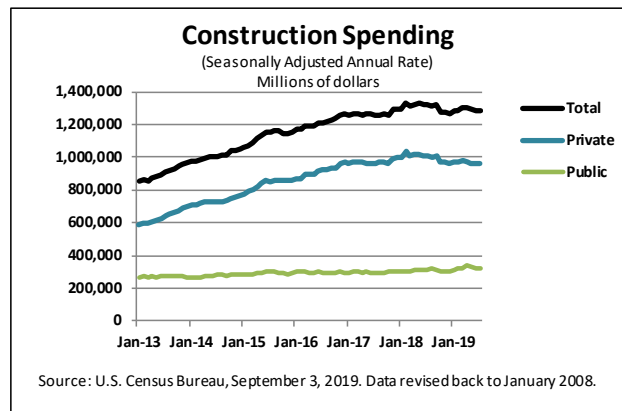
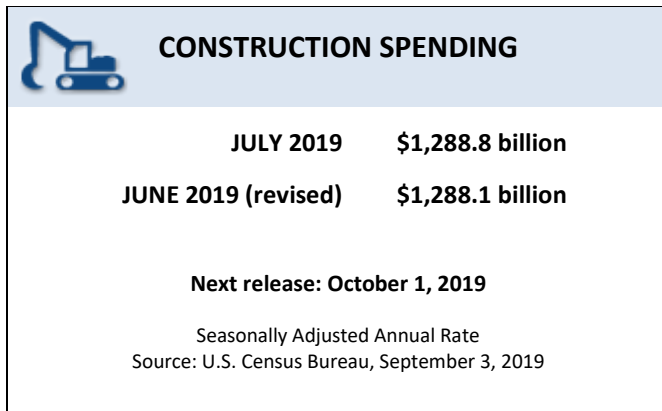


MONTHLY CONSTRUCTION SPENDING, JULY 2019

Release Number: CB19-131

Notice: With this release, unadjusted data have been revised back to January 2013 and seasonally adjusted data back to January 2008. All revised estimates are available on our website.

September 3, 2019 — The U.S. Census Bureau announced the following value put in place construction statistics for July 2019:



Total Construction

Construction spending during July 2019 was estimated at a seasonally adjusted annual rate of \$1,288.8 billion, 0.1 percent (± 1.3 percent)* above the revised June estimate of \$1,288.1 billion. The July figure is 2.7 percent (± 1.6 percent) below the July 2018 estimate of \$1,324.8 billion. During the first seven months of this year, construction spending amounted to \$733.8 billion, 2.1 percent (± 1.2 percent) below the \$749.9 billion for the same period in 2018.

Private Construction

Spending on private construction was at a seasonally adjusted annual rate of \$963.1 billion, 0.1 percent (± 0.7 percent)* below the revised June estimate of \$963.7 billion. Residential construction was at a seasonally adjusted annual rate of \$506.7 billion in July, 0.6 percent (± 1.3 percent)* above the revised June estimate of \$503.5 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$456.4 billion in July, 0.8 percent (± 0.7 percent) below the revised June estimate of \$460.2 billion.

Public Construction

In July, the estimated seasonally adjusted annual rate of public construction spending was \$325.7 billion, 0.4 percent (± 2.5 percent)* above the revised June estimate of \$324.3 billion. Educational construction was at a seasonally adjusted annual rate of \$73.3 billion, 1.6 percent (± 2.8 percent)* above the revised June estimate of \$72.1 billion. Highway construction was at a seasonally adjusted annual rate of \$97.0 billion, 2.7 percent (± 6.4 percent)* below the revised June estimate of \$99.7 billion.

Data Inquiries

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The August 2019 Monthly Construction Spending Report is scheduled for release on October 1, 2019. View the full schedule in the Economic Briefing Room: <www.census.gov/economic-indicators/>. The full text and tables for this release can be found at <www.census.gov/constructionspending/>.

EXPLANATORY NOTES

In interpreting changes in the statistics in this release, note that month-to-month changes in seasonally adjusted statistics often show movements which may be irregular. It may take 2 months to establish an underlying trend for total construction and as long as 8 months for specific categories of construction. The statistics in this release are estimated from several sources and surveys and are subject to sampling variability as well as nonsampling error including bias and variance from response, nonreporting, and undercoverage. Estimates of the standard errors are provided in Table 3. Whenever a statement such as "2.3 (±3.1) percent above" appears in the text, this indicates the range (-0.8 to +5.4 percent) in which the actual percentage change is likely to have occurred. All ranges given are 90 percent confidence intervals and account only for sampling variability. If a range does not contain zero, the change is statistically significant. If it does contain zero, the change is not statistically significant; that is, it is uncertain whether there was an increase or decrease. Statistics for the current month are preliminary estimates subject to revision in following months as additional data become available. The average absolute percent changes from preliminary estimate to first revision for the major seasonally adjusted components are as follows: total construction, 1.06 percent; private construction, 1.39 percent; and public construction, 1.18 percent. Explanations of confidence intervals and sampling variability can be found on our website at <<http://www.census.gov/construction/c30/meth.html/>>.

RESOURCES

API

The Census Bureau's application programming interface lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before. <www.census.gov/developers/>

FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <<https://fred.stlouisfed.org/fred-mobile/>> for both Apple and Android devices. FRED, the signature database of the Federal Reserve Bank of St. Louis, now incorporates the Census Bureau's 13 economic indicators.

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* The 90 percent confidence interval includes zero. There is insufficient evidence to conclude that the actual change is different from zero.

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U.S. Department of Commerce
U.S. CENSUS BUREAU
census.gov

Table 1. Value of Construction Put in Place in the United States, Seasonally Adjusted Annual Rate
(Millions of dollars. Details may not add to totals due to rounding.)

Type of Construction	Jul 2019 ^p	Jun 2019 ^r	May 2019 ^r	Apr 2019 ^r	Mar 2019 ^r	Jul 2018 ^r	Percent change Jul 2019 from -	
							Jun 2019	Jul 2018
Total Construction	1,288,794	1,288,070	1,297,464	1,307,136	1,299,118	1,324,803	0.1	-2.7
Residential	512,777	509,560	509,632	512,113	512,055	549,175	0.6	-6.6
Nonresidential	776,017	778,511	787,831	795,023	787,063	775,629	-0.3	0.1
Lodging	34,663	35,444	34,359	34,169	34,231	32,313	-2.2	7.3
Office	78,943	78,862	78,479	78,906	78,982	74,498	0.1	6.0
Commercial	82,552	85,070	83,528	84,294	86,293	98,894	-3.0	-16.5
Health care	44,761	44,278	43,972	44,491	45,095	42,429	1.1	5.5
Educational	90,845	89,878	97,651	99,026	97,485	95,231	1.1	-4.6
Religious	2,622	2,722	2,839	2,877	2,941	3,212	-3.7	-18.4
Public safety	10,500	10,327	10,063	9,944	9,141	9,400	1.7	11.7
Amusement and recreation	27,802	28,468	28,144	29,094	28,209	29,027	-2.3	-4.2
Transportation	56,179	56,755	56,420	52,898	52,492	53,395	-1.0	5.2
Communication	22,921	23,122	23,507	23,453	23,961	24,103	-0.9	-4.9
Power	99,518	99,235	101,338	99,904	100,734	99,466	0.3	0.1
Highway and street	97,314	100,037	105,451	112,609	103,079	95,080	-2.7	2.3
Sewage and waste disposal	27,848	27,253	27,186	25,228	24,829	23,358	2.2	19.2
Water supply	17,338	16,570	16,035	16,385	15,051	16,109	4.6	7.6
Conservation and development	9,722	9,341	8,644	8,860	8,984	8,972	4.1	8.4
Manufacturing	72,491	71,149	70,216	72,884	75,556	70,142	1.9	3.3
Total Private Construction¹	963,139	963,743	962,688	967,690	976,630	1,011,567	-0.1	-4.8
Residential	506,743	503,515	503,578	505,672	505,931	542,307	0.6	-6.6
New single family	268,138	264,537	265,324	268,753	268,532	293,051	1.4	-8.5
New multifamily	62,458	63,151	63,650	62,850	62,992	59,067	-1.1	5.7
Nonresidential	456,396	460,228	459,111	462,019	470,699	469,260	-0.8	-2.7
Lodging	33,691	34,575	33,179	33,084	33,229	31,351	-2.6	7.5
Office	68,547	68,308	68,381	68,343	68,597	64,382	0.3	6.5
Commercial	77,899	80,796	79,313	80,133	81,998	95,173	-3.6	-18.2
Health care	35,691	35,155	34,864	35,289	36,254	32,526	1.5	9.7
Educational	17,572	17,783	18,766	19,656	20,361	21,328	-1.2	-17.6
Religious	2,622	2,722	2,839	2,877	2,941	3,212	-3.7	-18.4
Amusement and recreation	13,951	14,471	14,516	15,304	15,282	15,819	-3.6	-11.8
Transportation	16,234	17,106	17,197	15,447	15,581	16,716	-5.1	-2.9
Communication	22,818	23,016	23,313	23,284	23,764	24,035	-0.9	-5.1
Power	93,596	93,834	95,359	94,324	95,594	93,635	-0.3	0.0
Manufacturing	72,250	70,896	69,967	72,687	75,360	69,682	1.9	3.7
Total Public Construction²	325,655	324,327	334,775	339,446	322,488	313,236	0.4	4.0
Residential	6,035	6,044	6,055	6,442	6,123	6,868	-0.1	-12.1
Nonresidential	319,621	318,283	328,721	333,004	316,365	306,368	0.4	4.3
Office	10,396	10,553	10,098	10,563	10,386	10,116	-1.5	2.8
Commercial	4,653	4,274	4,215	4,161	4,295	3,721	8.9	25.0
Health care	9,070	9,123	9,108	9,203	8,841	9,904	-0.6	-8.4
Educational	73,273	72,095	78,885	79,370	77,124	73,903	1.6	-0.9
Public safety	10,269	10,068	9,848	9,721	8,949	9,194	2.0	11.7
Amusement and recreation	13,850	13,997	13,628	13,791	12,927	13,208	-1.1	4.9
Transportation	39,944	39,650	39,223	37,451	36,911	36,679	0.7	8.9
Power	5,922	5,401	5,980	5,581	5,140	5,831	9.6	1.6
Highway and street	97,011	99,747	105,169	112,261	102,646	94,670	-2.7	2.5
Sewage and waste disposal	27,186	26,570	26,546	24,516	24,068	22,881	2.3	18.8
Water supply	17,049	16,278	15,785	16,105	14,716	15,822	4.7	7.8
Conservation and development	9,681	9,298	8,616	8,831	8,966	8,950	4.1	8.2

^p Preliminary ^r Revised

¹Includes the following categories of private construction not shown separately:
public safety, highway and street, sewage and waste disposal, water supply, and conservation and development.

²Includes the following categories of public construction not shown separately:
lodging, religious, communication, and manufacturing.

Data are at an annual rate, adjusted for seasonality but not price changes. Source: U.S. Census Bureau, Construction Spending, September 3, 2019. Table 3 provides estimated measures of sampling variability. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>

Table 2. Value of Construction Put in Place in the United States, Not Seasonally Adjusted
(Millions of dollars. Details may not add to totals due to rounding.)

Type of Construction	Jul 2019 ^p	Jun 2019 ^r	May 2019 ^r	Apr 2019 ^r	Mar 2019 ^r	Jul 2018 ^r	Year-to-date		
							Jul 2019	Jul 2018	Percent change
Total Construction	119,214	116,636	112,691	106,786	99,683	122,010	733,782	749,888	-2.1
Residential	48,508	46,910	44,863	42,908	40,567	51,583	293,340	320,768	-8.6
Nonresidential	70,706	69,727	67,828	63,878	59,116	70,428	440,442	429,120	2.6
Lodging	2,957	3,005	2,961	2,881	2,814	2,733	19,811	17,841	11.0
Office	6,748	6,801	6,705	6,528	6,307	6,376	44,955	41,891	7.3
Commercial	7,193	7,393	7,127	7,006	6,710	8,942	47,648	55,292	-13.8
Health care	3,794	3,764	3,774	3,640	3,590	3,576	25,447	24,500	3.9
Educational	9,326	8,927	8,359	7,863	7,133	9,791	55,115	56,596	-2.6
Religious	227	232	241	243	227	278	1,616	1,888	-14.4
Public safety	872	889	853	815	688	768	5,462	5,211	4.8
Amusement and recreation	2,430	2,486	2,501	2,417	2,186	2,549	16,024	15,716	2.0
Transportation	5,012	5,029	4,906	4,334	3,880	4,749	30,490	28,335	7.6
Communication	1,876	1,871	1,943	1,922	1,940	1,981	13,016	13,927	-6.5
Power	8,252	8,418	8,613	8,327	8,116	8,197	57,649	53,423	7.9
Highway and street	10,971	10,070	9,409	7,986	5,717	10,314	53,450	47,693	12.1
Sewage and waste disposal	2,523	2,465	2,358	2,023	1,842	2,098	14,440	13,654	5.8
Water supply	1,572	1,507	1,409	1,346	1,130	1,429	8,902	8,984	-0.9
Conservation and development	822	763	712	683	708	752	4,960	4,374	13.4
Manufacturing	6,134	6,107	5,959	5,865	6,129	5,895	41,459	39,797	4.2
Total Private Construction¹	86,812	85,813	83,633	80,577	77,678	91,200	554,108	579,683	-4.4
Residential	47,962	46,361	44,324	42,365	40,115	50,978	289,891	316,929	-8.5
New single family	24,729	23,572	22,589	21,826	20,990	27,031	150,219	164,529	-8.7
New multifamily	5,216	5,473	5,477	5,412	5,163	4,910	36,414	34,150	6.6
Nonresidential	38,851	39,451	39,309	38,212	37,563	40,221	264,217	262,754	0.6
Lodging	2,876	2,932	2,863	2,791	2,731	2,652	19,219	17,316	11.0
Office	5,862	5,872	5,826	5,645	5,495	5,520	39,147	36,278	7.9
Commercial	6,805	7,014	6,772	6,672	6,387	8,637	45,282	53,376	-15.2
Health care	3,017	2,989	3,001	2,883	2,880	2,731	20,318	19,052	6.6
Educational	1,614	1,666	1,712	1,680	1,626	1,955	11,371	12,850	-11.5
Religious	227	232	241	243	227	278	1,616	1,888	-14.4
Amusement and recreation	1,203	1,234	1,286	1,272	1,212	1,366	8,479	8,852	-4.2
Transportation	1,405	1,527	1,546	1,278	1,094	1,438	9,179	8,918	2.9
Communication	1,867	1,862	1,927	1,908	1,923	1,975	12,929	13,860	-6.7
Power	7,730	7,897	8,072	7,863	7,745	7,693	54,441	50,278	8.3
Manufacturing	6,114	6,086	5,938	5,848	6,112	5,856	41,336	39,491	4.7
Total Public Construction²	32,402	30,824	29,058	26,209	22,005	30,811	179,674	170,205	5.6
Residential	546	549	539	543	452	605	3,449	3,839	-10.2
Nonresidential	31,856	30,275	28,519	25,665	21,552	30,206	176,225	166,366	5.9
Office	886	929	879	883	812	856	5,809	5,613	3.5
Commercial	388	379	355	334	324	305	2,366	1,916	23.5
Health care	777	775	773	757	711	845	5,129	5,449	-5.9
Educational	7,712	7,262	6,647	6,183	5,507	7,837	43,744	43,747	0.0
Public safety	854	865	832	795	673	752	5,334	5,112	4.3
Amusement and recreation	1,226	1,252	1,215	1,145	975	1,182	7,545	6,865	9.9
Transportation	3,607	3,502	3,360	3,056	2,786	3,311	21,311	19,416	9.8
Power	522	521	542	465	370	505	3,208	3,145	2.0
Highway and street	10,941	10,043	9,384	7,958	5,685	10,275	53,257	47,545	12.0
Sewage and waste disposal	2,469	2,406	2,299	1,964	1,783	2,059	14,033	13,466	4.2
Water supply	1,547	1,481	1,388	1,324	1,106	1,404	8,745	8,840	-1.1
Conservation and development	818	759	710	681	706	750	4,943	4,356	13.5

^p Preliminary ^r Revised

¹Includes the following categories of private construction not shown separately: public safety, highway and street, sewage and waste disposal, water supply, and conservation and development.

²Includes the following categories of public construction not shown separately: lodging, religious, communication, and manufacturing.

Source: U.S. Census Bureau, Construction Spending, September 3, 2019.

Table 3 provides estimated measures of sampling variability. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>

Table 3. Coefficients of Variation and Standard Errors by Type of Construction
(Percent)

Type of Construction	Coefficient of variation		Standard error		
	Monthly estimate	Year-to-date estimate	Year-to-date change	Month-to-month change	Month-to-month change from prev. year
Total Construction	0.7	0.5	0.7	0.8	1.0
Residential	3.2	3.0	4.0	2.7	4.4
Nonresidential	0.7	0.5	0.7	0.8	1.0
Lodging	1.7	1.9	2.2	1.0	2.1
Office	1.8	1.4	1.7	0.8	2.0
Commercial	1.9	1.2	1.9	0.9	1.6
Health care	1.8	1.8	2.1	1.2	2.0
Educational	1.6	1.1	2.1	1.4	2.9
Religious	6.2	5.3	5.3	4.1	5.4
Public safety	3.2	2.5	3.5	2.3	5.1
Amusement and recreation	2.1	1.6	2.1	1.3	2.4
Transportation	1.3	0.9	1.6	2.6	2.4
Communication	NA	NA	NA	NA	NA
Power	0.4	0.4	0.4	0.2	0.6
Highway and street	3.2	1.9	3.1	3.9	4.1
Sewage and waste disposal	3.5	2.6	3.5	3.1	4.5
Water supply	4.1	3.0	4.7	2.9	7.7
Conservation and development	2.0	1.6	2.6	2.0	3.0
Manufacturing	0.7	0.5	1.1	0.3	1.0
Total Private Construction	0.6	0.6	0.7	0.4	0.7
Residential	5.0	1.1	1.3	0.8	1.4
New single family	5.0	4.0	6.8	6.0	6.0
New multifamily	6.0	6.0	3.4	1.7	3.9
Nonresidential	0.6	0.6	0.7	0.4	0.7
Lodging	1.7	1.9	2.2	1.0	2.1
Office	2.0	1.6	1.9	0.9	2.2
Commercial	1.9	1.3	1.9	0.9	1.6
Health care	2.1	2.3	2.6	1.5	2.5
Educational	2.3	2.3	2.7	1.4	2.6
Religious	6.2	5.3	5.3	4.1	5.4
Amusement and recreation	2.3	1.5	1.9	1.6	2.3
Transportation	1.3	1.5	1.9	0.6	1.5
Communication	NA	NA	NA	NA	NA
Power	0.3	0.3	0.4	0.1	0.5
Manufacturing	0.7	0.5	1.1	0.3	1.0
Total Public Construction	1.3	0.8	1.3	1.5	1.9
Residential	3.2	3.0	4.0	2.7	4.5
Nonresidential	1.3	0.8	1.3	1.5	1.9
Office	3.1	2.3	4.9	1.5	5.2
Commercial	4.8	3.4	6.8	2.9	9.2
Health care	2.5	2.2	2.4	2.0	2.8
Educational	2.0	1.4	2.6	1.7	3.6
Public safety	3.2	2.5	3.5	2.4	5.1
Amusement and recreation	3.7	2.9	4.5	2.0	4.6
Transportation	1.6	1.1	1.9	3.3	3.0
Power	6.0	5.1	6.4	5.9	11.9
Highway and street	3.2	1.9	3.2	3.9	4.1
Sewage and waste disposal	3.6	2.6	3.5	3.1	4.5
Water supply	4.2	3.1	4.8	2.9	7.9
Conservation and development	2.0	1.6	2.6	2.0	3.0

NA Not applicable

Source: U.S. Census Bureau, Construction Spending, September 3, 2019. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>

Table 4. Annual Value of Construction Put in Place in the United States
(Millions of dollars. Details may not add to totals due to rounding.)

Type of Construction	2018 ^f	2017 ^f	Percent change	Coefficient of variation
Total Construction	1,307,248	1,265,843	3.3	0.5
Residential	546,136	531,755	2.7	2.4
Nonresidential	761,113	734,088	3.7	0.5
Lodging	31,496	28,660	9.9	1.3
Office	74,450	68,685	8.4	1.3
Commercial	95,420	87,626	8.9	1.3
Health care	42,642	43,120	-1.1	1.2
Educational	97,777	96,685	1.1	1.5
Religious	3,262	3,586	-9.0	3.7
Public safety	9,468	8,539	10.9	3.8
Amusement and recreation	27,924	26,569	5.1	1.8
Transportation	51,446	46,137	11.5	1.0
Communication	24,645	23,696	4.0	NA
Power	93,176	95,951	-2.9	0.6
Highway and street	91,124	89,620	1.7	1.7
Sewage and waste disposal	23,931	22,901	4.5	2.3
Water supply	15,317	14,168	8.1	3.2
Conservation and development	8,253	7,464	10.6	1.7
Manufacturing	70,782	70,682	0.1	0.7
Total Private Construction¹	1,000,154	969,304	3.2	0.5
Residential	539,607	525,015	2.8	1.1
New single family	289,582	270,163	7.2	1.0
New multifamily	59,593	60,012	-0.7	5.7
Nonresidential	460,547	444,289	3.7	0.5
Lodging	30,464	28,065	8.5	1.3
Office	64,591	59,918	7.8	1.5
Commercial	91,799	84,479	8.7	1.3
Health care	33,255	33,517	-0.8	1.5
Educational	21,351	21,232	0.6	1.6
Religious	3,262	3,586	-9.0	3.7
Public safety	169	107	57.9	14.7
Amusement and recreation	15,522	14,518	6.9	1.7
Transportation	16,605	14,796	12.2	1.0
Communication	24,461	23,571	3.8	NA
Power	87,708	89,774	-2.3	0.6
Sewage and waste disposal	457	240	90.4	17.0
Water supply	265	277	-4.3	14.2
Manufacturing	70,330	69,970	0.5	0.7
Total Public Construction²	307,094	296,539	3.6	0.8
Residential	6,529	6,740	-3.1	2.4
Nonresidential	300,566	289,799	3.7	0.8
Office	9,859	8,768	12.4	3.5
Commercial	3,622	3,148	15.1	4.3
Health care	9,387	9,604	-2.3	1.8
Educational	76,426	75,453	1.3	1.8
Public safety	9,298	8,432	10.3	3.9
Amusement and recreation	12,403	12,051	2.9	3.3
Transportation	34,841	31,342	11.2	1.3
Power	5,469	6,177	-11.5	4.9
Highway and street	90,842	89,400	1.6	1.7
Sewage and waste disposal	23,474	22,660	3.6	2.4
Water supply	15,052	13,891	8.4	3.3
Conservation and development	8,226	7,443	10.5	1.7

NA Not applicable ^f Revised

¹Includes the following categories of private construction not shown separately: highway and street, and conservation and development.

²Includes the following categories of public construction not shown separately: lodging, religious, communication, and manufacturing.

Source: U.S. Census Bureau, Construction Spending, September 3, 2019. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>