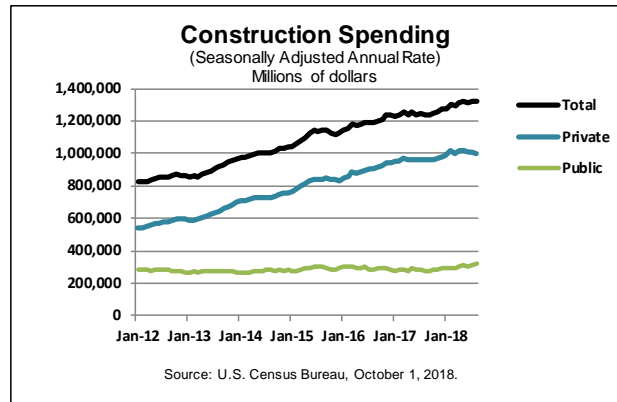


MONTHLY CONSTRUCTION SPENDING, AUGUST 2018

Release Number: CB18-152

October 1, 2018 — The U.S. Census Bureau announced the following value put in place construction statistics for August 2018:

CONSTRUCTION SPENDING	
AUGUST 2018	\$1,318.5 billion
JULY 2018 (revised)	\$1,317.4 billion
Next release: November 1, 2018	
Seasonally Adjusted Annual Rate Source: U.S. Census Bureau, October 1, 2018	



Total Construction

Construction spending during August 2018 was estimated at a seasonally adjusted annual rate of \$1,318.5 billion, 0.1 percent (± 1.6 percent)* above the revised July estimate of \$1,317.4 billion. The August figure is 6.5 percent (± 2.0 percent) above the August 2017 estimate of \$1,237.5 billion. During the first eight months of this year, construction spending amounted to \$862.0 billion, 5.3 percent (± 1.3 percent) above the \$818.7 billion for the same period in 2017.

Private Construction

Spending on private construction was at a seasonally adjusted annual rate of \$1,001.7 billion, 0.5 percent (± 1.0 percent)* below the revised July estimate of \$1,006.9 billion. Residential construction was at a seasonally adjusted annual rate of \$548.9 billion in August, 0.7 percent (± 1.3 percent)* below the revised July estimate of \$553.0 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$452.9 billion in August, 0.2 percent (± 1.0 percent)* below the revised July estimate of \$453.9 billion.

Public Construction

In August, the estimated seasonally adjusted annual rate of public construction spending was \$316.7 billion, 2.0 percent (± 2.8 percent)* above the revised July estimate of \$310.5 billion. Educational construction was at a seasonally adjusted annual rate of \$72.3 billion, 1.0 percent (± 4.4 percent)* above the revised July estimate of \$71.7 billion. Highway construction was at a seasonally adjusted annual rate of \$99.0 billion, 1.7 percent (± 6.9 percent)* above the revised July estimate of \$97.3 billion.

Data Inquiries

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Media Inquiries

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The September 2018 Monthly Construction Spending Report is scheduled for release on November 1, 2018. 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 (\pm 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, 0.79 percent; private construction, 0.75 percent; and public construction, 1.73 percent.

Explanations of confidence intervals and sampling variability can be found on our website at <www.census.gov/construction/c30/methodology.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
Economics and Statistics Administration
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	Aug 2018 ^p	Jul 2018 ^r	Jun 2018 ^r	May 2018	Apr 2018	Aug 2017	Percent change Aug 2018 from -	
							Jul 2018	Aug 2017
Total Construction	1,318,485	1,317,434	1,314,788	1,324,347	1,314,692	1,237,494	0.1	6.5
Residential	555,751	559,743	558,134	568,812	569,988	534,024	-0.7	4.1
Nonresidential	762,734	757,692	756,654	755,535	744,704	703,470	0.7	8.4
Lodging	31,764	31,101	31,573	31,712	32,065	28,727	2.1	10.6
Office	73,886	72,525	72,518	72,997	71,453	64,644	1.9	14.3
Commercial	91,302	92,219	92,985	93,120	91,691	88,130	-1.0	3.6
Health care	41,962	41,528	41,913	42,195	41,759	42,661	1.0	-1.6
Educational	92,630	92,023	91,303	96,265	93,393	89,014	0.7	4.1
Religious	2,835	2,861	2,844	3,031	3,326	3,332	-0.9	-14.9
Public safety	9,788	9,721	9,437	9,315	9,108	8,582	0.7	14.1
Amusement and recreation	27,299	26,588	26,587	25,376	25,239	24,468	2.7	11.6
Transportation	54,033	54,052	52,848	50,941	50,413	44,070	0.0	22.6
Communication	24,895	24,460	24,447	24,691	25,242	24,542	1.8	1.4
Power	100,838	102,133	103,148	104,319	102,383	94,244	-1.3	7.0
Highway and street	99,206	97,576	95,934	95,473	94,495	87,153	1.7	13.8
Sewage and waste disposal	22,852	22,467	22,536	22,063	21,763	20,374	1.7	12.2
Water supply	15,937	15,252	15,377	14,488	13,108	11,610	4.5	37.3
Conservation and development	9,636	9,049	8,484	8,279	7,528	7,174	6.5	34.3
Manufacturing	63,872	64,137	64,722	61,272	61,740	64,745	-0.4	-1.3
Total Private Construction¹	1,001,749	1,006,909	1,009,424	1,016,843	1,015,286	959,548	-0.5	4.4
Residential	548,892	553,020	551,668	561,940	563,367	527,533	-0.7	4.0
New single family	284,920	286,829	288,162	288,944	286,564	273,545	-0.7	4.2
New multi-family	58,551	59,564	59,351	60,682	60,071	58,916	-1.7	-0.6
Nonresidential	452,858	453,888	457,756	454,903	451,920	432,016	-0.2	4.8
Lodging	30,238	30,108	30,702	30,535	30,985	27,916	0.4	8.3
Office	63,498	63,004	62,728	63,090	62,065	56,402	0.8	12.6
Commercial	87,901	88,684	89,395	89,654	88,263	85,224	-0.9	3.1
Health care	31,811	31,495	32,443	32,611	32,897	32,920	1.0	-3.4
Educational	20,292	20,371	20,904	21,253	20,449	19,144	-0.4	6.0
Religious	2,835	2,861	2,844	3,031	3,326	3,332	-0.9	-14.9
Amusement and recreation	14,959	14,687	14,687	14,194	14,156	13,826	1.9	8.2
Transportation	17,891	17,660	17,486	16,626	16,480	14,970	1.3	19.5
Communication	24,560	24,396	24,376	24,619	25,069	24,415	0.7	0.6
Power	94,604	95,855	97,134	97,796	96,239	89,107	-1.3	6.2
Manufacturing	63,279	63,734	64,168	60,770	61,286	64,062	-0.7	-1.2
Total Public Construction²	316,736	310,525	305,364	307,504	299,405	277,945	2.0	14.0
Residential	6,859	6,722	6,466	6,873	6,621	6,491	2.0	5.7
Nonresidential	309,877	303,803	298,898	300,632	292,784	271,455	2.0	14.2
Office	10,389	9,521	9,790	9,906	9,388	8,242	9.1	26.0
Commercial	3,401	3,535	3,590	3,466	3,428	2,906	-3.8	17.0
Health care	10,151	10,033	9,469	9,584	8,862	9,741	1.2	4.2
Educational	72,337	71,652	70,400	75,012	72,944	69,871	1.0	3.5
Public safety	9,643	9,545	9,287	9,228	8,992	8,501	1.0	13.4
Amusement and recreation	12,340	11,901	11,900	11,182	11,083	10,643	3.7	15.9
Transportation	36,142	36,393	35,361	34,315	33,933	29,101	-0.7	24.2
Power	6,234	6,279	6,014	6,523	6,144	5,137	-0.7	21.4
Highway and street	99,012	97,327	95,778	95,283	94,277	86,906	1.7	13.9
Sewage and waste disposal	22,480	22,095	22,166	21,784	21,587	20,168	1.7	11.5
Water supply	15,674	15,034	15,182	14,343	12,946	11,463	4.3	36.7
Conservation and development	9,620	9,031	8,464	8,256	7,493	7,156	6.5	34.4

^pPreliminary ^rRevised

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, October 1, 2018. 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	Aug 2018 ^P	Jul 2018 ^F	Jun 2018 ^F	May 2018	Apr 2018	Aug 2017	Year-to-date		
							Aug 2018	Aug 2017	Percent change
Total Construction	121,997	120,972	118,720	114,797	107,210	115,070	861,954	818,737	5.3
Residential	51,390	52,705	50,873	50,032	47,742	49,729	371,362	348,869	6.4
Nonresidential	70,607	68,268	67,847	64,765	59,468	65,342	490,593	469,868	4.4
Lodging	2,698	2,618	2,699	2,743	2,688	2,472	20,793	18,892	10.1
Office	6,377	6,175	6,249	6,243	5,853	5,597	47,392	43,897	8.0
Commercial	8,124	8,022	8,105	8,013	7,626	7,886	60,437	57,673	4.8
Health care	3,653	3,486	3,591	3,601	3,393	3,718	27,665	27,298	1.3
Educational	9,491	9,472	9,110	8,258	7,404	9,184	63,168	62,338	1.3
Religious	265	248	247	254	273	313	1,969	2,263	-13.0
Public safety	863	798	810	782	741	752	6,001	5,287	13.5
Amusement and recreation	2,422	2,315	2,312	2,240	2,106	2,173	17,007	16,527	2.9
Transportation	4,827	4,744	4,734	4,434	4,102	3,973	33,487	28,597	17.1
Communication	2,091	1,993	1,990	2,045	1,986	2,137	16,073	15,857	1.4
Power	8,251	8,427	8,757	8,812	8,462	7,745	65,991	65,071	1.4
Highway and street	11,561	10,481	9,584	8,366	6,538	10,235	60,180	56,577	6.4
Sewage and waste disposal	2,142	1,984	2,001	1,894	1,725	1,909	14,403	13,142	9.6
Water supply	1,428	1,344	1,394	1,248	1,068	1,029	9,266	7,844	18.1
Conservation and development	867	745	690	679	587	642	5,234	4,545	15.2
Manufacturing	5,546	5,418	5,575	5,155	4,917	5,578	41,527	44,060	-5.7
Total Private Construction¹	89,716	90,636	89,721	88,332	84,300	86,509	664,009	633,816	4.8
Residential	50,778	52,122	50,287	49,431	47,190	49,153	366,990	344,482	6.5
New single family	26,533	26,440	25,692	24,631	23,313	25,518	187,946	174,225	7.9
New multi-family	5,131	4,959	5,138	5,205	5,170	5,200	39,577	39,866	-0.7
Nonresidential	38,938	38,515	39,434	38,901	37,110	37,356	297,019	289,333	2.7
Lodging	2,571	2,536	2,626	2,645	2,598	2,405	20,088	18,514	8.5
Office	5,459	5,374	5,400	5,380	5,093	4,878	41,158	38,659	6.5
Commercial	7,817	7,724	7,781	7,711	7,359	7,622	58,176	55,610	4.6
Health care	2,770	2,639	2,768	2,803	2,671	2,883	21,443	21,177	1.3
Educational	1,856	1,871	1,988	1,941	1,730	1,760	14,059	13,732	2.4
Religious	265	248	247	254	273	313	1,969	2,263	-13.0
Amusement and recreation	1,302	1,263	1,246	1,219	1,193	1,183	9,542	9,061	5.3
Transportation	1,545	1,514	1,602	1,504	1,337	1,309	10,889	9,096	19.7
Communication	2,064	1,988	1,984	2,039	1,972	2,126	15,980	15,764	1.4
Power	7,705	7,886	8,183	8,226	7,949	7,294	61,983	61,336	1.1
Manufacturing	5,496	5,384	5,528	5,113	4,879	5,521	41,206	43,604	-5.5
Total Public Construction²	32,281	30,336	28,999	26,465	22,910	28,561	197,946	184,922	7.0
Residential	612	583	586	600	552	575	4,372	4,387	-0.3
Nonresidential	31,669	29,753	28,413	25,865	22,358	27,986	193,574	180,535	7.2
Office	918	801	849	863	760	719	6,234	5,239	19.0
Commercial	307	298	324	301	267	263	2,261	2,063	9.6
Health care	884	846	822	798	722	835	6,221	6,121	1.6
Educational	7,635	7,600	7,122	6,317	5,674	7,424	49,110	48,606	1.0
Public safety	851	784	796	774	730	745	5,920	5,220	13.4
Amusement and recreation	1,120	1,052	1,066	1,021	914	990	7,465	7,466	0.0
Transportation	3,283	3,231	3,132	2,930	2,765	2,665	22,598	19,501	15.9
Power	546	541	574	586	513	451	4,007	3,735	7.3
Highway and street	11,543	10,458	9,570	8,349	6,521	10,211	60,045	56,446	6.4
Sewage and waste disposal	2,109	1,952	1,968	1,866	1,710	1,890	14,227	12,969	9.7
Water supply	1,404	1,326	1,377	1,236	1,054	1,017	9,147	7,712	18.6
Conservation and development	866	743	688	677	584	640	5,219	4,530	15.2

^PPreliminary ^FRevised

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, October 1, 2018.

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	0.8	0.6	0.8	1.0	1.2
Residential	4.4	3.2	4.4	4.6	7.3
Nonresidential	0.8	0.6	0.8	1.0	1.2
Lodging	2.1	1.6	1.9	1.5	2.6
Office	2.1	1.5	2.2	1.1	2.7
Commercial	2.0	2.2	2.6	1.9	2.4
Health care	1.9	1.4	1.6	1.0	2.1
Educational	2.0	1.6	2.2	2.2	3.1
Religious	5.7	4.1	5.3	3.5	5.6
Public safety	3.7	2.2	3.1	3.6	5.2
Amusement and recreation	3.0	2.2	3.4	1.5	4.8
Transportation	1.4	1.2	2.3	1.7	3.8
Communication	NA	NA	NA	NA	NA
Power	0.4	0.3	0.4	0.2	0.6
Highway and street	3.3	2.0	2.9	4.2	5.0
Sewage and waste disposal	3.7	2.7	3.8	2.7	5.6
Water supply	4.6	3.4	5.1	4.6	8.4
Conservation and development	2.6	2.0	3.1	2.2	3.5
Manufacturing	1.1	1.0	0.9	1.1	1.3
Total Private Construction	0.7	0.7	0.8	0.6	0.9
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 multi-family	5.6	5.7	4.4	1.5	4.0
Nonresidential	0.7	0.7	0.8	0.6	0.9
Lodging	1.9	1.5	1.8	1.5	2.6
Office	2.3	1.5	1.8	1.3	2.4
Commercial	2.1	2.3	2.7	2.0	2.4
Health care	2.4	1.9	1.9	1.3	2.4
Educational	2.7	2.0	3.0	1.6	3.3
Religious	5.7	4.1	5.3	3.5	5.6
Amusement and recreation	3.0	2.2	3.2	1.3	3.6
Transportation	1.2	1.1	4.1	0.3	6.6
Communication	NA	NA	NA	NA	NA
Power	0.3	0.2	0.3	0.1	0.5
Manufacturing	1.1	1.0	0.9	1.1	1.3
Total Public Construction	1.3	0.9	1.4	1.7	2.3
Residential	4.3	3.2	4.4	4.6	7.3
Nonresidential	1.4	0.9	1.4	1.8	2.3
Office	3.9	4.1	13.7	2.1	14.7
Commercial	6.6	5.3	8.0	3.9	6.9
Health care	2.5	1.8	2.6	1.6	4.7
Educational	2.4	1.9	2.7	2.7	3.8
Public safety	3.7	2.2	3.1	3.7	5.2
Amusement and recreation	5.3	3.9	6.3	2.7	10.6
Transportation	1.9	1.6	2.6	2.2	4.4
Power	6.6	5.7	6.8	5.3	9.1
Highway and street	3.3	2.0	2.9	4.2	5.0
Sewage and waste disposal	3.7	2.8	3.8	2.7	5.6
Water supply	4.6	3.4	5.2	4.6	8.5
Conservation and development	2.6	2.0	3.1	2.2	3.5

NA Not applicable

Source: U.S. Census Bureau, Construction Spending, October 1, 2018. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>.