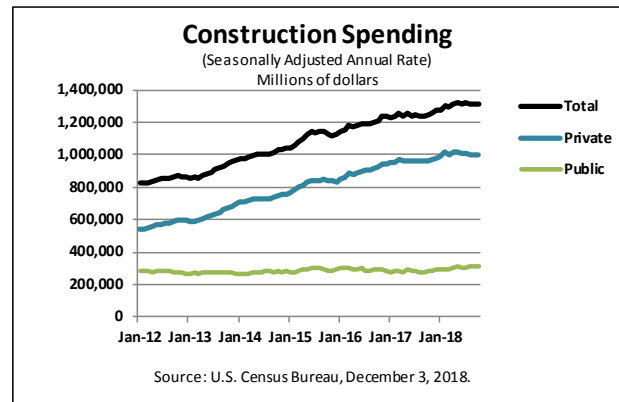


MONTHLY CONSTRUCTION SPENDING, OCTOBER 2018

Release Number: CB18-182

December 3, 2018 — The U.S. Census Bureau announced the following value put in place construction statistics for October 2018:

CONSTRUCTION SPENDING	
OCTOBER 2018	\$1,308.8 billion
SEPTEMBER 2018 (revised)	\$1,310.8 billion
Next release: January 3, 2019	
Seasonally Adjusted Annual Rate	
Source: U.S. Census Bureau, December 3, 2018	



Total Construction

Construction spending during October 2018 was estimated at a seasonally adjusted annual rate of \$1,308.8 billion, 0.1 percent (± 1.5 percent)* below the revised September estimate of \$1,310.8 billion. The October figure is 4.9 percent (± 1.6 percent) above the October 2017 estimate of \$1,247.5 billion. During the first ten months of this year, construction spending amounted to \$1,096.4 billion, 5.1 percent (± 1.2 percent) above the \$1,043.6 billion for the same period in 2017.

Private Construction

Spending on private construction was at a seasonally adjusted annual rate of \$998.7 billion, 0.4 percent (± 0.8 percent)* below the revised September estimate of \$1,003.0 billion. Residential construction was at a seasonally adjusted annual rate of \$539.0 billion in October, 0.5 percent (± 1.3 percent)* below the revised September estimate of \$541.7 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$459.7 billion in October, 0.3 percent (± 0.8 percent)* below the revised September estimate of \$461.3 billion.

Public Construction

In October, the estimated seasonally adjusted annual rate of public construction spending was \$310.2 billion, 0.8 percent (± 2.6 percent)* above the revised September estimate of \$307.8 billion. Educational construction was at a seasonally adjusted annual rate of \$76.9 billion, 2.6 percent (± 2.3 percent)* above the revised September estimate of \$75.0 billion. Highway construction was at a seasonally adjusted annual rate of \$94.6 billion, 0.1 percent (± 6.9 percent)* below the revised September estimate of \$94.6 billion.

Data Inquiries

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The November 2018 Monthly Construction Spending Report is scheduled for release on January 3, 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 (\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	Oct 2018 ^p	Sep 2018 ^f	Aug 2018 ^f	Jul 2018	Jun 2018	Oct 2017	Percent change Oct 2018 from -	
							Sep 2018	Oct 2017
Total Construction	1,308,848	1,310,806	1,311,824	1,317,701	1,314,788	1,247,531	-0.1	4.9
Residential	545,066	547,638	547,452	561,839	558,134	535,936	-0.5	1.7
Nonresidential	763,782	763,168	764,372	755,862	756,654	711,595	0.1	7.3
Lodging	34,335	33,824	32,536	31,602	31,573	28,868	1.5	18.9
Office	76,024	73,569	73,778	72,778	72,518	66,235	3.3	14.8
Commercial	88,686	88,886	88,335	91,317	92,985	87,330	-0.2	1.6
Health care	42,400	42,418	42,155	41,523	41,913	42,811	0.0	-1.0
Educational	98,891	96,805	94,419	90,955	91,303	90,743	2.2	9.0
Religious	2,960	2,886	2,907	2,854	2,844	3,255	2.6	-9.1
Public safety	9,547	9,223	9,510	9,420	9,437	8,655	3.5	10.3
Amusement and recreation	27,877	27,905	27,886	27,859	26,587	23,985	-0.1	16.2
Transportation	53,458	54,024	53,898	53,387	52,848	47,516	-1.0	12.5
Communication	23,863	24,011	24,187	24,215	24,447	25,027	-0.6	-4.7
Power	99,357	101,564	103,578	103,037	103,148	91,432	-2.2	8.7
Highway and street	94,790	94,851	96,808	95,749	95,934	90,100	-0.1	5.2
Sewage and waste disposal	22,222	22,483	22,347	21,755	22,536	20,651	-1.2	7.6
Water supply	14,165	13,971	14,837	14,691	15,377	11,513	1.4	23.0
Conservation and development	8,105	8,866	9,492	9,212	8,484	8,067	-8.6	0.5
Manufacturing	67,102	67,882	67,697	65,509	64,722	65,409	-1.1	2.6
Total Private Construction¹	998,692	1,002,969	999,219	1,012,557	1,009,424	961,630	-0.4	3.9
Residential	538,958	541,650	540,912	555,356	551,668	529,523	-0.5	1.8
New single family	282,611	284,172	285,920	287,062	288,162	275,868	-0.5	2.4
New multifamily	62,035	61,439	57,371	59,928	59,351	60,119	1.0	3.2
Nonresidential	459,733	461,318	458,307	457,201	457,756	432,106	-0.3	6.4
Lodging	32,947	32,421	30,966	30,673	30,702	27,993	1.6	17.7
Office	66,436	64,469	63,441	63,308	62,728	57,110	3.1	16.3
Commercial	84,714	85,257	84,908	87,806	89,395	84,187	-0.6	0.6
Health care	32,885	33,178	32,931	32,095	32,443	33,125	-0.9	-0.7
Educational	21,989	21,832	20,658	20,668	20,904	20,316	0.7	8.2
Religious	2,944	2,886	2,907	2,854	2,844	3,255	2.0	-9.6
Amusement and recreation	15,006	15,254	15,230	15,156	14,687	13,942	-1.6	7.6
Transportation	17,542	17,698	17,529	17,517	17,486	16,273	-0.9	7.8
Communication	23,650	23,726	23,885	24,152	24,376	24,898	-0.3	-5.0
Power	93,639	95,945	97,568	96,760	97,134	85,608	-2.4	9.4
Manufacturing	66,768	67,433	67,113	65,111	64,168	64,788	-1.0	3.1
Total Public Construction²	310,156	307,837	312,605	305,144	305,364	285,901	0.8	8.5
Residential	6,108	5,988	6,540	6,483	6,466	6,413	2.0	-4.8
Nonresidential	304,049	301,850	306,065	298,661	298,898	279,488	0.7	8.8
Office	9,588	9,101	10,338	9,470	9,790	9,125	5.4	5.1
Commercial	3,972	3,629	3,427	3,511	3,590	3,143	9.5	26.4
Health care	9,516	9,240	9,224	9,428	9,469	9,686	3.0	-1.8
Educational	76,902	74,973	73,761	70,287	70,400	70,427	2.6	9.2
Public safety	9,416	9,086	9,363	9,252	9,287	8,563	3.6	10.0
Amusement and recreation	12,871	12,652	12,656	12,703	11,900	10,043	1.7	28.2
Transportation	35,916	36,326	36,369	35,870	35,361	31,242	-1.1	15.0
Power	5,718	5,619	6,010	6,277	6,014	5,824	1.8	-1.8
Highway and street	94,556	94,614	96,565	95,496	95,778	89,884	-0.1	5.2
Sewage and waste disposal	21,678	21,860	21,890	21,332	22,166	20,508	-0.8	5.7
Water supply	13,879	13,766	14,533	14,452	15,182	11,359	0.8	22.2
Conservation and development	8,088	8,847	9,473	9,192	8,464	8,060	-8.6	0.3

^p Preliminary ^f 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, December 3, 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	Oct 2018 ^p	Sep 2018 ^r	Aug 2018 ^r	Jul 2018	Jun 2018	Oct 2017	Year-to-date		
							Oct 2018	Oct 2017	Percent change
Total Construction	117,333	117,898	121,262	120,897	118,720	112,306	1,096,375	1,043,559	5.1
Residential	48,616	48,460	50,331	52,728	50,873	48,538	467,402	445,538	4.9
Nonresidential	68,717	69,438	70,931	68,170	67,847	63,768	628,973	598,021	5.2
Lodging	2,940	2,858	2,752	2,659	2,699	2,472	26,686	23,807	12.1
Office	6,654	6,480	6,354	6,212	6,249	5,768	60,539	55,448	9.2
Commercial	7,924	7,919	7,884	7,944	8,105	7,855	75,963	73,327	3.6
Health care	3,703	3,723	3,680	3,474	3,591	3,720	35,106	34,718	1.1
Educational	8,183	8,561	9,673	9,328	9,110	7,451	79,952	77,647	3.0
Religious	279	271	274	246	247	294	2,526	2,883	-12.4
Public safety	848	855	837	772	810	751	7,653	6,829	12.1
Amusement and recreation	2,452	2,434	2,493	2,431	2,312	2,137	22,081	20,820	6.1
Transportation	4,882	4,898	4,867	4,722	4,734	4,335	43,285	37,107	16.6
Communication	2,087	1,994	2,044	1,993	1,990	2,227	20,106	20,179	-0.4
Power	8,594	8,495	8,533	8,495	8,757	7,901	83,430	80,792	3.3
Highway and street	10,212	10,724	11,310	10,370	9,584	9,513	80,753	76,089	6.1
Sewage and waste disposal	2,110	2,095	2,097	1,921	2,001	1,969	18,499	17,002	8.8
Water supply	1,283	1,254	1,331	1,301	1,394	1,046	11,662	9,903	17.8
Conservation and development	688	888	871	766	690	686	6,835	5,997	14.0
Manufacturing	5,878	5,988	5,931	5,535	5,575	5,644	53,896	55,474	-2.8
Total Private Construction¹	88,295	87,709	89,298	90,978	89,721	85,767	839,936	804,607	4.4
Residential	48,079	47,922	49,742	52,160	50,287	47,961	461,993	439,972	5.0
New single family	25,579	26,340	26,652	26,468	25,692	25,001	240,012	224,718	6.8
New multifamily	5,442	5,163	5,011	4,923	5,138	5,232	50,026	50,121	-0.2
Nonresidential	40,216	39,787	39,556	38,818	39,434	37,805	377,943	364,634	3.6
Lodging	2,825	2,742	2,621	2,581	2,626	2,399	25,750	23,284	10.6
Office	5,810	5,654	5,438	5,412	5,400	4,993	52,640	48,663	8.2
Commercial	7,583	7,569	7,577	7,650	7,781	7,599	73,015	70,722	3.2
Health care	2,893	2,913	2,881	2,684	2,768	2,916	27,406	27,036	1.4
Educational	1,807	1,804	1,883	1,892	1,988	1,654	17,718	17,090	3.7
Religious	278	271	274	246	247	294	2,525	2,883	-12.4
Amusement and recreation	1,301	1,276	1,336	1,298	1,246	1,204	12,187	11,457	6.4
Transportation	1,587	1,531	1,533	1,517	1,602	1,481	13,998	11,889	17.7
Communication	2,069	1,970	2,019	1,988	1,984	2,216	19,974	20,067	-0.5
Power	8,102	7,993	8,005	7,953	8,183	7,403	78,446	76,008	3.2
Manufacturing	5,851	5,951	5,883	5,502	5,528	5,592	53,511	54,907	-2.5
Total Public Construction²	29,039	30,189	31,964	29,920	28,999	26,540	256,439	238,952	7.3
Residential	537	539	589	568	586	576	5,409	5,566	-2.8
Nonresidential	28,502	29,651	31,375	29,352	28,413	25,963	251,030	233,386	7.6
Office	843	826	916	800	849	776	7,899	6,785	16.4
Commercial	342	350	307	294	324	256	2,948	2,605	13.2
Health care	809	810	799	790	822	803	7,701	7,682	0.2
Educational	6,376	6,757	7,790	7,436	7,122	5,798	62,234	60,557	2.8
Public safety	836	844	825	759	796	743	7,549	6,747	11.9
Amusement and recreation	1,152	1,158	1,157	1,134	1,066	934	9,894	9,363	5.7
Transportation	3,296	3,368	3,334	3,205	3,132	2,854	29,287	25,219	16.1
Power	492	502	528	542	574	498	4,984	4,784	4.2
Highway and street	10,190	10,699	11,286	10,347	9,570	9,493	80,567	75,920	6.1
Sewage and waste disposal	2,063	2,038	2,056	1,884	1,968	1,957	18,207	16,801	8.4
Water supply	1,254	1,235	1,303	1,280	1,377	1,032	11,490	9,742	17.9
Conservation and development	687	886	869	764	688	685	6,817	5,979	14.0

^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, December 3, 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	0.5	0.7	0.9	1.0
Residential	4.0	3.0	4.0	2.3	5.0
Nonresidential	0.8	0.5	0.7	0.9	1.0
Lodging	2.0	1.5	1.9	1.0	2.6
Office	2.2	1.4	2.0	1.6	2.1
Commercial	2.0	1.9	2.3	1.4	1.9
Health care	1.8	1.3	1.5	1.3	2.3
Educational	2.0	1.4	2.0	1.2	2.5
Religious	5.6	4.0	4.8	3.3	6.2
Public safety	3.7	2.2	3.0	1.6	4.4
Amusement and recreation	2.8	1.9	3.1	1.3	3.3
Transportation	1.4	1.2	2.1	1.0	2.4
Communication	NA	NA	NA	NA	NA
Power	0.4	0.3	0.4	0.2	0.5
Highway and street	3.3	1.7	2.6	4.2	4.6
Sewage and waste disposal	3.6	2.5	3.4	2.5	5.2
Water supply	4.6	3.2	4.5	4.2	6.2
Conservation and development	2.5	1.8	2.7	1.2	2.9
Manufacturing	1.0	0.8	0.9	0.6	0.9
Total Private Construction	0.7	0.6	0.7	0.5	0.8
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	5.7	5.7	4.1	1.2	4.1
Nonresidential	0.7	0.6	0.7	0.5	0.8
Lodging	1.7	1.4	1.9	1.0	2.6
Office	2.4	1.5	1.8	1.8	2.4
Commercial	2.1	2.0	2.3	1.4	1.9
Health care	2.2	1.7	1.8	1.6	2.8
Educational	2.5	1.9	2.9	1.3	3.8
Religious	5.6	4.0	4.8	3.3	6.2
Amusement and recreation	2.9	1.9	3.0	1.2	2.8
Transportation	1.0	1.0	3.8	0.8	4.6
Communication	NA	NA	NA	NA	NA
Power	0.3	0.3	0.4	0.1	0.5
Manufacturing	1.1	0.8	0.9	0.6	1.0
Total Public Construction	1.3	0.8	1.2	1.6	1.9
Residential	4.0	3.0	4.0	2.3	5.0
Nonresidential	1.4	0.8	1.2	1.6	2.0
Office	4.0	3.8	10.8	2.2	4.7
Commercial	6.6	4.9	7.4	4.5	9.9
Health care	2.4	1.8	2.4	1.5	3.1
Educational	2.4	1.8	2.4	1.4	2.9
Public safety	3.7	2.2	3.0	1.6	4.4
Amusement and recreation	5.0	3.5	5.9	2.4	6.9
Transportation	1.9	1.5	2.4	1.2	2.9
Power	6.8	5.1	6.2	5.4	5.9
Highway and street	3.3	1.7	2.6	4.2	4.6
Sewage and waste disposal	3.6	2.5	3.4	2.6	5.2
Water supply	4.7	3.2	4.5	4.1	6.4
Conservation and development	2.5	1.8	2.7	1.2	2.9

NA Not applicable

Source: U.S. Census Bureau, Construction Spending, December 3, 2018. Additional information on the survey methodology may be found at <www.census.gov/construction/c30/meth.html>