coverage, or processing. Though nonsampling error is not measured directly, the Census Bureau employs quality control procedures throughout the process to minimize this type of error. Sampling error is the average 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. Common measures of sampling error are the sampling variance, the standard error, and the coefficient of variation. The sampling variance is defined as the squared difference, averaged over all possible samples of the same size and design, between the estimator and its average value. The standard error is the square root of the sampling variance. The CV expresses the standard error as a percentage of the estimate to which it refers. For example, an estimate of 200 units that has an estimated standard error of 10 units has an estimated CV of 5 percent. The sampling variance, standard error, and CV of an estimate can be estimated from the selected sample because the sample was selected using probability sampling. Standard errors and coefficients of variation are given in Table 2 of this report.

The first page of this release gives statements about the change in revenue from a prior period. Each change estimate is accompanied by a number in parentheses, called the “margin of error.” The margin of error can be used to construct a 90-percent confidence interval, which is interpreted as follows. If, for each possible sample, an estimate and its approximate standard error are obtained, then for approximately 90 percent of the possible samples, the interval from 1.895 standard errors below to 1.895 standard errors above the estimate would include the average of the estimates derived from all possible samples. If, for example, a particular change estimate is +1.2 percent and its associated margin of error is  $\pm 1.5$  percentage points, then

#### **Data Inquiries**

Economic Indicators Division, Service Indicator Branch  
301-763-2960  
[sssd.qss@census.gov](mailto:sssd.qss@census.gov)

#### **Media Inquiries**

Public Information Office  
301-763-3030  
[pio@census.gov](mailto:pio@census.gov)



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the 90-percent confidence interval for the change estimate is -0.3 percent to +2.7 percent. If the interval contains 0, then one does not have sufficient evidence to conclude at the 90-percent confidence level that the actual change is different from zero. Each comparison stated in this report has undergone statistical testing and is significant at the 90-percent confidence level, unless otherwise noted. Data users should take into account the estimates of sampling error and the potential effects of nonsampling error when using the statistics in this publication.

Additional information regarding the methodology used in conducting this survey is available at [www.census.gov/services/qss/qsstechdoc](http://www.census.gov/services/qss/qsstechdoc).

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**Data Inquiries**

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[pio@census.gov](mailto:pio@census.gov)



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