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## **JULY 2003 CONSTRUCTION AT \$879.8 BILLION ANNUAL RATE**

Construction put in place spending during July 2003 was estimated at a seasonally adjusted annual rate of \$879.8 billion, 0.2 ( $\pm 1.6$ ) percent above the revised June estimate of \$877.8 billion, according to the U.S. Commerce Department's Census Bureau. The July figure is 2.5 ( $\pm 1.4$ ) percent above the July 2002 estimate of \$858.7 billion.

During the first 7 months of this year, construction spending amounted to \$492.0 billion, 1.8 ( $\pm 1.4$ ) percent above the \$483.2 billion for the same period in 2002.

### PRIVATE CONSTRUCTION

Spending on private construction was at a rate of \$664.2 billion, 0.5 ( $\pm 1.4$ ) percent above the revised June estimate of \$661.1 billion. Residential construction was at a seasonally adjusted annual rate of \$449.6 billion in July, 0.6 ( $\pm 1.4$ ) percent above the revised June estimate of \$446.8 billion.

### PUBLIC CONSTRUCTION

In July, the estimated seasonally adjusted annual rate of public construction spending was \$215.7 billion, 0.4 ( $\pm 2.4$ ) percent below the revised June estimate of \$216.7 billion. Educational construction was at a seasonally adjusted annual rate of \$58.1 billion, 1.2 ( $\pm 3.7$ ) percent below the revised June estimate of \$58.8 billion. Highway construction was at a seasonally adjusted annual rate of \$60.0 billion, 0.9 ( $\pm 6.2$ ) percent below the revised June estimate of \$60.6 billion.

August 2003 data will be released on October 1, 2003 at 10:00 AM EDT.

### 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 errors 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. If the range contains zero, it is uncertain whether there was an increase or decrease; that is, the change was not statistically significant. For any comparison cited without a confidence interval, the change is statistically significant. 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, 0.7 percent; private construction, 0.7 percent; and public construction, 1.6 percent.

More detailed data and a discussion of methodologies appear at our website: <http://www.census.gov/const/www/c30index.html>

**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	Jul 2003 <sup>P</sup>	Jun 2003 <sup>r</sup>	May 2003 <sup>r</sup>	Apr 2003	Mar 2003	Jul 2002	Percent change Jul 2003 from -	
							Jun 2003	Jul 2002
<b>Total Construction</b>	<b>879,834</b>	<b>877,774</b>	<b>871,859</b>	<b>871,871</b>	<b>875,216</b>	<b>858,715</b>	<b>0.2</b>	<b>2.5</b>
Residential	455,548	452,875	450,637	449,565	452,828	430,330	0.6	5.9
Lodging	10,874	11,099	11,711	11,558	11,035	10,507	-2.0	3.5
Office	39,308	40,019	38,683	39,670	39,306	44,736	-1.8	-12.1
Commercial	61,820	60,593	59,697	58,871	59,447	58,937	2.0	4.9
Health care	30,266	30,094	29,567	29,949	29,694	28,041	0.6	7.9
Educational	71,122	72,302	72,274	70,423	70,238	70,308	-1.6	1.2
Religious	8,578	8,637	8,552	8,270	8,312	7,964	-0.7	7.7
Public safety	8,847	8,490	8,348	8,108	8,161	8,624	4.2	2.6
Amusement and recreation	19,127	19,578	19,571	18,878	19,018	18,638	-2.3	2.6
Transportation	24,176	24,420	24,866	24,902	24,693	24,956	-1.0	-3.1
Communication	16,188	15,587	15,843	15,768	15,478	18,621	3.9	-13.1
Power	34,703	33,612	34,810	38,531	40,089	35,178	3.2	-1.4
Highway and street	60,159	60,659	56,979	58,116	58,485	61,060	-0.8	-1.5
Sewage and waste disposal	12,401	12,565	12,817	12,293	11,435	11,789	-1.3	5.2
Water supply	9,909	9,738	9,526	9,238	9,766	8,785	1.8	12.8
Conservation and development	3,900	3,851	3,702	3,695	3,208	3,773	1.3	3.4
Manufacturing	12,910	13,656	14,277	14,035	14,023	16,470	-5.5	-21.6
<b>Total Private Construction <sup>1</sup></b>	<b>664,152</b>	<b>661,125</b>	<b>660,944</b>	<b>662,769</b>	<b>668,758</b>	<b>648,201</b>	<b>0.5</b>	<b>2.5</b>
Residential	449,613	446,799	444,858	443,880	447,147	423,909	0.6	6.1
Lodging	9,991	10,231	10,769	10,400	10,144	9,980	-2.3	0.1
Office	28,357	29,459	28,580	29,299	29,664	34,692	-3.7	-18.3
Commercial	57,050	55,600	55,325	54,726	55,593	55,370	2.6	3.0
Health care	24,121	23,977	23,746	24,121	24,162	22,570	0.6	6.9
Educational	13,053	13,499	13,861	13,188	12,798	12,339	-3.3	5.8
Religious	8,512	8,494	8,387	8,209	8,206	7,960	0.2	6.9
Amusement and recreation	6,518	6,867	6,859	6,808	6,940	7,417	-5.1	-12.1
Transportation	6,829	6,913	6,952	7,055	7,121	6,872	-1.2	-0.6
Communication	16,016	15,438	15,681	15,665	15,385	18,594	3.7	-13.9
Power	30,218	29,227	30,677	34,516	36,686	31,457	3.4	-3.9
Manufacturing	12,832	13,496	14,176	13,892	13,989	16,140	-4.9	-20.5
<b>Total Public Construction <sup>2</sup></b>	<b>215,682</b>	<b>216,650</b>	<b>210,914</b>	<b>209,102</b>	<b>206,457</b>	<b>210,514</b>	<b>-0.4</b>	<b>2.5</b>
Residential	5,935	6,076	5,779	5,686	5,681	6,422	-2.3	-7.6
Office	10,951	10,560	10,103	10,371	9,642	10,044	3.7	9.0
Commercial	4,770	4,993	4,372	4,146	3,854	3,567	-4.5	33.7
Health care	6,145	6,117	5,821	5,828	5,532	5,470	0.5	12.3
Educational	58,069	58,803	58,414	57,235	57,440	57,969	-1.2	0.2
Public safety	8,696	8,393	8,248	8,017	8,061	8,379	3.6	3.8
Amusement and recreation	12,609	12,712	12,712	12,070	12,079	11,221	-0.8	12.4
Transportation	17,347	17,507	17,913	17,847	17,572	18,084	-0.9	-4.1
Power	4,485	4,386	4,133	4,015	3,403	3,721	2.3	20.5
Highway and street	60,035	60,557	56,856	57,957	58,389	60,958	-0.9	-1.5
Sewage and waste disposal	12,099	12,098	12,539	12,073	11,266	11,617	0.0	4.1
Water supply	9,478	9,316	8,991	8,728	9,237	8,424	1.7	12.5
Conservation and development	3,865	3,814	3,665	3,665	3,179	3,750	1.3	3.1

<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.

**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	Jul 2003 <sup>P</sup>	Jun 2003 <sup>r</sup>	May 2003 <sup>r</sup>	Apr 2003	Mar 2003	Jul 2002	Year-to-date		
							Jul 2003	Jul 2002	Percent change
<b>Total Construction</b>	<b>81,236</b>	<b>79,780</b>	<b>74,884</b>	<b>70,568</b>	<b>65,738</b>	<b>79,790</b>	<b>492,026</b>	<b>483,191</b>	<b>1.8</b>
Residential	42,341	41,680	39,320	36,820	34,326	40,484	255,404	237,802	7.4
Lodging	906	925	976	963	920	876	6,373	6,635	-3.9
Office	3,319	3,446	3,345	3,278	3,164	3,777	22,737	26,500	-14.2
Commercial	5,416	5,264	4,959	4,801	4,614	5,208	33,838	35,870	-5.7
Health care	2,525	2,565	2,499	2,518	2,446	2,324	17,137	15,284	12.1
Educational	6,822	6,589	6,007	5,493	5,142	6,786	39,995	39,546	1.1
Religious	735	733	705	668	646	684	4,748	4,728	0.4
Public safety	726	713	688	652	641	703	4,661	4,991	-6.6
Amusement and recreation	1,621	1,721	1,696	1,601	1,500	1,571	10,939	10,787	1.4
Transportation	2,124	2,180	2,159	2,015	1,793	2,222	13,675	13,646	0.2
Communication	1,415	1,331	1,306	1,288	1,183	1,622	8,662	10,484	-17.4
Power	3,363	3,014	2,893	3,208	3,278	3,385	20,806	21,406	-2.8
Highway and street	6,510	6,121	4,926	4,087	3,135	6,580	30,890	31,229	-1.1
Sewage and waste disposal	1,117	1,125	1,103	995	864	1,067	6,894	6,765	1.9
Water supply	847	843	810	753	732	758	5,407	5,056	6.9
Conservation and development	328	309	285	290	236	314	1,998	1,976	1.1
Manufacturing	1,122	1,222	1,208	1,138	1,120	1,430	7,860	10,488	-25.1
<b>Total Private Construction <sup>1</sup></b>	<b>60,823</b>	<b>59,888</b>	<b>57,085</b>	<b>54,404</b>	<b>51,578</b>	<b>59,745</b>	<b>375,717</b>	<b>368,973</b>	<b>1.8</b>
Residential	41,844	41,146	38,837	36,360	33,883	39,951	252,069	234,296	7.6
Lodging	833	853	897	867	845	832	5,835	6,415	-9.0
Office	2,402	2,524	2,468	2,404	2,428	2,935	16,881	20,973	-19.5
Commercial	5,011	4,842	4,601	4,455	4,329	4,907	31,442	33,741	-6.8
Health care	2,011	2,038	2,017	2,039	1,996	1,872	13,802	12,306	12.2
Educational	1,229	1,236	1,214	1,079	990	1,146	7,606	7,653	-0.6
Religious	730	721	691	663	637	684	4,702	4,726	-0.5
Amusement and recreation	552	596	597	580	566	630	3,884	4,403	-11.8
Transportation	624	637	634	584	499	628	3,935	3,862	1.9
Communication	1,402	1,319	1,294	1,279	1,176	1,620	8,590	10,419	-17.6
Power	2,979	2,679	2,553	2,891	3,044	3,060	18,630	19,315	-3.5
Manufacturing	1,115	1,207	1,200	1,126	1,117	1,403	7,802	10,331	-24.5
<b>Total Public Construction <sup>2</sup></b>	<b>20,413</b>	<b>19,891</b>	<b>17,799</b>	<b>16,163</b>	<b>14,160</b>	<b>20,045</b>	<b>116,309</b>	<b>114,218</b>	<b>1.8</b>
Residential	497	534	483	461	443	532	3,335	3,506	-4.9
Office	917	922	877	874	736	841	5,856	5,526	6.0
Commercial	404	422	358	346	285	301	2,397	2,129	12.6
Health care	515	526	481	480	450	452	3,335	2,977	12.0
Educational	5,593	5,353	4,793	4,414	4,152	5,641	32,389	31,893	1.6
Public safety	714	704	680	644	633	682	4,600	4,883	-5.8
Amusement and recreation	1,069	1,126	1,099	1,021	934	942	7,055	6,383	10.5
Transportation	1,500	1,543	1,524	1,431	1,294	1,595	9,740	9,785	-0.5
Power	384	335	341	317	235	325	2,176	2,090	4.1
Highway and street	6,498	6,114	4,916	4,075	3,129	6,571	30,833	31,167	-1.1
Sewage and waste disposal	1,086	1,084	1,082	980	851	1,050	6,747	6,605	2.1
Water supply	812	810	770	712	695	727	5,151	4,860	6.0
Conservation and development	325	306	282	287	233	313	1,980	1,968	0.6

<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 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>1.0</b>	<b>0.7</b>	<b>0.9</b>	<b>1.0</b>	<b>1.4</b>
Residential	3.9	2.7	4.1	3.1	4.9
Lodging	3.8	3.5	3.9	2.3	3.0
Office	2.8	2.1	2.0	1.8	2.8
Commercial	2.7	1.8	2.6	1.9	2.9
Health care	3.2	3.1	3.4	2.1	3.5
Educational	2.3	1.7	2.5	2.0	3.4
Religious	4.4	3.4	4.5	2.6	5.1
Public safety	3.4	2.6	2.9	2.5	4.5
Amusement and recreation	3.5	2.8	3.2	2.3	3.4
Transportation	2.6	2.1	2.7	2.1	3.0
Communication	NA	NA	NA	NA	NA
Power	2.0	1.2	0.9	2.1	1.4
Highway and street	3.9	2.8	3.7	3.9	5.6
Sewage and waste disposal	4.7	2.9	3.8	5.0	5.5
Water supply	4.4	2.8	4.2	5.3	5.9
Conservation and development	4.4	3.3	4.7	3.0	6.2
Manufacturing	3.7	3.4	3.1	3.0	3.7
<b>Total Private Construction</b>	<b>1.2</b>	<b>1.0</b>	<b>1.1</b>	<b>0.9</b>	<b>1.3</b>
Residential	5.0	1.1	1.3	0.9	1.4
Lodging	3.9	3.6	3.9	2.4	3.0
Office	3.5	2.6	2.3	1.7	3.1
Commercial	2.7	1.8	2.7	1.9	2.9
Health care	3.8	3.7	4.0	2.4	4.1
Educational	3.9	3.2	4.6	2.7	5.8
Religious	4.4	3.5	4.5	2.6	5.1
Amusement and recreation	5.2	4.3	4.8	2.4	5.4
Transportation	7.8	8.8	9.0	6.0	13.0
Communication	NA	NA	NA	NA	NA
Power	1.7	1.2	1.1	2.3	1.3
Manufacturing	3.7	3.4	3.0	3.1	3.7
<b>Total Public Construction</b>	<b>1.5</b>	<b>1.0</b>	<b>1.5</b>	<b>1.5</b>	<b>2.3</b>
Residential	3.9	2.7	4.1	3.1	4.9
Office	3.8	2.9	3.5	4.4	6.0
Commercial	12.1	9.0	12.1	8.3	13.1
Health care	4.3	3.4	5.0	2.6	7.0
Educational	2.6	2.0	2.8	2.3	3.8
Public safety	3.3	2.6	2.9	2.5	4.6
Amusement and recreation	4.5	3.7	4.4	3.7	4.2
Transportation	2.7	2.1	2.8	2.3	3.0
Power	17.6	6.9	10.9	5.5	12.2
Highway and street	3.9	2.8	3.7	3.9	5.6
Sewage and waste disposal	4.7	2.9	3.9	5.1	5.5
Water supply	4.5	2.9	4.3	5.4	6.0
Conservation and development	4.3	3.3	4.7	3.0	6.2

NA Not applicable