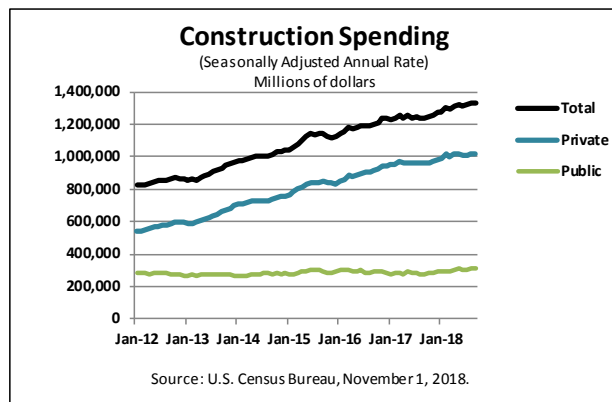
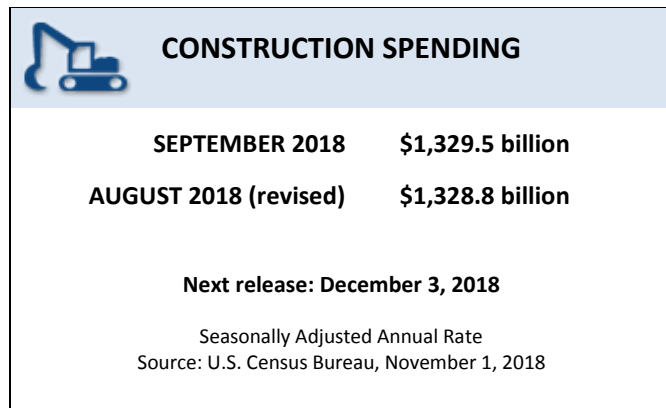


## MONTHLY CONSTRUCTION SPENDING, SEPTEMBER 2018

Release Number: CB18-168

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



### Total Construction

Construction spending during September 2018 was estimated at a seasonally adjusted annual rate of \$1,329.5 billion, nearly the same as ( $\pm 1.5$  percent)\* the revised August estimate of \$1,328.8 billion. The September figure is 7.2 percent ( $\pm 1.8$  percent) above the September 2017 estimate of \$1,240.4 billion. During the first nine months of this year, construction spending amounted to \$982.9 billion, 5.5 percent ( $\pm 1.2$  percent) above the \$931.3 billion for the same period in 2017.

### Private Construction

Spending on private construction was at a seasonally adjusted annual rate of \$1,020.4 billion, 0.3 percent ( $\pm 1.0$  percent)\* above the revised August estimate of \$1,016.9 billion. Residential construction was at a seasonally adjusted annual rate of \$556.4 billion in September, 0.6 percent ( $\pm 1.3$  percent)\* above the revised August estimate of \$553.4 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$463.9 billion in September, 0.1 percent ( $\pm 1.0$  percent)\* above the revised August estimate of \$463.5 billion.

### Public Construction

In September, the estimated seasonally adjusted annual rate of public construction spending was \$309.1 billion, 0.9 percent ( $\pm 2.6$  percent)\* below the revised August estimate of \$312.0 billion. Educational construction was at a seasonally adjusted annual rate of \$74.6 billion, 1.2 percent ( $\pm 3.1$  percent)\* above the revised August estimate of \$73.7 billion. Highway construction was at a seasonally adjusted annual rate of \$95.2 billion, 1.1 percent ( $\pm 6.9$  percent)\* below the revised August estimate of \$96.2 billion.

#### Data Inquiries

Economic Indicator Division, Construction Expenditures Branch  
301-763-1605  
[eid.ceb.customer.service@census.gov](mailto:eid.ceb.customer.service@census.gov)

#### Media Inquiries

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301-763-3030  
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The October 2018 Monthly Construction Spending Report is scheduled for release on December 3, 2018. 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 (±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/](http://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/](http://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.

#### Data Inquiries

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[eid.ceb.customer.service@census.gov](mailto:eid.ceb.customer.service@census.gov)

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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU  
[census.gov](http://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	Sep 2018 <sup>p</sup>	Aug 2018 <sup>r</sup>	Jul 2018 <sup>r</sup>	Jun 2018	May 2018	Sep 2017	Percent change Sep 2018 from -	
							Aug 2018	Sep 2017
<b>Total Construction</b>	<b>1,329,452</b>	<b>1,328,848</b>	<b>1,317,701</b>	<b>1,314,788</b>	<b>1,324,347</b>	<b>1,240,443</b>	<b>0.0</b>	<b>7.2</b>
Residential	562,322	559,711	561,839	558,134	568,812	536,026	0.5	4.9
Nonresidential	767,131	769,137	755,862	756,654	755,535	704,417	-0.3	8.9
Lodging	33,290	32,243	31,602	31,573	31,712	28,695	3.2	16.0
Office	73,322	73,877	72,778	72,518	72,997	64,995	-0.8	12.8
Commercial	91,665	93,074	91,317	92,985	93,120	86,935	-1.5	5.4
Health care	42,556	42,266	41,523	41,913	42,195	41,882	0.7	1.6
Educational	96,474	94,928	90,955	91,303	96,265	88,499	1.6	9.0
Religious	2,897	2,959	2,854	2,844	3,031	3,356	-2.1	-13.7
Public safety	9,537	9,722	9,420	9,437	9,315	8,325	-1.9	14.6
Amusement and recreation	27,996	28,019	27,859	26,587	25,376	24,701	-0.1	13.3
Transportation	53,668	53,769	53,387	52,848	50,941	46,104	-0.2	16.4
Communication	24,093	24,284	24,215	24,447	24,691	24,666	-0.8	-2.3
Power	101,564	103,460	103,037	103,148	104,319	93,574	-1.8	8.5
Highway and street	95,323	96,397	95,749	95,934	95,473	87,829	-1.1	8.5
Sewage and waste disposal	22,253	21,937	21,755	22,536	22,063	20,348	1.4	9.4
Water supply	14,817	14,940	14,691	15,377	14,488	11,308	-0.8	31.0
Conservation and development	9,479	9,624	9,212	8,484	8,279	7,605	-1.5	24.6
Manufacturing	68,199	67,640	65,509	64,722	61,272	65,595	0.8	4.0
<b>Total Private Construction<sup>1</sup></b>	<b>1,020,358</b>	<b>1,016,890</b>	<b>1,012,557</b>	<b>1,009,424</b>	<b>1,016,843</b>	<b>962,008</b>	<b>0.3</b>	<b>6.1</b>
Residential	556,424	553,372	555,356	551,668	561,940	529,404	0.6	5.1
New single family	283,238	285,528	287,062	288,162	288,944	274,695	-0.8	3.1
New multifamily	64,228	59,078	59,928	59,351	60,682	59,370	8.7	8.2
Nonresidential	463,934	463,518	457,201	457,756	454,903	432,604	0.1	7.2
Lodging	31,994	30,859	30,673	30,702	30,535	27,831	3.7	15.0
Office	64,261	63,729	63,308	62,728	63,090	56,670	0.8	13.4
Commercial	88,122	89,738	87,806	89,395	89,654	84,023	-1.8	4.9
Health care	33,307	32,796	32,095	32,443	32,611	33,390	1.6	-0.2
Educational	21,909	21,221	20,668	20,904	21,253	20,639	3.2	6.2
Religious	2,897	2,959	2,854	2,844	3,031	3,356	-2.1	-13.7
Amusement and recreation	15,333	15,380	15,156	14,687	14,194	14,097	-0.3	8.8
Transportation	17,929	17,689	17,517	17,486	16,626	15,073	1.4	18.9
Communication	23,817	23,954	24,152	24,376	24,619	24,567	-0.6	-3.1
Power	95,526	97,032	96,760	97,134	97,796	87,461	-1.6	9.2
Manufacturing	67,774	67,066	65,111	64,168	60,770	64,890	1.1	4.4
<b>Total Public Construction<sup>2</sup></b>	<b>309,094</b>	<b>311,959</b>	<b>305,144</b>	<b>305,364</b>	<b>307,504</b>	<b>278,435</b>	<b>-0.9</b>	<b>11.0</b>
Residential	5,897	6,339	6,483	6,466	6,873	6,622	-7.0	-10.9
Nonresidential	303,197	305,620	298,661	298,898	300,632	271,813	-0.8	11.5
Office	9,060	10,148	9,470	9,790	9,906	8,325	-10.7	8.8
Commercial	3,543	3,335	3,511	3,590	3,466	2,912	6.2	21.7
Health care	9,249	9,470	9,428	9,469	9,584	8,492	-2.3	8.9
Educational	74,565	73,708	70,287	70,400	75,012	67,860	1.2	9.9
Public safety	9,391	9,566	9,252	9,287	9,228	8,242	-1.8	13.9
Amusement and recreation	12,664	12,639	12,703	11,900	11,182	10,604	0.2	19.4
Transportation	35,739	36,080	35,870	35,361	34,315	31,030	-0.9	15.2
Power	6,038	6,429	6,277	6,014	6,523	6,114	-6.1	-1.2
Highway and street	95,170	96,209	95,496	95,778	95,283	87,643	-1.1	8.6
Sewage and waste disposal	21,712	21,506	21,332	22,166	21,784	20,189	1.0	7.5
Water supply	14,610	14,638	14,452	15,182	14,343	11,147	-0.2	31.1
Conservation and development	9,461	9,605	9,192	8,464	8,256	7,587	-1.5	24.7

<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, November 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](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	Sep 2018 <sup>p</sup>	Aug 2018 <sup>r</sup>	Jul 2018 <sup>r</sup>	Jun 2018	May 2018	Sep 2017	Year-to-date		
							Sep 2018	Sep 2017	Percent change
<b>Total Construction</b>	<b>119,719</b>	<b>123,279</b>	<b>120,897</b>	<b>118,720</b>	<b>114,797</b>	<b>112,515</b>	<b>982,880</b>	<b>931,253</b>	<b>5.5</b>
Residential	49,990	51,942	52,728	50,873	50,032	48,131	421,927	397,000	6.3
Nonresidential	69,729	71,337	68,170	67,847	64,765	64,384	560,953	534,252	5.0
Lodging	2,811	2,733	2,659	2,699	2,743	2,443	23,679	21,335	11.0
Office	6,478	6,391	6,212	6,249	6,243	5,782	53,920	49,680	8.5
Commercial	8,171	8,327	7,944	8,105	8,013	7,799	68,733	65,472	5.0
Health care	3,741	3,689	3,474	3,591	3,601	3,701	31,430	30,999	1.4
Educational	8,564	9,727	9,328	9,110	8,258	7,857	71,825	70,196	2.3
Religious	276	283	246	247	254	326	2,261	2,589	-12.7
Public safety	890	860	772	810	782	791	6,863	6,078	12.9
Amusement and recreation	2,455	2,501	2,431	2,312	2,240	2,155	19,657	18,682	5.2
Transportation	4,844	4,847	4,722	4,734	4,434	4,176	38,328	32,772	17.0
Communication	1,993	2,046	1,993	1,990	2,045	2,095	18,021	17,952	0.4
Power	8,467	8,510	8,495	8,757	8,812	7,820	74,785	72,891	2.6
Highway and street	10,670	11,269	10,370	9,584	8,366	10,000	70,447	66,577	5.8
Sewage and waste disposal	2,072	2,049	1,921	2,001	1,894	1,890	16,318	15,033	8.5
Water supply	1,329	1,336	1,301	1,394	1,248	1,013	10,460	8,857	18.1
Conservation and development	954	876	766	690	679	766	6,217	5,311	17.1
Manufacturing	6,017	5,894	5,535	5,575	5,155	5,770	48,009	49,830	-3.7
<b>Total Private Construction<sup>1</sup></b>	<b>89,472</b>	<b>91,392</b>	<b>90,978</b>	<b>89,721</b>	<b>88,332</b>	<b>85,024</b>	<b>755,498</b>	<b>718,840</b>	<b>5.1</b>
Residential	49,462	51,377	52,160	50,287	49,431	47,529	417,090	392,011	6.4
New single family	26,230	26,608	26,468	25,692	24,631	25,493	214,279	199,718	7.3
New multifamily	5,403	5,160	4,923	5,138	5,205	5,024	44,972	44,889	0.2
Nonresidential	40,009	40,015	38,818	39,434	38,901	37,496	338,408	326,829	3.5
Lodging	2,703	2,617	2,581	2,626	2,645	2,371	22,882	20,885	9.6
Office	5,659	5,492	5,412	5,400	5,380	5,011	46,888	43,670	7.4
Commercial	7,824	8,027	7,650	7,781	7,711	7,513	66,137	63,123	4.8
Health care	2,924	2,863	2,684	2,768	2,803	2,943	24,506	24,120	1.6
Educational	1,818	1,942	1,892	1,988	1,941	1,704	15,983	15,436	3.5
Religious	276	283	246	247	254	326	2,261	2,589	-12.7
Amusement and recreation	1,286	1,342	1,298	1,246	1,219	1,192	10,904	10,253	6.3
Transportation	1,546	1,544	1,517	1,602	1,504	1,312	12,437	10,408	19.5
Communication	1,970	2,019	1,988	1,984	2,039	2,087	17,906	17,851	0.3
Power	7,923	7,940	7,953	8,183	8,226	7,269	70,209	68,605	2.3
Manufacturing	5,982	5,846	5,502	5,528	5,113	5,712	47,655	49,315	-3.4
<b>Total Public Construction<sup>2</sup></b>	<b>30,247</b>	<b>31,887</b>	<b>29,920</b>	<b>28,999</b>	<b>26,465</b>	<b>27,491</b>	<b>227,382</b>	<b>212,413</b>	<b>7.0</b>
Residential	528	565	568	586	600	603	4,837	4,990	-3.1
Nonresidential	29,720	31,322	29,352	28,413	25,865	26,888	222,545	207,423	7.3
Office	819	899	800	849	863	771	7,032	6,010	17.0
Commercial	347	300	294	324	301	286	2,596	2,349	10.5
Health care	816	826	790	822	798	758	6,924	6,879	0.7
Educational	6,746	7,785	7,436	7,122	6,317	6,153	55,842	54,760	2.0
Public safety	878	848	759	796	774	784	6,770	6,004	12.8
Amusement and recreation	1,168	1,158	1,134	1,066	1,021	963	8,754	8,429	3.9
Transportation	3,297	3,304	3,205	3,132	2,930	2,863	25,891	22,364	15.8
Power	544	570	542	574	586	551	4,576	4,286	6.8
Highway and street	10,655	11,251	10,347	9,570	8,349	9,981	70,297	66,427	5.8
Sewage and waste disposal	2,020	2,010	1,884	1,968	1,866	1,875	16,082	14,845	8.3
Water supply	1,311	1,307	1,280	1,377	1,236	999	10,316	8,711	18.4
Conservation and development	952	874	764	688	677	765	6,201	5,294	17.1

<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.

Source: U.S. Census Bureau, Construction Spending, November 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](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>0.8</b>	<b>0.5</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>
Residential	4.2	3.2	4.1	2.3	4.4
Nonresidential	0.8	0.5	0.7	0.9	1.1
Lodging	2.0	1.5	1.9	1.0	2.8
Office	2.1	1.4	2.1	1.8	2.6
Commercial	2.0	2.1	2.5	1.5	2.0
Health care	1.8	1.4	1.6	0.9	2.5
Educational	2.0	1.5	2.1	1.6	2.6
Religious	5.6	4.0	5.1	3.4	6.2
Public safety	3.7	2.1	3.0	2.0	4.0
Amusement and recreation	2.9	2.0	3.2	1.5	3.5
Transportation	1.4	1.2	2.2	1.1	2.6
Communication	NA	NA	NA	NA	NA
Power	0.4	0.3	0.4	0.3	0.6
Highway and street	3.3	1.9	2.9	4.2	4.8
Sewage and waste disposal	3.7	2.7	3.6	2.5	4.9
Water supply	4.6	3.2	4.7	3.9	7.6
Conservation and development	2.5	1.9	3.0	1.4	3.6
Manufacturing	1.1	0.9	0.9	0.7	1.2
<b>Total Private Construction</b>	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.9</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 multifamily	5.6	5.7	4.5	1.6	4.5
Nonresidential	0.7	0.6	0.7	0.6	0.9
Lodging	1.8	1.5	1.9	1.0	2.8
Office	2.3	1.5	1.8	2.1	2.9
Commercial	2.1	2.2	2.6	1.5	2.1
Health care	2.2	1.8	1.9	1.1	2.9
Educational	2.6	1.9	2.9	2.0	3.8
Religious	5.6	4.0	5.1	3.4	6.2
Amusement and recreation	2.9	2.0	3.1	1.4	3.0
Transportation	1.1	1.1	3.9	0.6	5.9
Communication	NA	NA	NA	NA	NA
Power	0.3	0.3	0.4	0.1	0.5
Manufacturing	1.1	0.9	0.9	0.7	1.2
<b>Total Public Construction</b>	<b>1.3</b>	<b>0.9</b>	<b>1.3</b>	<b>1.6</b>	<b>2.1</b>
Residential	4.2	3.2	4.1	2.3	4.4
Nonresidential	1.4	0.9	1.4	1.6	2.1
Office	4.0	3.9	12.2	2.4	4.0
Commercial	6.7	5.2	7.7	3.6	9.8
Health care	2.5	1.8	2.5	1.7	3.4
Educational	2.4	1.9	2.6	1.9	3.2
Public safety	3.8	2.2	3.0	2.0	4.0
Amusement and recreation	5.1	3.7	6.1	2.7	7.6
Transportation	1.9	1.5	2.5	1.4	2.9
Power	6.8	5.3	6.9	8.3	7.8
Highway and street	3.3	1.9	2.9	4.2	4.8
Sewage and waste disposal	3.7	2.7	3.6	2.5	4.8
Water supply	4.7	3.3	4.8	4.0	7.7
Conservation and development	2.5	1.9	3.0	1.4	3.6

NA Not applicable

Source: U.S. Census Bureau, Construction Spending, November 1, 2018. 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)