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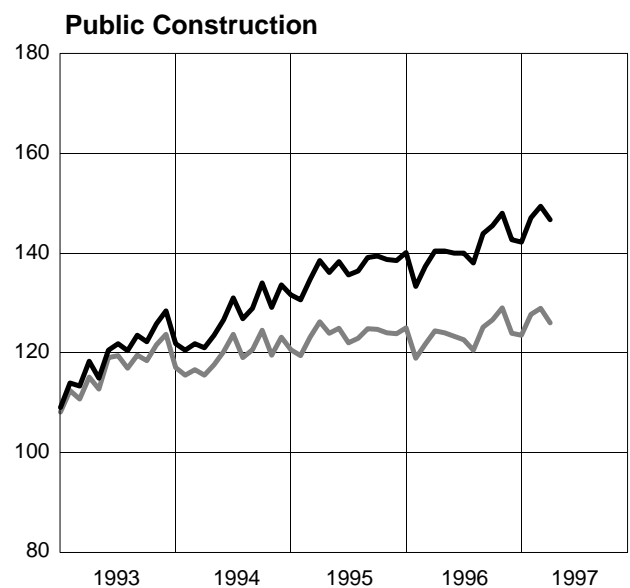
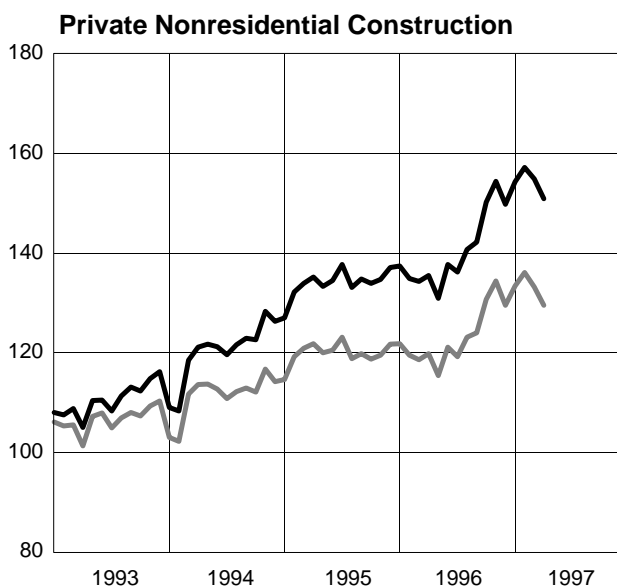
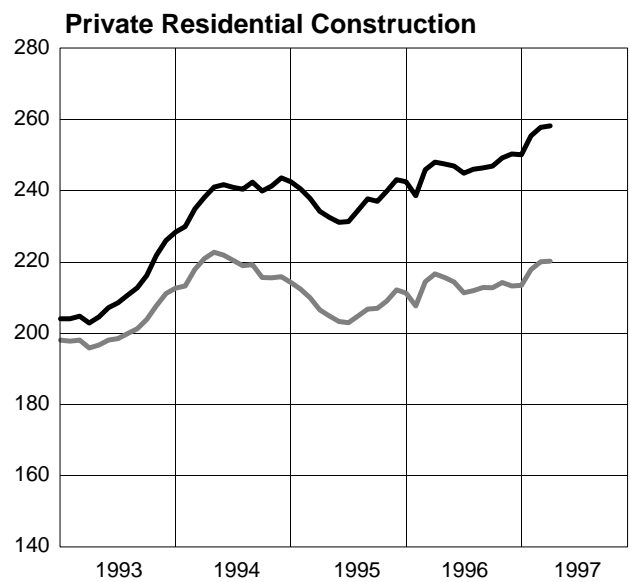
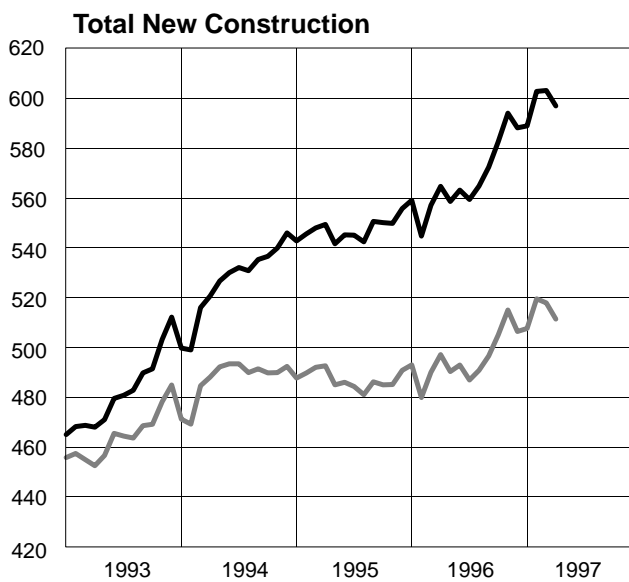
Value of New Construction Put in Place

APRIL 1997

C30/97-4
 Issued June 1997

Monthly Value of New Construction Put in Place (Seasonally adjusted annual rate in billions of dollars)

— Current dollars
 — 1992 dollars



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 April 1997 was estimated at a seasonally adjusted annual rate of \$596.9 billion, 1(±5) percent below the revised March estimate of \$603.1 billion. The April figure represents a 6 percent increase over April 1996.

During the first 4 months of this year \$170.3 billion of new construction was put in place, 7 percent above the \$159.4 billion for the same period in 1996.

In constant (1992) dollars, the April annual rate was \$511.3 billion, 1(±5) percent below the revised estimate of \$517.8 billion for March.

Spending on new residential housing units was at a seasonally adjusted annual rate of \$182.1 billion in April, nearly the same (±2 percent) as the revised March estimate of \$182.5 billion. Nonresidential building construction was at a rate of \$150.9 billion, 3(±3) percent below the revised March estimate of \$154.9 billion.

In April, the estimated seasonally adjusted annual rate of public construction put in place was \$146.7 billion, 2(±5) percent below the revised March estimate of \$149.4 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: 1992-1996

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
Total new construction	452,086	482,737	527,063	547,079	568,908	451,998	464,985	487,644	486,666	496,299
Private construction	336,239	362,587	400,008	410,196	427,776	336,126	347,754	367,898	363,086	372,453
Residential buildings	187,819	210,455	238,874	236,597	246,899	187,687	200,502	217,996	207,392	213,619
New housing units	129,600	144,071	167,919	162,898	176,378	129,522	137,243	153,250	142,790	152,606
1 unit	116,505	133,282	153,838	145,009	156,510	116,419	126,960	140,416	127,108	135,411
2 or more units	13,094	10,788	14,081	17,889	19,868	13,103	10,283	12,833	15,682	17,196
Improvements	58,219	66,384	70,955	73,699	(NA)	58,165	63,259	64,746	64,601	(NA)
Nonresidential buildings	105,646	110,635	120,285	133,949	140,692	105,615	106,729	111,416	119,835	123,361
Industrial	29,029	26,482	28,947	32,301	30,068	29,027	25,554	26,803	28,902	26,372
Office	20,271	20,920	22,178	25,254	25,191	20,271	20,197	20,553	22,603	22,083
Hotels, motels	3,691	4,565	4,648	7,201	11,147	3,690	4,405	4,308	6,438	9,775
Other commercial	29,197	32,453	37,551	42,272	44,966	29,172	31,292	34,756	37,809	39,423
Religious	3,485	3,887	3,869	4,318	4,490	3,483	3,748	3,584	3,862	3,936
Educational	4,474	4,649	4,822	5,493	6,211	4,475	4,484	4,471	4,915	5,442
Hospital and institutional	11,487	12,492	12,268	11,173	11,346	11,485	12,050	11,377	9,998	9,949
Miscellaneous ¹	4,012	5,188	6,002	5,937	7,273	4,011	5,000	5,565	5,309	6,379
Farm nonresidential	2,398	3,291	3,246	3,473	(NA)	2,396	3,174	3,007	3,107	(NA)
Public utilities	36,807	34,925	34,713	33,348	(NA)	36,859	34,120	32,717	30,169	(NA)
Telecommunications	8,993	9,619	10,157	10,747	11,162	9,005	9,468	9,875	9,798	9,781
Other public utilities	27,814	25,306	24,556	22,601	(NA)	27,854	24,652	22,842	20,372	(NA)
Railroads	2,928	3,108	3,340	3,341	(NA)	2,926	3,056	3,186	3,046	(NA)
Electric light and power	17,136	15,567	14,918	13,126	(NA)	17,184	15,096	13,877	11,825	(NA)
Gas	6,901	5,645	5,300	5,205	(NA)	6,895	5,536	4,861	4,667	(NA)
Petroleum pipelines	849	986	998	929	(NA)	849	965	918	834	(NA)
All other private ²	3,570	3,281	2,890	2,829	2,458	3,569	3,229	2,763	2,583	2,170
Public construction	115,847	120,150	127,055	136,883	141,132	115,872	117,231	119,747	123,579	123,846
Buildings	49,986	52,071	53,930	59,783	63,418	49,988	50,167	49,882	53,373	55,541
Housing and redevelopment	4,138	4,855	5,247	6,156	5,417	4,136	4,629	4,788	5,397	4,688
Industrial	1,876	1,718	1,465	1,510	1,414	1,875	1,658	1,358	1,351	1,241
Educational	20,647	22,103	23,457	25,608	28,185	20,645	21,314	21,731	22,905	24,709
Hospital	3,383	3,666	3,940	4,345	4,674	3,383	3,537	3,652	3,888	4,100
Other ³	19,943	19,730	19,821	22,164	23,729	19,949	19,029	18,353	19,832	20,803
Highways and streets	33,106	34,341	37,671	38,159	39,406	33,132	34,205	36,463	34,931	34,480
Military facilities	2,502	2,453	2,318	3,002	2,878	2,502	2,405	2,196	2,721	2,529
Conservation and development	5,952	5,909	6,370	6,389	5,753	5,946	5,745	6,002	5,798	5,109
Sewer systems	9,663	9,354	10,081	10,869	11,256	9,658	9,095	9,499	9,859	9,993
Water supply facilities	5,162	5,373	5,388	6,085	6,421	5,170	5,143	4,911	5,407	5,602
Miscellaneous public ⁴	9,477	10,649	11,298	12,597	12,000	9,475	10,470	10,793	11,491	10,592

NA Not available, but estimates are included in totals.

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: 1992-1996

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
Total public construction	115,847	120,150	127,055	136,883	141,132	115,872	117,231	119,747	123,579	123,846
State and local construction	101,471	105,726	112,699	121,148	126,212	101,497	103,204	106,258	109,374	110,709
Total buildings	44,022	46,377	48,787	53,740	57,287	44,022	44,677	45,127	47,975	50,170
Housing and redevelopment	3,977	4,619	4,801	5,576	4,780	3,975	4,405	4,382	4,889	4,137
Educational	20,617	22,082	23,430	25,582	28,172	20,616	21,294	21,707	22,881	24,698
Hospital	2,626	2,760	3,089	3,305	3,587	2,626	2,661	2,863	2,957	3,146
Other ¹	16,801	16,916	17,467	19,277	20,747	16,805	16,317	16,175	17,248	18,188
Highways and streets	32,886	34,003	37,327	37,826	39,082	32,912	33,869	36,130	34,626	34,197
Conservation and development	1,419	1,692	1,994	2,213	2,125	1,417	1,643	1,878	2,009	1,886
Sewer systems	9,663	9,354	10,081	10,869	11,256	9,658	9,095	9,499	9,859	9,993
Water supply facilities	5,162	5,373	5,388	6,085	6,421	5,170	5,143	4,911	5,407	5,602
Miscellaneous nonbuilding ²	8,320	8,928	9,122	10,416	10,041	8,318	8,777	8,713	9,498	8,862
Federal construction	14,376	14,424	14,356	15,735	14,920	14,375	14,027	13,488	14,205	13,137
Total buildings	5,964	5,695	5,142	6,043	6,132	5,966	5,490	4,755	5,398	5,372
Housing	161	236	446	580	637	161	225	406	508	551
Industrial	1,876	1,718	1,465	1,510	1,414	1,875	1,658	1,358	1,351	1,241
Educational	30	21	26	27	12	30	20	24	24	11
Hospital	757	906	851	1,040	1,087	757	875	789	931	954
Other ³	3,141	2,814	2,354	2,887	2,982	3,144	2,713	2,178	2,584	2,615
Highways and streets	220	338	344	333	(NA)	220	336	333	305	(NA)
Military facilities	2,502	2,453	2,318	3,002	2,878	2,502	2,405	2,196	2,721	2,529
Conservation and development	4,533	4,217	4,376	4,176	3,628	4,529	4,102	4,124	3,789	3,223
Miscellaneous public ⁴	1,157	1,722	2,176	2,181	1,959	1,157	1,693	2,080	1,993	1,730

NA Not available, but estimates are included in totals.

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																			
April 1996	159,360	122,659	68,667	49,970	43,812	6,159	41,874	9,723	7,111	3,379	13,017	1,284	1,556	3,469	2,335	(NA)	3,287	733	
April 1997	170,312	131,679	71,546	51,936	45,336	6,600	47,369	9,203	9,208	4,141	14,141	1,650	2,150	4,207	2,670	(NA)	(NA)	894	
Percent change	7	7	4	4	3	7	13	-5	29	23	9	29	38	21	14	(NA)	(NA)	22	
MONTHLY DATA																			
1995: 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	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	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	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	52,032	38,336	23,313	16,416	14,801	1,615	11,723	2,407	2,183	894	3,758	370	581	907	623	(NA)	868	202	
August	54,251	40,006	24,022	16,877	15,179	1,698	12,445	2,304	2,242	976	4,258	419	650	990	606	(NA)	1,009	201	
September	54,075	39,422	23,164	16,673	15,022	1,651	12,806	2,605	2,313	1,005	4,235	425	625	1,006	592	(NA)	903	234	
October	54,256	40,154	23,092	16,390	14,654	1,736	13,454	2,944	2,406	1,046	4,323	422	642	1,040	632	(NA)	1,046	249	
November	51,127	38,598	21,734	15,733	13,984	1,749	13,192	2,708	2,451	1,011	4,254	444	603	1,049	671	(NA)	1,065	243	
December	44,727	34,392	18,449	13,245	11,678	1,566	12,245	2,579	2,248	1,008	3,795	416	533	1,056	610	(NA)	1,216	219	
1997: January	39,778	30,807	16,435	12,087	10,649	1,439	11,375	2,292	2,167	956	3,495	370	497	1,004	594	(NA)	781	203	
February ^f	39,466	30,586	15,934	11,784	10,114	1,670	11,596	2,268	2,396	1,019	3,385	370	509	1,007	642	(NA)	744	200	
March ^f	43,867	34,037	18,669	13,681	11,962	1,719	12,101	2,264	2,323	1,101	3,660	434	527	1,073	720	(NA)	854	233	
April ^p	47,202	36,249	20,508	14,384	12,612	1,772	12,297	2,379	2,323	1,064	3,601	476	617	1,123	715	(NA)	(NA)	258	
PERCENT CHANGE																			
March 1997- April 1997	8	6	10	5	5	3	2	5	(Z)	-3	-2	10	17	5	-1	(NA)	(NA)	11	

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													
April 1996	36,702	17,917	1,725	463	7,626	1,484	6,618	7,812	1,083	1,669	3,139	1,752	3,331
April 1997	38,633	20,010	1,533	361	8,724	1,625	7,767	8,354	771	1,685	2,943	1,902	2,968
Percent change	5	12	-11	-22	14	10	17	7	-29	1	-6	9	-11
MONTHLY DATA													
1995: 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	10,505	4,779	421	122	2,103	366	1,768	2,545	252	479	925	558	967
May	12,056	5,339	505	130	2,264	420	2,021	3,357	261	494	987	551	1,067
June	12,815	5,476	439	132	2,466	403	2,036	3,860	262	503	965	576	1,174
July	13,696	5,809	472	130	2,755	374	2,077	4,426	202	530	945	576	1,208
August	14,245	6,177	426	133	3,067	356	2,195	4,493	203	529	1,113	557	1,173
September	14,652	6,073	458	185	2,720	457	2,254	4,777	265	646	1,084	599	1,207
October	14,102	5,809	492	60	2,633	402	2,221	4,683	184	458	1,202	701	1,066
November	12,530	5,681	482	91	2,469	362	2,277	3,440	211	495	1,008	622	1,072
December	10,335	5,137	417	88	2,185	416	2,030	2,558	207	428	814	488	702
1997: January	8,970	4,734	376	88	2,045	395	1,830	1,797	206	423	700	442	669
February ^f	8,880	4,767	364	80	2,051	398	1,874	1,688	178	379	678	452	737
March ^f	9,830	5,102	385	89	2,258	396	1,973	2,063	196	446	732	527	765
April ^p	10,952	5,407	409	104	2,370	436	2,089	2,806	191	438	833	481	796
PERCENT CHANGE													
March 1997- April 1997	11	6	6	17	5	10	6	36	-3	-2	14	-9	4

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. ^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																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		Total												
1995:	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	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	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	559,312	419,293	244,931	175,556	157,594	17,962	136,175	28,770	25,834	10,629	42,428	4,372	5,805	11,014	7,323	(NA)	10,006	2,241		
	August	564,715	426,703	246,019	176,481	157,980	18,501	140,700	27,082	25,992	11,710	46,154	4,655	6,371	11,700	7,038	(NA)	10,905	2,379		
	September	572,262	428,361	246,407	176,170	157,301	18,870	142,185	29,656	26,556	12,044	44,116	4,489	6,868	11,736	6,719	(NA)	10,768	2,534		
	October	582,537	437,034	246,935	176,634	157,142	19,492	150,207	33,043	28,253	12,166	46,277	4,372	7,481	11,748	6,868	(NA)	11,070	2,731		
	November	594,043	446,059	249,167	177,442	156,688	20,754	154,410	31,583	28,954	12,524	48,715	4,974	7,664	12,191	7,807	(NA)	12,153	2,719		
	December	588,146	445,439	250,297	176,655	156,933	19,723	149,802	29,413	27,748	12,203	47,987	4,962	7,369	12,547	7,574	(NA)	13,816	2,744		
1997:	January	588,889	446,646	250,126	176,535	156,601	19,933	154,265	30,395	28,417	12,512	49,579	5,027	7,258	12,774	8,303	(NA)	11,371	2,700		
	February ^f	602,710	455,613	255,441	182,313	159,059	23,254	157,220	30,176	30,810	12,808	48,878	5,228	7,567	12,966	8,787	(NA)	11,012	2,884		
	March ^f	603,063	453,677	257,816	182,526	160,028	22,498	154,945	28,412	28,945	13,375	49,239	5,756	7,115	13,256	8,848	(NA)	10,966	3,121		
	April ^P	596,905	450,204	258,246	182,093	160,146	21,947	150,922	28,952	27,874	12,384	46,067	5,902	8,050	13,549	8,145	(NA)	(NA)	3,271		
PERCENT CHANGE																					
March 1997-	April 1997	-1	-1	(Z)	(Z)	(Z)	-2	-3	2	-4	-7	-6	3	13	2	-8	(NA)	(NA)	5		

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						
1995:	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	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	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	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	140,020	63,058	5,580	1,526	27,394	4,354	24,204	39,194	2,439	5,793	10,753	6,264	12,517
	August	138,012	63,950	5,070	1,583	28,292	4,384	24,621	36,507	2,307	5,660	11,753	6,002	11,833
	September	143,901	65,988	5,327	1,719	29,063	4,908	24,970	40,485	2,583	5,473	11,160	6,551	11,660
	October	145,503	66,060	5,482	879	29,866	4,722	25,110	39,326	2,774	6,095	12,137	7,095	12,016
	November	147,983	68,919	5,624	1,119	30,962	4,335	26,878	40,160	2,350	5,974	11,383	6,907	12,291
	December	142,707	66,594	5,231	1,104	29,900	4,933	25,426	41,711	2,423	5,708	10,555	6,239	9,476
1997:	January	142,244	66,014	4,877	1,116	29,887	5,193	24,941	41,320	2,524	5,838	9,852	6,570	10,127
	February ^f	147,097	67,655	4,901	1,080	30,650	5,273	25,750	42,374	2,614	5,534	10,530	7,069	11,321
	March ^f	149,386	68,561	4,977	1,066	31,683	4,945	25,890	43,196	2,320	6,129	10,346	7,319	11,514
	April ^p	146,701	68,284	4,985	1,292	31,321	5,166	25,519	43,452	2,405	5,519	10,609	6,232	10,199
PERCENT CHANGE														
March 1997- April 1997		-2	(Z)	(Z)	21	-1	4	-1	1	4	-10	3	-15	-11

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. 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																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													
1995: 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	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	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	486,812	364,224	211,329	151,472	135,974	15,498	119,243	25,193	22,622	9,307	37,152	3,828	5,083	9,644	6,413	(NA)	8,769	1,971	
August	490,665	370,135	211,902	152,008	136,072	15,936	123,097	23,694	22,740	10,245	40,380	4,072	5,574	10,236	6,157	(NA)	9,532	2,083	
September	496,543	371,488	212,786	152,133	135,838	16,295	123,962	25,855	23,153	10,501	38,462	3,913	5,988	10,232	5,858	(NA)	9,355	2,204	
October	504,906	378,318	212,691	152,139	135,351	16,789	130,729	28,758	24,589	10,589	40,275	3,805	6,511	10,225	5,977	(NA)	9,601	2,383	
November	514,893	385,907	214,245	152,572	134,727	17,845	134,386	27,487	25,199	10,900	42,397	4,329	6,670	10,610	6,795	(NA)	10,549	2,381	
December	506,302	382,405	213,200	150,473	133,673	16,799	129,475	25,421	23,983	10,547	41,476	4,289	6,369	10,844	6,546	(NA)	11,962	2,398	
1997: January	507,504	383,988	213,418	150,627	133,619	17,008	133,448	26,293	24,582	10,823	42,888	4,349	6,279	11,050	7,183	(NA)	9,853	2,358	
February ^f	519,403	391,663	217,767	155,424	135,600	19,824	136,121	26,126	26,676	11,089	42,319	4,526	6,552	11,226	7,608	(NA)	9,542	2,517	
March ^f	517,831	388,945	219,980	155,739	136,543	19,196	133,228	24,430	24,888	11,500	42,338	4,949	6,118	11,398	7,608	(NA)	9,437	2,704	
April ^p	511,324	385,319	220,159	155,237	136,527	18,710	129,547	24,852	23,926	10,630	39,542	5,066	6,910	11,630	6,991	(NA)	(NA)	2,818	
PERCENT CHANGE																			
March 1997- April 1997	-1	-1	(Z)	(Z)	(Z)	-3	-3	2	-4	-8	-7	2	13	2	-8	(NA)	(NA)	4	

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						
1995:	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	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	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	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	122,588	55,146	4,815	1,336	23,988	3,812	21,195	34,171	2,132	5,136	9,533	5,462	11,009
	August	120,530	55,881	4,367	1,385	24,752	3,836	21,540	31,690	2,010	4,995	10,373	5,219	10,362
	September	125,055	57,487	4,600	1,499	25,339	4,279	21,770	34,931	2,241	4,801	9,790	5,667	10,139
	October	126,588	57,444	4,722	765	25,993	4,110	21,854	34,108	2,410	5,347	10,647	6,148	10,485
	November	128,986	59,922	4,836	974	26,947	3,773	23,393	34,983	2,047	5,254	10,011	6,006	10,763
	December	123,897	57,492	4,455	954	25,842	4,264	21,976	36,334	2,102	5,007	9,259	5,421	8,283
1997:	January	123,516	57,048	4,161	966	25,854	4,492	21,575	35,961	2,189	5,116	8,635	5,723	8,845
	February ^f	127,740	58,511	4,179	935	26,537	4,565	22,294	36,847	2,269	4,846	9,221	6,168	9,878
	March ^f	128,886	58,919	4,247	917	27,242	4,252	22,262	37,302	2,000	5,334	9,005	6,348	9,978
	April ^p	126,005	58,583	4,250	1,109	26,885	4,434	21,905	37,266	2,063	4,770	9,169	5,368	8,785
PERCENT CHANGE														
	March 1997- April 1997	-2	-1	(Z)	21	-1	4	-2	(Z)	3	-11	2	-15	-12

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. ^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																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																			
April 1996	140,324	107,718	59,861	43,563	38,193	5,369	37,055	8,605	6,293	2,991	11,519	1,136	1,378	3,071	2,066	(NA)	2,913	657	
April 1997	146,415	113,031	61,019	44,294	38,666	5,629	40,841	7,935	7,939	3,570	12,193	1,423	1,853	3,626	2,302	(NA)	(NA)	776	
Percent change	4	5	2	2	1	5	10	-8	26	19	6	25	34	18	11	(NA)	(NA)	18	
MONTHLY DATA																			
1995: 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	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	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	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	45,276	33,288	20,115	14,164	12,770	1,394	10,265	2,108	1,912	783	3,291	324	509	794	546	(NA)	761	178	
August	47,124	34,688	20,691	14,536	13,074	1,462	10,888	2,016	1,961	854	3,725	367	569	866	531	(NA)	882	176	
September	46,912	34,184	20,004	14,398	12,973	1,426	11,165	2,271	2,016	876	3,692	371	545	877	516	(NA)	784	203	
October	47,019	34,754	19,890	14,117	12,621	1,496	11,709	2,562	2,094	911	3,762	367	558	905	550	(NA)	907	217	
November	44,311	33,390	18,688	13,528	12,024	1,503	11,482	2,357	2,134	880	3,703	386	525	913	584	(NA)	925	213	
December	38,506	29,536	15,714	11,282	9,948	1,334	10,583	2,229	1,943	871	3,280	360	461	913	527	(NA)	1,053	191	
1997: January	34,284	26,497	14,023	10,313	9,086	1,227	9,840	1,983	1,874	827	3,024	320	430	868	514	(NA)	677	178	
February ^f	34,023	26,314	13,584	10,046	8,622	1,424	10,040	1,964	2,074	883	2,931	321	441	872	556	(NA)	645	174	
March ^f	37,670	29,190	15,929	11,673	10,207	1,467	10,405	1,946	1,997	947	3,147	373	453	922	619	(NA)	735	202	
April ^p	40,438	31,030	17,483	12,262	10,751	1,511	10,556	2,042	1,994	913	3,091	409	529	964	613	(NA)	(NA)	222	
PERCENT CHANGE																			
March 1997- April 1997	7	6	10	5	5	3	1	5	(Z)	-4	-2	10	17	5	-1	(NA)	(NA)	10	

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													
April 1996	32,607	15,832	1,504	410	6,748	1,313	5,857	6,966	962	1,501	2,823	1,539	2,982
April 1997	33,383	17,237	1,308	312	7,521	1,401	6,696	7,220	667	1,468	2,564	1,651	2,577
Percent change	2	9	-13	-24	11	7	14	4	-31	-2	-9	7	-14
MONTHLY DATA													
1995: 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	9,306	4,221	367	108	1,859	324	1,563	2,252	222	430	830	489	861
May	10,647	4,703	440	115	1,996	371	1,782	2,957	230	442	884	482	948
June	11,283	4,811	381	116	2,168	354	1,791	3,388	230	449	861	504	1,039
July	11,988	5,080	408	114	2,413	328	1,819	3,859	177	470	838	502	1,063
August	12,436	5,398	367	116	2,683	311	1,920	3,901	177	467	982	484	1,027
September	12,729	5,291	395	161	2,371	398	1,965	4,122	230	567	951	518	1,050
October	12,266	5,051	424	53	2,291	350	1,933	4,062	160	402	1,054	607	930
November	10,922	4,939	415	79	2,149	315	1,981	2,997	184	435	887	541	939
December	8,970	4,435	355	76	1,889	360	1,755	2,228	180	375	714	424	614
1997: January	7,786	4,091	321	76	1,769	342	1,583	1,564	179	370	613	385	585
February ^f	7,709	4,123	310	70	1,776	344	1,623	1,468	155	332	594	395	643
March ^f	8,480	4,384	328	77	1,942	341	1,697	1,781	169	388	637	457	663
April ^p	9,408	4,639	349	89	2,034	374	1,793	2,407	164	378	720	414	686
PERCENT CHANGE													
March 1997-													
April 1997	11	6	6	16	5	10	6	35	-3	-3	13	-9	3

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. ^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					
1995:	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	9,302	4,315	365	2,102	286	1,562	2,525	153	925	558	827
	May	10,746	4,778	444	2,262	284	1,788	3,328	162	987	551	941
	June	11,544	4,950	388	2,465	329	1,769	3,825	178	965	576	1,050
	July	12,442	5,280	408	2,755	288	1,830	4,393	195	945	576	1,053
	August	13,063	5,708	377	3,066	289	1,976	4,452	206	1,113	557	1,027
	September	12,974	5,385	398	2,719	353	1,916	4,738	209	1,084	599	959
	October	13,083	5,413	446	2,631	339	1,997	4,647	234	1,202	701	887
	November	11,268	5,165	421	2,467	286	1,992	3,412	209	1,008	622	851
	December	9,219	4,625	366	2,185	310	1,764	2,538	162	814	488	593
1997:	January	7,864	4,247	305	2,045	279	1,620	1,783	132	700	442	559
	February ^f	7,832	4,286	311	2,050	273	1,652	1,675	129	678	452	612
	March ^f	8,735	4,639	332	2,254	310	1,744	2,047	172	732	527	618
	April ^p	9,885	4,934	361	2,369	356	1,849	2,786	196	833	481	655
		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
1995:	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	1,203	464	56	122	1	80	206	(NA)	252	326	141
	May	1,310	561	60	130	1	136	233	(NA)	261	332	127
	June	1,271	526	52	132	1	75	267	(NA)	262	325	123
	July	1,254	528	64	130	1	87	247	(NA)	202	334	156
	August	1,181	468	49	133	1	67	219	(NA)	203	322	147
	September	1,678	688	60	185	1	104	338	(NA)	265	438	248
	October	1,019	396	46	60	2	63	225	(NA)	184	224	179
	November	1,262	516	61	91	2	76	285	(NA)	211	286	221
	December	1,116	513	51	88	-	106	267	(NA)	207	266	109
1997:	January	1,107	487	71	88	-	116	211	(NA)	206	290	110
	February ^f	1,048	482	53	80	2	124	223	(NA)	178	250	125
	March ^f	1,096	462	53	89	4	86	230	(NA)	196	274	147
	April ^p	1,067	473	49	104	1	80	240	(NA)	191	241	142

- 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					
1995:	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	125,654	54,570	4,490	27,744	3,366	18,970	39,144	1,954	12,294	7,137	10,554
	May	125,361	56,760	5,186	27,561	3,541	20,471	37,389	1,913	11,800	6,380	11,119
	June	125,022	55,323	4,358	27,009	3,701	20,255	37,960	2,064	11,056	6,463	12,155
	July	125,505	56,841	4,822	27,386	3,334	21,299	38,902	1,996	10,753	6,264	10,749
	August	124,543	58,375	4,492	28,283	3,589	22,012	36,174	2,049	11,753	6,002	10,191
	September	129,345	59,599	4,769	29,053	3,943	21,834	40,154	2,122	11,160	6,551	9,759
	October	130,010	60,302	4,813	29,840	3,809	21,841	39,024	2,393	12,137	7,095	9,059
	November	132,519	62,595	4,875	30,933	3,402	23,385	39,833	2,324	11,383	6,907	9,476
	December	128,583	60,185	4,592	29,896	3,603	22,094	41,385	2,189	10,555	6,239	8,030
1997:	January	128,006	59,835	3,973	29,883	3,716	22,263	40,998	2,056	9,852	6,570	8,695
	February ^f	132,402	61,182	4,196	30,628	3,603	22,756	42,048	2,014	10,530	7,069	9,559
	March ^f	135,928	63,041	4,345	31,635	3,915	23,146	42,861	2,689	10,346	7,319	9,670
	April ^P	133,340	62,378	4,380	31,311	4,165	22,522	43,143	2,533	10,609	6,232	8,445
		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
1995:	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	14,736	5,533	665	1,453	14	951	2,450	(NA)	3,168	4,001	1,724
	May	15,000	6,346	682	1,471	14	1,542	2,638	(NA)	3,020	3,843	1,465
	June	14,994	6,074	594	1,528	10	860	3,082	(NA)	3,140	3,939	1,493
	July	14,514	6,218	758	1,526	8	1,020	2,906	(NA)	2,439	3,798	1,768
	August	13,469	5,575	579	1,583	10	795	2,608	(NA)	2,307	3,611	1,643
	September	14,555	6,389	558	1,719	10	965	3,137	(NA)	2,583	3,351	1,901
	October	15,493	5,757	669	879	26	913	3,270	(NA)	2,774	3,702	2,957
	November	15,464	6,324	749	1,119	29	933	3,493	(NA)	2,350	3,650	2,814
	December	14,123	6,409	639	1,104	4	1,330	3,333	(NA)	2,423	3,519	1,446
1997:	January	14,238	6,179	904	1,116	4	1,477	2,678	(NA)	2,524	3,781	1,432
	February ^f	14,695	6,473	705	1,080	23	1,670	2,994	(NA)	2,614	3,520	1,761
	March ^f	13,458	5,520	632	1,066	48	1,030	2,744	(NA)	2,320	3,439	1,844
	April ^P	13,360	5,905	606	1,292	10	1,000	2,997	(NA)	2,405	2,986	1,754

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					
1995:	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	111,279	48,201	3,921	24,530	2,976	16,773	34,641	1,753	11,026	6,261	9,398
	May	110,677	49,997	4,518	24,304	3,123	18,052	32,942	1,713	10,564	5,587	9,875
	June	110,061	48,607	3,783	23,755	3,255	17,814	33,328	1,843	9,871	5,655	10,757
	July	109,845	49,711	4,161	23,981	2,919	18,650	33,916	1,769	9,533	5,462	9,454
	August	108,736	51,011	3,869	24,744	3,140	19,258	31,401	1,808	10,373	5,219	8,923
	September	112,371	51,921	4,118	25,330	3,438	19,035	34,646	1,862	9,790	5,667	8,486
	October	113,083	52,439	4,146	25,970	3,315	19,008	33,846	2,099	10,647	6,148	7,905
	November	115,484	54,427	4,192	26,922	2,961	20,352	34,698	2,044	10,011	6,006	8,298
	December	111,629	51,961	3,911	25,839	3,115	19,096	36,050	1,920	9,259	5,421	7,019
1997:	January	111,148	51,713	3,390	25,850	3,215	19,258	35,681	1,802	8,635	5,723	7,594
	February ^f	114,973	52,916	3,577	26,517	3,119	19,702	36,563	1,764	9,221	6,168	8,342
	March ^f	117,263	54,177	3,708	27,201	3,366	19,902	37,013	2,341	9,005	6,348	8,380
	April ^P	114,519	53,518	3,734	26,876	3,576	19,332	37,001	2,189	9,169	5,368	7,274
		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
1995:	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	13,084	4,885	581	1,284	13	841	2,166	(NA)	2,801	3,589	1,535
	May	13,280	5,589	594	1,298	12	1,359	2,326	(NA)	2,663	3,440	1,301
	June	13,238	5,335	516	1,344	9	756	2,711	(NA)	2,759	3,517	1,322
	July	12,743	5,435	654	1,336	7	893	2,545	(NA)	2,132	3,367	1,555
	August	11,794	4,870	498	1,385	8	696	2,282	(NA)	2,010	3,187	1,438
	September	12,684	5,566	482	1,499	9	841	2,735	(NA)	2,241	2,940	1,653
	October	13,505	5,005	576	765	23	795	2,846	(NA)	2,410	3,248	2,580
	November	13,502	5,496	644	974	26	812	3,040	(NA)	2,047	3,210	2,464
	December	12,268	5,531	544	954	3	1,150	2,880	(NA)	2,102	3,087	1,264
1997:	January	12,368	5,335	771	966	3	1,278	2,317	(NA)	2,189	3,314	1,251
	February ^f	12,767	5,595	601	935	20	1,446	2,592	(NA)	2,269	3,082	1,537
	March ^f	11,622	4,742	539	917	41	886	2,359	(NA)	2,000	2,993	1,598
	April ^P	11,486	5,065	516	1,109	9	859	2,572	(NA)	2,063	2,581	1,511

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 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					
1995:	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	8,238	3,811	319	1,858	253	1,381	2,234	137	830	489	736
	May	9,487	4,209	387	1,995	250	1,577	2,932	145	884	482	835
	June	10,161	4,349	336	2,168	289	1,556	3,358	159	861	504	930
	July	10,887	4,618	352	2,412	252	1,602	3,830	173	838	502	926
	August	11,401	4,989	325	2,683	253	1,728	3,865	182	982	484	899
	September	11,266	4,692	344	2,370	308	1,670	4,088	183	951	518	834
	October	11,378	4,707	384	2,290	295	1,738	4,030	206	1,054	607	774
	November	9,820	4,491	362	2,147	248	1,733	2,972	184	887	541	745
	December	8,001	3,993	312	1,888	268	1,524	2,211	142	714	424	518
1997:	January	6,825	3,671	260	1,769	241	1,401	1,552	116	613	385	489
	February ^f	6,798	3,706	265	1,774	237	1,430	1,456	113	594	395	534
	March ^f	7,534	3,987	283	1,938	266	1,499	1,767	150	637	457	536
	April ^P	8,490	4,233	307	2,034	305	1,587	2,390	170	720	414	564
		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
1995:	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	1,068	410	49	108	1	71	182	(NA)	222	292	125
	May	1,160	494	53	115	1	120	206	(NA)	230	298	113
	June	1,122	462	45	116	1	66	235	(NA)	230	290	109
	July	1,101	462	56	114	1	76	216	(NA)	177	296	137
	August	1,034	409	42	116	1	58	192	(NA)	177	284	128
	September	1,463	599	52	161	1	91	294	(NA)	230	384	216
	October	888	344	40	53	2	55	196	(NA)	160	196	156
	November	1,101	448	53	79	2	66	248	(NA)	184	252	193
	December	969	442	44	76	-	92	230	(NA)	180	234	96
1997:	January	961	420	61	76	-	101	182	(NA)	179	254	96
	February ^f	911	416	45	70	1	108	193	(NA)	155	219	109
	March ^f	946	397	45	77	3	74	198	(NA)	169	238	127
	April ^P	918	406	41	89	1	69	206	(NA)	164	209	122

- 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 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													
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	116.2	110	109	115	111	111	112	109
1996.....	114.4	114.6	112.9	112.7	115.5	115.5	116.0	112	112	118	112	112	114	114
	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.....	113.5	113.6	111.1	111.3	114.5	114.5								
May.....	113.9	113.9	111.5	111.8	114.9	114.8	112.7	112	112					
June.....	114.0	114.3	112.2	112.3	114.9	115.2								
July.....	114.5	114.9	112.6	112.7	115.4	115.9								
August.....	114.9	115.1	113.6	113.4	115.9	116.1	118.7	112	112					
September.....	115.1	115.3	114.3	113.8	115.6	115.8				118	112	113	115	114
October.....	115.3	115.4	115.6	114.5	116.1	116.1								
November.....	115.4	115.4	116.3	114.9	116.5	116.3	117.6	114	113					
December.....	116.3	116.2	116.5	115.0	117.8	117.4								
1997: January.....	116.3	116.0	117.3	115.4	117.9	117.2								
February.....	^r 116.4	^r 116.0	117.3	115.5	^r 118.1	^r 117.3	(NA)	114	114					
March.....	^r 116.7	^r 116.5	117.0	115.5	^r 117.8	^r 117.2				118	112	113	115	115
April.....	^p 116.9	^p 116.7	118.7	116.3	^p 117.8	^p 117.3								
May.....			119.2	117.1			(NA)	(NA)	(NA)					

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	Apr. 1997 ^P	Mar. 1997 ^r	Feb. 1997 ^r	Jan. 1997	Dec. 1996	Nov. 1996	Oct. 1996	Sep. 1996	Aug. 1996	July 1996	June 1996	Apr. 1996
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	94.5	89.7	76.3	81.6	89.3	107.1	111.9	114.6	115.3	112.7	108.3	94.3
2 units or more	96.9	91.7	86.2	86.6	95.3	101.1	106.9	105.0	110.1	107.9	106.9	95.9
Nonresidential buildings:												
Industrial	98.6	95.6	90.2	90.5	105.2	102.9	106.9	105.4	102.1	100.4	102.9	97.2
Office	100.0	96.3	93.3	91.5	97.2	101.6	102.2	104.5	103.5	101.4	99.7	101.8
Hotels, motels	103.1	98.8	95.5	91.7	99.1	96.9	103.2	100.1	100.0	100.9	102.6	104.9
Other commercial	93.8	89.2	83.1	84.6	94.9	104.8	112.1	115.2	110.7	106.3	104.0	94.0
Religious	96.8	90.5	85.0	88.2	100.7	107.0	115.7	113.7	108.1	101.5	94.9	97.3
Educational	91.9	88.9	80.7	82.2	86.8	94.4	102.9	109.2	122.4	120.1	116.5	94.1
Hospital and institutional	99.5	97.1	93.2	94.3	101.0	103.3	106.2	102.9	101.5	98.8	100.0	100.3
Miscellaneous nonresidential	105.3	97.6	87.7	85.8	96.7	103.2	110.5	105.8	103.4	102.1	103.3	104.4
Telecommunications	98.0	93.4	81.1	82.4	105.6	105.2	113.4	100.6	111.0	104.1	101.7	98.4
All other private	94.6	89.6	83.0	90.4	95.7	107.2	109.2	110.8	101.5	108.2	105.2	93.9
PUBLIC CONSTRUCTION												
State and Local												
Buildings:												
Housing and redevelopment	98.8	91.6	89.0	92.0	95.7	103.7	111.2	100.1	100.8	101.5	106.7	97.5
Educational	90.8	85.5	80.3	82.1	87.7	95.7	105.8	112.3	130.1	120.7	109.5	90.9
Hospital	102.5	95.0	91.0	90.0	103.2	100.7	106.9	107.4	96.7	103.6	106.5	102.1
Other buildings	98.5	90.4	87.1	87.3	95.8	102.2	109.7	105.3	107.7	103.1	104.8	98.8
Highways and streets	77.5	57.3	47.8	52.2	73.6	102.8	142.9	141.6	147.7	135.5	120.9	77.4
Conservation and development	93.0	76.7	76.8	77.2	88.6	107.8	117.5	117.9	120.9	117.5	103.7	94.0
Sewer systems	94.2	84.9	77.3	85.2	92.5	106.3	118.8	116.6	113.6	105.5	104.7	90.3
Water supply facilities	92.6	86.4	76.8	80.7	93.8	108.1	118.5	109.7	111.3	110.3	107.0	93.8
Miscellaneous construction	93.0	76.7	76.8	77.2	88.6	107.8	117.5	117.9	120.9	117.5	103.7	94.0
Federal												
Buildings:												
Housing and redevelopment	96.1	100.5	89.3	94.5	96.0	97.9	82.5	129.2	100.8	102.0	104.0	100.7
Industrial	96.1	100.5	89.3	94.5	96.0	97.9	82.5	129.2	100.8	102.0	104.0	100.7
Educational	96.1	100.5	89.3	94.5	96.0	97.9	82.5	129.2	100.8	102.0	104.0	100.7
Hospital	96.1	100.5	89.3	94.5	96.0	97.9	82.5	129.2	100.8	102.0	104.0	100.7
Other buildings	96.1	100.5	89.3	94.5	96.0	97.9	82.5	129.2	100.8	102.0	104.0	100.7
Military	95.4	101.6	81.7	97.9	102.7	107.6	79.5	123.0	105.7	99.6	100.1	95.3
Conservation and development	97.0	95.6	85.3	92.1	90.8	94.1	72.6	156.8	107.1	105.6	99.0	97.8
Miscellaneous construction	97.0	95.6	85.3	92.1	90.8	94.1	72.6	156.8	107.1	105.6	99.0	97.8

^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 4 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	2	1	.03	.03
Private construction.....	3	2	1	.04	.03
Residential buildings.....	5	4	2	.06	.05
New housing units.....	2	2	1	.01	.02
1 unit structures.....	2	2	2	.01	.02
2 units or more.....	4	4	3	.03	.04
Nonresidential buildings.....	2	2	1	.02	.03
Industrial.....	3	3	2	.04	.04
Office.....	4	3	2	.05	.04
Hotels, motels.....	7	6	5	.09	.08
Other commercial.....	5	3	2	.06	.04
Religious.....	9	8	5	.12	.11
Educational.....	7	6	5	.10	.09
Hospital and institutional.....	6	6	5	.07	.08
Miscellaneous buildings.....	7	6	4	.09	.09
Public construction.....	2	1	1	.03	.01
Housing and redevelopment.....	8	5	4	.11	.07
Industrial.....	(NA)	(NA)	(NA)	(NA)	(NA)
Educational.....	3	3	2	.04	.04
Hospital.....	6	6	4	.08	.09
Other public buildings.....	3	2	2	.04	.03
Highways and streets.....	4	3	2	.05	.04
Military facilities.....	(NA)	(NA)	(NA)	(NA)	(NA)
Conservation and development.....	4	3	2	.06	.04
Sewer systems.....	6	4	3	.08	.06
Water supply facilities.....	8	5	3	.11	.07
Miscellaneous public.....	8	5	4	.11	.07
State and local construction.....	2	1	1	.03	.01
Housing and redevelopment.....	8	5	5	.11	.07
Educational.....	3	3	2	.04	.04
Hospital.....	8	7	5	.11	.10
Other public buildings.....	4	3	2	.05	.04
Highways and streets.....	4	3	2	.05	.04
Conservation and development.....	16	11	9	.23	.16
Sewer systems.....	6	4	3	.08	.06
Water supply facilities.....	8	5	3	.11	.07
Miscellaneous public.....	9	6	4	.12	.09
Federal construction.....	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Note: All statistics are based upon 1996 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.