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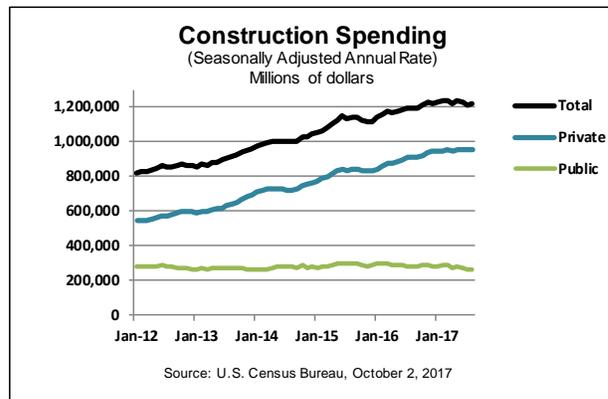
## MONTHLY CONSTRUCTION SPENDING, AUGUST 2017

Release Number: CB17-166

**Notice:** For information on the impact of Hurricanes Harvey and Irma on the compilation of this report, please see the [Frequently Asked Questions \(FAQs\) on our website](#).

**October 2, 2017** — The U.S. Census Bureau announced the following value put in place construction statistics for August 2017:

CONSTRUCTION SPENDING	
AUGUST 2017	\$1,218.3 billion
JULY 2017 (revised)	\$1,212.3 billion
Next release: November 1, 2017	
Seasonally Adjusted Annual Rate	
Source: U.S. Census Bureau, October 2, 2017	



### Total Construction

Construction spending during August 2017 was estimated at a seasonally adjusted annual rate of \$1,218.3 billion, 0.5 percent ( $\pm 1.3$  percent)\* above the revised July estimate of \$1,212.3 billion. The August figure is 2.5 percent ( $\pm 1.8$  percent) above the August 2016 estimate of \$1,189.1 billion. During the first 8 months of this year, construction spending amounted to \$806.2 billion, 4.7 percent ( $\pm 1.3$  percent) above the \$769.9 billion for the same period in 2016.

### Private Construction

Spending on private construction was at a seasonally adjusted annual rate of \$954.8 billion, 0.4 percent ( $\pm 1.2$  percent)\* above the revised July estimate of \$950.5 billion. Residential construction was at a seasonally adjusted annual rate of \$520.9 billion in August, 0.4 percent ( $\pm 1.3$  percent)\* above the revised July estimate of \$518.6 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$433.9 billion in August, 0.5 percent ( $\pm 1.2$  percent)\* above the revised July estimate of \$432.0 billion.

### Public Construction

In August, the estimated seasonally adjusted annual rate of public construction spending was \$263.5 billion, 0.7 percent ( $\pm 2.3$  percent)\* above the revised July estimate of \$261.7 billion. Educational construction was at a seasonally adjusted annual rate of \$67.3 billion, 3.5 percent ( $\pm 3.9$  percent)\* above the revised July estimate of \$65.0 billion. Highway construction was at a seasonally adjusted annual rate of \$81.9 billion, 1.3 percent ( $\pm 5.1$  percent)\* below the revised July estimate of \$83.0 billion.

#### Data Inquiries

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301-763-1605  
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#### Media Inquiries

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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU  
[census.gov](http://census.gov)

## General Information

The September 2017 Monthly Construction Spending Report is scheduled for release on November 1, 2017. View the full schedule in the Economic Briefing Room: <[www.census.gov/economic-indicators/](http://www.census.gov/economic-indicators/)>. The full text and tables for this release can be found at <[www.census.gov/constructionspending/](http://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 percent 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, 0.83 percent; private construction, 1.01 percent; and public construction, 1.09 percent.

Explanations of confidence intervals and sampling variability can be found on our website at <[www.census.gov/construction/c30/methodology.html/](http://www.census.gov/construction/c30/methodology.html/)>.

## 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 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 2017 <sup>P</sup>	Jul 2017 <sup>r</sup>	Jun 2017 <sup>r</sup>	May 2017	Apr 2017	Aug 2016	Percent change Aug 2017 from -	
							Jul 2017	Aug 2016
<b>Total Construction</b>	<b>1,218,312</b>	<b>1,212,277</b>	<b>1,226,429</b>	<b>1,236,722</b>	<b>1,217,658</b>	<b>1,189,057</b>	<b>0.5</b>	<b>2.5</b>
Residential	526,543	524,159	523,562	517,649	513,487	473,287	0.5	11.3
Nonresidential	691,769	688,118	702,867	719,073	704,171	715,771	0.5	-3.4
Lodging	28,465	27,657	27,992	28,888	27,279	27,282	2.9	4.3
Office	71,221	69,837	70,332	70,593	68,728	70,821	2.0	0.6
Commercial	85,432	85,517	88,241	88,580	86,034	77,826	-0.1	9.8
Health care	40,378	39,041	39,530	39,887	38,636	39,183	3.4	3.0
Educational	86,496	83,608	89,691	92,940	88,590	89,042	3.5	-2.9
Religious	3,251	3,177	3,335	3,401	3,163	3,678	2.3	-11.6
Public safety	8,302	7,851	7,670	8,128	7,975	7,676	5.7	8.2
Amusement and recreation	23,333	23,330	23,250	23,689	23,246	22,321	0.0	4.5
Transportation	41,774	40,949	42,192	43,365	42,445	39,702	2.0	5.2
Communication	23,047	23,112	23,308	21,752	22,136	21,801	-0.3	5.7
Power	101,073	100,551	99,830	101,323	98,589	109,828	0.5	-8.0
Highway and street	82,218	83,257	85,399	88,055	89,984	87,328	-1.2	-5.9
Sewage and waste disposal	18,241	18,481	18,837	18,975	18,847	22,024	-1.3	-17.2
Water supply	11,361	11,089	11,510	11,679	11,826	12,068	2.5	-5.9
Conservation and development	5,788	6,587	6,610	7,067	6,795	7,685	-12.1	-24.7
Manufacturing	61,390	64,075	65,140	70,751	69,898	77,504	-4.2	-20.8
<b>Total Private Construction<sup>1</sup></b>	<b>954,821</b>	<b>950,547</b>	<b>955,737</b>	<b>954,484</b>	<b>942,600</b>	<b>911,540</b>	<b>0.4</b>	<b>4.7</b>
Residential	520,912	518,591	517,710	511,357	507,841	466,559	0.4	11.6
New single family	263,732	262,951	261,904	260,433	260,738	237,288	0.3	11.1
New multi-family	62,343	61,784	62,522	62,617	64,553	60,965	0.9	2.3
Nonresidential	433,909	431,956	438,027	443,127	434,759	444,981	0.5	-2.5
Lodging	27,690	26,841	27,029	28,425	26,899	26,868	3.2	3.1
Office	62,726	61,937	62,225	61,990	61,179	62,608	1.3	0.2
Commercial	82,575	82,493	85,149	84,813	82,779	74,825	0.1	10.4
Health care	30,916	30,131	30,336	30,149	29,392	30,496	2.6	1.4
Educational	19,191	18,564	20,147	19,901	20,046	19,810	3.4	-3.1
Religious	3,251	3,177	3,335	3,401	3,163	3,678	2.3	-11.6
Amusement and recreation	13,573	13,114	13,093	12,994	12,776	12,359	3.5	9.8
Transportation	14,584	13,976	14,039	13,959	12,709	12,405	4.4	17.6
Communication	22,893	23,007	23,157	21,635	22,067	21,613	-0.5	5.9
Power	95,091	94,589	94,402	95,077	93,713	102,696	0.5	-7.4
Manufacturing	60,752	63,469	64,267	70,075	69,239	76,714	-4.3	-20.8
<b>Total Public Construction<sup>2</sup></b>	<b>263,491</b>	<b>261,730</b>	<b>270,693</b>	<b>282,238</b>	<b>275,058</b>	<b>277,518</b>	<b>0.7</b>	<b>-5.1</b>
Residential	5,630	5,568	5,852	6,292	5,646	6,728	1.1	-16.3
Nonresidential	257,860	256,162	264,840	275,946	269,412	270,790	0.7	-4.8
Office	8,495	7,900	8,107	8,603	7,549	8,214	7.5	3.4
Commercial	2,856	3,024	3,092	3,767	3,254	3,001	-5.6	-4.8
Health care	9,462	8,910	9,194	9,738	9,243	8,687	6.2	8.9
Educational	67,305	65,044	69,544	73,039	68,544	69,232	3.5	-2.8
Public safety	8,266	7,819	7,609	8,055	7,889	7,565	5.7	9.3
Amusement and recreation	9,760	10,216	10,157	10,695	10,471	9,961	-4.5	-2.0
Transportation	27,191	26,972	28,153	29,406	29,736	27,297	0.8	-0.4
Power	5,982	5,962	5,429	6,247	4,876	7,132	0.3	-16.1
Highway and street	81,930	83,005	85,111	87,857	89,770	87,136	-1.3	-6.0
Sewage and waste disposal	18,131	18,354	18,683	18,824	18,628	21,671	-1.2	-16.3
Water supply	11,144	10,863	11,186	11,419	11,573	11,906	2.6	-6.4
Conservation and development	5,772	6,565	6,588	7,039	6,771	7,596	-12.1	-24.0

<sup>P</sup>Preliminary <sup>r</sup>Revised

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

<sup>2</sup>Includes 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 2, 2017. 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](http://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 2017 <sup>P</sup>	Jul 2017 <sup>F</sup>	Jun 2017 <sup>F</sup>	May 2017	Apr 2017	Aug 2016	Year-to-date		
							Aug 2017	Aug 2016	Percent change
<b>Total Construction</b>	<b>112,837</b>	<b>111,609</b>	<b>112,282</b>	<b>106,360</b>	<b>98,545</b>	<b>110,020</b>	<b>806,166</b>	<b>769,873</b>	<b>4.7</b>
Residential	48,861	49,839	49,081	45,108	42,813	43,568	345,231	307,350	12.3
Nonresidential	63,976	61,769	63,201	61,251	55,732	66,452	460,935	462,524	-0.3
Lodging	2,434	2,317	2,374	2,480	2,254	2,337	18,411	17,362	6.0
Office	6,223	5,935	6,030	6,031	5,556	6,187	46,216	42,387	9.0
Commercial	7,632	7,413	7,759	7,639	7,098	7,000	56,245	48,715	15.5
Health care	3,527	3,284	3,413	3,410	3,147	3,389	25,857	25,457	1.6
Educational	8,830	8,554	8,930	7,930	6,980	9,079	60,644	60,404	0.4
Religious	307	275	290	281	245	343	2,113	2,325	-9.1
Public safety	732	645	669	676	642	669	5,166	5,147	0.4
Amusement and recreation	2,062	2,039	2,021	2,062	1,920	1,978	15,407	14,589	5.6
Transportation	3,771	3,609	3,822	3,759	3,426	3,664	27,387	27,653	-1.0
Communication	2,032	1,896	2,027	1,777	1,695	1,913	14,552	13,732	6.0
Power	8,311	8,320	8,476	8,480	7,989	9,026	65,861	68,816	-4.3
Highway and street	9,618	8,875	8,541	7,618	6,284	10,291	54,855	57,389	-4.4
Sewage and waste disposal	1,693	1,639	1,693	1,633	1,507	2,059	12,326	15,354	-19.7
Water supply	1,006	968	1,016	992	973	1,079	7,384	8,270	-10.7
Conservation and development	508	539	559	575	516	677	4,337	4,938	-12.2
Manufacturing	5,291	5,461	5,584	5,909	5,502	6,763	44,174	49,987	-11.6
<b>Total Private Construction<sup>1</sup></b>	<b>85,870</b>	<b>86,097</b>	<b>86,408</b>	<b>82,288</b>	<b>77,518</b>	<b>81,527</b>	<b>627,797</b>	<b>581,548</b>	<b>8.0</b>
Residential	48,361	49,358	48,552	44,558	42,339	42,966	341,289	303,058	12.6
New single family	24,640	24,251	23,331	22,146	21,158	22,192	170,464	157,283	8.4
New multi-family	5,497	5,081	5,452	5,327	5,480	5,431	41,870	39,893	5.0
Nonresidential	37,509	36,739	37,856	37,730	35,179	38,561	286,508	278,490	2.9
Lodging	2,370	2,249	2,293	2,442	2,222	2,302	18,037	17,044	5.8
Office	5,477	5,273	5,320	5,284	4,953	5,468	40,865	37,222	9.8
Commercial	7,373	7,158	7,475	7,316	6,839	6,727	54,182	46,667	16.1
Health care	2,712	2,534	2,612	2,603	2,388	2,646	19,799	19,895	-0.5
Educational	1,764	1,712	1,919	1,818	1,677	1,836	13,679	13,129	4.2
Religious	307	275	290	281	245	343	2,113	2,325	-9.1
Amusement and recreation	1,155	1,137	1,098	1,112	1,054	1,057	8,472	7,694	10.1
Transportation	1,267	1,243	1,298	1,257	1,029	1,120	8,820	8,576	2.8
Communication	2,019	1,887	2,014	1,767	1,689	1,897	14,476	13,617	6.3
Power	7,770	7,805	7,951	7,935	7,575	8,386	61,846	62,110	-0.4
Manufacturing	5,238	5,411	5,511	5,853	5,447	6,697	43,712	49,540	-11.8
<b>Total Public Construction<sup>2</sup></b>	<b>26,966</b>	<b>25,511</b>	<b>25,874</b>	<b>24,071</b>	<b>21,027</b>	<b>28,493</b>	<b>178,369</b>	<b>188,325</b>	<b>-5.3</b>
Residential	500	481	529	550	474	602	3,942	4,292	-8.2
Nonresidential	26,467	25,030	25,346	23,521	20,553	27,891	174,427	184,034	-5.2
Office	746	662	710	747	603	719	5,351	5,165	3.6
Commercial	258	255	284	323	259	273	2,063	2,048	0.7
Health care	816	749	801	807	758	743	6,058	5,562	8.9
Educational	7,066	6,842	7,011	6,112	5,303	7,243	46,966	47,275	-0.7
Public safety	729	643	664	669	635	660	5,119	5,080	0.8
Amusement and recreation	907	902	923	950	866	921	6,935	6,896	0.6
Transportation	2,504	2,366	2,524	2,501	2,397	2,544	18,567	19,077	-2.7
Power	541	515	525	546	414	640	4,015	6,706	-40.1
Highway and street	9,592	8,853	8,516	7,601	6,269	10,273	54,695	57,195	-4.4
Sewage and waste disposal	1,684	1,629	1,679	1,619	1,489	2,027	12,208	15,107	-19.2
Water supply	988	951	988	970	954	1,063	7,218	8,157	-11.5
Conservation and development	507	538	557	572	514	670	4,320	4,884	-11.5

<sup>P</sup>Preliminary <sup>F</sup>Revised

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

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

Source: U.S. Census Bureau, Construction Spending, October 2, 2017.

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](http://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
<b>Total Construction</b>	<b>0.9</b>	<b>0.6</b>	<b>0.8</b>	<b>0.8</b>	<b>1.1</b>
Residential	5.7	4.8	4.3	2.2	3.8
Nonresidential	0.9	0.6	0.8	0.8	1.1
Lodging	2.0	1.4	1.9	1.8	2.7
Office	2.4	1.4	1.9	1.4	1.8
Commercial	2.7	2.5	2.7	2.1	2.4
Health care	1.9	1.4	2.2	1.3	2.5
Educational	1.9	1.4	1.9	2.0	2.5
Religious	7.0	5.2	6.7	4.9	7.6
Public safety	3.0	2.3	3.1	3.1	4.7
Amusement and recreation	3.6	2.5	3.4	1.9	3.8
Transportation	1.7	1.7	2.0	4.1	2.6
Communication	NA	NA	NA	NA	NA
Power	0.3	0.3	0.3	0.2	0.3
Highway and street	3.8	2.2	3.1	3.1	4.6
Sewage and waste disposal	3.8	2.9	2.9	3.4	4.4
Water supply	4.6	3.1	3.7	4.4	5.4
Conservation and development	4.1	2.5	3.0	2.8	3.3
Manufacturing	0.8	0.6	0.7	0.9	1.0
<b>Total Private Construction</b>	<b>0.9</b>	<b>0.7</b>	<b>0.8</b>	<b>0.7</b>	<b>0.8</b>
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	5.2	4.8	5.1	2.1	5.3
Nonresidential	0.9	0.7	0.8	0.7	0.8
Lodging	2.0	1.4	1.9	1.7	2.7
Office	2.7	1.6	2.1	1.4	1.9
Commercial	2.8	2.6	2.8	2.2	2.5
Health care	2.4	1.7	2.6	1.6	2.9
Educational	2.9	2.4	3.1	2.2	3.3
Religious	7.0	5.2	6.7	4.9	7.6
Amusement and recreation	3.1	2.4	3.7	2.3	4.7
Transportation	3.0	2.6	4.4	0.9	8.5
Communication	NA	NA	NA	NA	NA
Power	0.2	0.3	0.3	0.1	0.2
Manufacturing	0.8	0.6	0.7	0.9	1.1
<b>Total Public Construction</b>	<b>1.5</b>	<b>0.9</b>	<b>1.3</b>	<b>1.4</b>	<b>2.0</b>
Residential	5.7	4.8	4.3	2.2	3.8
Nonresidential	1.5	0.9	1.3	1.4	2.0
Office	3.3	2.2	3.1	4.5	5.9
Commercial	6.6	6.1	10.2	7.7	6.6
Health care	2.8	2.3	3.1	1.5	4.4
Educational	2.2	1.7	2.3	2.4	3.0
Public safety	3.0	2.3	3.1	3.1	4.8
Amusement and recreation	6.9	4.7	5.6	2.9	5.9
Transportation	2.0	1.9	2.1	4.7	2.7
Power	4.4	5.1	2.6	3.5	5.0
Highway and street	3.9	2.2	3.1	3.1	4.6
Sewage and waste disposal	3.8	2.9	2.9	3.4	4.5
Water supply	4.6	3.1	3.6	4.5	5.5
Conservation and development	4.1	2.5	3.0	2.8	3.4

NA Not applicable

Source: U.S. Census Bureau, Construction Spending, October 2, 2017. Additional information on the survey methodology may be found at [www.census.gov/construction/c30/meth.html](http://www.census.gov/construction/c30/meth.html).