



U.S. Department of Commerce
 Economics and Statistics Administration
 BUREAU OF THE CENSUS

Value of New Construction Put in Place

August 1996

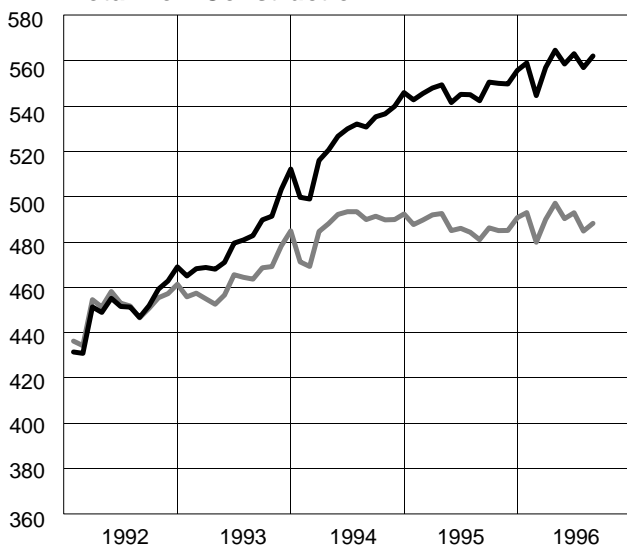
C30/96-8
 Issued October 1996

Monthly Value of New Construction Put in Place

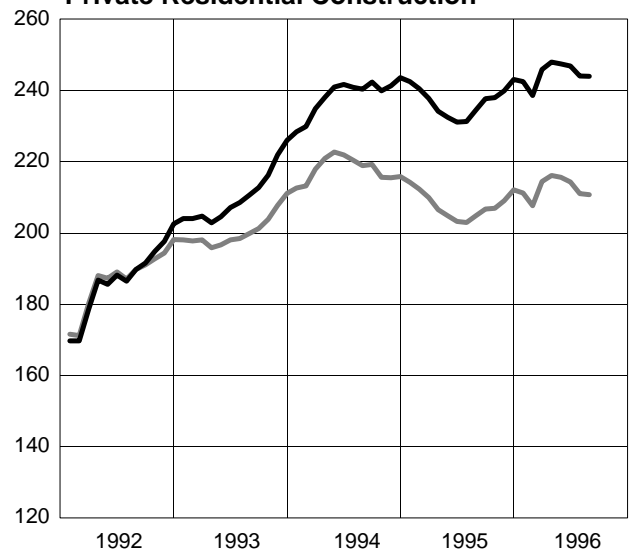
(Seasonally adjusted annual rate in billions of dollars)

— Current dollars
 — 1992 dollars

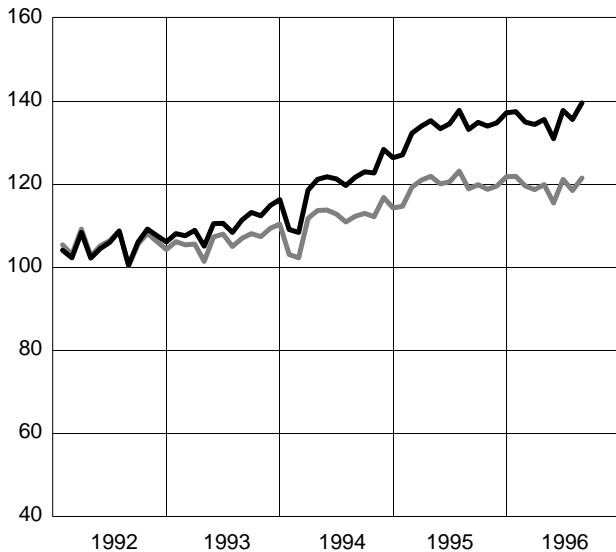
Total New Construction



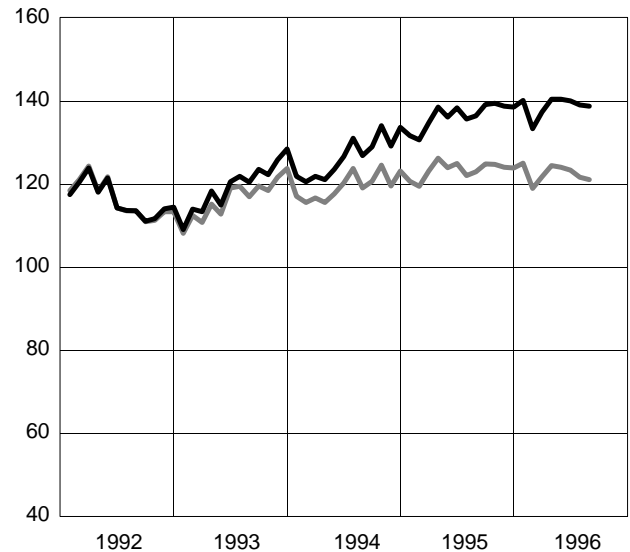
Private Residential Construction



Private Nonresidential Construction



Public Construction



Source: U.S. Bureau of the Census, Value of New Construction Put in Place.

VALUE OF NEW CONSTRUCTION PUT IN PLACE

New construction put in place during August 1996 was estimated at a seasonally adjusted annual rate of \$562.1 billion, 1(±5) percent above the revised July estimate of \$556.9 billion. The August figure represents a 4(±5) percent increase over August 1995.

During the first 8 months of this year \$364.5 billion of new construction was put in place, 3 percent above the \$354.7 billion for the same period in 1995.

In constant (1992) dollars, the August annual rate was \$488.1 billion, 1(±5) percent above the revised July estimate of \$484.7 billion.

Spending on new residential housing units was at a seasonally adjusted annual rate of \$175.6 billion in August, nearly the same (±2 percent) as the revised July estimate of \$174.8 billion. Nonresidential building construction was at a rate of \$139.5 billion, 3(±3) percent above the revised July estimate of \$135.5 billion.

In August, the estimated seasonally adjusted annual rate of public construction put in place was \$138.7 billion, nearly the same (±5 percent) as the July estimate of \$139.0 billion.

The “value of new construction put in place” is a measure of the value of construction installed or erected at the site during a given period. For an individual project, this includes—

1. Cost of materials installed or erected.
2. Cost of labor (both by contractors and force account) and a proportionate share of the cost of construction equipment rental.
3. Contractor's profit.
4. Project owner's overhead and office costs.
5. Cost of architectural and engineering work.
6. Miscellaneous costs chargeable to the project on the owner's books.
7. Interest and taxes paid during construction.

The total value-in-place for a given period is the sum of the value of work done on all projects underway during this period, regardless of when work on each individual project was started or when payment was made to the contractors. For some categories, estimates are derived by distributing the total construction cost of the project by means of historic construction progress patterns.

ADDITIONAL DATA

Additional data related to the value of new construction put in place can be found in the following publications:

- Current Construction Reports, *Value of New Construction Put in Place: May 1996*, C30/96-5, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1996; contains annual data for 1964-1995 and monthly data for 1993 to 1995.
- Current Construction Reports, *Value of New Construction Put in Place in the United States, 1964*

to 1980, C30-80 supplement, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1981; contains annual data for 1915 to 1963.

- Current Construction Reports Special Study, *Expenditures for Nonresidential Improvements and Repairs: 1992*, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1994.

For special supplements in the C30 reports, refer to table below.

Title	C30 Issue					
Value of privately owned nonresidential building projects started and completed (quarterly)	96-3	95-12	95-9	95-6	95-3	94-12
Value of new privately owned nonresidential buildings by geographic area and detailed types of construction: 1973 to 94 (annual)	95-7	94-7	93-7	92-7	91-7	90-7
Total time and monthly progress from start to completion for private nonresidential buildings (annual)	92-10					
Total time and monthly progress from start to completion for State and Local construction (annual)	92-10					

Table 1. Annual Value of New Construction Put in Place: 1991-1995

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Total new construction	424,176	452,086	482,737	527,063	547,079	429,592	451,998	464,985	487,644	486,666
Private construction	314,067	336,239	362,587	400,008	410,196	319,248	336,126	347,754	367,898	363,086
Residential buildings	157,835	187,819	210,455	238,874	236,597	160,989	187,687	200,502	217,996	207,392
New housing units	110,592	129,600	144,071	167,919	162,898	112,796	129,522	137,243	153,250	142,790
1 unit	95,444	116,505	133,282	153,838	145,009	97,333	116,419	126,960	140,416	127,108
2 or more units	15,148	13,094	10,788	14,081	17,889	15,462	13,103	10,283	12,833	15,682
Improvements	47,243	58,219	66,384	70,955	73,699	48,194	58,165	63,259	64,746	64,601
Nonresidential buildings	116,570	105,646	110,635	120,285	133,949	118,266	105,615	106,729	111,416	119,835
Industrial	31,424	29,029	26,482	28,947	32,301	31,881	29,027	25,554	26,803	28,902
Office	25,951	20,271	20,920	22,178	25,254	26,330	20,271	20,197	20,553	22,603
Hotels, motels	6,939	3,691	4,565	4,648	7,201	7,044	3,690	4,405	4,308	6,438
Other commercial	29,355	29,197	32,453	37,551	42,272	29,780	29,172	31,292	34,756	37,809
Religious	3,521	3,485	3,887	3,869	4,318	3,571	3,483	3,748	3,584	3,862
Educational	4,193	4,474	4,649	4,822	5,493	4,253	4,475	4,484	4,471	4,915
Hospital and institutional	10,567	11,487	12,492	12,268	11,173	10,721	11,485	12,050	11,377	9,998
Miscellaneous ¹	4,619	4,012	5,188	6,002	5,937	4,685	4,011	5,000	5,565	5,309
Farm nonresidential	2,753	2,398	3,291	3,246	3,473	2,792	2,396	3,174	3,007	3,107
Public utilities	33,966	36,807	34,925	34,713	33,348	34,270	36,859	34,120	32,717	30,169
Telecommunications	8,962	8,993	9,619	10,157	10,747	8,958	9,005	9,468	9,875	9,798
Other public utilities	25,004	27,814	25,306	24,556	22,601	25,313	27,854	24,652	22,842	20,372
Railroads	2,406	2,928	3,108	3,340	3,341	2,394	2,926	3,056	3,186	3,046
Electric light and power	16,293	17,136	15,567	14,918	13,126	16,510	17,184	15,096	13,877	11,825
Gas	5,555	6,901	5,645	5,300	5,205	5,647	6,895	5,536	4,861	4,667
Petroleum pipelines	750	849	986	998	929	762	849	965	918	834
All other private ²	2,943	3,570	3,281	2,890	2,829	2,930	3,569	3,229	2,763	2,583
Public construction	110,109	115,847	120,150	127,055	136,883	110,345	115,872	117,231	119,747	123,579
Buildings	47,406	49,986	52,071	53,930	59,783	48,106	49,988	50,167	49,882	53,373
Housing and redevelopment	3,587	4,138	4,855	5,247	6,156	3,661	4,136	4,629	4,788	5,397
Industrial	1,824	1,876	1,718	1,465	1,510	1,850	1,875	1,658	1,358	1,351
Educational	19,203	20,647	22,103	23,457	25,608	19,475	20,645	21,314	21,731	22,905
Hospital	2,829	3,383	3,666	3,940	4,345	2,869	3,383	3,537	3,652	3,888
Other ³	19,965	19,943	19,730	19,821	22,164	20,252	19,949	19,029	18,353	19,832
Highways and streets	32,042	33,106	34,341	37,671	38,159	31,329	33,132	34,205	36,463	34,931
Military facilities	1,837	2,502	2,453	2,318	3,002	1,831	2,502	2,405	2,196	2,721
Conservation and development	5,011	5,952	5,909	6,370	6,389	5,075	5,946	5,745	6,002	5,798
Sewer systems	10,039	9,663	9,354	10,081	10,869	10,169	9,658	9,095	9,499	9,859
Water supply facilities	4,981	5,162	5,373	5,388	6,085	5,083	5,170	5,143	4,911	5,407
Miscellaneous public ⁴	8,793	9,477	10,649	11,298	12,597	8,751	9,475	10,470	10,793	11,491

¹Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc.

²Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc.

³Includes general administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities, etc.

⁴Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Table 2. Annual Value of New Public Construction Put in Place: 1991-1995

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Total public construction	110,109	115,847	120,150	127,055	136,883	110,345	115,872	117,231	119,747	123,579
State and local construction	97,264	101,471	105,726	112,699	121,148	97,385	101,497	103,204	106,258	109,374
Total buildings	41,520	44,022	46,377	48,787	53,740	42,134	44,022	44,677	45,127	47,975
Housing and redevelopment	3,374	3,977	4,619	4,801	5,576	3,443	3,975	4,405	4,382	4,889
Educational	19,183	20,617	22,082	23,430	25,582	19,454	20,616	21,294	21,707	22,881
Hospital	2,125	2,626	2,760	3,089	3,305	2,156	2,626	2,661	2,863	2,957
Other ¹	16,838	16,801	16,916	17,467	19,277	17,081	16,805	16,317	16,175	17,248
Highways and streets	31,806	32,886	34,003	37,327	37,826	31,098	32,912	33,869	36,130	34,626
Conservation and development ..	1,408	1,419	1,692	1,994	2,213	1,426	1,417	1,643	1,878	2,009
Sewer systems	10,039	9,663	9,354	10,081	10,869	10,169	9,658	9,095	9,499	9,859
Water supply facilities	4,981	5,162	5,373	5,388	6,085	5,083	5,170	5,143	4,911	5,407
Miscellaneous nonbuilding ²	7,510	8,320	8,928	9,122	10,416	7,474	8,318	8,777	8,713	9,498
Federal construction	12,845	14,376	14,424	14,356	15,735	12,960	14,375	14,027	13,488	14,205
Total buildings	5,886	5,964	5,695	5,142	6,043	5,972	5,966	5,490	4,755	5,398
Housing	213	161	236	446	580	217	161	225	406	508
Industrial	1,824	1,876	1,718	1,465	1,510	1,850	1,875	1,658	1,358	1,351
Educational	20	30	21	26	27	20	30	20	24	24
Hospital	703	757	906	851	1,040	713	757	875	789	931
Other ³	3,127	3,141	2,814	2,354	2,887	3,171	3,144	2,713	2,178	2,584
Highways and streets	236	220	338	344	333	231	220	336	333	305
Military facilities	1,837	2,502	2,453	2,318	3,002	1,831	2,502	2,405	2,196	2,721
Conservation and development ..	3,603	4,533	4,217	4,376	4,176	3,650	4,529	4,102	4,124	3,789
Miscellaneous public ⁴	1,283	1,157	1,722	2,176	2,181	1,277	1,157	1,693	2,080	1,993

¹Includes general administrative buildings, prisons, police and fire stations, courthouses, passenger terminals, civic centers, etc.

²Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

³Includes federal office buildings, prisons, courthouses, space facilities, postal facilities, etc.

⁴Includes federal airport facilities, fish and wildlife preservation facilities, VA cemeteries, etc.

Table 3. Monthly Value of New Construction Put in Place—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Period	Total new construction	Private construction																All other private ⁵	
		Total ¹	Residential buildings					Nonresidential buildings									Public utilities ⁴		
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total	Telecommunications		
				Total	1 unit	2 units or more													
YEAR TO DATE																			
August 1995	354,734	267,109	153,153	104,561	93,020	11,541	87,235	21,227	17,236	4,331	27,010	2,750	3,765	7,284	3,633	(NA)	7,076	1,905	
August 1996	364,532	274,924	160,233	114,243	101,068	13,176	88,935	19,312	15,754	7,096	28,270	2,787	3,752	7,200	4,765	(NA)	(NA)	1,514	
Percent change	3	3	5	9	9	14	2	-9	-9	64	5	1	(Z)	-1	31	(NA)	(NA)	-21	
MONTHLY DATA																			
1994: August	51,445	37,974	23,342	16,064	14,718	1,347	10,908	2,521	1,922	356	3,702	381	451	1,081	494	(NA)	993	266	
September	50,829	37,422	22,671	16,055	14,574	1,481	11,167	2,649	2,005	374	3,842	355	402	999	541	(NA)	886	280	
October	49,326	36,823	22,416	15,531	14,183	1,348	10,886	2,586	1,877	378	3,785	367	379	991	524	(NA)	881	270	
November	46,640	35,667	21,122	15,002	13,612	1,390	10,975	2,861	2,048	423	3,382	339	384	1,022	516	(NA)	947	255	
December	41,499	31,745	18,081	12,863	11,543	1,320	10,225	2,721	1,837	434	3,143	326	364	956	443	(NA)	985	217	
1995: January	36,575	28,263	16,011	11,679	10,473	1,206	9,298	2,246	1,878	456	2,765	284	349	898	423	(NA)	746	207	
February	35,643	27,595	14,901	10,755	9,536	1,219	9,668	2,415	1,904	479	2,892	296	364	928	390	(NA)	702	200	
March	40,308	31,144	17,229	12,327	10,921	1,406	10,553	2,566	2,082	623	3,261	296	388	903	434	(NA)	900	224	
April	43,009	32,880	18,574	12,595	11,192	1,403	10,899	2,807	2,152	477	3,266	340	432	943	483	(NA)	885	244	
May	46,776	35,116	20,219	13,296	11,780	1,515	11,433	2,872	2,411	557	3,364	370	453	951	455	(NA)	864	266	
June	49,884	36,874	21,507	13,923	12,420	1,503	11,730	2,808	2,226	571	3,820	368	564	868	504	(NA)	1,032	269	
July	50,047	37,117	21,904	14,646	13,053	1,593	11,766	2,788	2,316	573	3,767	384	588	882	469	(NA)	970	260	
August	52,492	38,121	22,809	15,341	13,645	1,696	11,888	2,725	2,268	595	3,875	412	626	911	475	(NA)	976	235	
September	51,943	37,688	22,231	15,452	13,843	1,609	12,086	2,832	2,144	611	4,095	416	499	958	531	(NA)	917	242	
October	50,997	37,711	22,239	15,358	13,754	1,605	12,029	2,773	2,039	632	4,072	436	437	1,003	637	(NA)	951	241	
November	47,468	35,630	20,966	14,816	13,258	1,558	11,509	2,696	1,944	797	3,713	390	435	965	571	(NA)	936	235	
December	41,937	32,058	18,008	12,711	11,134	1,578	11,090	2,773	1,892	830	3,382	326	358	963	567	(NA)	866	207	
1996: January	37,712	28,828	15,975	11,645	10,246	1,399	10,080	2,424	1,708	785	3,068	314	348	913	521	(NA)	785	192	
February	36,501	28,214	15,183	11,117	9,699	1,419	10,255	2,392	1,765	847	3,150	312	377	857	556	(NA)	753	177	
March	40,506	31,479	17,863	13,089	11,548	1,541	10,475	2,455	1,766	854	3,236	302	414	843	605	(NA)	811	182	
April ^f	44,642	34,137	19,646	14,119	12,320	1,799	11,064	2,453	1,872	893	3,564	356	417	857	653	(NA)	938	183	
May ^f	48,151	36,095	21,466	15,061	13,225	1,836	11,169	2,333	2,033	877	3,620	353	469	906	580	(NA)	916	187	
June ^f	50,930	38,114	22,992	16,013	14,155	1,858	11,783	2,466	2,204	952	3,705	358	553	923	623	(NA)	851	191	
July ^f	51,999	38,313	23,278	16,393	14,778	1,615	11,723	2,407	2,183	894	3,758	370	581	907	623	(NA)	868	202	
August ^f	54,091	39,742	23,830	16,806	15,098	1,708	12,386	2,383	2,223	995	4,170	423	593	995	605	(NA)	(NA)	201	
PERCENT CHANGE																			
July 1996-August 1996	4	4	2	3	2	6	6	-1	2	11	11	14	2	10	-3	(NA)	(NA)	(Z)	

See footnotes at end of table.

Table 3. Monthly Value of New Construction Put in Place—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
YEAR TO DATE													
August 1995	87,625	39,398	3,990	1,004	16,851	2,817	14,736	23,345	1,928	4,315	6,896	3,850	7,893
August 1996	89,608	40,731	3,612	994	18,119	3,067	14,938	23,896	2,118	3,663	7,199	4,049	7,953
Percent change	2	3	-9	-1	8	9	1	2	10	-15	4	5	1
MONTHLY DATA													
1994: August	13,471	5,132	419	120	2,510	306	1,776	4,852	208	554	981	492	1,252
September	13,408	4,961	460	166	2,191	346	1,799	4,495	256	923	1,057	567	1,149
October	12,503	4,885	516	112	2,150	316	1,792	4,314	152	496	948	624	1,084
November	10,973	4,670	468	119	1,918	329	1,837	3,190	196	519	925	473	1,001
December	9,754	4,582	482	126	1,742	360	1,872	2,176	243	599	864	427	863
1995: January	8,312	4,179	448	125	1,645	317	1,643	1,538	220	461	741	430	743
February	8,048	4,145	425	125	1,669	329	1,596	1,393	178	479	698	433	723
March	9,164	4,464	460	136	1,793	344	1,730	1,834	282	567	796	395	826
April	10,130	4,724	499	130	1,887	373	1,836	2,308	223	508	787	440	1,140
May	11,659	5,082	505	125	2,044	391	2,017	3,328	246	516	878	466	1,144
June	13,010	5,609	578	118	2,421	377	2,115	3,855	263	577	1,057	514	1,136
July	12,931	5,444	522	123	2,593	364	1,842	4,160	256	554	915	568	1,034
August	14,371	5,750	552	123	2,798	321	1,956	4,929	262	653	1,025	606	1,147
September	14,255	5,689	564	180	2,526	448	1,971	4,506	361	762	1,060	533	1,345
October	13,286	5,154	566	99	2,244	356	1,890	4,588	157	375	1,058	619	1,336
November	11,839	4,995	527	117	2,091	375	1,885	3,358	267	479	1,026	596	1,119
December	9,879	4,548	510	110	1,896	350	1,682	2,364	290	458	830	487	904
1996: January	8,884	4,516	488	105	1,842	355	1,726	1,716	278	381	748	380	865
February	8,286	4,144	411	107	1,751	378	1,496	1,703	267	378	696	398	700
March	9,027	4,478	406	129	1,930	384	1,629	1,848	286	431	770	417	798
April ^f	10,505	4,779	421	122	2,103	366	1,768	2,545	252	479	925	558	967
May ^f	12,056	5,339	505	130	2,264	420	2,021	3,357	261	494	987	551	1,067
June ^f	12,815	5,476	439	132	2,466	403	2,036	3,860	262	503	965	576	1,174
July ^r	13,686	5,808	466	133	2,755	381	2,072	4,426	255	501	945	576	1,175
August ^p	14,349	6,191	477	136	3,009	379	2,191	4,443	257	496	1,163	594	1,206
PERCENT CHANGE													
July 1996- August 1996	5	7	2	2	9	-1	6	(Z)	1	-1	23	3	3

NA Not available, but estimates are included in totals. ^pPreliminary. ^rRevised. ^Z Less than 0.5 percent.

¹Includes farm nonresidential and other private categories, not shown separately. ²Includes residential improvements, not shown separately. ³Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ⁴Includes gas, electric, railroad, and petroleum pipelines, not shown separately. ⁵Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁶Includes general administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities etc. ⁷Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Table 4. Monthly Value of New Construction Put in Place—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Period	Total new construction	Private construction																		
		Total ¹	Residential buildings					Nonresidential buildings										Public utilities ⁴		All other private ⁵
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total	Telecommunications			
				Total	1 unit	2 units or more														
1994: August	530,744	403,993	240,386	169,554	155,060	14,494	121,628	29,314	22,047	4,211	39,415	4,060	4,465	12,564	5,552	(NA)	10,649	3,072		
September	535,189	406,266	242,418	170,829	153,950	16,880	122,946	30,274	23,049	4,293	39,541	3,715	4,401	11,643	6,028	(NA)	10,015	3,072		
October	536,509	402,554	239,909	167,688	152,366	15,323	122,623	29,248	22,612	4,592	40,622	3,879	4,483	11,393	5,793	(NA)	10,100	2,940		
November	539,847	410,777	241,309	168,162	151,811	16,351	128,334	34,026	24,113	5,163	38,767	3,710	4,910	11,796	5,850	(NA)	10,404	2,850		
December	545,940	412,358	243,607	169,768	153,056	16,711	126,255	31,396	23,371	5,426	39,740	4,004	5,035	11,675	5,607	(NA)	11,110	2,770		
1995: January	542,682	411,081	242,504	169,184	152,339	16,845	127,047	30,114	24,201	6,020	40,466	3,901	5,095	11,358	5,893	(NA)	11,026	2,750		
February	545,532	414,887	240,496	167,438	150,374	17,065	132,172	32,200	24,383	6,219	42,480	4,160	5,390	11,866	5,473	(NA)	10,242	2,897		
March	547,886	413,202	237,763	163,771	145,452	18,319	133,946	32,075	25,058	7,539	43,620	3,916	5,199	11,013	5,525	(NA)	10,989	3,001		
April	549,273	410,812	234,221	159,871	142,420	17,452	135,161	34,336	25,588	5,617	42,458	4,399	5,575	11,571	5,617	(NA)	11,765	3,127		
May	541,548	405,495	232,480	157,569	140,104	17,465	133,296	33,591	27,118	6,313	39,849	4,462	5,261	11,230	5,473	(NA)	10,042	3,093		
June	545,145	406,799	231,082	155,869	139,025	16,844	134,482	32,746	26,139	6,357	42,964	4,535	5,702	10,216	5,822	(NA)	11,390	3,023		
July	545,004	409,444	231,325	158,319	140,605	17,714	137,695	33,059	28,356	6,792	42,645	4,623	5,831	10,832	5,557	(NA)	11,844	2,858		
August	542,324	405,911	234,464	161,783	143,633	18,150	133,098	31,809	26,167	6,903	41,744	4,426	6,121	10,655	5,273	(NA)	10,260	2,741		
September	550,467	411,326	237,663	164,310	145,975	18,335	134,793	32,427	25,003	7,365	42,657	4,431	5,652	11,225	6,032	(NA)	10,739	2,682		
October	549,952	410,550	237,952	165,774	147,625	18,149	133,914	31,422	23,939	7,335	43,320	4,520	5,189	11,369	6,821	(NA)	10,501	2,626		
November	549,745	411,015	239,938	166,432	147,997	18,434	134,713	32,032	23,207	9,708	42,348	4,281	5,394	11,228	6,515	(NA)	10,351	2,619		
December	555,702	417,191	243,104	168,147	148,283	19,864	137,111	31,996	23,769	10,471	42,678	4,082	5,099	11,868	7,148	(NA)	10,354	2,612		
1996: January	558,952	418,896	242,474	169,188	149,752	19,436	137,412	32,495	22,274	10,338	44,201	4,224	5,110	11,468	7,301	(NA)	11,367	2,538		
February	544,577	411,248	238,558	166,911	147,696	19,215	134,914	30,792	22,154	10,191	44,307	4,209	5,247	10,620	7,394	(NA)	10,441	2,464		
March	556,983	419,726	245,881	173,821	153,802	20,018	134,302	30,593	21,827	10,321	43,676	4,134	5,724	10,483	7,543	(NA)	10,500	2,453		
April	564,623	424,233	248,013	179,283	156,771	22,512	135,524	30,285	22,072	10,217	45,493	4,384	5,320	10,252	7,501	(NA)	11,441	2,339		
May ^f	558,481	418,120	247,486	178,181	156,971	21,210	130,854	27,310	23,162	9,986	42,672	4,365	5,417	10,916	7,025	(NA)	10,792	2,186		
June ^f	563,122	423,106	246,909	177,696	156,842	20,854	137,700	28,755	26,532	11,133	42,748	4,531	5,692	11,076	7,234	(NA)	10,045	2,179		
July ^f	556,925	417,918	244,084	174,830	156,935	17,896	135,531	28,543	25,607	10,608	42,388	4,346	5,724	10,992	7,323	(NA)	9,987	2,241		
August ^p	562,081	423,393	243,993	175,633	157,134	18,498	139,534	27,816	25,598	11,886	45,038	4,668	5,778	11,727	7,022	(NA)	(NA)	2,374		
PERCENT CHANGE																				
July 1996- August 1996	1	1	(Z)	(Z)	(Z)	3	3	-3	(Z)	12	6	7	1	7	-4	(NA)	(NA)	6		

See footnotes at end of table.

Table 4. Monthly Value of New Construction Put in Place—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
1994: August	126,752	52,841	5,000	1,435	22,826	3,597	19,981	38,082	2,442	5,713	10,108	5,317	12,249
September	128,923	53,190	5,177	1,525	23,052	3,852	19,584	37,585	2,326	7,573	10,874	6,269	11,107
October	133,955	57,886	6,061	1,536	25,474	3,727	21,087	38,062	2,312	7,322	9,967	6,407	11,999
November	129,070	56,422	5,385	1,543	24,124	3,903	21,466	36,626	2,235	6,443	10,328	5,359	11,657
December	133,582	58,789	5,919	1,501	23,780	4,292	23,297	35,863	2,742	7,843	11,422	5,459	11,464
1995: January	131,601	57,719	5,792	1,623	23,928	4,107	22,268	35,977	2,818	6,733	10,748	6,178	11,428
February	130,645	58,253	5,654	1,706	24,787	4,296	21,811	34,383	2,711	7,011	10,514	6,724	11,049
March	134,684	59,063	5,796	1,606	25,193	4,309	22,160	37,621	3,144	7,237	10,577	5,452	11,589
April	138,461	60,399	6,130	1,563	25,559	4,539	22,607	37,278	2,911	6,692	10,272	5,653	15,257
May	136,053	60,656	6,046	1,497	25,052	4,719	23,342	37,044	2,935	6,069	10,581	5,351	13,418
June	138,346	61,574	6,375	1,346	25,923	4,353	23,577	37,307	2,980	6,422	11,951	5,660	12,451
July	135,560	59,453	6,263	1,426	25,546	4,320	21,897	38,343	3,152	6,440	10,618	6,115	11,439
August	136,413	58,626	6,364	1,498	25,141	3,877	21,745	38,809	3,131	7,003	10,582	6,561	11,701
September	139,140	61,672	6,398	1,636	27,103	4,797	21,738	38,209	3,218	6,212	10,923	5,979	12,928
October	139,402	59,688	6,540	1,412	26,123	4,120	21,493	40,125	2,295	5,222	11,201	6,422	14,449
November	138,729	60,232	6,181	1,467	26,088	4,556	21,940	38,344	3,217	5,888	11,412	6,594	13,042
December	138,510	59,643	6,368	1,367	26,388	4,189	21,331	40,402	3,211	6,014	10,846	6,317	12,078
1996: January	140,056	62,748	6,381	1,350	26,983	4,553	23,481	39,444	3,554	5,352	10,556	5,469	12,933
February	133,329	55,928	5,198	1,407	24,931	4,868	19,524	40,956	3,982	5,455	10,456	5,992	10,559
March	137,257	60,264	5,142	1,560	27,506	4,783	21,273	39,527	3,126	5,811	10,737	5,916	11,876
April ^f	140,390	60,103	5,155	1,453	27,758	4,317	21,420	39,454	3,168	5,956	12,294	7,137	12,278
May ^f	140,361	63,106	5,868	1,471	27,575	5,083	23,109	37,715	3,020	5,756	11,800	6,380	12,584
June ^f	140,016	61,397	4,952	1,528	27,020	4,561	23,337	38,308	3,140	6,004	11,056	6,463	13,648
July ^f	139,007	62,723	5,531	1,546	27,080	4,482	24,083	38,596	3,044	5,508	10,682	6,242	12,212
August ^p	138,688	63,719	5,550	1,598	27,459	4,652	24,461	36,046	2,907	5,315	12,240	6,320	12,141
PERCENT CHANGE													
July 1996- August 1996	(Z)	2	(Z)	3	1	4	2	-7	-5	-4	15	1	-1

NA Not available, but estimates are included in totals. ^pPreliminary. ^rRevised. Z Less than 0.5 percent.

¹Includes farm nonresidential and other private categories, not shown separately. ²Includes residential improvements, not shown separately. ³Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ⁴Includes gas, electric, railroad, and petroleum pipelines, not shown separately. ⁵Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁶Includes general administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities etc. ⁷Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Table 5. Monthly Value of New Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period	Total new construction	Private construction																	
		Total ¹	Residential buildings					Nonresidential buildings									Public utilities ⁴		All other private ⁵
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total	Telecommunications		
				Total	1 unit	2 units or more													
1994: August	489,808	370,803	218,931	154,421	141,221	13,200	112,203	27,042	20,339	3,885	36,360	3,746	4,119	11,590	5,121	(NA)	10,399	2,920	
September	491,319	370,724	219,185	154,457	139,195	15,262	112,898	27,800	21,166	3,942	36,310	3,412	4,042	10,692	5,535	(NA)	9,790	2,914	
October	489,672	365,142	215,551	150,663	136,896	13,767	112,086	26,735	20,669	4,198	37,131	3,546	4,098	10,414	5,296	(NA)	9,806	2,773	
November	489,846	370,368	215,455	150,144	135,546	14,599	116,667	30,933	21,921	4,694	35,243	3,372	4,464	10,723	5,319	(NA)	10,033	2,679	
December	492,290	369,207	215,773	150,370	135,568	14,802	114,154	28,387	21,131	4,906	35,932	3,620	4,552	10,556	5,069	(NA)	10,662	2,596	
1995: January	487,568	366,987	214,226	149,455	134,575	14,880	114,560	27,154	21,822	5,428	36,489	3,517	4,594	10,241	5,314	(NA)	10,541	2,558	
February	489,591	370,159	212,264	147,783	132,722	15,061	119,181	29,035	21,986	5,608	38,305	3,751	4,861	10,699	4,935	(NA)	9,782	2,685	
March	491,902	368,798	209,853	144,546	128,378	16,169	120,890	28,949	22,615	6,804	39,368	3,534	4,692	9,940	4,987	(NA)	10,496	2,774	
April	492,453	366,208	206,544	140,980	125,590	15,389	121,767	30,934	23,052	5,061	38,250	3,963	5,023	10,424	5,060	(NA)	11,036	2,880	
May	484,860	361,010	204,828	138,827	123,440	15,388	119,978	30,235	24,408	5,682	35,867	4,016	4,735	10,108	4,927	(NA)	9,281	2,843	
June	485,888	360,944	203,239	137,088	122,274	14,814	120,504	29,343	23,422	5,697	38,498	4,063	5,109	9,155	5,217	(NA)	10,307	2,750	
July	484,230	362,250	202,916	138,876	123,337	15,539	123,052	29,544	25,340	6,070	38,110	4,131	5,211	9,680	4,966	(NA)	10,584	2,591	
August	480,946	358,092	204,772	141,295	125,443	15,851	118,838	28,401	23,363	6,164	37,271	3,952	5,465	9,513	4,708	(NA)	9,144	2,491	
September	486,064	361,289	206,663	142,878	126,935	15,944	119,816	28,824	22,225	6,547	37,918	3,938	5,024	9,978	5,362	(NA)	9,512	2,430	
October	484,948	360,232	206,915	144,151	128,369	15,782	118,718	27,856	21,222	6,502	38,404	4,007	4,600	10,079	6,047	(NA)	9,301	2,374	
November	485,048	361,032	209,005	144,975	128,918	16,058	119,532	28,422	20,592	8,614	37,576	3,798	4,786	9,963	5,781	(NA)	9,176	2,363	
December	490,672	366,873	212,133	146,725	129,392	17,333	121,660	28,391	21,090	9,291	37,868	3,622	4,525	10,531	6,343	(NA)	9,196	2,358	
1996: January	492,890	367,894	211,214	147,376	130,446	16,930	121,819	28,808	19,747	9,165	39,185	3,745	4,530	10,167	6,472	(NA)	10,086	2,286	
February	479,798	360,869	207,623	145,266	128,543	16,723	119,499	27,274	19,622	9,027	39,245	3,728	4,647	9,407	6,549	(NA)	9,264	2,218	
March	489,906	368,221	214,369	151,544	134,091	17,453	118,641	27,026	19,282	9,118	38,583	3,652	5,056	9,261	6,663	(NA)	9,292	2,190	
April	496,977	372,614	216,605	156,579	136,918	19,661	119,827	26,777	19,515	9,033	40,223	3,877	4,704	9,065	6,632	(NA)	10,116	2,083	
May ^f	490,216	366,259	215,580	155,210	136,734	18,475	115,391	24,083	20,425	8,806	37,630	3,849	4,777	9,626	6,195	(NA)	9,517	1,941	
June ^f	492,819	369,521	214,331	154,250	136,148	18,102	121,108	25,290	23,335	9,792	37,597	3,985	5,006	9,741	6,362	(NA)	8,842	1,928	
July ^f	484,690	363,069	210,963	151,107	135,639	15,467	118,368	24,928	22,364	9,264	37,020	3,796	4,999	9,600	6,396	(NA)	8,745	1,973	
August ^p	488,106	367,155	210,702	151,669	135,695	15,974	121,439	24,209	22,279	10,345	39,198	4,062	5,029	10,206	6,112	(NA)	(NA)	2,081	
PERCENT CHANGE																			
July 1996- August 1996	1	1	(Z)	(Z)	(Z)	3	3	-3	(Z)	12	6	7	1	6	-4	(NA)	(NA)	5	

See footnotes at end of table.

Table 5. Monthly Value of New Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.

[Millions of dollars]

Period		Public construction												
		Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
			Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
1994:	August	119,005	48,687	4,554	1,324	21,058	3,319	18,433	36,688	2,302	5,364	9,491	4,830	11,643
	September	120,595	48,770	4,681	1,400	21,168	3,537	17,983	36,104	2,184	7,104	10,201	5,694	10,538
	October	124,530	52,818	5,446	1,404	23,285	3,407	19,275	36,319	2,159	6,830	9,298	5,788	11,320
	November	119,478	51,205	4,808	1,403	21,931	3,548	19,515	34,815	2,078	5,993	9,607	4,824	10,956
	December	123,082	53,045	5,242	1,357	21,501	3,881	21,064	33,994	2,537	7,275	10,596	4,891	10,744
1995:	January	120,581	51,940	5,117	1,464	21,576	3,704	20,079	33,813	2,595	6,195	9,888	5,521	10,631
	February	119,433	52,420	4,990	1,538	22,351	3,874	19,667	32,224	2,492	6,420	9,628	6,009	10,240
	March	123,105	53,191	5,115	1,449	22,737	3,889	20,000	35,159	2,887	6,616	9,668	4,873	10,711
	April	126,245	54,297	5,406	1,408	23,026	4,089	20,367	34,709	2,666	6,100	9,364	5,061	14,048
	May	123,850	54,480	5,327	1,347	22,549	4,248	21,010	34,396	2,683	5,527	9,636	4,794	12,333
	June	124,944	55,069	5,607	1,206	23,229	3,900	21,127	34,258	2,704	5,786	10,767	5,031	11,329
	July	121,979	53,027	5,494	1,274	22,830	3,861	19,568	34,952	2,845	5,802	9,566	5,417	10,371
	August	122,854	52,220	5,558	1,338	22,448	3,461	19,415	35,410	2,826	6,344	9,585	5,832	10,637
	September	124,775	54,696	5,564	1,454	24,091	4,264	19,323	34,704	2,892	5,611	9,867	5,296	11,710
	October	124,716	52,804	5,687	1,252	23,158	3,653	19,054	36,279	2,054	4,717	10,119	5,679	13,064
	November	124,016	53,344	5,384	1,302	23,148	4,042	19,468	34,575	2,878	5,319	10,309	5,820	11,770
	December	123,799	52,829	5,557	1,213	23,414	3,717	18,927	36,398	2,872	5,433	9,797	5,570	10,900
1996:	January	124,996	55,529	5,558	1,197	23,921	4,037	20,817	35,471	3,173	4,830	9,527	4,814	11,651
	February	118,929	49,458	4,524	1,246	22,082	4,312	17,294	36,798	3,552	4,919	9,428	5,270	9,504
	March	121,685	53,177	4,483	1,378	24,299	4,225	18,792	35,104	2,769	5,211	9,630	5,190	10,603
	April ^f	124,363	53,086	4,502	1,284	24,543	3,817	18,939	34,915	2,801	5,341	11,026	6,261	10,933
	May ^f	123,958	55,586	5,112	1,298	24,316	4,482	20,378	33,229	2,663	5,153	10,564	5,587	11,176
	June ^f	123,299	53,943	4,299	1,344	23,764	4,011	20,525	33,633	2,759	5,361	9,871	5,655	12,078
	July ^f	121,620	54,730	4,780	1,351	23,651	3,914	21,033	33,679	2,659	4,888	9,479	5,437	10,750
	August ^p	120,951	55,419	4,793	1,390	23,898	4,049	21,289	31,345	2,530	4,700	10,822	5,496	10,640
PERCENT CHANGE														
July 1996-	August 1996	-1	1	(Z)	3	1	3	1	-7	-5	-4	14	1	-1

NA Not available, but estimates are included in totals. ^pPreliminary. ^rRevised. ^Z Less than 0.5 percent.

¹Includes farm nonresidential and other private categories, not shown separately. ²Includes residential improvements, not shown separately. ³Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ⁴Includes gas, electric, railroad, and petroleum pipelines, not shown separately. ⁵Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁶Includes general administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities etc. ⁷Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Table 6. Monthly Value of New Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period	Total new construction	Private construction																	
		Total ¹	Residential buildings					Nonresidential buildings									Public utilities ⁴		All other private ⁵
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total	Telecommunications		
				Total	1 unit	2 units or more													
YEAR TO DATE																			
August 1995	316,890	237,414	134,745	92,000	81,846	10,155	78,375	19,074	15,486	3,892	24,263	2,469	3,379	6,546	3,265	(NA)	6,543	1,747	
August 1996	319,363	240,344	139,216	99,265	87,811	11,453	78,286	17,007	13,866	6,248	24,880	2,453	3,300	6,340	4,196	(NA)	(NA)	1,346	
Percent change	1	1	3	8	7	13	(Z)	-11	-10	61	3	-1	-2	-3	29	(NA)	(NA)	-23	
MONTHLY DATA																			
1994: August	47,521	34,843	21,259	14,631	13,404	1,227	10,062	2,326	1,773	329	3,415	351	416	997	456	(NA)	970	253	
September	46,709	34,139	20,498	14,516	13,177	1,339	10,254	2,433	1,841	343	3,528	326	369	918	496	(NA)	866	266	
October	45,040	33,391	20,140	13,954	12,743	1,212	9,951	2,364	1,716	345	3,459	335	346	906	479	(NA)	856	254	
November	42,320	32,159	18,859	13,395	12,154	1,241	9,977	2,601	1,861	384	3,075	308	349	929	469	(NA)	913	239	
December	37,414	28,444	16,015	11,393	10,224	1,169	9,245	2,460	1,661	392	2,842	295	329	865	401	(NA)	945	203	
1995: January	32,832	25,243	14,144	10,317	9,252	1,065	8,384	2,025	1,693	411	2,493	256	315	810	381	(NA)	713	192	
February	31,973	24,641	13,152	9,492	8,417	1,076	8,718	2,178	1,717	432	2,608	267	328	836	352	(NA)	671	186	
March	36,169	27,813	15,207	10,880	9,639	1,241	9,524	2,316	1,879	562	2,943	267	350	815	392	(NA)	860	207	
April	38,534	29,311	16,379	11,107	9,869	1,238	9,819	2,529	1,938	430	2,942	306	389	850	435	(NA)	830	225	
May	41,880	31,262	17,814	11,714	10,379	1,335	10,291	2,585	2,170	501	3,028	333	408	856	410	(NA)	798	244	
June	44,465	32,708	18,915	12,245	10,923	1,322	10,510	2,516	1,995	512	3,423	329	505	778	452	(NA)	934	244	
July	44,466	32,823	19,214	12,847	11,450	1,397	10,515	2,492	2,069	512	3,366	343	525	788	419	(NA)	867	235	
August	46,571	33,613	19,920	13,398	11,917	1,481	10,614	2,433	2,025	532	3,460	368	559	813	424	(NA)	870	214	
September	45,892	33,093	19,331	13,437	12,038	1,399	10,743	2,517	1,906	543	3,640	370	443	851	472	(NA)	812	219	
October	44,979	33,082	19,339	13,355	11,960	1,395	10,664	2,458	1,807	560	3,610	387	387	889	564	(NA)	843	218	
November	41,879	31,295	18,263	12,906	11,549	1,357	10,212	2,392	1,725	707	3,294	346	386	856	506	(NA)	830	212	
December	37,027	28,203	15,714	11,092	9,715	1,377	9,840	2,461	1,678	736	3,001	289	317	855	503	(NA)	769	187	
1996: January	33,249	25,329	13,915	10,144	8,925	1,219	8,936	2,149	1,514	696	2,720	278	309	809	462	(NA)	697	173	
February	32,158	24,777	13,214	9,676	8,441	1,235	9,083	2,118	1,563	750	2,790	277	334	759	493	(NA)	668	159	
March	35,624	27,624	15,574	11,412	10,068	1,344	9,253	2,169	1,560	755	2,858	267	366	745	534	(NA)	718	162	
April ^f	39,293	29,988	17,158	12,331	10,759	1,571	9,783	2,169	1,656	790	3,151	314	369	758	577	(NA)	830	163	
May ^f	42,264	31,618	18,699	13,120	11,520	1,600	9,849	2,057	1,792	773	3,192	311	413	799	511	(NA)	808	166	
June ^f	44,561	33,278	19,958	13,900	12,287	1,613	10,364	2,169	1,939	837	3,258	315	486	812	548	(NA)	749	169	
July ^f	45,247	33,275	20,119	14,169	12,773	1,396	10,238	2,102	1,907	781	3,282	323	507	792	544	(NA)	760	178	
August ^p	46,967	34,455	20,579	14,513	13,038	1,475	10,780	2,074	1,935	866	3,629	368	516	866	527	(NA)	(NA)	176	
PERCENT CHANGE																			
July 1996-August 1996	4	4	2	2	2	6	5	-1	1	11	11	14	2	9	-3	(NA)	(NA)	-1	

See footnotes at end of table.

Table 6. Monthly Value of New Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
YEAR TO DATE													
August 1995	79,475	35,317	3,510	903	15,131	2,533	13,239	21,532	1,757	3,924	6,269	3,433	7,239
August 1996	79,021	35,799	3,140	875	15,937	2,701	13,147	21,036	1,869	3,274	6,435	3,543	7,061
Percent change	-1	1	-11	-3	5	7	-1	-2	6	-17	3	3	-2
MONTHLY DATA													
1994: August	12,678	4,730	382	111	2,316	282	1,639	4,675	196	520	921	447	1,190
September	12,570	4,549	415	153	2,012	318	1,652	4,317	241	866	991	515	1,090
October	11,648	4,457	463	102	1,965	288	1,638	4,116	142	463	884	563	1,023
November	10,161	4,238	418	108	1,743	299	1,670	3,032	182	483	861	425	941
December	8,970	4,134	427	114	1,575	325	1,692	2,062	225	556	802	382	809
1995: January	7,589	3,760	396	112	1,483	286	1,482	1,445	202	424	681	385	691
February	7,332	3,730	375	113	1,505	297	1,439	1,305	163	439	639	387	670
March	8,355	4,020	406	123	1,618	311	1,562	1,714	259	518	728	353	763
April	9,223	4,247	440	117	1,700	336	1,654	2,149	204	463	717	393	1,050
May	10,618	4,564	445	113	1,840	352	1,815	3,090	224	470	800	417	1,051
June	11,757	5,017	508	106	2,170	338	1,895	3,540	238	520	952	457	1,034
July	11,643	4,856	458	110	2,317	326	1,646	3,792	231	499	824	503	937
August	12,958	5,123	482	109	2,498	287	1,746	4,497	236	591	928	538	1,043
September	12,798	5,046	490	160	2,245	398	1,752	4,092	324	689	957	472	1,218
October	11,897	4,560	492	87	1,989	315	1,676	4,148	140	339	955	547	1,208
November	10,585	4,423	459	104	1,856	332	1,672	3,028	238	432	927	526	1,010
December	8,824	4,028	445	98	1,682	310	1,492	2,129	259	413	750	429	816
1996: January	7,920	3,996	425	93	1,633	315	1,530	1,543	248	344	675	335	779
February	7,381	3,664	358	95	1,551	335	1,325	1,530	238	341	628	350	630
March	8,000	3,951	354	114	1,705	339	1,439	1,641	254	386	690	365	712
April ^f	9,306	4,221	367	108	1,859	324	1,563	2,252	222	430	830	489	861
May ^f	10,647	4,703	440	115	1,996	371	1,782	2,957	230	442	884	482	948
June ^f	11,283	4,811	381	116	2,168	354	1,791	3,388	230	449	861	504	1,039
July ^r	11,972	5,068	403	116	2,406	333	1,810	3,862	223	444	839	502	1,035
August ^p	12,512	5,385	412	118	2,619	330	1,907	3,863	224	438	1,028	516	1,057
PERCENT CHANGE													
July 1996-													
August 1996	5	6	2	2	9	-1	5	(Z)	(Z)	-1	23	3	2

NA Not available, but estimates are included in totals. ^pPreliminary. ^rRevised. ^Z Less than 0.5 percent.

¹Includes farm nonresidential and other private categories, not shown separately. ²Includes residential improvements, not shown separately. ³Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ⁴Includes gas, electric, railroad, and petroleum pipelines, not shown separately. ⁵Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁶Includes general administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities etc. ⁷Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Table 7. Monthly Value of New Public Construction Put in Place—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total State and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1994:	August	12,243	4,763	384	2,508	245	1,626	4,811	189	981	492	1,007
	September	11,706	4,455	420	2,185	269	1,580	4,454	250	1,057	567	924
	October	11,402	4,439	478	2,149	257	1,556	4,277	179	948	624	936
	November	9,743	4,199	436	1,913	249	1,600	3,161	175	925	473	811
	December	8,351	4,028	410	1,739	283	1,596	2,155	208	864	427	669
1995:	January	7,131	3,721	426	1,645	239	1,412	1,524	167	741	430	549
	February	6,940	3,680	390	1,667	247	1,378	1,380	170	698	433	579
	March	7,771	3,935	420	1,792	260	1,463	1,818	193	796	395	634
	April	8,904	4,264	472	1,887	292	1,613	2,287	200	787	440	927
	May	10,305	4,502	458	2,039	277	1,727	3,298	220	878	466	941
	June	11,649	5,089	528	2,419	286	1,855	3,819	221	1,057	514	949
	July	11,628	4,979	474	2,591	289	1,624	4,126	166	915	568	875
	August	12,971	5,251	500	2,796	243	1,713	4,887	209	1,025	606	994
	September	12,264	4,974	499	2,520	324	1,631	4,466	162	1,060	533	1,070
	October	12,384	4,786	510	2,242	302	1,733	4,551	171	1,058	619	1,199
	November	10,567	4,489	443	2,091	286	1,669	3,329	173	1,026	596	954
	December	8,636	4,071	457	1,892	261	1,460	2,343	161	830	487	745
1996:	January	7,689	4,026	438	1,841	285	1,463	1,702	129	748	380	705
	February	7,116	3,667	368	1,751	268	1,280	1,690	141	696	398	524
	March	7,764	3,974	361	1,930	271	1,412	1,832	147	770	417	626
	April ^f	9,302	4,315	365	2,102	286	1,562	2,525	153	925	558	827
	May ^f	10,746	4,778	444	2,262	284	1,788	3,328	162	987	551	941
	June ^f	11,544	4,950	388	2,465	329	1,769	3,825	178	965	576	1,050
	July ^f	12,442	5,280	408	2,755	288	1,830	4,393	195	945	576	1,053
	August ^p	13,151	5,717	427	3,008	305	1,976	4,402	195	1,163	594	1,082
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1994:	August	1,228	370	36	120	2	62	150	(NA)	208	365	245
	September	1,702	507	39	166	5	76	220	(NA)	256	673	225
	October	1,100	446	38	112	1	59	236	(NA)	152	318	148
	November	1,230	471	31	119	5	80	236	(NA)	196	344	190
	December	1,403	554	72	126	3	77	276	(NA)	243	391	194
1995:	January	1,181	458	22	125	1	79	232	(NA)	220	295	194
	February	1,108	465	36	125	3	83	219	(NA)	178	309	144
	March	1,393	529	40	136	1	85	267	(NA)	282	374	192
	April	1,225	461	27	130	1	81	223	(NA)	223	307	213
	May	1,355	580	47	125	5	113	290	(NA)	246	297	203
	June	1,361	521	50	118	2	90	260	(NA)	263	356	187
	July	1,303	465	48	123	1	75	218	(NA)	256	389	159
	August	1,400	499	53	123	2	79	243	(NA)	262	444	154
	September	1,991	715	65	180	6	124	340	(NA)	361	600	275
	October	902	368	56	99	2	54	158	(NA)	157	204	136
	November	1,272	506	84	117	-	89	216	(NA)	267	306	165
	December	1,243	477	53	110	4	89	222	(NA)	290	297	159
1996:	January	1,194	490	49	105	1	71	263	(NA)	278	253	160
	February	1,170	477	43	107	-	110	216	(NA)	267	237	177
	March	1,263	504	45	129	1	113	217	(NA)	286	284	172
	April ^f	1,203	464	56	122	1	80	206	(NA)	252	326	141
	May ^f	1,310	561	60	130	1	136	233	(NA)	261	332	127
	June ^f	1,271	526	52	132	1	75	267	(NA)	262	325	123
	July ^f	1,244	528	58	133	1	94	242	(NA)	255	305	123
	August ^p	1,198	474	50	136	1	74	214	(NA)	257	301	124

- Represent zero or rounds to zero. NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised.

¹Includes general administrative buildings, prisons, police and fire stations, courthouses, passenger terminals, civic centers, etc. ²Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc. ³Includes federal office buildings, prisons, courthouses, space facilities, postal facilities, etc. ⁴Includes federal airport facilities, fish and wildlife preservation facilities, VA cemeteries, etc.

Table 8. Monthly Value of New Public Construction Put in Place—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total State and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1994:	August	113,040	48,423	4,574	22,804	2,862	18,183	37,760	1,805	10,108	5,317	9,626
	September	114,905	48,540	4,816	23,004	3,151	17,568	37,242	2,553	10,874	6,269	9,428
	October	117,079	51,745	5,542	25,457	2,916	17,830	37,736	1,800	9,967	6,407	9,424
	November	113,454	50,294	4,978	24,059	2,863	18,394	36,293	1,985	10,328	5,359	9,195
	December	116,318	52,191	5,061	23,742	3,380	20,008	35,517	2,780	11,422	5,459	8,948
1995:	January	115,713	51,753	5,500	23,920	3,081	19,252	35,649	2,650	10,748	6,178	8,736
	February	114,884	51,913	5,167	24,750	3,167	18,828	34,062	2,652	10,514	6,724	9,019
	March	118,307	52,809	5,320	25,185	3,306	18,999	37,292	2,842	10,577	5,452	9,335
	April	122,882	54,837	5,807	25,552	3,561	19,917	36,938	2,698	10,272	5,653	12,484
	May	119,959	53,708	5,481	24,998	3,362	19,867	36,710	2,577	10,581	5,351	11,032
	June	122,971	55,640	5,808	25,897	3,324	20,612	36,959	2,413	11,951	5,660	10,348
	July	120,171	54,060	5,704	25,530	3,451	19,375	38,029	1,807	10,618	6,115	9,542
	August	120,251	52,522	5,721	25,116	2,914	18,772	38,479	2,105	10,582	6,561	10,003
	September	122,430	55,184	5,813	27,049	3,670	18,652	37,870	1,642	10,923	5,979	10,832
	October	125,686	54,421	5,741	26,094	3,351	19,234	39,801	1,726	11,201	6,422	12,114
	November	122,829	53,894	5,129	26,086	3,442	19,237	38,013	1,984	11,412	6,594	10,932
	December	123,111	53,729	5,710	26,344	3,092	18,583	40,043	2,163	10,846	6,317	10,014
1996:	January	124,369	56,466	5,750	26,968	3,644	20,104	39,122	1,970	10,556	5,469	10,786
	February	117,073	49,677	4,629	24,928	3,423	16,697	40,644	2,188	10,456	5,992	8,116
	March	122,020	54,155	4,594	27,499	3,420	18,643	39,185	2,286	10,737	5,916	9,740
	April ^f	125,654	54,570	4,490	27,744	3,366	18,970	39,144	1,954	12,294	7,137	10,554
	May ^f	125,361	56,760	5,186	27,561	3,541	20,471	37,389	1,913	11,800	6,380	11,119
	June ^f	125,022	55,323	4,358	27,009	3,701	20,255	37,960	2,064	11,056	6,463	12,155
	July ^f	124,612	56,570	4,851	27,072	3,389	21,257	38,308	2,006	10,682	6,242	10,804
	August ^p	125,092	58,138	4,965	27,449	3,785	21,939	35,714	1,934	12,240	6,320	10,746
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1994:	August	13,712	4,418	427	1,435	23	735	1,798	(NA)	2,442	3,908	2,623
	September	14,018	4,650	361	1,525	48	701	2,015	(NA)	2,326	5,020	1,680
	October	16,876	6,141	519	1,536	17	811	3,257	(NA)	2,312	5,522	2,576
	November	15,616	6,127	407	1,543	65	1,040	3,072	(NA)	2,235	4,458	2,462
	December	17,264	6,598	857	1,501	38	912	3,289	(NA)	2,742	5,063	2,515
1995:	January	15,888	5,966	292	1,623	8	1,027	3,016	(NA)	2,818	4,084	2,692
	February	15,761	6,341	487	1,706	37	1,129	2,982	(NA)	2,711	4,358	2,030
	March	16,377	6,254	475	1,606	8	1,004	3,161	(NA)	3,144	4,396	2,254
	April	15,579	5,562	324	1,563	7	978	2,690	(NA)	2,911	3,994	2,773
	May	16,094	6,947	565	1,497	54	1,357	3,474	(NA)	2,935	3,492	2,386
	June	15,375	5,934	568	1,346	26	1,029	2,965	(NA)	2,980	4,009	2,103
	July	15,388	5,392	559	1,426	16	870	2,522	(NA)	3,152	4,633	1,897
	August	16,162	6,104	643	1,498	26	963	2,974	(NA)	3,131	4,898	1,698
	September	16,711	6,487	585	1,636	54	1,126	3,086	(NA)	3,218	4,570	2,095
	October	13,715	5,267	799	1,412	29	769	2,258	(NA)	2,295	3,496	2,335
	November	15,901	6,338	1,052	1,467	3	1,114	2,703	(NA)	3,217	3,904	2,110
	December	15,399	5,914	658	1,367	43	1,097	2,748	(NA)	3,211	3,851	2,064
1996:	January	15,687	6,282	631	1,350	14	910	3,377	(NA)	3,554	3,382	2,147
	February	16,256	6,252	569	1,407	3	1,445	2,828	(NA)	3,982	3,267	2,443
	March	15,237	6,109	549	1,560	7	1,363	2,630	(NA)	3,126	3,524	2,136
	April ^f	14,736	5,533	665	1,453	14	951	2,450	(NA)	3,168	4,001	1,724
	May ^f	15,000	6,346	682	1,471	14	1,542	2,638	(NA)	3,020	3,843	1,465
	June ^f	14,994	6,074	594	1,528	10	860	3,082	(NA)	3,140	3,939	1,493
	July ^f	14,395	6,153	680	1,546	8	1,093	2,826	(NA)	3,044	3,502	1,408
	August ^p	13,596	5,581	585	1,598	9	867	2,522	(NA)	2,907	3,381	1,394

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised.

¹Includes general administrative buildings, prisons, police and fire stations, courthouses, passenger terminals, civic centers, etc. ²Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc. ³Includes federal office buildings, prisons, courthouses, space facilities, postal facilities, etc. ⁴Includes federal airport facilities, fish and wildlife preservation facilities, VA cemeteries, etc.

Table 9. Monthly Value of New Public Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total State and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1994:	August	106,161	44,617	4,165	21,037	2,641	16,774	36,378	1,695	9,491	4,830	9,150
	September	107,514	44,505	4,354	21,124	2,893	16,133	35,775	2,395	10,201	5,694	8,945
	October	108,875	47,213	4,979	23,270	2,665	16,298	36,007	1,679	9,298	5,788	8,890
	November	105,059	45,641	4,445	21,872	2,603	16,722	34,499	1,846	9,607	4,824	8,642
	December	107,214	47,096	4,483	21,467	3,056	18,090	33,665	2,579	10,596	4,891	8,387
1995:	January	106,043	46,565	4,859	21,569	2,778	17,360	33,505	2,438	9,888	5,521	8,126
	February	105,059	46,712	4,561	22,317	2,856	16,978	31,923	2,429	9,628	6,009	8,358
	March	108,174	47,556	4,696	22,730	2,984	17,147	34,853	2,598	9,668	4,873	8,628
	April	112,064	49,292	5,121	23,020	3,208	17,943	34,393	2,459	9,364	5,061	11,495
	May	109,241	48,238	4,829	22,500	3,026	17,882	34,086	2,347	9,636	4,794	10,140
	June	111,087	49,761	5,108	23,205	2,978	18,470	33,939	2,174	10,767	5,031	9,416
	July	108,145	48,217	5,003	22,815	3,084	17,315	34,667	1,628	9,566	5,417	8,651
	August	108,309	46,783	4,996	22,425	2,602	16,760	35,108	1,907	9,585	5,832	9,093
	September	109,794	48,940	5,054	24,044	3,262	16,580	34,396	1,483	9,867	5,296	9,812
	October	112,444	48,148	4,992	23,133	2,971	17,052	35,987	1,559	10,119	5,679	10,953
	November	109,801	47,737	4,468	23,146	3,054	17,069	34,277	1,792	10,309	5,820	9,866
	December	110,025	47,590	4,983	23,376	2,743	16,489	36,075	1,954	9,797	5,570	9,038
1996:	January	110,988	49,970	5,008	23,908	3,230	17,823	35,182	1,778	9,527	4,814	9,717
	February	104,423	43,929	4,029	22,080	3,031	14,789	36,517	1,973	9,428	5,270	7,305
	March	108,154	47,787	4,005	24,292	3,021	16,469	34,800	2,051	9,630	5,190	8,696
	April ^f	111,279	48,201	3,921	24,530	2,976	16,773	34,641	1,753	11,026	6,261	9,398
	May ^f	110,677	49,997	4,518	24,304	3,123	18,052	32,942	1,713	10,564	5,587	9,875
	June ^f	110,061	48,607	3,783	23,755	3,255	17,814	33,328	1,843	9,871	5,655	10,757
	July ^f	108,996	49,362	4,193	23,644	2,960	18,565	33,428	1,780	9,479	5,437	9,511
	August ^p	109,067	50,565	4,288	23,890	3,294	19,094	31,055	1,710	10,822	5,496	9,418
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1994:	August	12,844	4,070	389	1,324	21	678	1,658	(NA)	2,302	3,669	2,493
	September	13,081	4,265	326	1,400	44	644	1,851	(NA)	2,184	4,709	1,594
	October	15,656	5,605	467	1,404	15	742	2,977	(NA)	2,159	5,151	2,430
	November	14,419	5,564	363	1,403	59	946	2,793	(NA)	2,078	4,147	2,314
	December	15,868	5,950	759	1,357	34	825	2,974	(NA)	2,537	4,696	2,357
1995:	January	14,538	5,374	258	1,464	7	926	2,720	(NA)	2,595	3,757	2,505
	February	14,373	5,708	430	1,538	33	1,018	2,689	(NA)	2,492	3,991	1,881
	March	14,931	5,635	419	1,449	7	906	2,853	(NA)	2,887	4,018	2,083
	April	14,181	5,004	285	1,408	7	881	2,423	(NA)	2,666	3,641	2,554
	May	14,609	6,242	498	1,347	49	1,221	3,127	(NA)	2,683	3,180	2,193
	June	13,858	5,308	499	1,206	23	922	2,657	(NA)	2,704	3,612	1,914
	July	13,834	4,810	490	1,274	15	777	2,254	(NA)	2,845	4,174	1,720
	August	14,545	5,437	562	1,338	23	860	2,655	(NA)	2,826	4,437	1,544
	September	14,981	5,755	509	1,454	48	1,001	2,743	(NA)	2,892	4,128	1,898
	October	12,271	4,656	695	1,252	25	682	2,002	(NA)	2,054	3,158	2,111
	November	14,214	5,607	917	1,302	2	988	2,399	(NA)	2,878	3,527	1,904
	December	13,775	5,238	574	1,213	38	973	2,439	(NA)	2,872	3,478	1,862
1996:	January	14,009	5,560	550	1,197	13	807	2,994	(NA)	3,173	3,052	1,934
	February	14,506	5,529	495	1,246	2	1,280	2,504	(NA)	3,552	2,946	2,199
	March	13,531	5,390	478	1,378	6	1,204	2,323	(NA)	2,769	3,161	1,907
	April ^f	13,084	4,885	581	1,284	13	841	2,166	(NA)	2,801	3,589	1,535
	May ^f	13,280	5,589	594	1,298	12	1,359	2,326	(NA)	2,663	3,440	1,301
	June ^f	13,238	5,335	516	1,344	9	756	2,711	(NA)	2,759	3,517	1,322
	July ^f	12,624	5,367	588	1,351	7	954	2,468	(NA)	2,659	3,108	1,239
	August ^p	11,884	4,853	505	1,390	8	755	2,195	(NA)	2,530	2,989	1,222

NA Not available, but estimates are included in totals. ^fPreliminary. ^rRevised.

¹Includes general administrative buildings, prisons, police and fire stations, courthouses, passenger terminals, civic centers, etc. ²Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc. ³Includes federal office buildings, prisons, courthouses, space facilities, postal facilities, etc. ⁴Includes federal airport facilities, fish and wildlife preservation facilities, VA cemeteries, etc.

Table 10. Monthly Value of New Public Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total State and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1994:	August	11,527	4,389	350	2,314	226	1,500	4,635	177	921	447	957
	September	10,980	4,085	380	2,007	247	1,451	4,278	235	991	515	877
	October	10,629	4,050	429	1,964	235	1,422	4,081	167	884	563	883
	November	9,025	3,810	390	1,739	227	1,455	3,004	163	861	425	762
	December	7,681	3,635	364	1,572	256	1,443	2,042	193	802	382	627
1995:	January	6,509	3,347	376	1,483	215	1,273	1,432	153	681	385	511
	February	6,322	3,311	344	1,503	222	1,242	1,293	156	639	387	536
	March	7,085	3,543	371	1,618	234	1,320	1,699	176	728	353	586
	April	8,108	3,832	416	1,700	263	1,453	2,130	183	717	393	853
	May	9,388	4,043	404	1,836	250	1,554	3,062	200	800	417	865
	June	10,530	4,551	464	2,168	257	1,662	3,507	199	952	457	864
	July	10,472	4,442	416	2,316	259	1,452	3,761	149	824	503	793
	August	11,697	4,679	436	2,497	217	1,529	4,459	189	928	538	903
	September	11,012	4,412	434	2,240	288	1,449	4,056	146	957	472	969
	October	11,090	4,235	443	1,987	268	1,536	4,114	154	955	547	1,084
	November	9,447	3,976	386	1,856	254	1,481	3,002	156	927	526	861
	December	7,712	3,605	399	1,679	232	1,296	2,110	145	750	429	673
1996:	January	6,853	3,562	382	1,632	252	1,297	1,530	116	675	335	635
	February	6,337	3,243	320	1,551	237	1,134	1,519	127	628	350	471
	March	6,879	3,506	314	1,705	240	1,248	1,627	132	690	365	559
	April ^f	8,238	3,811	319	1,858	253	1,381	2,234	137	830	489	736
	May ^f	9,487	4,209	387	1,995	250	1,577	2,932	145	884	482	835
	June ^f	10,161	4,349	336	2,168	289	1,556	3,358	159	861	504	930
	July ^f	10,881	4,608	353	2,406	251	1,598	3,833	173	839	502	926
	August ^p	11,465	4,972	369	2,618	266	1,720	3,828	172	1,028	516	948
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1994:	August	1,151	341	33	111	2	57	139	(NA)	196	342	233
	September	1,590	465	36	153	5	70	202	(NA)	241	631	214
	October	1,020	407	34	102	1	54	216	(NA)	142	296	140
	November	1,136	428	28	108	5	73	215	(NA)	182	320	179
	December	1,289	500	64	114	3	69	250	(NA)	225	363	182
1995:	January	1,080	412	20	112	1	71	209	(NA)	202	271	181
	February	1,010	419	32	113	2	75	197	(NA)	163	283	133
	March	1,270	477	35	123	1	77	241	(NA)	259	342	177
	April	1,115	415	24	117	1	73	201	(NA)	204	280	196
	May	1,230	521	42	113	4	102	261	(NA)	224	270	186
	June	1,227	466	44	106	2	81	233	(NA)	238	320	170
	July	1,171	415	42	110	1	67	194	(NA)	231	350	144
	August	1,261	445	46	109	2	70	217	(NA)	236	402	140
	September	1,786	634	56	160	5	110	302	(NA)	324	542	249
	October	807	325	49	87	2	48	140	(NA)	140	184	123
	November	1,137	448	73	104	-	79	191	(NA)	238	276	149
	December	1,112	423	46	98	3	79	197	(NA)	259	268	143
1996:	January	1,066	433	43	93	1	63	233	(NA)	248	228	144
	February	1,044	422	38	95	-	98	191	(NA)	238	213	159
	March	1,121	445	39	114	1	99	192	(NA)	254	255	154
	April ^f	1,068	410	49	108	1	71	182	(NA)	222	292	125
	May ^f	1,160	494	53	115	1	120	206	(NA)	230	298	113
	June ^f	1,122	462	45	116	1	66	235	(NA)	230	290	109
	July ^f	1,091	460	50	116	1	82	212	(NA)	223	271	108
	August ^p	1,047	413	43	118	1	64	187	(NA)	224	266	109

- Represent zero or rounds to zero. NA Not available, but estimates are included in totals. ^fPreliminary. ^rRevised.

¹Includes general administrative buildings, prisons, police and fire stations, courthouses, passenger terminals, civic centers, etc. ²Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc. ³Includes federal office buildings, prisons, courthouses, space facilities, postal facilities, etc. ⁴Includes federal airport facilities, fish and wildlife preservation facilities, VA cemeteries, etc.

Table 11. Indexes Used in Deriving Estimates of the Value of New Construction Put in Place in Constant Dollars

[1992 = 100]

Period	Bureau of the Census		Engineering News-Record		Bureau of the Census Houses Under Construction		Federal Highway Administration composite	Bureau of Reclamation	Turner Construction Company	Handy-Whitman public utility				C.A. Turner telephone plant
	Composite fixed-weighted	Implicit price deflator	Buildings	Construction	Fixed-weighted	Price deflator				Buildings	Electric	Gas	Water	
	Annual indexes													
1991.....	99.3	98.7	97.1	97.0	98.9	98.0	102.3	99	100	98	99	98	98	100
1992.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100	100	100	100	100	100
1993.....	103.7	103.8	105.7	104.5	104.9	104.8	103.0	103	102	105	103	103	104	102
1994.....	108.0	108.1	109.8	108.5	109.7	109.5	109.5	106	105	112	107	109	109	103
1995.....	112.4	112.4	109.8	109.8	114.3	114.0	116.5	110	109	115	111	111	112	109
	Monthly indexes						Quarterly indexes			Semiannual indexes				
1995: January.....	111.6	111.4	109.8	109.2	113.9	113.2								
February.....	111.6	111.5	109.8	109.2	113.8	113.3	114.9	108	108					
March.....	111.6	111.4	109.5	109.0	113.7	113.3				114	109	111	112	104
April.....	111.7	111.6	109.4	109.0	113.7	113.4								
May.....	111.8	111.7	109.3	109.0	113.8	113.5	115.3	110	109					
June.....	112.3	112.2	109.2	109.0	114.0	113.7								
July.....	112.6	112.6	109.9	110.0	114.2	114.0								
August.....	112.8	112.7	110.1	110.5	114.7	114.5	114.1	111	109					
September.....	113.2	113.2	109.7	110.2	115.1	115.0				114	110	111	112	110
October.....	113.4	113.4	110.0	110.6	115.1	115.0								
November.....	113.3	113.3	110.5	110.7	114.8	114.8	118.7	111	110					
December.....	113.2	113.3	110.4	110.8	114.6	114.6								
1996: January.....	113.4	113.4	110.3	110.8	114.7	114.5								
February.....	113.5	113.5	110.5	111.0	114.8	114.6	122.3	111	111					
March.....	113.5	113.7	110.7	111.1	114.5	114.7				117	112	110	114	113
April.....	^r 113.5	^r 113.6	111.1	111.3	^r 114.5	^r 114.5								
May.....	^r 113.9	^r 113.9	111.5	111.8	^r 114.9	^r 114.8	112.7	112	112					
June.....	^r 114.0	^r 114.3	112.2	112.3	^r 114.9	^r 115.2								
July.....	^r 114.6	^r 114.9	112.6	112.7	^r 115.3	^r 115.7								
August.....	^p 114.9	^p 115.2	113.6	113.4	^p 115.5	^p 115.8	(NA)	112	112					
September.....			114.3	113.8						118	112	113	115	114

NA Not available. ^pPreliminary. ^rRevised.

Table 12. Factors Used to Seasonally Adjust Estimates of the Value of New Construction Put in Place

[Percent]

Type of construction	Aug. 1996 ^P	July 1996 ^r	June 1996 ^r	May 1996 ^r	Apr. 1996 ^r	Mar. 1996	Feb. 1996	Jan. 1996	Dec. 1995	Nov. 1995	Oct. 1995	Aug. 1995
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	115.3	113.0	108.3	101.1	94.3	90.1	78.8	82.1	90.1	107.5	111.8	114.0
2 units or more	110.8	108.3	106.9	103.9	95.9	92.4	88.6	86.4	95.3	101.4	106.1	112.1
Nonresidential buildings:												
Industrial	102.8	101.2	102.9	102.5	97.2	96.3	93.2	89.5	104.0	101.0	105.9	102.8
Office	104.2	102.3	99.7	105.3	101.8	97.1	95.6	92.0	95.5	100.5	102.2	104.0
Hotels, motels	100.4	101.1	102.6	105.4	104.9	99.3	99.7	91.1	95.1	98.5	103.4	103.5
Other commercial	111.1	106.4	104.0	101.8	94.0	88.9	85.3	83.3	95.1	105.2	112.8	111.4
Religious	108.7	102.1	94.9	96.9	97.3	87.7	89.0	89.2	95.8	109.3	115.8	111.7
Educational	123.2	121.8	116.5	103.8	94.1	86.8	86.2	81.8	84.2	96.8	101.0	122.8
Hospital and institutional	101.8	99.0	100.0	99.6	100.3	96.5	96.8	95.5	97.4	103.1	105.9	102.6
Miscellaneous nonresidential	103.4	102.1	103.3	99.0	104.4	96.2	90.3	85.6	95.1	105.1	112.0	108.1
Telecommunications	110.6	104.3	101.7	101.9	98.4	92.7	86.5	82.9	100.4	108.5	108.7	114.2
All other private	101.7	108.2	105.2	102.6	93.9	88.9	86.0	90.6	95.0	107.6	110.0	102.9
PUBLIC CONSTRUCTION												
State and Local												
Buildings:												
Housing and redevelopment	103.2	100.9	106.7	102.8	97.5	94.2	95.4	91.5	96.0	103.6	106.6	104.8
Educational	131.5	122.1	109.5	98.5	90.9	84.2	84.3	81.9	86.2	96.2	103.1	133.6
Hospital	96.8	101.9	106.5	96.2	102.1	95.2	94.0	93.7	101.3	99.6	108.1	99.9
Other buildings	108.1	103.3	104.8	104.8	98.8	90.9	92.0	87.3	94.3	104.1	108.1	109.5
Highways and streets	147.9	137.6	120.9	106.8	77.4	56.1	49.9	52.2	70.2	105.1	137.2	152.4
Conservation and development	120.8	116.9	103.7	101.5	94.0	77.1	77.4	78.4	89.3	104.7	118.8	119.2
Sewer systems	114.0	106.2	104.7	100.4	90.3	86.0	79.9	85.0	91.8	107.9	113.3	116.2
Water supply facilities	112.7	110.7	107.0	103.6	93.8	84.5	79.6	83.4	92.5	108.4	115.6	110.8
Miscellaneous construction	120.8	116.9	103.7	101.5	94.0	77.1	77.4	78.4	89.3	104.7	118.8	119.2
Federal												
Buildings:												
Housing and redevelopment	102.0	102.9	104.0	106.1	100.7	99.1	91.5	93.5	96.8	95.8	83.8	98.1
Industrial	102.0	102.9	104.0	106.1	100.7	99.1	91.5	93.5	96.8	95.8	83.8	98.1
Educational	102.0	102.9	104.0	106.1	100.7	99.1	91.5	93.5	96.8	95.8	83.8	98.1
Hospital	102.0	102.9	104.0	106.1	100.7	99.1	91.5	93.5	96.8	95.8	83.8	98.1
Other buildings	102.0	102.9	104.0	106.1	100.7	99.1	91.5	93.5	96.8	95.8	83.8	98.1
Military	106.1	100.6	100.1	103.5	95.3	109.9	80.5	93.9	108.3	99.4	81.9	100.3
Conservation and development	106.9	104.6	99.0	103.8	97.8	96.7	86.9	89.6	92.4	93.9	70.1	108.7
Miscellaneous construction	106.9	104.6	99.0	103.8	97.8	96.7	86.9	89.6	92.4	93.9	70.1	108.7

^PPreliminary. ^rRevised.

Appendix.

Reliability of the Estimates

The statistics on the value of new construction put in place result from direct measurement and indirect estimation. A series results from direct measurement when it is based on reports of the actual value of construction progress or construction expenditures obtained from a complete census or sample survey. All other series are developed by indirect estimation using related construction statistics.

On an annual basis, the estimates for series directly measured monthly, quarterly, or annually accounted for about 73 percent of total new construction in 1995 (private multifamily residential, private residential improvements, private nonresidential buildings, farm nonresidential construction, public utility construction, and virtually all of public construction). On a monthly basis, directly measured data are available for about 55 percent of the value-in-place estimates.

Some of the directly measured monthly construction value-in-place estimates are based on samples. Estimates from these samples may differ from statistics which would have been obtained from a complete census using the same schedules and procedures. An estimate based on a sample survey is subject to both sampling error and nonsampling error. The accuracy of a survey result is determined by the joint effects of these errors.

MEASURE OF SAMPLING ERRORS

Sampling error reflects the fact that only a particular sample was surveyed rather than the entire population. Each sample selected for the monthly value-in-place survey is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Estimates derived from the different samples would differ from one another. The standard error, or sampling error, of a survey estimate is a measure of the variation among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a particular sample approximates the average from all possible samples.

Estimates of the standard errors for the monthly, year-to-date and annual estimates were computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors in the following table. The relative standard error equals the standard error divided by the estimated value to which it refers.

The sample estimate and an estimate of its standard error allow us to construct interval estimates with prescribed confidence that the interval includes the average result of all possible samples with the same size and design. A 90-percent confidence interval is defined to be from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate. If all possible samples were selected and surveyed under essentially the same conditions and all the respective 90-percent confidence intervals were generated, then approximately nine-tenths of the intervals would include the average value of all sample estimates and approximately one-tenth would not include this estimate. For example, suppose table 3 of this report showed that the monthly VIP estimate for "total private nonresidential buildings" was \$10.0 billion in a particular month. According to the following table, the relative standard error of this estimate is 2 percent. Multiplying \$10.0 billion by .02, we obtain \$200 million as the standard error. To obtain a 90-percent confidence interval, multiply \$200 million by 1.6 and add and subtract the result from \$10.0 billion, yielding limits of \$9.68 billion and \$10.32 billion. The average value of the monthly VIP estimate for "total private nonresidential buildings" may or may not be contained in this computed interval, but one can say that the average is included in the constructed interval with a specified confidence of 90 percent.

The following table also presents coefficients necessary to compute standard errors for the month-to-month and year-to-date changes. To derive a specific standard error of a change, look up an appropriate coefficient (k_1 or k_2) for the change and apply the following formula:

$$\text{Standard error of a change} = k (100 + (\% \text{ change shown in tables 3 thru 6}))$$

Once the standard error is available, one can construct a 90-percent confidence interval of the change by multiplying the standard error by 1.6.

No standard errors are shown for farm nonresidential or public utilities because the estimates are based on a complete enumeration. An error for "all other private" is not provided because the statistics are derived by indirect estimation.

NONSAMPLING ERRORS

As calculated for this report, the coefficient of variation estimates sampling variation but does not measure all nonsampling error in the data. Nonsampling error

consists of both a variance component and a bias component. Bias is the difference, averaged over all possible samples of the same size and design, between the estimate and the true value being estimated. Non-sampling errors are usually attributed to many possible sources: (1) coverage error failure to accurately represent all population units in the sample, (2) inability to obtain information about all sample cases, (3) response errors, possibly due to definitional difficulties or misreporting, (4) mistakes in recording or coding the data obtained, and (5) other errors of coverage, collection and nonresponse, response, processing, or imputing for missing or inconsistent data. These nonsampling errors also occur in complete censuses. Although no direct measures of these errors have been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data to minimize their influence.

A major source of nonsampling error in the published estimates is due to the need to impute data for nonrespondents and for late and inconsistent reports. For preliminary value-in-place estimates, the average imputation rates for major components are as follows: private nonresidential construction, 43 percent; State and locally owned public construction, 26 percent; private residential construction of 2 units or more, 40 percent; and private residential improvements, 13 percent. Each of these imputation rates is not an explicit indication of the potential error in statistics, but the degree of uncertainty regarding the accuracy of the statistics increases as the percentage of imputation increases.

Other potential sources of bias are the upward adjustment of 28 percent made to the private nonresidential construction and the adjustment of the State and local owned public construction to the construction outlays from the Annual Survey of Government Finances in order to account for construction projects not included in their respective sampling frames. The adjustment for the nonresidential construction results from a coverage evaluation sample; hence, the estimated percentage adjustment is subject to sampling error and nonsampling errors associated with the evaluation study. In addition, the percentage was estimated from data collected during a limited time period; therefore, these adjustments do not reflect any recent changes in the proportion of projects not included in the frame.

For State and locally owned construction, construction outlays from the Survey of Government Finances are available only through Fiscal Year 1993. (Outlays are included if a government agency's fiscal year ending

date falls within July 1992 to June 1993 inclusive, and for three State agencies with fiscal years ending in August or September 1993.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for four years from 1993 through April 1997. The relationship between the State and locally owned value-in-place and the capital outlays estimate changes from year to year so that revisions of 4 to 5 percent are expected in State and local construction and substantially larger revisions can be expected in the individual types of construction. In addition, because of the definition of fiscal year for the Survey of Government Finances, the reported capital outlays do not correspond to any 12 month period but result from capital outlays made over a 26 month period. There are also definitional and timing differences between the concepts of capital outlays and value put in place.

Consequently, even though the private nonresidential and State and local owned construction adjustments are designed to reduce the bias due to the failure to include projects in the sampling frames, for the above stated reasons, these adjustment procedures, themselves, may introduce a bias in the current estimates of value-in-place.

Furthermore, additional nonsampling errors may be introduced into the estimates because the procedures such as phasing, extrapolating, and forecasting used to develop the indirectly measured series are subject to the validity of the underlying assumptions made and mathematical models used. No explicit measures of the effect of these procedures are available.

MONTHLY REVISIONS TO ESTIMATES

Statistics for the current month are preliminary estimates. These estimates are released to provide government and private data users with early measures of construction activity. A necessary part of the process of issuing these early data involves the issuance of subsequent revisions. The revisions to monthly construction put in place estimates are primarily the result of the replacement of imputed data with data which are reported in subsequent months.

For total new construction, the range of the difference between the last 12 preliminary and second revision estimates for the same months was from -1.7 percent to 0.6 percent with a median of -0.3 percent. The range of the difference between first revision and second revision was from -0.6 to 0.7 percent, with a median of -0.2 percent.

Relative Standard Errors and Coefficients for Standard Errors of Changes

Type of construction	Relative standard error (percent)			Coefficient for changes	
	Monthly estimate	Year-to-date estimate	Annual estimate	Month-to-month change (k1)	Year-to-date change (k2)
Total new construction.....	2	1	1	.03	.02
Private construction.....	3	2	1	.04	.02
Residential buildings.....	5	3	2	.06	.03
New housing units.....	2	2	1	.01	.02
1 unit structures.....	2	2	2	.01	.01
2 units or more.....	4	3	3	.03	.03
Nonresidential buildings.....	2	1	1	.02	.01
Industrial.....	3	2	2	.04	.03
Office.....	4	2	2	.05	.03
Hotels, motels.....	7	6	5	.09	.08
Other commercial.....	5	3	2	.06	.04
Religious.....	9	7	5	.12	.10
Educational.....	7	5	5	.10	.07
Hospital and institutional.....	6	5	5	.07	.07
Miscellaneous buildings.....	7	4	4	.09	.06
Public construction.....	2	1	1	.03	.01
Housing and redevelopment.....	8	5	4	.11	.07
Industrial.....	(NA)	(NA)	(NA)	(NA)	(NA)
Educational.....	3	2	2	.04	.03
Hospital.....	6	4	4	.08	.06
Other public buildings.....	3	2	2	.04	.03
Highways and streets.....	4	2	2	.05	.03
Military facilities.....	(NA)	(NA)	(NA)	(NA)	(NA)
Conservation and development.....	4	2	2	.06	.03
Sewer systems.....	6	3	3	.08	.04
Water supply facilities.....	8	4	3	.11	.06
Miscellaneous public.....	8	4	4	.11	.06
State and local construction.....	2	1	1	.03	.01
Housing and redevelopment.....	8	5	5	.11	.07
Educational.....	3	2	2	.04	.03
Hospital.....	8	6	5	.11	.09
Other public buildings.....	4	3	2	.05	.04
Highways and streets.....	4	2	2	.05	.03
Conservation and development.....	16	9	9	.23	.13
Sewer systems.....	6	3	3	.08	.04
Water supply facilities.....	8	4	3	.11	.06
Miscellaneous public.....	9	5	4	.12	.07
Federal construction.....	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Note: All statistics are based upon 1995 data. The coefficient (k1) for the month-to-month change is applicable to change from the previous month and change from the same month a year ago.