

# U.S. Census Bureau News

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## NOVEMBER 2016 CONSTRUCTION AT \$1,182.1 BILLION ANNUAL RATE

The U.S. Census Bureau of the Department of Commerce announced today that construction spending during November 2016 was estimated at a seasonally adjusted annual rate of \$1,182.1 billion, 0.9 percent ( $\pm 1.5\%$ )\* above the revised October estimate of \$1,171.4 billion. The November figure is 4.1 percent ( $\pm 2.0\%$ ) above the November 2015 estimate of \$1,135.5 billion.

During the first 11 months of this year, construction spending amounted to \$1,070.9 billion, 4.4 percent ( $\pm 1.0\%$ ) above the \$1,025.5 billion for the same period in 2015.

### PRIVATE CONSTRUCTION

Spending on private construction was at a seasonally adjusted annual rate of \$892.8 billion, 1.0 percent ( $\pm 1.5\%$ )\* above the revised October estimate of \$884.3 billion. Residential construction was at a seasonally adjusted annual rate of \$462.9 billion in November, 1.0 percent ( $\pm 1.3\%$ )\* above the revised October estimate of \$458.2 billion. Nonresidential construction was at a seasonally adjusted annual rate of \$429.9 billion in November, 0.9 percent ( $\pm 1.5\%$ )\* above the revised October estimate of \$426.2 billion.

### PUBLIC CONSTRUCTION

In November, the estimated seasonally adjusted annual rate of public construction spending was \$289.3 billion, 0.8 percent ( $\pm 2.5\%$ )\* above the revised October estimate of \$287.1 billion. Educational construction was at a seasonally adjusted annual rate of \$71.6 billion, 2.1 percent ( $\pm 2.5\%$ )\* above the revised October estimate of \$70.1 billion. Highway construction was at a seasonally adjusted annual rate of \$94.6 billion, 1.1 percent ( $\pm 5.4\%$ )\* above the revised October estimate of \$93.6 billion.

***December 2016 data will be released on February 1, 2017 at 10:00 A.M. EST.***

***For more detailed data and methodologies, go to our website:***

***<http://www.census.gov/constructionspending>***

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### **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, 0.93 percent; private construction, 1.02 percent; and public construction, 1.35 percent.

\* 90% confidence interval includes zero. The U.S. Census Bureau does not have sufficient statistical evidence to conclude that the actual change is different from zero.

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	Nov 2016 <sup>P</sup>	Oct 2016 <sup>r</sup>	Sep 2016 <sup>r</sup>	Aug 2016	Jul 2016	Nov 2015	Percent change Nov 2016 from -	
							Oct 2016	Nov 2015
							<b>Total Construction</b>	<b>1,182,097</b>
Residential	469,669	464,890	457,243	462,870	462,614	456,116	1.0	3.0
Nonresidential	712,427	706,546	707,189	703,643	697,793	679,354	0.8	4.9
Lodging	29,005	27,135	28,968	28,089	27,544	22,592	6.9	28.4
Office	76,197	74,688	74,571	72,177	70,325	59,742	2.0	27.5
Commercial	76,081	75,862	74,655	74,753	72,674	67,680	0.3	12.4
Health care	41,789	41,823	42,911	42,570	40,745	42,434	-0.1	-1.5
Educational	92,402	90,131	88,996	88,470	86,453	84,728	2.5	9.1
Religious	3,675	3,346	3,683	3,911	3,791	3,675	9.8	0.0
Public safety	8,071	8,335	7,963	7,830	8,005	8,468	-3.2	-4.7
Amusement and recreation	22,489	22,178	21,775	21,947	21,673	19,867	1.4	13.2
Transportation	42,232	42,646	41,104	40,514	43,839	46,170	-1.0	-8.5
Communication	18,667	19,398	18,617	19,037	19,023	21,650	-3.8	-13.8
Power	92,645	92,076	95,665	97,109	97,983	93,420	0.6	-0.8
Highway and street	94,821	93,761	91,854	87,551	87,901	85,812	1.1	10.5
Sewage and waste disposal	21,032	21,393	20,909	21,489	20,894	22,776	-1.7	-7.7
Water supply	12,017	12,048	11,765	11,660	11,341	12,529	-0.3	-4.1
Conservation and development	8,101	7,709	7,387	7,313	7,061	8,196	5.1	-1.2
Manufacturing	73,204	74,017	76,368	79,223	78,543	79,616	-1.1	-8.1
<b>Total Private Construction<sup>1</sup></b>	<b>892,820</b>	<b>884,332</b>	<b>883,604</b>	<b>888,423</b>	<b>884,852</b>	<b>853,658</b>	<b>1.0</b>	<b>4.6</b>
Residential	462,906	458,160	450,972	456,206	456,586	449,493	1.0	3.0
New single family	247,575	243,292	236,691	236,988	238,595	249,828	1.8	-0.9
New multi-family	61,870	63,604	61,458	61,059	59,698	55,908	-2.7	10.7
Nonresidential	429,913	426,172	432,632	432,217	428,265	404,165	0.9	6.4
Lodging	28,714	26,841	28,663	27,811	27,208	22,135	7.0	29.7
Office	68,131	66,863	66,515	64,025	62,651	52,008	1.9	31.0
Commercial	72,804	72,602	71,358	71,406	70,063	65,024	0.3	12.0
Health care	33,100	33,170	34,058	33,566	32,443	33,986	-0.2	-2.6
Educational	20,796	20,005	20,435	19,236	19,018	17,280	4.0	20.3
Religious	3,675	3,346	3,683	3,911	3,791	3,667	9.8	0.2
Amusement and recreation	12,629	12,415	12,350	12,410	11,955	10,298	1.7	22.6
Transportation	12,656	12,415	11,936	11,622	13,053	13,993	1.9	-9.6
Communication	18,573	19,291	18,539	18,875	18,910	21,495	-3.7	-13.6
Power	85,286	84,864	88,664	90,021	90,229	84,030	0.5	1.5
Manufacturing	72,710	73,532	75,589	78,434	77,978	78,992	-1.1	-8.0
<b>Total Public Construction<sup>2</sup></b>	<b>289,277</b>	<b>287,104</b>	<b>280,828</b>	<b>278,090</b>	<b>275,556</b>	<b>281,812</b>	<b>0.8</b>	<b>2.6</b>
Residential	6,763	6,730	6,271	6,664	6,028	6,623	0.5	2.1
Nonresidential	282,514	280,374	274,557	271,427	269,528	275,189	0.8	2.7
Office	8,066	7,825	8,055	8,152	7,674	7,734	3.1	4.3
Commercial	3,277	3,261	3,298	3,347	2,611	2,656	0.5	23.4
Health care	8,689	8,653	8,853	9,004	8,302	8,448	0.4	2.9
Educational	71,606	70,126	68,560	69,234	67,435	67,448	2.1	6.2
Public safety	7,975	8,245	7,870	7,739	7,900	8,391	-3.3	-5.0
Amusement and recreation	9,860	9,763	9,425	9,537	9,718	9,569	1.0	3.0
Transportation	29,576	30,232	29,168	28,892	30,786	32,177	-2.2	-8.1
Power	7,359	7,212	7,001	7,088	7,753	9,390	2.0	-21.6
Highway and street	94,628	93,594	91,676	87,360	87,704	85,631	1.1	10.5
Sewage and waste disposal	20,683	21,028	20,517	21,096	20,491	22,410	-1.6	-7.7
Water supply	11,881	11,898	11,639	11,528	11,192	12,016	-0.1	-1.1
Conservation and development	8,035	7,651	7,334	7,222	6,948	8,076	5.0	-0.5

<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.

**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	Nov 2016 <sup>p</sup>	Oct 2016 <sup>f</sup>	Sep 2016 <sup>f</sup>	Aug 2016	Jul 2016	Nov 2015	Year-to-date		
							Nov 2016	Nov 2015	Percent change
<b>Total Construction</b>	<b>99,303</b>	<b>106,085</b>	<b>107,285</b>	<b>109,097</b>	<b>106,633</b>	<b>94,876</b>	<b>1,070,858</b>	<b>1,025,539</b>	<b>4.4</b>
Residential	38,736	42,183	41,785	43,206	43,577	37,415	426,884	406,881	4.9
Nonresidential	60,567	63,902	65,500	65,891	63,057	57,461	643,974	618,658	4.1
Lodging	2,458	2,355	2,502	2,441	2,315	1,931	24,855	19,823	25.4
Office	6,434	6,555	6,736	6,367	6,070	5,052	62,928	50,511	24.6
Commercial	6,532	6,918	6,846	6,779	6,364	5,747	67,817	61,474	10.3
Health care	3,546	3,607	3,871	3,709	3,445	3,603	37,958	37,511	1.2
Educational	7,167	7,520	7,973	9,066	8,933	6,534	82,205	77,330	6.3
Religious	307	306	338	361	334	311	3,459	3,381	2.3
Public safety	705	713	767	691	665	728	7,415	8,025	-7.6
Amusement and recreation	1,895	1,990	1,948	1,954	1,900	1,676	19,968	18,297	9.1
Transportation	3,711	3,914	3,807	3,732	3,897	4,024	39,344	41,962	-6.2
Communication	1,738	1,705	1,659	1,696	1,555	1,977	17,391	18,478	-5.9
Power	8,122	8,162	8,114	8,143	8,091	8,209	87,335	84,384	3.5
Highway and street	8,202	9,958	10,450	10,382	9,462	7,216	85,475	83,873	1.9
Sewage and waste disposal	1,797	2,020	1,939	2,009	1,857	1,957	20,715	22,447	-7.7
Water supply	1,032	1,111	1,053	1,040	1,003	1,073	10,993	12,220	-10.0
Conservation and development	674	619	775	643	580	679	7,004	7,393	-5.3
Manufacturing	6,248	6,450	6,722	6,880	6,587	6,745	69,113	71,549	-3.4
<b>Total Private Construction<sup>1</sup></b>	<b>75,179</b>	<b>79,281</b>	<b>79,301</b>	<b>80,435</b>	<b>79,535</b>	<b>71,585</b>	<b>805,257</b>	<b>757,517</b>	<b>6.3</b>
Residential	38,165	41,584	41,204	42,617	43,043	36,853	420,949	400,843	5.0
New single family	21,725	22,201	22,103	22,170	22,039	21,868	224,156	214,521	4.5
New multi-family	5,217	5,517	5,289	5,425	4,976	4,720	55,777	47,638	17.1
Nonresidential	37,014	37,698	38,097	37,818	36,491	34,733	384,307	356,674	7.7
Lodging	2,434	2,331	2,476	2,418	2,287	1,893	24,532	19,299	27.1
Office	5,770	5,896	5,962	5,651	5,414	4,415	55,777	43,135	29.3
Commercial	6,235	6,650	6,516	6,472	6,154	5,504	64,780	59,070	9.7
Health care	2,831	2,899	3,044	2,936	2,750	2,905	30,114	29,696	1.4
Educational	1,635	1,645	1,700	1,786	1,756	1,337	17,404	15,595	11.6
Religious	307	306	338	361	334	311	3,459	3,372	2.6
Amusement and recreation	1,045	1,088	1,074	1,061	1,037	854	10,786	8,827	22.2
Transportation	1,202	1,187	1,091	1,056	1,167	1,289	11,382	12,407	-8.3
Communication	1,730	1,696	1,652	1,683	1,545	1,965	17,269	18,324	-5.8
Power	7,542	7,515	7,507	7,502	7,428	7,451	79,443	74,603	6.5
Manufacturing	6,207	6,409	6,658	6,814	6,540	6,693	68,516	70,938	-3.4
<b>Total Public Construction<sup>2</sup></b>	<b>24,125</b>	<b>26,804</b>	<b>27,984</b>	<b>28,662</b>	<b>27,099</b>	<b>23,291</b>	<b>265,601</b>	<b>268,022</b>	<b>-0.9</b>
Residential	571	599	581	589	533	562	5,935	6,038	-1.7
Nonresidential	23,554	26,205	27,403	28,073	26,565	22,728	259,667	261,984	-0.9
Office	664	658	774	716	656	637	7,151	7,376	-3.1
Commercial	297	269	330	308	210	243	3,037	2,404	26.3
Health care	715	707	827	773	696	698	7,845	7,815	0.4
Educational	5,532	5,875	6,273	7,280	7,177	5,197	64,801	61,735	5.0
Public safety	696	705	759	683	658	722	7,335	7,825	-6.3
Amusement and recreation	850	902	874	893	863	822	9,182	9,470	-3.0
Transportation	2,509	2,727	2,716	2,676	2,730	2,735	27,962	29,555	-5.4
Power	580	648	608	641	663	757	7,892	9,782	-19.3
Highway and street	8,180	9,942	10,430	10,365	9,445	7,194	85,258	83,554	2.0
Sewage and waste disposal	1,768	1,986	1,904	1,974	1,823	1,925	20,371	22,197	-8.2
Water supply	1,020	1,097	1,041	1,028	991	1,027	10,857	11,691	-7.1
Conservation and development	669	614	770	635	571	669	6,935	7,281	-4.8

<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.

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>0.5</b>	<b>0.6</b>	<b>0.9</b>	<b>1.2</b>
Residential	4.6	3.7	4.3	2.6	5.9
Nonresidential	0.9	0.5	0.6	0.9	1.2
Lodging	2.0	1.5	2.2	1.1	2.7
Office	2.7	2.2	2.4	3.6	4.9
Commercial	3.0	1.4	1.8	1.3	2.7
Health care	2.2	1.6	2.2	2.3	3.1
Educational	2.1	1.3	1.9	1.3	2.9
Religious	7.3	4.9	6.3	3.6	7.9
Public safety	3.1	2.2	2.5	2.4	4.0
Amusement and recreation	3.6	2.3	3.1	4.5	7.7
Transportation	1.8	1.2	1.6	1.4	2.7
Communication	NA	NA	NA	NA	NA
Power	0.4	0.3	0.4	0.2	0.7
Highway and street	3.6	1.6	2.1	3.3	4.7
Sewage and waste disposal	3.5	2.3	2.7	2.6	3.9
Water supply	4.4	2.4	3.5	3.8	5.4
Conservation and development	3.8	2.7	3.3	2.5	4.6
Manufacturing	0.9	0.9	0.9	0.8	1.1
<b>Total Private Construction</b>	<b>1.0</b>	<b>0.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.3</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	5.8	5.4	4.3	1.8	5.4
Nonresidential	1.0	0.6	0.8	0.9	1.3
Lodging	2.0	1.6	2.2	1.1	2.8
Office	3.1	2.4	2.8	4.1	5.6
Commercial	3.1	1.4	1.8	1.3	2.7
Health care	2.7	2.0	2.8	2.8	3.9
Educational	3.1	2.2	3.0	2.2	3.9
Religious	7.3	4.9	6.3	3.6	7.9
Amusement and recreation	3.5	2.7	3.7	2.0	5.0
Transportation	4.9	3.3	4.2	1.7	4.4
Communication	NA	NA	NA	NA	NA
Power	0.3	0.2	0.3	0.2	0.6
Manufacturing	1.0	0.9	0.9	0.8	1.1
<b>Total Public Construction</b>	<b>1.4</b>	<b>0.8</b>	<b>1.0</b>	<b>1.5</b>	<b>2.0</b>
Residential	4.6	3.7	4.3	2.6	5.9
Nonresidential	1.5	0.8	1.0	1.5	2.0
Office	3.2	2.6	3.3	3.0	5.3
Commercial	9.9	8.4	14.6	4.9	18.9
Health care	2.9	2.3	2.8	2.2	4.0
Educational	2.4	1.5	2.2	1.5	3.5
Public safety	3.1	2.2	2.5	2.5	4.0
Amusement and recreation	6.1	3.9	4.6	9.0	14.6
Transportation	1.9	1.3	1.7	1.6	3.0
Power	4.6	3.3	2.9	3.1	3.5
Highway and street	3.6	1.6	2.1	3.3	4.8
Sewage and waste disposal	3.5	2.3	2.7	2.6	4.0
Water supply	4.5	2.4	3.7	3.9	5.7
Conservation and development	3.9	2.7	3.3	2.5	4.6

NA Not applicable