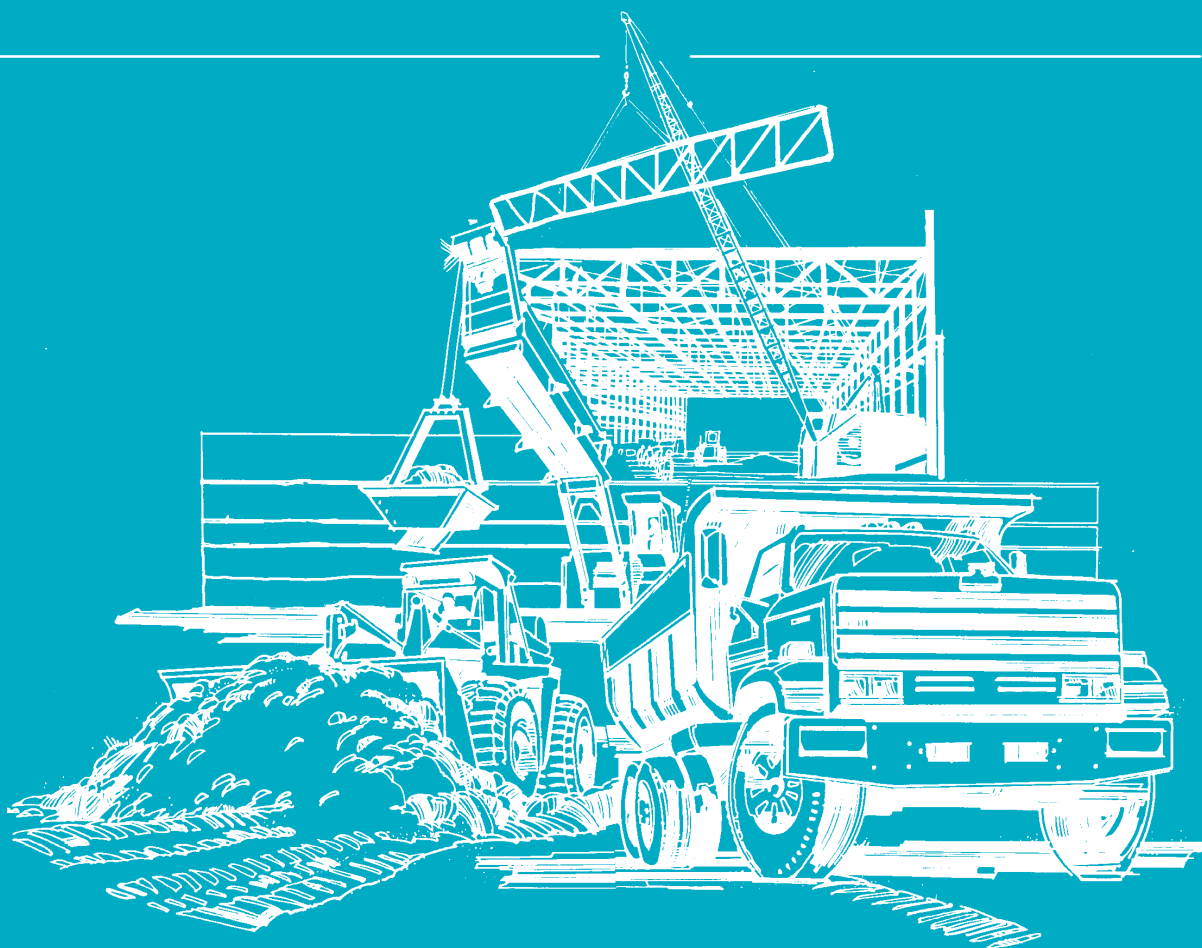


Current Construction Reports
C30/98-5

Value of Construction Put in Place: May 1998



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

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Current Construction Reports
C30/98-5

Value of Construction Put in Place: May 1998

Issued July 1998



U.S. Department of Commerce
William M. Daley, Secretary

Economics and Statistics Administration
Robert J. Shapiro, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
James F. Holmes, Acting Director



**Economics and Statistics
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Introduction

ANNUAL DATA BACK TO 1993 AND MONTHLY DATA BACK TO 1995 ARE SHOWN IN THIS REPORT

Construction put in place during May 1998 was estimated at a seasonally adjusted annual rate of \$633.5 billion, 2(\pm 5) percent below the revised April estimate of \$643.4 billion. The May figure represents a 4(\pm 5) percent increase over May 1997.

In constant (1992) dollars, the May annual rate was \$526.1 billion, 2(\pm 5) percent below the revised estimate of \$534.7 billion for April.

DESCRIPTION OF CURRENT REVISIONS

In each May report, unadjusted value-in-place estimates are revised to incorporate additional data not previously available. Seasonally adjusted statistics are also revised using newly computed seasonal factors. The revised factors for January 1995-December 1997 were computed using data through April 1998. The revised factors for January-May 1998 were computed using data through May 1998. See Appendix D, Adjustments for Seasonal Variations and Cost Changes.

Annual statistics reflecting all revisions are shown in Tables 1 and 2. Monthly estimates for January 1995 through May 1998 are presented in Tables 3-10. Monthly and annual data back to 1964 are available upon request or on the Internet at <http://www.census.gov/const/www/c30index.html>.

RELATIONSHIP OF VALUE OF CONSTRUCTION PUT IN PLACE TO STRUCTURES IN GDP

The estimates shown in this report differ from the estimates of structures components of the gross domestic product (GDP) as developed by the Bureau of Economic Analysis (BEA), because of differences in coverage, estimation procedures, classification, and the timing of revisions.

Coverage Differences

GDP estimates of the structures components of gross private domestic fixed investment exclude the imputed interest amount of the allowances for funds used during construction of public utility plants; these amounts are

included in the value-in-place estimates. In addition, GDP estimates include the following items not included in the value-in-place series:

1. Expenditures on new mobile homes.
2. Expenditures for petroleum and natural gas well drilling and exploration.
3. Expenditures for construction of mine shafts and mining exploration.
4. Brokers' commissions on the sale of new and existing structures.
5. Net value of purchases of used structures from the public sector by the private sector.
6. Expenditures for Federal Government structures located outside the United States.

Estimation Procedures Differences

Effective with the January 1996 comprehensive revision of the national income and product accounts (NIPAs), the estimates of the structures components of GDP for 1992 are estimated as follows:¹

Private Structures

Estimates of residential structures are the value-in-place estimates.

Estimates of all components of nonresidential buildings, except industrial buildings, are prepared by BEA as the sum of "new" structures from the value-in-place estimates plus "improvements to existing structures" estimates based on the Department of Energy's Commercial Buildings Energy Consumption Survey. The estimate of industrial buildings is prepared by BEA based on the Census Bureau's Annual Capital Expenditures Survey.

Estimates of public utility structures are the value-in-place estimates, adjusted by BEA to exclude remaining allowances for funds used during construction (imputed interest).

The estimate of farm structures is the value-in-place estimate.

¹For additional information, see the January/February 1996 *Survey of Current Business*, page 5 and Tables 5.6 and 5.14.

The estimate of all other private nonresidential structures is prepared by BEA as an extrapolation of a 1982 benchmark estimate using the corresponding value-in-place series.

Government Structures

Estimates of state and local structures are the value-in-place estimates.

Estimates of all components of Federal structures are the value-in-place estimates except housing and military facilities; these two estimates are prepared by BEA from Department of Defense data.

Residential Improvements

In the quarterly estimate of GDP, Construction Expenditure Survey (CES) estimates of residential improvements are not usually available. Consequently, BEA projects estimates for the current quarter and normally replaces the projections with the CES estimates in the annual NIPA revision.

Classification Differences

BEA classifies dormitories, fraternity and sorority houses, etc. as private residential structures. They are classified in the educational component of private nonresidential buildings in the value-in-place series.

BEA classifies Federal Government expenditures for military family housing in the defense purchases component of GDP. These expenditures are classified in the housing component of the value-in-place series. BEA separates atomic energy related construction and hospital construction into the defense and nondefense components; they are not separated in the value-in-place series.

BEA classifies Federal Government expenditures on structures by the Coast Guard in the nondefense purchases component of GDP. These expenditures are classified in the military facilities component of the value-in-place series.

Timing of Revisions

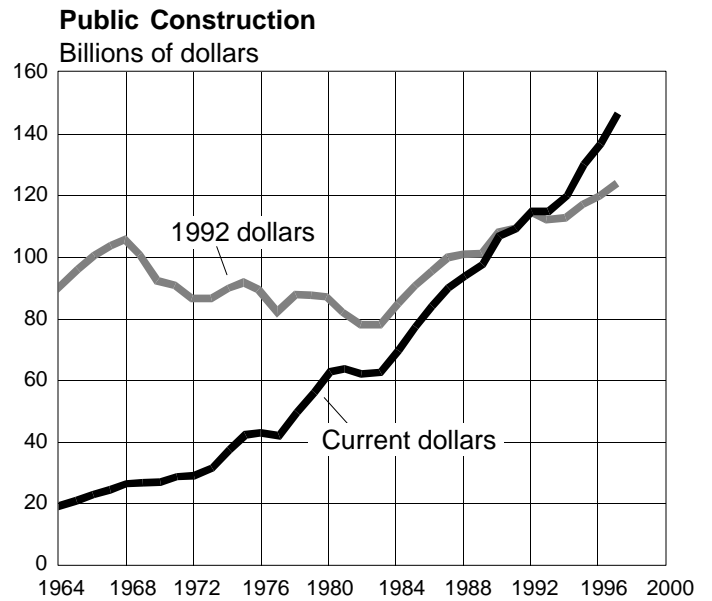
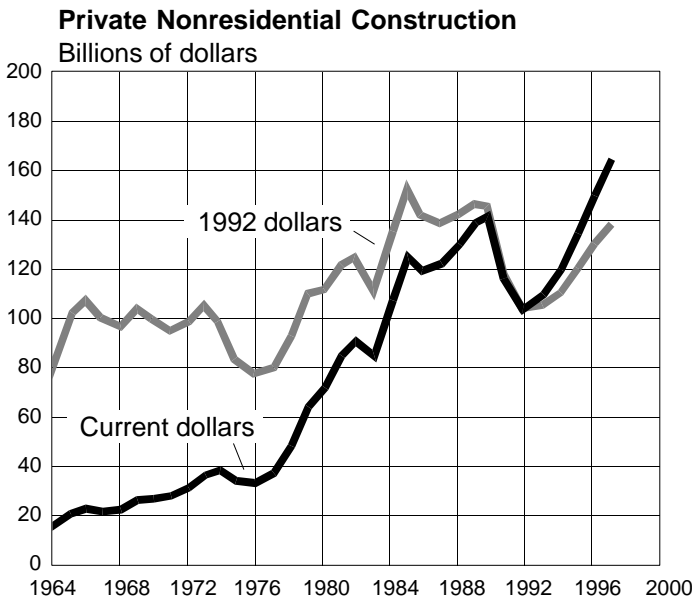
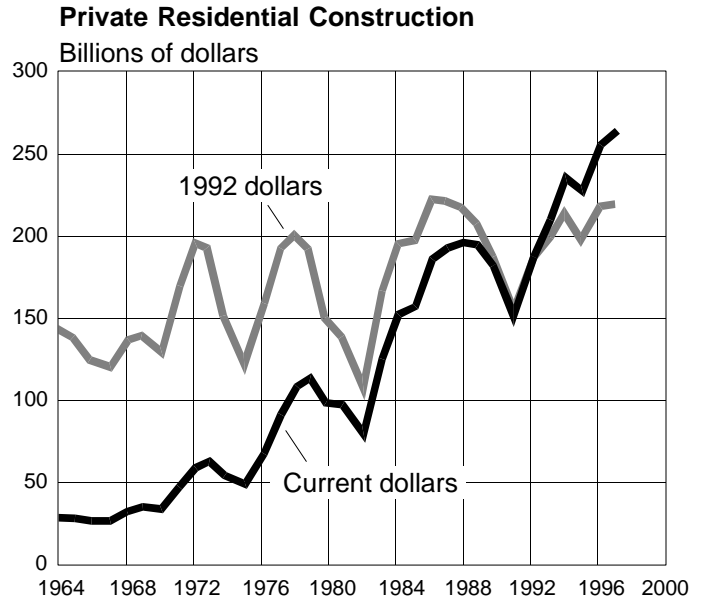
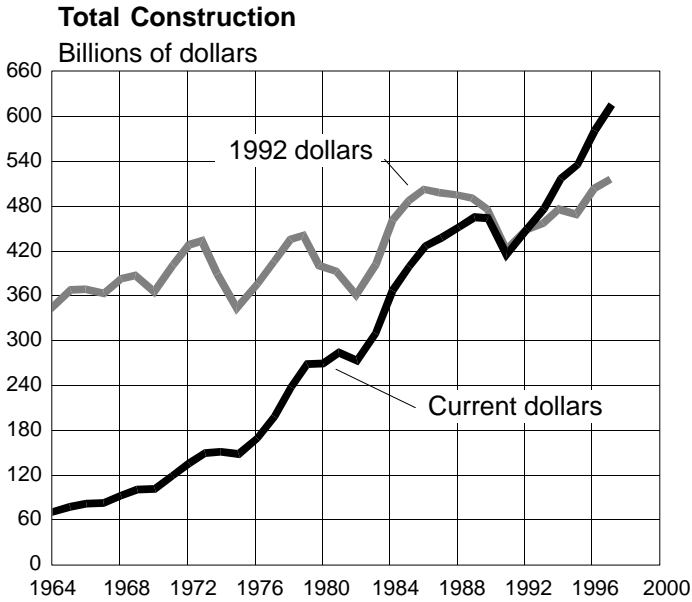
Because of differences in the timing of revisions, not all revisions to the value-in-place estimates have been incorporated in the NIPAs.

ADDITIONAL DATA

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

- Current Construction Reports, *Value of Construction Put in Place: July 1997*, C30/97-7, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1997; contains annual value of construction put in place for private nonresidential buildings by geographic area and detailed types of construction for 1973 to 1996.
- Current Construction Reports, *Value of New Construction Put in Place: October 1992*, C30/92-10, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1992; contains total time and monthly progress from start to completion for private nonresidential buildings and for state and local construction.
- 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.

Annual Value of Construction Put in Place: 1964-1997



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

Table 1. Annual Value of Construction Put in Place: 1993-1997

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1993	1994 ^r	1995 ^r	1996 ^r	1997 ^r	1993	1994 ^r	1995 ^r	1996 ^r	1997 ^r
Total construction	478,648	519,539	538,134	583,638	618,217	461,078	480,620	478,069	506,655	520,117
Private construction	362,688	399,346	407,477	446,306	471,159	347,851	367,247	360,040	385,967	395,321
Residential buildings	210,455	238,874	230,688	256,460	265,610	200,502	218,005	201,677	220,017	221,546
New housing units	144,071	167,919	162,898	179,448	187,075	137,243	153,250	142,413	153,966	156,038
1 unit	133,282	153,838	145,009	159,124	164,444	126,960	140,416	126,773	136,516	137,156
2 or more units	10,788	14,081	17,889	20,324	22,631	10,283	12,833	15,640	17,450	18,882
Improvements	66,384	70,955	67,790	77,012	78,535	63,259	64,755	59,264	66,052	65,508
Nonresidential buildings	110,635	120,285	135,022	150,350	165,146	106,729	111,416	120,627	131,188	139,067
Industrial	26,482	28,947	32,505	32,657	31,394	25,554	26,803	29,043	28,503	26,440
Office	20,920	22,178	25,613	27,886	32,816	20,197	20,553	22,891	24,329	27,631
Hotels, motels	4,565	4,648	7,112	10,912	12,752	4,405	4,308	6,351	9,521	10,741
Other commercial	32,453	37,551	42,654	48,188	50,763	31,292	34,756	38,098	42,042	42,748
Religious	3,887	3,869	4,326	4,534	5,885	3,748	3,584	3,864	3,955	4,951
Educational	4,649	4,822	5,493	6,742	8,437	4,484	4,471	4,908	5,880	7,101
Hospital and institutional	12,492	12,268	11,248	11,780	13,741	12,050	11,377	10,051	10,280	11,576
Miscellaneous ¹	5,188	6,002	6,071	7,650	9,358	5,000	5,565	5,421	6,677	7,880
Farm nonresidential	3,392	3,226	3,014	3,804	3,956	3,271	2,990	2,692	3,319	3,329
Public utilities	34,925	34,071	35,859	33,261	34,188	34,120	32,074	32,401	29,286	29,448
Telecommunications	9,619	10,121	11,093	11,772	11,626	9,468	9,785	10,073	10,245	9,918
Other public utilities	25,306	23,950	24,766	21,489	22,562	24,652	22,289	22,328	19,041	19,529
Railroads	3,108	3,340	3,509	4,398	5,059	3,056	3,186	3,201	3,894	4,321
Electric light and power	15,567	14,918	14,049	11,211	12,144	15,096	13,877	12,656	9,914	10,545
Gas	5,645	4,694	6,279	4,865	4,390	5,536	4,308	5,637	4,330	3,820
Petroleum pipelines	986	998	929	1,015	969	965	918	834	903	843
All other private ²	3,281	2,890	2,893	2,431	2,258	3,229	2,763	2,643	2,156	1,931
Public construction	115,960	120,193	130,657	137,333	147,058	113,227	113,373	118,029	120,688	124,796
Buildings	48,559	49,446	55,700	58,659	63,603	46,813	45,728	49,683	51,119	53,515
Housing and redevelopment ..	4,011	3,835	4,491	4,614	4,861	3,833	3,495	3,928	3,958	4,055
Industrial	1,718	1,465	1,508	1,389	998	1,658	1,358	1,348	1,214	842
Educational	19,129	20,361	23,278	24,112	27,065	18,465	18,838	20,800	21,035	22,786
Hospital	3,710	3,951	4,332	4,638	5,042	3,579	3,663	3,871	4,050	4,247
Other ³	19,991	19,834	22,089	23,907	25,637	19,279	18,373	19,737	20,863	21,585
Highways and streets	34,299	37,419	38,498	41,243	45,197	34,164	36,219	35,303	36,483	38,605
Military facilities	2,453	2,318	3,011	2,634	2,620	2,405	2,196	2,728	2,317	2,223
Conservation and development ..	5,937	6,363	6,368	6,011	5,658	5,771	5,996	5,779	5,335	4,841
Sewer systems	8,863	8,700	9,435	10,433	10,463	8,622	8,199	8,557	9,260	8,951
Water supply facilities	5,085	4,647	5,283	5,964	6,339	4,868	4,237	4,695	5,187	5,393
Miscellaneous public ⁴	10,765	11,301	12,362	12,388	13,177	10,583	10,799	11,284	10,987	11,267

^rRevised.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 Public Construction Put in Place: 1993-1997

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1993	1994 ^r	1995 ^r	1996 ^r	1997 ^r	1993	1994 ^r	1995 ^r	1996 ^r	1997 ^r
Total public construction	115,960	120,193	130,657	137,333	147,058	113,227	113,373	118,029	120,688	124,796
State and local construction	101,535	105,753	114,906	121,965	132,777	99,200	99,804	103,816	107,169	112,687
Total buildings	42,865	44,303	49,657	52,429	57,497	41,323	40,972	44,294	45,689	48,379
Housing and redevelopment	3,775	3,389	3,915	3,933	4,185	3,608	3,089	3,424	3,374	3,490
Educational	19,108	20,335	23,252	24,099	27,046	18,445	18,814	20,776	21,024	22,770
Hospital	2,804	3,099	3,291	3,478	3,791	2,703	2,875	2,940	3,036	3,193
Other ¹	17,177	17,480	19,199	20,919	22,476	16,567	16,195	17,153	18,255	18,926
Highways and streets	33,961	36,991	38,190	40,875	44,817	33,827	35,805	35,020	36,157	38,281
Conservation and development	1,719	1,988	2,201	2,167	2,296	1,670	1,872	1,997	1,922	1,964
Sewer systems	8,863	8,700	9,435	10,433	10,463	8,622	8,199	8,557	9,260	8,951
Water supply facilities	5,085	4,647	5,283	5,964	6,339	4,868	4,237	4,695	5,187	5,393
Miscellaneous nonbuilding ²	9,043	9,125	10,140	10,097	11,364	8,890	8,719	9,252	8,954	9,719
Federal construction	14,424	14,440	15,751	15,368	14,281	14,027	13,569	14,214	13,519	12,109
Total buildings	5,695	5,142	6,043	6,230	6,106	5,490	4,755	5,390	5,430	5,136
Housing	236	446	576	681	677	225	406	503	585	565
Industrial	1,718	1,465	1,508	1,389	998	1,658	1,358	1,348	1,214	842
Educational	21	26	27	12	19	20	24	24	11	16
Hospital	906	851	1,041	1,159	1,251	875	789	931	1,013	1,053
Other ³	2,814	2,354	2,891	2,989	3,161	2,713	2,178	2,584	2,608	2,659
Highways and streets	338	428	308	368	380	336	414	283	325	325
Military facilities	2,453	2,318	3,011	2,634	2,620	2,405	2,196	2,728	2,317	2,223
Conservation and development	4,217	4,376	4,167	3,845	3,362	4,102	4,124	3,781	3,412	2,877
Miscellaneous public ⁴	1,722	2,176	2,223	2,291	1,812	1,693	2,080	2,032	2,034	1,548

^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 3a. Monthly Value of Construction Put in Place: May 1996-May 1998— Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Period	Total 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																			
May 1997	225,738	175,023	97,150	68,928	60,104	8,824	63,801	12,233	12,514	5,105	19,536	2,130	2,969	5,624	3,690	(NA)	4,340	815	
May 1998	235,564	185,242	105,093	75,675	65,937	9,738	65,023	12,071	14,192	5,197	18,555	2,341	3,681	5,456	3,530	(NA)	(NA)	884	
Percent change	4	6	8	10	10	10	2	-1	13	2	-5	10	24	-3	-4	(NA)	(NA)	8	
MONTHLY DATA																			
1996: May ^f	49,906	37,898	22,444	15,324	13,427	1,897	12,142	2,570	2,365	823	3,958	351	511	976	589	(NA)	987	199	
June ^f	53,031	40,613	24,186	16,399	14,475	1,924	12,942	2,768	2,514	894	4,107	387	641	995	636	(NA)	888	216	
July ^f	54,170	40,860	24,713	16,896	15,184	1,712	12,704	2,601	2,441	866	4,147	360	677	962	651	(NA)	932	201	
August ^f	56,370	42,620	25,292	17,289	15,536	1,752	13,521	2,632	2,498	1,001	4,590	411	721	1,039	631	(NA)	1,065	247	
September ^f	56,513	41,913	24,445	17,074	15,381	1,693	13,908	2,914	2,594	994	4,644	425	650	1,045	643	(NA)	949	199	
October ^f	55,820	42,209	24,092	16,694	14,961	1,733	14,408	3,219	2,589	1,000	4,748	439	634	1,068	711	(NA)	1,110	223	
November ^f	52,175	40,092	22,695	15,955	14,217	1,738	13,927	2,993	2,614	1,002	4,433	452	617	1,100	716	(NA)	1,113	187	
December ^f	45,436	35,480	19,093	13,406	11,826	1,581	13,114	2,823	2,507	1,050	3,962	430	560	1,104	678	(NA)	1,251	176	
1997: January ^f	40,440	31,726	16,992	12,255	10,781	1,474	12,164	2,436	2,440	938	3,734	367	528	1,067	655	(NA)	795	152	
February ^f	39,927	31,068	16,412	11,986	10,286	1,700	12,385	2,464	2,580	972	3,715	379	531	1,086	659	(NA)	771	141	
March ^f	44,448	34,546	19,268	13,987	12,239	1,747	12,584	2,329	2,468	1,014	3,850	439	544	1,169	769	(NA)	854	164	
April ^f	48,594	37,593	21,225	14,800	12,979	1,822	13,112	2,482	2,469	1,040	4,009	461	663	1,190	797	(NA)	975	179	
May ^f	52,329	40,089	23,253	15,900	13,819	2,081	13,556	2,522	2,556	1,140	4,228	485	703	1,112	810	(NA)	946	179	
June ^f	55,788	42,172	24,501	16,589	14,594	1,995	14,009	2,632	2,728	1,130	4,394	445	803	1,098	780	(NA)	994	192	
July ^f	57,921	43,454	25,044	17,209	15,337	1,872	14,601	2,784	2,881	1,120	4,607	478	848	1,075	808	(NA)	1,070	199	
August ^f	59,902	44,679	25,596	17,648	15,646	2,002	15,105	2,881	2,984	1,110	4,759	498	847	1,195	831	(NA)	995	225	
September ^f	59,480	44,176	24,987	17,739	15,762	1,977	15,160	2,894	2,978	1,077	4,737	572	806	1,247	849	(NA)	1,087	209	
October ^f	58,365	43,856	24,847	17,641	15,506	2,136	14,968	2,789	3,073	1,109	4,607	604	767	1,192	827	(NA)	1,120	244	
November ^f	53,508	41,047	23,395	16,823	14,889	1,934	14,040	2,566	2,908	1,052	4,224	591	718	1,190	791	(NA)	965	214	
December ^f	47,514	36,751	20,089	14,497	12,606	1,891	13,462	2,614	2,751	1,049	3,899	567	679	1,120	782	(NA)	1,056	159	
1998: January ^f	42,419	33,440	18,345	13,464	11,644	1,819	12,316	2,306	2,801	994	3,406	482	647	1,049	632	(NA)	795	181	
February ^f	41,199	32,338	17,568	12,974	11,111	1,864	12,244	2,297	2,657	987	3,409	484	673	1,081	657	(NA)	874	160	
March ^f	46,531	36,887	20,909	15,408	13,442	1,966	12,910	2,489	2,764	1,015	3,662	476	733	1,079	692	(NA)	1,074	177	
April ^f	51,189	40,174	23,164	16,457	14,410	2,047	13,679	2,512	2,974	1,122	3,880	470	803	1,133	787	(NA)	965	169	
May ^p	54,225	42,403	25,108	17,373	15,331	2,042	13,873	2,467	2,996	1,079	4,198	431	826	1,114	763	(NA)	(NA)	198	
PERCENT CHANGE																			
April 1998-May 1998	6	6	8	6	6	(Z)	1	-2	1	-4	8	-8	3	-2	-3	(NA)	(NA)	17	

See footnotes at end of table.

Table 3a. Monthly Value of Construction Put in Place: May 1996-May 1998—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													
May 1997	50,716	23,904	1,837	442	9,836	1,981	9,809	12,869	979	2,148	3,912	2,402	4,502
May 1998	50,322	24,100	1,861	412	9,708	1,627	10,492	12,804	1,032	2,014	3,678	2,443	4,251
Percent change	-1	1	1	-7	-1	-18	7	-1	5	-6	-6	2	-6
MONTHLY DATA													
1996: May ^f	12,008	5,012	414	127	1,981	409	2,082	3,608	230	498	917	527	1,216
June ^f	12,417	5,045	356	129	2,130	377	2,052	4,041	219	513	888	526	1,186
July ^f	13,310	5,315	406	129	2,392	376	2,013	4,679	200	520	865	519	1,211
August ^f	13,749	5,503	381	132	2,597	331	2,062	4,737	202	579	1,042	520	1,167
September ^f	14,601	5,729	478	184	2,350	459	2,258	4,906	284	884	975	552	1,271
October ^f	13,612	5,266	443	60	2,207	386	2,171	4,939	179	433	1,107	685	1,003
November ^f	12,084	5,296	443	91	2,161	351	2,251	3,570	207	494	948	559	1,009
December ^f	9,956	4,813	371	88	1,893	418	2,043	2,595	204	401	762	474	708
1997: January ^f	8,714	4,475	340	89	1,796	396	1,854	1,821	202	418	680	426	692
February ^f	8,859	4,474	344	79	1,809	388	1,854	1,877	173	390	687	442	816
March ^f	9,902	4,803	351	88	1,979	390	1,996	2,218	195	459	783	519	925
April ^f	11,001	5,035	381	112	2,070	428	2,044	3,084	190	430	828	494	940
May ^f	12,240	5,116	421	74	2,181	379	2,061	3,868	220	452	934	520	1,130
June ^f	13,616	5,682	399	95	2,585	437	2,166	4,600	227	444	978	533	1,151
July ^f	14,467	5,877	420	92	2,736	449	2,180	5,082	239	469	955	577	1,270
August ^f	15,222	5,984	409	80	2,858	410	2,228	5,500	248	521	963	556	1,451
September ^f	15,304	6,065	469	98	2,517	525	2,456	5,206	279	764	1,031	587	1,372
October ^f	14,510	5,874	528	56	2,428	467	2,396	5,044	205	405	992	616	1,374
November ^f	12,460	5,253	430	65	2,069	411	2,277	4,030	242	417	882	579	1,057
December ^f	10,763	4,965	371	70	2,036	362	2,125	2,866	201	490	751	491	1,000
1998: January ^f	8,980	4,581	361	75	1,839	328	1,979	1,943	198	352	689	426	791
February ^f	8,861	4,559	357	78	1,807	302	2,014	1,864	197	428	656	447	711
March ^f	9,644	4,746	381	94	1,850	367	2,053	2,225	244	412	741	467	809
April ^f	11,015	5,059	386	84	2,043	304	2,242	3,060	197	397	803	544	956
May ^p	11,822	5,155	376	80	2,168	327	2,203	3,713	197	426	789	559	984
PERCENT CHANGE													
April 1998-													
May 1998	7	2	-3	-5	6	8	-2	21	(Z)	7	-2	3	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 3b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	538,134	36,055	35,007	39,642	42,206	45,776	48,699	49,270	51,598	51,164	50,142	47,038	41,536
Private construction	407,477	28,138	27,340	30,892	32,544	34,626	36,281	36,918	37,867	37,530	37,489	35,723	32,128
Residential buildings	230,688	15,817	14,681	16,988	18,138	19,596	20,704	21,306	22,088	21,622	21,585	20,547	17,617
New housing units	162,898	11,679	10,755	12,327	12,595	13,296	13,923	14,646	15,341	15,452	15,358	14,816	12,711
1 unit	145,009	10,473	9,536	10,921	11,192	11,780	12,420	13,053	13,645	13,843	13,754	13,258	11,134
2 units or more	17,889	1,206	1,219	1,406	1,403	1,515	1,503	1,593	1,696	1,609	1,605	1,558	1,578
Improvements	67,790	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	135,022	9,296	9,668	10,538	10,892	11,436	11,794	11,853	11,961	12,181	12,232	11,818	11,354
Industrial	32,505	2,237	2,408	2,556	2,799	2,860	2,802	2,808	2,718	2,848	2,844	2,782	2,844
Office	25,613	1,882	1,908	2,078	2,152	2,414	2,243	2,325	2,286	2,183	2,088	2,045	2,012
Hotels, motels	7,112	453	478	619	476	553	569	568	588	641	611	767	795
Other commercial	42,654	2,763	2,892	3,257	3,264	3,373	3,861	3,796	3,902	4,109	4,118	3,833	3,487
Religious	4,326	284	296	296	340	369	367	385	415	419	440	389	327
Educational	5,493	349	365	389	432	453	586	624	495	435	437	363	363
Hospital and institutional	11,248	901	928	907	945	955	880	902	924	971	1,010	977	948
Miscellaneous ¹	6,071	426	394	437	485	459	508	483	503	551	657	590	579
Farm nonresidential	3,014	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	35,859	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,093	765	728	929	912	901	1,060	991	1,023	946	984	970	885
Railroads	3,509	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	14,049	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	6,279	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	929	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,893	207	200	224	244	249	245	297	265	283	259	195	226
Public construction	130,657	7,917	7,667	8,749	9,662	11,150	12,417	12,352	13,732	13,635	12,653	11,315	9,408
Buildings	55,700	3,998	3,966	4,258	4,470	4,785	5,241	5,045	5,290	5,228	4,697	4,578	4,145
Housing and redevelopment	4,491	351	333	356	373	372	419	370	387	397	397	376	360
Industrial	1,508	125	125	136	130	125	118	123	123	180	97	117	111
Educational	23,278	1,628	1,641	1,745	1,804	1,908	2,224	2,337	2,482	2,202	1,928	1,780	1,599
Hospital	4,332	308	320	336	366	387	375	366	324	453	360	383	355
Other ³	22,089	1,586	1,547	1,685	1,797	1,993	2,105	1,850	1,974	1,996	1,916	1,923	1,719
Highways and streets	38,498	1,536	1,394	1,836	2,311	3,340	3,874	4,190	4,974	4,557	4,655	3,418	2,416
Military facilities	3,011	220	178	282	223	246	263	256	262	361	156	269	295
Conservation and development	6,368	455	473	561	503	513	576	555	655	765	352	493	468
Other public construction	27,081	1,709	1,657	1,813	2,155	2,266	2,465	2,306	2,551	2,724	2,794	2,557	2,084
Sewer systems	9,435	623	589	674	671	753	911	796	896	932	935	912	743
Water supply facilities	5,283	362	365	335	375	399	443	494	530	469	547	530	436
Miscellaneous public ⁴	12,362	724	703	804	1,109	1,114	1,111	1,017	1,125	1,323	1,312	1,115	904

See footnotes at end of table.

Table 3b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1996												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	583,638	37,784	36,260	40,514	45,658	49,906	53,031	54,170	56,370	56,513	55,820	52,175	45,436
Private construction	446,306	29,218	28,289	31,769	35,346	37,898	40,613	40,860	42,620	41,913	42,209	40,092	35,480
Residential buildings	256,460	15,906	15,202	18,080	20,312	22,444	24,186	24,713	25,292	24,445	24,092	22,695	19,093
New housing units	179,448	11,719	11,205	13,223	14,264	15,324	16,399	16,896	17,289	17,074	16,694	15,955	13,406
1 unit	159,124	10,283	9,749	11,629	12,457	13,427	14,475	15,184	15,536	15,381	14,961	14,217	11,826
2 units or more	20,324	1,437	1,456	1,594	1,807	1,897	1,924	1,712	1,752	1,693	1,733	1,738	1,581
Improvements	77,012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	150,350	10,445	10,595	10,893	11,751	12,142	12,942	12,704	13,521	13,908	14,408	13,927	13,114
Industrial	32,657	2,521	2,458	2,523	2,636	2,570	2,768	2,601	2,632	2,914	3,219	2,993	2,823
Office	27,886	1,814	1,904	1,920	2,126	2,365	2,514	2,441	2,498	2,594	2,589	2,614	2,507
Hotels, motels	10,912	739	808	814	922	823	894	866	1,001	994	1,000	1,002	1,050
Other commercial	48,188	3,211	3,266	3,396	3,727	3,958	4,107	4,147	4,590	4,644	4,748	4,433	3,962
Religious	4,534	317	314	309	340	351	387	360	411	425	439	452	430
Educational	6,742	395	420	465	451	511	641	677	721	650	634	617	560
Hospital and institutional	11,780	895	840	847	912	976	995	962	1,039	1,045	1,068	1,100	1,104
Miscellaneous ¹	7,650	554	584	621	637	589	636	651	631	643	711	716	678
Farm nonresidential	3,804	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	33,261	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,772	830	835	856	957	987	888	932	1,065	949	1,110	1,113	1,251
Railroads	4,398	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	11,211	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,865	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,015	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,431	203	187	192	199	199	216	201	247	199	223	187	176
Public construction	137,333	8,567	7,971	8,745	10,312	12,008	12,417	13,310	13,749	14,601	13,612	12,084	9,956
Buildings	58,659	4,201	3,814	4,194	4,471	5,012	5,045	5,315	5,503	5,729	5,266	5,296	4,813
Housing and redevelopment	4,614	365	315	317	326	414	356	406	381	478	443	443	371
Industrial	1,389	103	103	124	120	127	129	129	132	184	60	91	88
Educational	24,112	1,567	1,457	1,637	1,742	1,981	2,130	2,392	2,597	2,350	2,207	2,161	1,893
Hospital	4,638	357	373	396	405	409	377	376	331	459	386	351	418
Other ³	23,907	1,809	1,566	1,721	1,879	2,082	2,052	2,013	2,062	2,258	2,171	2,251	2,043
Highways and streets	41,243	1,774	1,777	1,930	2,686	3,608	4,041	4,679	4,737	4,906	4,939	3,570	2,595
Military facilities	2,634	260	211	215	224	230	219	200	284	179	284	207	204
Conservation and development	6,011	383	376	439	490	498	513	520	579	884	433	494	401
Other public construction	28,785	1,950	1,793	1,967	2,441	2,660	2,600	2,595	2,728	2,798	2,794	2,516	1,944
Sewer systems	10,433	684	643	722	881	917	888	865	1,042	975	1,107	948	762
Water supply facilities	5,964	352	367	380	503	527	526	519	520	552	685	559	474
Miscellaneous public ⁴	12,388	913	783	865	1,056	1,216	1,186	1,211	1,167	1,271	1,003	1,009	708

See footnotes at end of table.

Table 3b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1997												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	618,217	40,440	39,927	44,448	48,594	52,329	55,788	57,921	59,902	59,480	58,365	53,508	47,514
Private construction	471,159	31,726	31,068	34,546	37,593	40,089	42,172	43,454	44,679	44,176	43,856	41,047	36,751
Residential buildings	265,610	16,992	16,412	19,268	21,225	23,253	24,501	25,044	25,596	24,987	24,847	23,395	20,089
New housing units	187,075	12,255	11,986	13,987	14,800	15,900	16,589	17,209	17,648	17,739	17,641	16,823	14,497
1 unit	164,444	10,781	10,286	12,239	12,979	13,819	14,594	15,337	15,646	15,762	15,506	14,889	12,606
2 units or more	22,631	1,474	1,700	1,747	1,822	2,081	1,995	1,872	2,002	1,977	2,136	1,934	1,891
Improvements	78,535	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	165,146	12,164	12,385	12,584	13,112	13,556	14,009	14,601	15,105	15,160	14,968	14,040	13,462
Industrial	31,394	2,436	2,464	2,329	2,482	2,522	2,632	2,784	2,881	2,894	2,789	2,566	2,614
Office	32,816	2,440	2,580	2,468	2,469	2,556	2,728	2,881	2,984	2,978	3,073	2,908	2,751
Hotels, motels	12,752	938	972	1,014	1,040	1,140	1,130	1,120	1,110	1,077	1,109	1,052	1,049
Other commercial	50,763	3,734	3,715	3,850	4,009	4,228	4,394	4,607	4,759	4,737	4,607	4,224	3,899
Religious	5,885	367	379	439	461	485	445	478	498	572	604	591	567
Educational	8,437	528	531	544	663	703	803	848	847	806	767	718	679
Hospital and institutional	13,741	1,067	1,086	1,169	1,190	1,112	1,098	1,075	1,195	1,247	1,192	1,190	1,120
Miscellaneous ¹	9,358	655	659	769	797	810	780	808	831	849	827	791	782
Farm nonresidential	3,956	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	34,188	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,626	795	771	854	975	946	994	1,070	995	1,087	1,120	965	1,056
Railroads	5,059	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	12,144	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,390	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	969	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,258	152	141	164	179	179	192	199	225	209	244	214	159
Public construction	147,058	8,714	8,859	9,902	11,001	12,240	13,616	14,467	15,222	15,304	14,510	12,460	10,763
Buildings	63,603	4,475	4,474	4,803	5,035	5,116	5,682	5,877	5,984	6,065	5,874	5,253	4,965
Housing and redevelopment	4,861	340	344	351	381	421	399	420	409	469	528	430	371
Industrial	998	89	79	88	112	74	95	92	80	98	56	65	70
Educational	27,065	1,796	1,809	1,979	2,070	2,181	2,585	2,736	2,858	2,517	2,428	2,069	2,036
Hospital	5,042	396	388	390	428	379	437	449	410	525	467	411	362
Other ³	25,637	1,854	1,854	1,996	2,044	2,061	2,166	2,180	2,228	2,456	2,396	2,277	2,125
Highways and streets	45,197	1,821	1,877	2,218	3,084	3,868	4,600	5,082	5,500	5,206	5,044	4,030	2,866
Military facilities	2,620	202	173	195	190	220	227	239	248	279	205	242	201
Conservation and development	5,658	418	390	459	430	452	444	469	521	764	405	417	490
Other public construction	29,979	1,798	1,945	2,227	2,262	2,584	2,662	2,801	2,970	2,990	2,982	2,518	2,241
Sewer systems	10,463	680	687	783	828	934	978	955	963	1,031	992	882	751
Water supply facilities	6,339	426	442	519	494	520	533	577	556	587	616	579	491
Miscellaneous public ⁴	13,177	692	816	925	940	1,130	1,151	1,270	1,451	1,372	1,374	1,057	1,000

NA Not available, but estimates are included in total.

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 4a. Monthly Value of Construction Put in Place: May 1996-May 1998—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Period	Total 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														
1996: May ^f	579,080	439,156	257,184	180,762	159,370	21,392	142,727	30,836	26,869	9,268	46,789	4,387	5,932	11,533	7,113	(NA)	11,520	2,463		
June ^f	584,892	450,310	260,051	182,824	161,432	21,392	151,072	32,472	30,111	10,338	47,436	4,877	6,611	11,782	7,445	(NA)	10,661	2,531		
July ^f	581,004	445,138	260,173	181,807	162,108	19,699	146,740	30,631	28,635	10,383	46,549	4,331	6,685	11,824	7,702	(NA)	10,719	2,213		
August ^f	586,042	452,361	260,517	181,605	162,401	19,203	151,499	30,838	28,659	11,669	49,218	4,596	7,121	12,066	7,331	(NA)	11,703	2,701		
September ^f	593,691	452,940	260,283	180,668	161,338	19,330	154,087	33,108	29,558	11,735	48,502	4,553	7,188	12,134	7,309	(NA)	11,363	2,169		
October ^f	598,301	459,013	259,797	180,249	160,440	19,809	159,899	35,275	30,168	11,794	50,596	4,468	7,447	12,234	7,919	(NA)	11,799	2,318		
November ^f	605,105	462,431	260,599	180,599	159,890	20,709	162,412	34,729	30,725	12,224	50,954	5,019	7,960	12,652	8,149	(NA)	12,783	2,104		
December ^f	599,884	461,449	259,498	179,773	159,805	19,968	161,077	32,329	31,014	12,740	50,366	5,018	7,829	13,337	8,444	(NA)	14,272	2,213		
1997: January ^f	602,124	461,235	259,048	179,657	159,322	20,335	165,061	32,618	31,522	12,693	53,149	4,964	7,615	13,523	8,977	(NA)	11,194	2,046		
February ^f	618,393	470,198	264,424	185,506	162,199	23,307	169,227	33,182	33,541	12,636	54,042	5,251	7,754	13,828	8,992	(NA)	11,114	2,071		
March ^f	617,245	465,958	264,871	185,656	163,372	22,284	163,376	30,215	31,477	12,209	52,505	5,816	7,404	14,480	9,269	(NA)	11,096	2,204		
April ^f	613,239	466,886	266,145	186,987	164,635	22,352	161,135	30,207	29,691	12,072	51,128	5,844	8,496	14,439	9,258	(NA)	11,766	2,285		
May ^f	610,761	466,260	265,791	187,009	163,543	23,465	161,046	30,572	29,868	12,740	50,679	6,034	8,252	13,144	9,757	(NA)	11,337	2,228		
June ^f	611,646	465,174	262,893	184,492	162,301	22,191	161,757	31,122	31,903	12,840	49,930	5,629	8,182	13,016	9,136	(NA)	11,622	2,254		
July ^f	620,506	473,292	263,156	184,675	163,163	21,513	168,474	32,726	33,895	13,327	51,816	5,690	8,249	13,220	9,550	(NA)	12,112	2,223		
August ^f	623,429	475,498	263,496	185,126	163,122	22,004	170,033	33,403	34,106	13,425	51,351	5,707	8,492	13,873	9,676	(NA)	11,432	2,442		
September ^f	623,305	475,885	266,077	187,791	165,194	22,597	167,326	32,220	34,000	12,551	49,473	6,005	8,936	14,491	9,651	(NA)	12,322	2,286		
October ^f	626,608	477,539	268,623	190,861	166,432	24,429	166,404	30,870	35,215	13,325	48,623	6,368	9,135	13,660	9,209	(NA)	11,975	2,509		
November ^f	623,068	475,340	268,893	190,810	167,761	23,049	164,810	30,075	34,443	12,793	49,158	6,441	9,176	13,691	9,033	(NA)	11,624	2,396		
December ^f	626,290	478,363	273,020	194,627	170,739	23,889	164,948	29,794	33,857	12,665	49,357	6,552	9,440	13,550	9,733	(NA)	11,702	2,003		
1998: January ^f	633,714	487,807	278,956	197,151	172,085	25,066	167,636	31,055	36,853	13,082	48,954	6,399	9,325	13,294	8,676	(NA)	11,604	2,446		
February ^f	638,180	490,896	282,496	200,582	175,198	25,384	166,962	30,936	34,624	12,723	49,528	6,661	9,846	13,709	8,935	(NA)	12,614	2,351		
March ^f	639,913	494,333	286,045	203,633	178,825	24,808	165,449	31,474	34,661	12,182	49,320	6,145	9,900	13,401	8,366	(NA)	13,234	2,382		
April ^f	643,383	497,459	288,694	206,147	181,258	24,889	168,100	31,438	35,579	12,758	49,368	5,987	10,129	13,692	9,150	(NA)	11,717	2,153		
May ^p	633,548	493,395	286,565	203,764	180,539	23,224	165,298	29,454	35,001	12,569	50,472	5,563	9,852	13,213	9,174	(NA)	(NA)	2,410		
PERCENT CHANGE																				
April 1998-																				
May 1998	-2	-1	-1	-1	(Z)	-7	-2	-6	-2	-1	2	-7	-3	-3	(Z)	(NA)	(NA)	12		

See footnotes at end of table.

Table 4a. Monthly Value of Construction Put in Place: May 1996-May 1998—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						
1996:	May ^f	139,924	58,991	4,687	1,435	24,251	4,984	23,633	40,922	2,677	5,902	10,851	6,183	14,399
	June ^f	134,581	56,670	4,236	1,525	22,843	4,388	23,677	39,914	2,643	6,004	10,024	5,954	13,373
	July ^f	135,866	58,036	4,804	1,531	23,739	4,278	23,683	41,106	2,396	5,916	9,687	5,686	13,039
	August ^f	133,681	57,799	4,602	1,623	24,176	4,137	23,260	39,314	2,321	6,146	10,803	5,679	11,620
	September ^f	140,751	60,972	4,940	1,661	24,911	4,786	24,674	41,814	2,761	7,008	10,033	6,092	12,071
	October ^f	139,288	59,847	4,825	864	25,493	4,373	24,292	41,799	2,576	5,776	11,293	6,918	11,079
	November ^f	142,673	63,422	5,123	1,092	27,118	4,249	25,841	42,374	2,296	6,025	10,648	6,129	11,779
	December ^f	138,435	62,647	4,637	1,068	26,287	5,006	25,649	42,593	2,360	5,270	10,103	5,965	9,499
1997:	January ^f	140,889	61,889	4,386	1,112	26,096	5,118	25,177	43,023	2,486	6,105	9,954	6,358	11,074
	February ^f	148,195	63,515	4,773	1,071	26,831	5,185	25,654	46,066	2,552	5,785	10,761	6,616	12,899
	March ^f	151,288	64,603	4,572	1,059	27,476	4,923	26,573	46,287	2,364	6,169	10,923	7,344	13,598
	April ^f	146,354	63,548	4,814	1,405	27,148	5,046	25,135	46,379	2,431	5,358	10,632	6,281	11,726
	May ^f	144,500	60,852	4,821	839	26,764	4,790	23,639	45,068	2,580	5,328	11,167	6,096	13,410
	June ^f	146,472	63,285	4,794	1,100	27,751	5,068	24,571	45,287	2,729	5,195	11,062	6,031	12,884
	July ^f	147,213	63,810	4,957	1,136	27,184	5,147	25,386	44,738	2,880	5,299	10,589	6,324	13,574
	August ^f	147,931	63,209	4,927	992	26,714	5,061	25,515	45,930	2,812	5,479	10,099	6,090	14,312
	September ^f	147,421	64,017	4,807	876	26,579	5,259	26,496	44,309	2,630	6,180	10,484	6,458	13,343
	October ^f	149,069	66,570	5,717	775	27,962	5,487	26,628	43,144	2,806	5,148	10,141	6,194	15,067
	November ^f	147,728	63,586	4,968	834	25,864	5,087	26,833	47,416	2,889	5,068	10,005	6,342	12,423
	December ^f	147,927	64,511	4,610	819	28,242	4,251	26,590	45,306	2,342	6,422	9,740	6,211	13,395
1998:	January ^f	145,907	63,283	4,642	949	26,647	4,362	26,683	46,067	2,474	5,281	10,060	6,301	12,440
	February ^f	147,284	64,520	4,963	1,042	26,765	4,033	27,717	45,561	2,916	6,305	10,150	6,665	11,167
	March ^f	145,580	62,930	4,931	1,189	25,759	4,518	26,534	45,559	2,818	5,488	10,388	6,612	11,785
	April ^f	145,924	63,409	4,808	1,011	26,624	3,717	27,248	46,014	2,616	4,978	10,068	6,858	11,982
	May ^p	140,152	61,663	4,348	947	26,576	4,039	25,753	43,423	2,263	4,998	9,612	6,532	11,661
PERCENT CHANGE														
	April 1998- May 1998.	-4	-3	-10	-6	(Z)	9	-5	-6	-13	(Z)	-5	-5	-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 4b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	535,630	538,489	541,237	537,264	531,690	533,319	536,294	532,908	537,572	539,948	542,712	550,833
Private construction	408,032	412,954	411,695	407,310	401,899	400,177	407,562	401,344	406,237	408,789	410,544	419,595
Residential buildings	238,744	235,875	233,908	228,142	224,994	222,750	225,129	228,008	230,536	232,396	235,136	238,670
New housing units	169,488	166,183	163,906	159,710	157,191	155,501	158,195	161,535	163,834	165,797	167,113	169,895
1 unit	152,895	149,392	145,938	142,420	140,104	138,766	139,851	143,005	145,464	147,493	148,550	149,947
2 units or more	16,594	16,790	17,968	17,290	17,088	16,734	18,343	18,530	18,370	18,305	18,562	19,947
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	126,956	131,788	134,400	136,164	134,731	135,518	139,337	132,721	135,034	136,140	136,811	140,343
Industrial	29,857	32,428	32,486	35,093	34,051	32,777	34,032	31,216	31,819	31,369	32,630	32,657
Office	24,418	24,509	25,517	26,158	27,587	26,235	27,952	26,000	25,257	24,444	23,751	25,226
Hotels, motels	6,129	6,212	7,400	5,556	6,177	6,432	6,858	6,767	7,285	7,680	9,107	9,966
Other commercial	40,293	42,019	43,424	42,298	40,233	43,381	43,131	41,622	42,984	43,998	43,851	44,657
Religious	3,821	4,096	3,895	4,356	4,530	4,631	4,714	4,479	4,543	4,600	4,166	3,965
Educational	5,119	5,322	5,203	5,579	5,295	5,712	5,879	6,056	5,580	5,183	5,398	5,198
Hospital and institutional	11,478	11,833	11,212	11,480	11,289	10,398	11,067	10,757	11,296	11,542	11,220	11,470
Miscellaneous ¹	5,842	5,369	5,264	5,643	5,567	5,952	5,704	5,823	6,270	7,325	6,687	7,202
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,133	10,532	11,100	11,928	10,547	11,657	12,380	10,880	11,080	10,941	10,839	10,470
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,800	2,947	3,032	3,117	3,043	2,840	3,249	2,918	3,072	2,723	2,187	2,828
Public construction	127,598	125,535	129,542	129,954	129,791	133,142	128,733	131,565	131,335	131,159	132,168	131,239
Buildings	55,582	55,926	55,988	57,105	56,429	57,611	55,645	55,477	55,609	53,843	54,991	54,009
Housing and redevelopment	4,407	4,531	4,631	4,633	4,249	4,783	4,464	4,701	4,195	4,450	4,451	4,448
Industrial	1,652	1,700	1,602	1,631	1,407	1,355	1,475	1,587	1,583	1,416	1,440	1,303
Educational	23,598	24,104	24,201	23,845	23,268	23,979	23,100	22,920	23,456	22,398	22,483	22,155
Hospital	3,976	4,262	4,187	4,510	4,596	4,350	4,333	3,938	4,695	4,076	4,675	4,302
Other ³	21,949	21,329	21,366	22,487	22,909	23,145	22,274	22,331	21,680	21,503	21,943	21,801
Highways and streets	36,795	34,337	37,587	36,344	37,525	38,228	38,002	39,763	38,945	40,622	38,989	40,374
Military facilities	2,779	2,621	3,174	2,963	2,947	2,938	3,195	3,106	3,284	2,230	3,236	3,319
Conservation and development	6,660	7,029	7,385	6,178	6,084	6,647	6,356	7,015	6,076	4,838	6,056	6,128
Other public construction	25,781	25,622	25,409	27,364	26,806	27,717	25,535	26,203	27,421	29,626	28,897	27,408
Sewer systems	9,111	9,169	9,067	8,848	8,954	10,257	9,198	9,169	9,487	9,807	10,080	9,836
Water supply facilities	5,308	5,455	4,683	4,810	4,685	4,995	5,404	5,795	5,182	5,557	5,814	5,482
Miscellaneous public ⁴	11,362	10,999	11,660	13,705	13,167	12,464	10,933	11,238	12,752	14,262	13,003	12,090

See footnotes at end of table.

Table 4b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Type of construction	1996											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	561,811	555,060	559,844	577,040	579,080	584,892	581,004	586,042	593,691	598,301	605,104	599,884
Private construction	423,640	423,933	427,437	439,110	439,156	450,310	445,138	452,361	452,940	459,013	462,431	461,449
Residential buildings	240,899	244,296	248,525	255,017	257,184	260,051	260,173	260,517	260,283	259,797	260,599	259,498
New housing units	170,823	173,133	175,579	180,427	180,762	182,824	181,807	181,605	180,668	180,249	180,599	179,773
1 unit	151,030	153,118	155,230	158,185	159,370	161,432	162,108	162,401	161,338	160,440	159,890	159,805
2 units or more	19,794	20,015	20,349	22,241	21,392	21,392	19,699	19,203	19,330	19,809	20,709	19,968
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	142,248	140,408	140,921	144,442	142,727	151,072	146,740	151,499	154,087	159,899	162,412	161,077
Industrial	33,507	32,347	32,008	32,673	30,836	32,472	30,631	30,838	33,108	35,275	34,729	32,329
Office	23,513	23,826	24,222	25,487	26,869	30,111	28,635	28,659	29,558	30,168	30,725	31,014
Hotels, motels	9,902	9,936	10,055	10,432	9,268	10,338	10,383	11,669	11,735	11,794	12,224	12,740
Other commercial	46,365	45,680	46,094	47,328	46,789	47,436	46,549	49,218	48,502	50,596	50,954	50,366
Religious	4,218	4,137	4,169	4,282	4,387	4,877	4,331	4,596	4,553	4,468	5,019	5,018
Educational	5,755	5,816	6,416	5,765	5,932	6,611	6,685	7,121	7,188	7,447	7,960	7,829
Hospital and institutional	11,383	10,699	10,477	11,069	11,533	11,782	11,824	12,066	12,134	12,234	12,652	13,337
Miscellaneous ¹	7,605	7,966	7,481	7,406	7,113	7,445	7,702	7,331	7,309	7,919	8,149	8,444
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,697	11,472	10,978	11,547	11,520	10,661	10,719	11,703	11,363	11,799	12,783	14,272
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,758	2,746	2,587	2,527	2,463	2,531	2,213	2,701	2,169	2,318	2,104	2,213
Public construction	138,171	131,127	132,407	137,930	139,924	134,581	135,866	133,681	140,751	139,288	142,673	138,435
Buildings	58,100	52,814	55,832	56,259	58,991	56,670	58,036	57,799	60,972	59,847	63,422	62,647
Housing and redevelopment	4,592	4,325	4,143	4,105	4,687	4,236	4,804	4,602	4,940	4,825	5,123	4,637
Industrial	1,299	1,363	1,507	1,474	1,435	1,525	1,531	1,623	1,661	864	1,092	1,068
Educational	22,760	21,507	22,707	22,944	24,251	22,843	23,739	24,176	24,911	25,493	27,118	26,287
Hospital	4,503	4,897	4,939	4,860	4,984	4,388	4,278	4,137	4,786	4,373	4,249	5,006
Other ³	24,945	20,722	22,535	22,876	23,633	23,677	23,683	23,260	24,674	24,292	25,841	25,649
Highways and streets	41,580	42,310	40,485	41,697	40,922	39,914	41,106	39,314	41,814	41,799	42,374	42,593
Military facilities	3,300	3,069	2,407	2,856	2,677	2,643	2,396	2,321	2,761	2,576	2,296	2,360
Conservation and development	5,591	5,607	5,804	6,065	5,902	6,004	5,916	6,146	7,008	5,776	6,025	5,270
Other public construction	29,600	27,328	27,878	31,053	31,433	29,351	28,412	28,102	28,196	29,290	28,557	25,566
Sewer systems	9,901	9,698	10,007	11,559	10,851	10,024	9,687	10,803	10,033	11,293	10,648	10,103
Water supply facilities	5,213	5,488	5,354	6,420	6,183	5,954	5,686	5,679	6,092	6,918	6,129	5,965
Miscellaneous public ⁴	14,487	12,142	12,517	13,074	14,399	13,373	13,039	11,620	12,071	11,079	11,779	9,499

See footnotes at end of table.

Table 4b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Type of construction	1997											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	602,123	618,393	617,245	613,239	610,761	611,646	620,506	623,429	623,305	626,608	623,068	626,290
Private construction	461,234	470,198	465,958	466,886	466,260	465,174	473,292	475,498	475,885	477,539	475,340	478,363
Residential buildings	259,048	264,424	264,871	266,145	265,791	262,893	263,156	263,496	266,077	268,623	268,893	273,020
New housing units	179,657	185,506	185,656	186,987	187,009	184,492	184,675	185,126	187,791	190,861	190,810	194,627
1 unit	159,322	162,199	163,372	164,635	163,543	162,301	163,163	163,122	165,194	166,432	167,761	170,739
2 units or more	20,335	23,307	22,284	22,352	23,465	22,191	21,513	22,004	22,597	24,429	23,049	23,889
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	165,061	169,227	163,376	161,135	161,046	161,757	168,474	170,033	167,326	166,404	164,810	164,948
Industrial	32,618	33,182	30,215	30,207	30,572	31,122	32,726	33,403	32,220	30,870	30,075	29,794
Office	31,522	33,541	31,477	29,691	29,868	31,903	33,895	34,106	34,000	35,215	34,443	33,857
Hotels, motels	12,693	12,636	12,209	12,072	12,740	12,840	13,327	13,425	12,551	13,325	12,793	12,665
Other commercial	53,149	54,042	52,505	51,128	50,679	49,930	51,816	51,351	49,473	48,623	49,158	49,357
Religious	4,964	5,251	5,816	5,844	6,034	5,629	5,690	5,707	6,005	6,368	6,441	6,552
Educational	7,615	7,754	7,404	8,496	8,252	8,182	8,249	8,492	8,936	9,135	9,176	9,440
Hospital and institutional	13,523	13,828	14,480	14,439	13,144	13,016	13,220	13,873	14,491	13,660	13,691	13,550
Miscellaneous ¹	8,977	8,992	9,269	9,258	9,757	9,136	9,550	9,676	9,651	9,209	9,033	9,733
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,194	11,114	11,096	11,766	11,337	11,622	12,112	11,432	12,322	11,975	11,624	11,702
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,046	2,071	2,204	2,285	2,228	2,254	2,223	2,442	2,286	2,509	2,396	2,003
Public construction	140,889	148,195	151,287	146,354	144,500	146,472	147,213	147,931	147,421	149,069	147,728	147,927
Buildings	61,889	63,515	64,603	63,548	60,852	63,285	63,810	63,209	64,017	66,570	63,586	64,511
Housing and redevelopment	4,386	4,773	4,572	4,814	4,821	4,794	4,957	4,927	4,807	5,717	4,968	4,610
Industrial	1,112	1,071	1,059	1,405	839	1,100	1,136	992	876	775	834	819
Educational	26,096	26,831	27,476	27,148	26,764	27,751	27,184	26,714	26,579	27,962	25,864	28,242
Hospital	5,118	5,185	4,923	5,046	4,790	5,068	5,147	5,061	5,259	5,487	5,087	4,251
Other ³	25,177	25,654	26,573	25,135	23,639	24,571	25,386	25,515	26,496	26,628	26,833	26,590
Highways and streets	43,023	46,066	46,287	46,379	45,068	45,287	44,738	45,930	44,309	43,144	47,416	45,306
Military facilities	2,486	2,552	2,364	2,431	2,580	2,729	2,880	2,812	2,630	2,806	2,889	2,342
Conservation and development	6,105	5,785	6,169	5,358	5,328	5,195	5,299	5,479	6,180	5,148	5,068	6,422
Other public construction	27,387	30,277	31,865	28,638	30,673	29,977	30,486	30,501	30,284	31,402	28,769	29,346
Sewer systems	9,954	10,761	10,923	10,632	11,167	11,062	10,589	10,099	10,484	10,141	10,005	9,740
Water supply facilities	6,358	6,616	7,344	6,281	6,096	6,031	6,324	6,090	6,458	6,194	6,342	6,211
Miscellaneous public ⁴	11,074	12,899	13,598	11,726	13,410	12,884	13,574	14,312	13,343	15,067	12,423	13,395

NA Not available, but estimates are included in total.

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 5a. Monthly Value of Construction Put in Place: May 1996-May 1998—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period	Total 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														
1996: May ^f	506,984	383,158	222,863	156,640	138,102	18,538	125,530	27,121	23,632	8,151	41,152	3,858	5,217	10,143	6,256	(NA)	10,088	2,197		
June ^f	509,488	390,749	223,796	157,336	138,926	18,410	132,287	28,434	26,367	9,052	41,538	4,271	5,789	10,317	6,519	(NA)	9,327	2,254		
July ^f	503,016	383,664	222,180	155,258	138,435	16,823	127,822	26,682	24,943	9,044	40,548	3,773	5,824	10,300	6,709	(NA)	9,338	1,962		
August ^f	506,290	389,196	222,094	154,821	138,450	16,371	131,738	26,816	24,921	10,147	42,798	3,997	6,192	10,492	6,375	(NA)	10,150	2,384		
September ^f	511,402	388,735	221,706	153,891	137,426	16,465	133,408	28,665	25,591	10,161	41,993	3,942	6,223	10,505	6,328	(NA)	9,796	1,904		
October ^f	514,694	393,365	220,916	153,273	136,428	16,845	138,201	30,488	26,074	10,193	43,730	3,862	6,436	10,574	6,845	(NA)	10,163	2,037		
November ^f	520,216	395,849	221,221	153,310	135,730	17,579	140,253	29,991	26,533	10,556	44,002	4,334	6,874	10,926	7,037	(NA)	11,029	1,852		
December ^f	514,435	394,097	219,913	152,350	135,428	16,922	138,620	27,822	26,691	10,964	43,344	4,318	6,738	11,477	7,266	(NA)	12,293	1,945		
1997: January ^f	513,991	392,318	218,606	151,610	134,449	17,160	141,440	27,951	27,011	10,876	45,543	4,253	6,526	11,588	7,693	(NA)	9,642	1,781		
February ^f	528,124	400,280	223,331	156,677	136,992	19,685	145,134	28,458	28,766	10,837	46,348	4,503	6,650	11,859	7,712	(NA)	9,598	1,795		
March ^f	524,731	395,280	223,520	156,672	137,867	18,805	139,162	25,737	26,812	10,400	44,724	4,954	6,307	12,334	7,895	(NA)	9,525	1,892		
April ^f	520,008	395,188	224,216	157,529	138,698	18,831	136,903	25,664	25,226	10,257	43,439	4,965	7,218	12,267	7,866	(NA)	10,048	1,955		
May ^f	516,277	393,421	223,354	157,150	137,431	19,719	136,249	25,865	25,269	10,778	42,876	5,105	6,981	11,121	8,254	(NA)	9,649	1,903		
June ^f	516,020	391,518	219,994	154,387	135,817	18,569	136,735	26,308	26,968	10,854	42,206	4,758	6,916	11,003	7,723	(NA)	9,900	1,927		
July ^f	521,567	396,673	219,297	153,896	135,969	17,927	141,574	27,500	28,483	11,199	43,543	4,782	6,932	11,109	8,025	(NA)	10,335	1,901		
August ^f	522,516	397,214	218,850	153,759	135,483	18,276	142,287	27,952	28,541	11,234	42,971	4,776	7,106	11,609	8,097	(NA)	9,763	2,089		
September ^f	521,015	396,281	220,080	155,328	136,637	18,690	139,671	26,895	28,380	10,477	41,296	5,013	7,459	12,096	8,056	(NA)	10,531	1,956		
October ^f	522,495	396,848	221,636	157,476	137,320	20,156	138,785	25,747	29,370	11,113	40,553	5,311	7,618	11,392	7,681	(NA)	10,201	2,137		
November ^f	517,415	393,757	221,676	157,304	138,303	19,002	136,659	24,938	28,560	10,608	40,761	5,341	7,608	11,353	7,490	(NA)	9,826	2,027		
December ^f	520,118	396,351	225,264	160,584	140,873	19,710	136,773	24,705	28,074	10,502	40,926	5,433	7,828	11,235	8,071	(NA)	9,867	1,695		
1998: January ^f	526,820	404,647	230,923	163,205	142,454	20,750	138,886	25,729	30,532	10,838	40,559	5,301	7,725	11,014	7,188	(NA)	9,719	2,071		
February ^f	530,916	407,376	234,048	166,183	145,152	21,031	138,328	25,631	28,686	10,541	41,034	5,519	8,157	11,358	7,402	(NA)	10,547	1,998		
March ^f	531,649	409,635	236,792	168,570	148,034	20,536	136,735	26,012	28,645	10,068	40,760	5,078	8,182	11,075	6,914	(NA)	11,038	2,024		
April ^f	534,678	412,337	238,985	170,651	150,048	20,603	139,040	26,003	29,428	10,552	40,834	4,952	8,378	11,325	7,568	(NA)	9,780	1,829		
May ^p	526,126	408,800	237,222	168,678	149,453	19,225	136,610	24,342	28,926	10,387	41,713	4,597	8,142	10,920	7,582	(NA)	(NA)	2,044		
PERCENT CHANGE																				
April 1998-																				
May 1998	-2	-1	-1	-1	(Z)	-7	-2	-6	-2	-2	2	-7	-3	-4	(Z)	(NA)	(NA)	12		

See footnotes at end of table.

Table 5a. Monthly Value of Construction Put in Place: May 1996-May 1998—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						
1996: May ^f	123,826	51,822	4,062	1,263	21,329	4,383	20,785	36,376	2,367	5,283	9,714	5,419	12,845
June ^f	118,739	49,560	3,646	1,336	20,002	3,843	20,733	35,416	2,330	5,361	8,950	5,213	11,908
July ^f	119,352	50,472	4,103	1,334	20,679	3,727	20,630	36,409	2,106	5,249	8,596	4,961	11,559
August ^f	117,094	50,181	3,923	1,412	21,023	3,597	20,226	34,729	2,034	5,425	9,535	4,934	10,256
September ^f	122,667	52,721	4,208	1,438	21,568	4,143	21,363	36,744	2,409	6,142	8,793	5,260	10,598
October ^f	121,329	51,659	4,103	747	22,034	3,780	20,996	36,763	2,246	5,067	9,906	5,954	9,735
November ^f	124,367	54,694	4,349	943	23,418	3,669	22,315	37,367	2,003	5,299	9,365	5,270	10,369
December ^f	120,338	53,852	3,930	919	22,622	4,308	22,073	37,493	2,054	4,623	8,862	5,107	8,347
1997: January ^f	121,673	52,975	3,701	953	22,361	4,385	21,574	37,542	2,151	5,295	8,633	5,439	9,638
February ^f	127,845	54,410	4,032	919	23,011	4,447	22,002	40,092	2,206	4,996	9,293	5,670	11,178
March ^f	129,451	54,992	3,859	902	23,404	4,193	22,635	39,902	2,025	5,272	9,336	6,251	11,672
April ^f	124,820	53,957	4,055	1,194	23,066	4,287	21,355	39,776	2,074	4,575	9,079	5,327	10,030
May ^f	122,855	51,455	4,051	710	22,643	4,052	19,999	38,519	2,194	4,546	9,528	5,162	11,451
June ^f	124,502	53,454	4,012	930	23,458	4,284	20,770	38,707	2,318	4,441	9,455	5,115	11,012
July ^f	124,894	53,587	4,131	954	22,844	4,326	21,333	38,303	2,442	4,525	9,043	5,382	11,611
August ^f	125,302	52,864	4,092	830	22,355	4,235	21,351	39,324	2,381	4,679	8,625	5,187	12,243
September ^f	124,734	53,400	3,976	732	22,186	4,390	22,117	37,968	2,223	5,273	8,945	5,510	11,414
October ^f	125,647	55,470	4,717	646	23,321	4,577	22,209	36,624	2,360	4,403	8,675	5,281	12,834
November ^f	123,658	52,701	4,096	691	21,446	4,218	22,250	39,812	2,412	4,320	8,529	5,374	10,510
December ^f	123,767	53,473	3,804	679	23,418	3,525	22,048	37,945	1,952	5,484	8,318	5,264	11,332
1998: January ^f	122,173	52,427	3,843	786	22,077	3,614	22,107	38,744	2,065	4,506	8,583	5,313	10,534
February ^f	123,540	53,455	4,112	863	22,175	3,341	22,964	38,480	2,438	5,389	8,675	5,615	9,488
March ^f	122,014	52,015	4,082	982	21,289	3,734	21,929	38,511	2,356	4,686	8,871	5,561	10,012
April ^f	122,341	52,451	3,981	836	22,022	3,074	22,538	38,896	2,187	4,254	8,605	5,768	10,180
May ^p	117,326	50,967	3,600	782	21,964	3,338	21,283	36,644	1,889	4,261	8,195	5,480	9,890
PERCENT CHANGE													
April 1998- May 1998	-4	-3	-10	-6	(Z)	9	-6	-6	-14	(Z)	-5	-5	-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 5b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	480,591	482,472	484,908	480,533	474,616	473,972	476,236	472,510	474,960	476,047	478,439	485,205
Private construction	363,640	367,694	366,526	362,100	356,523	353,801	360,287	353,805	356,859	358,555	360,270	367,949
Residential buildings	210,532	207,636	205,905	200,476	197,190	194,882	197,136	198,787	200,292	201,908	204,466	207,359
New housing units	149,461	146,287	144,283	140,343	137,766	136,046	138,524	140,833	142,340	144,046	145,315	147,606
1 unit	134,828	131,507	128,466	125,149	122,790	121,405	122,462	124,678	126,380	128,143	129,174	130,276
2 units or more	14,633	14,780	15,817	15,194	14,976	14,641	16,062	16,155	15,960	15,903	16,141	17,330
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	114,375	118,727	121,081	122,450	120,943	121,106	124,408	118,395	120,031	120,585	121,286	124,307
Industrial	26,898	29,215	29,267	31,559	30,567	29,291	30,385	27,847	28,284	27,785	28,927	28,926
Office	21,998	22,080	22,988	23,523	24,764	23,445	24,957	23,193	22,450	21,651	21,056	22,344
Hotels, motels	5,521	5,596	6,666	4,996	5,544	5,748	6,124	6,037	6,476	6,802	8,074	8,827
Other commercial	36,300	37,855	39,121	38,038	36,116	38,768	38,510	37,130	38,208	38,971	38,875	39,555
Religious	3,442	3,690	3,509	3,918	4,066	4,139	4,209	3,996	4,038	4,075	3,693	3,512
Educational	4,612	4,795	4,687	4,754	5,017	5,105	5,249	5,403	4,960	4,591	4,786	4,604
Hospital and institutional	10,340	10,660	10,100	10,324	10,134	9,292	9,882	9,596	10,041	10,223	9,947	10,160
Miscellaneous ¹	5,263	4,837	4,742	5,075	4,998	5,319	5,092	5,194	5,573	6,488	5,928	6,380
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,434	9,852	10,364	11,044	9,703	10,559	11,123	9,784	9,910	9,734	9,609	9,265
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,604	2,731	2,802	2,871	2,797	2,584	2,948	2,660	2,790	2,464	1,974	2,550
Public construction	116,951	114,779	118,382	118,433	118,094	120,172	115,949	118,705	118,102	117,492	118,169	117,256
Buildings	49,990	50,290	50,344	51,258	50,564	51,395	49,607	49,394	49,346	47,616	48,676	47,763
Housing and redevelopment	3,886	3,988	4,077	4,071	3,724	4,185	3,909	4,098	3,645	3,866	3,870	3,865
Industrial	1,488	1,532	1,444	1,466	1,263	1,211	1,317	1,416	1,407	1,254	1,276	1,154
Educational	21,259	21,716	21,803	21,443	20,887	21,429	20,625	20,446	20,850	19,839	19,932	19,624
Hospital	3,582	3,840	3,772	4,056	4,126	3,887	3,868	3,513	4,173	3,610	4,145	3,811
Other ³	19,774	19,215	19,249	20,222	20,564	20,683	19,887	19,921	19,271	19,046	19,453	19,310
Highways and streets	34,582	32,181	35,128	33,840	34,842	35,104	34,737	36,446	35,566	36,829	35,157	36,373
Military facilities	2,557	2,407	2,912	2,711	2,692	2,662	2,886	2,809	2,959	1,998	2,894	2,963
Conservation and development	6,127	6,437	6,750	5,631	5,541	5,989	5,726	6,354	5,489	4,370	5,470	5,536
Other public construction	23,694	23,465	23,249	24,992	24,455	25,023	22,994	23,701	24,742	26,679	25,972	24,621
Sewer systems	8,382	8,396	8,288	8,066	8,155	9,241	8,286	8,306	8,570	8,859	9,105	8,885
Water supply facilities	4,743	4,874	4,185	4,306	4,198	4,440	4,787	5,152	4,590	4,913	5,132	4,834
Miscellaneous public ⁴	10,569	10,194	10,776	12,620	12,102	11,342	9,921	10,244	11,582	12,907	11,735	10,902

See footnotes at end of table.

Table 5b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1996											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	493,962	487,158	490,859	506,421	506,984	509,488	503,016	506,290	511,402	514,694	520,216	514,435
Private construction	370,989	370,720	373,628	384,125	383,158	390,749	383,664	389,196	388,735	393,365	395,849	394,097
Residential buildings	209,113	211,879	215,733	221,561	222,863	223,796	222,180	222,094	221,706	220,916	221,221	219,913
New housing units	148,284	150,159	152,412	156,756	156,640	157,336	155,258	154,821	153,891	153,273	153,310	152,350
1 unit	131,102	132,799	134,748	137,433	138,102	138,926	138,435	138,450	137,426	136,428	135,730	135,428
2 units or more	17,182	17,359	17,664	19,323	18,538	18,410	16,823	16,371	16,465	16,845	17,579	16,922
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	125,772	123,926	124,160	127,374	125,530	132,287	127,822	131,738	133,408	138,201	140,253	138,620
Industrial	29,626	28,550	28,201	28,812	27,121	28,434	26,682	26,816	28,665	30,488	29,991	27,822
Office	20,789	21,029	21,341	22,475	23,632	26,367	24,943	24,921	25,591	26,074	26,533	26,691
Hotels, motels	8,755	8,769	8,859	9,200	8,151	9,052	9,044	10,147	10,161	10,193	10,556	10,964
Other commercial	40,995	40,317	40,612	41,736	41,152	41,538	40,548	42,798	41,993	43,730	44,002	43,344
Religious	3,729	3,652	3,673	3,776	3,858	4,271	3,773	3,997	3,942	3,862	4,334	4,318
Educational	5,089	5,133	5,653	5,217	5,789	5,824	6,192	6,223	6,436	6,436	6,874	6,738
Hospital and institutional	10,064	9,443	9,231	9,761	10,143	10,317	10,300	10,492	10,505	10,574	10,926	11,477
Miscellaneous ¹	6,724	7,031	6,591	6,531	6,256	6,519	6,709	6,375	6,328	6,845	7,037	7,266
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,315	10,099	9,630	10,129	10,088	9,327	9,338	10,150	9,796	10,163	11,029	12,293
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,476	2,458	2,308	2,256	2,197	2,254	1,962	2,384	1,904	2,037	1,852	1,945
Public construction	122,973	116,438	117,232	122,295	123,826	118,739	119,352	117,094	122,667	121,329	124,367	120,338
Buildings	51,296	46,548	49,138	49,558	51,822	49,560	50,472	50,181	52,721	51,659	54,694	53,852
Housing and redevelopment	3,986	3,751	3,597	3,567	4,062	3,646	4,103	3,923	4,208	4,103	4,349	3,930
Industrial	1,149	1,203	1,328	1,300	1,263	1,336	1,334	1,412	1,438	747	943	919
Educational	20,124	18,982	20,007	20,233	21,329	20,002	20,679	21,023	21,568	22,034	23,418	22,622
Hospital	3,982	4,322	4,352	4,285	4,383	3,843	3,727	3,597	4,143	3,780	3,669	4,308
Other ³	22,056	18,290	19,855	20,173	20,785	20,733	20,630	20,226	21,363	20,996	22,315	22,073
Highways and streets	37,192	37,709	35,923	37,097	36,376	35,416	36,409	34,729	36,744	36,763	37,367	37,493
Military facilities	2,936	2,721	2,128	2,529	2,367	2,330	2,106	2,034	2,409	2,246	2,003	2,054
Conservation and development	5,037	5,042	5,205	5,439	5,283	5,361	5,249	5,425	6,142	5,067	5,299	4,623
Other public construction	26,513	24,418	24,838	27,672	27,978	26,072	25,116	24,725	24,652	25,595	25,004	22,315
Sewer systems	8,920	8,721	8,975	10,367	9,714	8,950	8,596	9,535	8,793	9,906	9,365	8,862
Water supply facilities	4,589	4,827	4,696	5,631	5,419	5,213	4,961	4,934	5,260	5,954	5,270	5,107
Miscellaneous public ⁴	13,004	10,870	11,166	11,673	12,845	11,908	11,559	10,256	10,598	9,735	10,369	8,347

See footnotes at end of table.

Table 5b. Monthly Value of Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1997											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	513,991	528,124	524,731	520,008	516,277	516,020	521,567	522,516	521,015	522,495	517,415	520,118
Private construction	392,318	400,280	395,280	395,188	393,421	391,518	396,673	397,214	396,281	396,848	393,757	396,351
Residential buildings	218,606	223,331	223,520	224,216	223,354	219,994	219,297	218,850	220,080	221,636	221,676	225,264
New housing units	151,610	156,677	156,672	157,529	157,150	154,387	153,896	153,759	155,328	157,476	157,304	160,584
1 unit	134,449	136,992	137,867	138,698	137,431	135,817	135,969	135,483	136,637	137,320	138,303	140,873
2 units or more	17,160	19,685	18,805	18,831	19,719	18,569	17,927	18,276	18,690	20,156	19,002	19,710
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	141,440	145,134	139,162	136,903	136,249	136,735	141,574	142,287	139,671	138,785	136,659	136,773
Industrial	27,951	28,458	25,737	25,664	25,865	26,308	27,500	27,952	26,895	25,747	24,938	24,705
Office	27,011	28,766	26,812	25,226	25,269	26,968	28,483	28,541	28,380	29,370	28,560	28,074
Hotels, motels	10,876	10,837	10,400	10,257	10,778	10,854	11,199	11,234	10,477	11,113	10,608	10,502
Other commercial	45,543	46,348	44,724	43,439	42,876	42,206	43,543	42,971	41,296	40,553	40,761	40,926
Religious	4,253	4,503	4,954	4,965	5,105	4,758	4,782	4,776	5,013	5,311	5,341	5,433
Educational	6,526	6,650	6,307	7,218	6,981	6,916	6,932	7,106	7,459	7,618	7,608	7,828
Hospital and institutional	11,588	11,859	12,334	12,267	11,121	11,003	11,109	11,609	12,096	11,392	11,353	11,235
Miscellaneous ¹	7,693	7,712	7,895	7,866	8,254	7,723	8,025	8,097	8,056	7,681	7,490	8,071
Farm nonresidential	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	9,642	9,598	9,525	10,048	9,649	9,900	10,335	9,763	10,531	10,201	9,826	9,867
Railroads	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	1,781	1,795	1,892	1,955	1,903	1,927	1,901	2,089	1,956	2,137	2,027	1,695
Public construction	121,673	127,845	129,451	124,820	122,855	124,502	124,894	125,302	124,734	125,647	123,658	123,767
Buildings	52,975	54,410	54,992	53,957	51,455	53,454	53,587	52,864	53,400	55,470	52,701	53,473
Housing and redevelopment	3,701	4,032	3,859	4,055	4,051	4,012	4,131	4,092	3,976	4,717	4,096	3,804
Industrial	953	919	902	1,194	710	930	954	830	732	646	691	679
Educational	22,361	23,011	23,404	23,066	22,643	23,458	22,844	22,355	22,186	23,321	21,446	23,418
Hospital	4,385	4,447	4,193	4,287	4,052	4,284	4,326	4,235	4,390	4,577	4,218	3,525
Other ³	21,574	22,002	22,635	21,355	19,999	20,770	21,333	21,351	22,117	22,209	22,250	22,048
Highways and streets	37,542	40,092	39,902	39,776	38,519	38,707	38,303	39,324	37,968	36,624	39,812	37,945
Military facilities	2,151	2,206	2,025	2,074	2,194	2,318	2,442	2,381	2,223	2,360	2,412	1,952
Conservation and development	5,295	4,996	5,272	4,575	4,546	4,441	4,525	4,679	5,273	4,403	4,320	5,484
Other public construction	23,711	26,140	27,259	24,437	26,141	25,582	26,036	26,054	25,869	26,789	24,414	24,914
Sewer systems	8,633	9,293	9,336	9,079	9,528	9,455	9,043	8,625	8,945	8,675	8,529	8,318
Water supply facilities	5,439	5,670	6,251	5,327	5,162	5,115	5,382	5,187	5,510	5,281	5,374	5,264
Miscellaneous public ⁴	9,638	11,178	11,672	10,030	11,451	11,012	11,611	12,243	11,414	12,834	10,510	11,332

NA Not available, but estimates are included in total.

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 6a. Monthly Value of Construction Put in Place: May 1996-May 1998—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period	Total 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																			
May 1997	191,804	148,409	81,882	58,098	50,662	7,437	54,373	10,427	10,667	4,351	16,648	1,814	2,530	4,793	3,144	(NA)	3,720	701	
May 1998	195,697	153,563	87,010	62,654	54,591	8,062	53,797	9,987	11,742	4,301	15,351	1,937	3,046	4,514	2,922	(NA)	(NA)	750	
Percent change	2	3	6	8	8	8	-1	-4	10	-1	-8	7	20	-6	-7	(NA)	(NA)	7	
MONTHLY DATA																			
1996: May ^f	43,688	33,061	19,449	13,279	11,635	1,644	10,679	2,260	2,080	724	3,481	309	450	858	518	(NA)	864	178	
June ^f	46,189	35,231	20,814	14,112	12,457	1,655	11,333	2,424	2,202	783	3,596	338	562	871	557	(NA)	777	193	
July ^f	46,902	35,203	21,104	14,429	12,967	1,462	11,066	2,266	2,126	754	3,612	313	590	838	567	(NA)	812	178	
August ^f	48,709	36,657	21,562	14,739	13,245	1,494	11,757	2,288	2,172	870	3,991	357	627	903	548	(NA)	924	218	
September ^f	48,701	35,968	20,822	14,543	13,101	1,442	12,041	2,523	2,246	860	4,021	368	563	904	557	(NA)	818	175	
October ^f	48,037	36,170	20,487	14,196	12,722	1,474	12,453	2,782	2,238	864	4,103	379	548	923	615	(NA)	956	196	
November ^f	44,852	34,318	19,265	13,544	12,069	1,475	12,027	2,584	2,258	866	3,828	390	533	950	619	(NA)	960	165	
December ^f	38,959	30,312	16,181	11,361	10,022	1,340	11,286	2,430	2,157	904	3,410	370	482	950	583	(NA)	1,078	155	
1997: January ^f	34,509	26,996	14,339	10,342	9,098	1,244	10,424	2,087	2,091	804	3,199	314	452	914	561	(NA)	685	132	
February ^f	34,091	26,459	13,861	10,123	8,688	1,435	10,622	2,113	2,213	834	3,186	325	455	931	566	(NA)	665	122	
March ^f	37,773	29,308	16,260	11,803	10,329	1,475	10,719	1,984	2,102	864	3,280	374	464	996	655	(NA)	733	141	
April ^f	41,202	31,823	17,882	12,469	10,934	1,535	11,140	2,109	2,098	884	3,406	391	564	1,011	677	(NA)	832	153	
May ^f	44,229	33,823	19,540	13,361	11,613	1,748	11,468	2,134	2,163	965	3,577	410	595	941	685	(NA)	805	153	
June ^f	47,066	35,490	20,503	13,882	12,212	1,670	11,842	2,225	2,306	955	3,714	376	679	928	659	(NA)	846	164	
July ^f	48,695	36,414	20,870	14,341	12,781	1,560	12,270	2,340	2,421	941	3,872	401	713	904	679	(NA)	913	170	
August ^f	50,226	37,321	21,260	14,658	12,995	1,663	12,640	2,411	2,497	929	3,982	417	709	1,000	695	(NA)	849	193	
September ^f	49,750	36,788	20,668	14,673	13,037	1,635	12,655	2,416	2,486	899	3,954	477	673	1,041	709	(NA)	929	179	
October ^f	48,684	36,445	20,501	14,556	12,794	1,762	12,484	2,326	2,563	925	3,842	504	640	994	690	(NA)	954	208	
November ^f	44,432	34,000	19,287	13,869	12,274	1,595	11,642	2,128	2,411	872	3,502	490	595	987	656	(NA)	816	181	
December ^f	39,457	30,453	16,575	11,962	10,401	1,560	11,162	2,168	2,281	870	3,233	470	563	929	648	(NA)	890	135	
1998: January ^f	35,250	27,738	15,186	11,146	9,639	1,506	10,204	1,910	2,320	824	2,822	399	536	869	524	(NA)	666	153	
February ^f	34,253	26,830	14,555	10,749	9,205	1,544	10,144	1,903	2,202	818	2,825	401	557	895	544	(NA)	730	136	
March ^f	38,634	30,562	17,309	12,755	11,127	1,627	10,669	2,057	2,284	839	3,026	393	606	892	572	(NA)	896	150	
April ^f	42,531	33,301	19,176	13,623	11,929	1,695	11,315	2,078	2,460	928	3,209	388	664	937	651	(NA)	805	143	
May ^p	45,029	35,132	20,784	14,381	12,691	1,690	11,465	2,039	2,476	892	3,469	356	683	921	631	(NA)	(NA)	168	
PERCENT CHANGE																			
April 1998-May 1998	6	5	8	6	6	(Z)	1	-2	1	-4	8	-8	3	-2	-3	(NA)	(NA)	17	

See footnotes at end of table.

Table 6a. Monthly Value of Construction Put in Place: May 1996-May 1998—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													
May 1997	43,395	20,353	1,548	376	8,380	1,688	8,359	11,086	840	1,843	3,356	2,044	3,872
May 1998	42,135	19,940	1,541	340	8,031	1,345	8,681	10,809	862	1,721	3,140	2,057	3,608
Percent change	-3	-2	(Z)	-10	-4	-20	4	-2	3	-7	-6	1	-7
MONTHLY DATA													
1996: May ^f	10,627	4,403	359	112	1,742	359	1,831	3,207	204	446	821	462	1,085
June ^f	10,958	4,412	307	113	1,865	330	1,797	3,586	193	458	793	461	1,056
July ^f	11,699	4,623	346	112	2,083	328	1,754	4,145	176	462	767	453	1,074
August ^f	12,052	4,779	324	115	2,258	288	1,793	4,185	177	511	919	451	1,030
September ^f	12,734	4,953	407	160	2,035	398	1,955	4,311	248	775	854	477	1,116
October ^f	11,867	4,546	377	52	1,907	334	1,877	4,344	156	380	971	589	881
November ^f	10,534	4,567	376	78	1,866	303	1,944	3,148	181	435	834	481	888
December ^f	8,647	4,137	315	75	1,629	360	1,759	2,284	178	352	668	406	622
1997: January ^f	7,513	3,830	287	76	1,539	339	1,588	1,589	175	363	590	364	602
February ^f	7,631	3,833	290	68	1,551	333	1,590	1,634	149	336	593	379	707
March ^f	8,465	4,089	296	75	1,686	332	1,700	1,912	167	392	669	442	794
April ^f	9,379	4,275	321	95	1,759	363	1,737	2,645	162	367	707	419	804
May ^f	10,407	4,326	354	62	1,845	321	1,744	3,306	187	385	797	440	965
June ^f	11,577	4,800	333	80	2,185	369	1,831	3,932	193	380	836	452	984
July ^f	12,282	4,935	350	77	2,299	377	1,832	4,351	203	401	815	491	1,086
August ^f	12,905	5,005	339	67	2,391	343	1,864	4,709	210	445	822	474	1,241
September ^f	12,962	5,059	388	82	2,101	438	2,050	4,461	236	652	880	501	1,174
October ^f	12,239	4,895	435	46	2,025	390	1,998	4,282	172	346	849	525	1,170
November ^f	10,432	4,353	355	54	1,716	341	1,888	3,384	202	356	752	491	894
December ^f	9,004	4,116	306	58	1,688	300	1,762	2,400	168	418	641	416	846
1998: January ^f	7,512	3,795	299	62	1,523	271	1,639	1,634	165	300	588	360	670
February ^f	7,423	3,777	296	65	1,497	250	1,669	1,574	165	366	560	377	604
March ^f	8,072	3,923	316	78	1,529	303	1,697	1,881	204	352	633	393	687
April ^f	9,231	4,185	319	69	1,690	251	1,855	2,587	164	339	686	458	812
May ^p	9,897	4,260	311	66	1,792	270	1,821	3,133	164	364	673	469	835
PERCENT CHANGE													
April 1998- May 1998	7	2	-3	-4	6	8	-2	21	(Z)	7	-2	2	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 6b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	478,069	32,318	31,348	35,491	37,728	40,859	43,281	43,755	45,778	45,237	44,225	41,466	36,584
Private construction	360,040	25,089	24,362	27,517	28,933	30,712	32,067	32,619	33,370	32,961	32,878	31,348	28,185
Residential buildings	201,677	13,948	12,923	14,954	15,939	17,174	18,114	18,656	19,257	18,786	18,754	17,867	15,306
New housing units	142,413	10,299	9,467	10,851	11,068	11,652	12,181	12,825	13,375	13,425	13,344	12,883	11,044
1 unit	126,773	9,236	8,395	9,614	9,835	10,325	10,866	11,430	11,896	12,027	11,949	11,529	9,673
2 units or more	15,640	1,063	1,073	1,238	1,233	1,328	1,315	1,395	1,478	1,398	1,394	1,355	1,371
Improvements	59,264	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	120,627	8,375	8,710	9,493	9,795	10,266	10,540	10,583	10,670	10,827	10,834	10,477	10,057
Industrial	29,043	2,015	2,169	2,302	2,517	2,568	2,504	2,507	2,425	2,531	2,519	2,466	2,519
Office	22,891	1,696	1,719	1,872	1,935	2,167	2,005	2,076	2,039	1,940	1,849	1,813	1,782
Hotels, motels	6,351	408	430	558	428	496	508	507	525	540	567	680	704
Other commercial	38,098	2,490	2,606	2,934	2,935	3,028	3,450	3,389	3,481	3,652	3,647	3,398	3,089
Religious	3,864	256	266	267	306	331	328	344	370	372	389	344	289
Educational	4,908	315	329	350	389	407	524	524	557	440	386	387	322
Hospital and institutional	10,051	812	836	817	850	857	786	805	824	863	895	866	840
Miscellaneous ¹	5,421	384	355	394	436	412	454	431	448	490	582	523	512
Farm nonresidential	2,692	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	32,401	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,073	717	681	867	844	829	960	891	920	847	875	860	783
Railroads	3,201	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	12,656	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	5,637	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	834	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,643	192	186	207	225	229	223	270	241	257	234	176	203
Public construction	118,029	7,229	6,985	7,974	8,795	10,148	11,214	11,136	12,408	12,276	11,347	10,118	8,399
Buildings	49,683	3,595	3,566	3,828	4,012	4,287	4,675	4,498	4,711	4,639	4,153	4,052	3,665
Housing and redevelopment	3,928	310	293	313	328	326	366	324	338	345	345	327	313
Industrial	1,348	112	113	122	116	112	106	110	109	160	86	104	98
Educational	20,800	1,467	1,479	1,572	1,623	1,713	1,987	2,086	2,214	1,957	1,707	1,578	1,417
Hospital	3,871	277	289	303	329	347	335	327	289	403	318	339	315
Other ³	19,737	1,429	1,393	1,518	1,616	1,789	1,881	1,652	1,761	1,774	1,697	1,704	1,523
Highways and streets	35,303	1,444	1,306	1,715	2,152	3,101	3,557	3,830	4,559	4,161	4,220	3,082	2,176
Military facilities	2,728	202	163	259	204	224	238	231	237	325	140	241	264
Conservation and development	5,779	418	433	513	458	467	519	500	593	691	318	445	423
Other public construction	24,536	1,570	1,517	1,658	1,969	2,067	2,225	2,077	2,309	2,459	2,515	2,298	1,872
Sewer systems	8,557	573	539	616	612	686	821	717	812	842	845	824	672
Water supply facilities	4,695	323	326	299	336	358	394	437	471	415	484	467	385
Miscellaneous public ⁴	11,284	674	652	743	1,021	1,024	1,011	923	1,026	1,202	1,187	1,006	816

See footnotes at end of table.

Table 6b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1996												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	506,655	33,215	31,824	35,513	40,065	43,688	46,189	46,902	48,709	48,701	48,037	44,852	38,959
Private construction	385,967	25,598	24,752	27,773	30,924	33,061	35,231	35,203	36,657	35,968	36,170	34,318	30,312
Residential buildings	220,017	13,808	13,184	15,695	17,647	19,449	20,814	21,104	21,562	20,822	20,487	19,265	16,181
New housing units	153,966	10,173	9,718	11,479	12,393	13,279	14,112	14,429	14,739	14,543	14,196	13,544	11,361
1 unit	136,516	8,926	8,455	10,095	10,823	11,635	12,457	12,967	13,245	13,101	12,722	12,069	10,022
2 units or more	17,450	1,247	1,263	1,384	1,570	1,644	1,655	1,462	1,494	1,442	1,474	1,475	1,340
Improvements	66,052	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	131,188	9,236	9,351	9,597	10,362	10,679	11,333	11,066	11,757	12,041	12,453	12,027	11,286
Industrial	28,503	2,229	2,170	2,223	2,324	2,260	2,424	2,266	2,288	2,523	2,782	2,584	2,430
Office	24,329	1,604	1,681	1,691	1,875	2,080	2,202	2,126	2,172	2,246	2,238	2,258	2,157
Hotels, motels	9,521	653	713	717	813	724	783	754	870	860	864	866	904
Other commercial	42,042	2,839	2,883	2,992	3,287	3,481	3,596	3,612	3,991	4,021	4,103	3,828	3,410
Religious	3,955	280	277	272	300	309	338	313	357	368	379	390	370
Educational	5,880	349	371	409	397	450	562	590	627	563	548	533	482
Hospital and institutional	10,280	791	741	746	804	858	871	838	903	904	923	950	950
Miscellaneous ¹	6,677	490	516	547	562	518	557	567	548	557	615	619	583
Farm nonresidential	3,319	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	29,286	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,245	731	735	751	839	864	777	812	924	818	956	960	1,078
Railroads	3,894	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	9,914	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,330	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	903	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,156	183	167	172	178	178	193	178	218	175	196	165	155
Public construction	120,688	7,617	7,073	7,740	9,141	10,627	10,958	11,699	12,052	12,734	11,867	10,534	8,647
Buildings	51,119	3,708	3,362	3,691	3,938	4,403	4,412	4,623	4,779	4,953	4,546	4,567	4,137
Housing and redevelopment	3,958	317	273	275	283	359	307	346	324	407	377	376	315
Industrial	1,214	91	91	109	106	112	113	112	115	160	52	78	75
Educational	21,035	1,385	1,286	1,442	1,536	1,742	1,865	2,083	2,258	2,035	1,907	1,866	1,629
Hospital	4,050	316	329	349	357	359	330	328	288	398	334	303	360
Other ³	20,863	1,599	1,383	1,516	1,657	1,831	1,797	1,754	1,793	1,955	1,877	1,944	1,759
Highways and streets	36,483	1,587	1,584	1,712	2,390	3,207	3,586	4,145	4,185	4,311	4,344	3,148	2,284
Military facilities	2,317	231	187	190	198	204	193	176	177	248	156	181	178
Conservation and development	5,335	345	338	394	440	446	458	462	511	775	380	435	551
Other public construction	25,434	1,746	1,602	1,753	2,175	2,368	2,309	2,294	2,401	2,447	2,441	2,202	1,696
Sewer systems	9,260	616	579	648	790	821	793	767	919	854	971	834	668
Water supply facilities	5,187	310	323	333	442	462	461	453	451	477	589	481	406
Miscellaneous public ⁴	10,987	820	701	771	943	1,085	1,056	1,074	1,030	1,116	881	888	622

See footnotes at end of table.

Table 6b. Annual and Monthly Value of Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1997												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	520,117	34,509	34,091	37,773	41,202	44,229	47,066	48,695	50,226	49,750	48,684	44,432	39,457
Private construction	395,321	26,996	26,459	29,308	31,823	33,823	35,490	36,414	37,321	36,788	36,445	34,000	30,453
Residential buildings	221,546	14,339	13,861	16,260	17,882	19,540	20,503	20,870	21,260	20,668	20,501	19,287	16,575
New housing units	156,038	10,342	10,123	11,803	12,469	13,361	13,882	14,341	14,658	14,673	14,556	13,869	11,962
1 unit	137,156	9,098	8,688	10,329	10,934	11,613	12,212	12,781	12,995	13,037	12,794	12,274	10,401
2 units or more	18,882	1,244	1,435	1,475	1,535	1,748	1,670	1,560	1,663	1,635	1,762	1,595	1,560
Improvements	65,508	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	139,067	10,424	10,622	10,719	11,140	11,468	11,842	12,270	12,640	12,655	12,484	11,642	11,162
Industrial	26,440	2,087	2,113	1,984	2,109	2,134	2,225	2,340	2,411	2,416	2,326	2,128	2,168
Office	27,631	2,091	2,213	2,102	2,098	2,163	2,306	2,421	2,497	2,486	2,563	2,411	2,281
Hotels, motels	10,741	804	834	864	884	965	955	941	929	899	925	872	870
Other commercial	42,748	3,199	3,186	3,280	3,406	3,577	3,714	3,872	3,982	3,954	3,842	3,502	3,233
Religious	4,951	314	325	374	391	410	376	401	417	477	504	490	470
Educational	7,101	452	455	464	564	595	679	713	709	673	640	595	563
Hospital and institutional	11,576	914	931	996	1,011	941	928	904	1,000	1,041	994	987	929
Miscellaneous ¹	7,880	561	566	655	677	685	659	679	695	709	690	656	648
Farm nonresidential	3,329	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	29,448	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	9,918	685	665	733	832	805	846	913	849	929	954	816	890
Railroads	4,321	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	10,545	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	3,820	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	843	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	1,931	132	122	141	153	153	164	170	193	179	208	181	135
Public construction	124,796	7,513	7,631	8,465	9,379	10,407	11,577	12,282	12,905	12,962	12,239	10,432	9,004
Buildings	53,515	3,830	3,833	4,089	4,275	4,326	4,800	4,935	5,005	5,059	4,895	4,353	4,116
Housing and redevelopment	4,055	287	290	296	321	354	333	350	339	388	435	355	306
Industrial	842	76	68	75	95	62	80	77	67	82	46	54	58
Educational	22,786	1,539	1,551	1,686	1,759	1,845	2,185	2,299	2,391	2,101	2,025	1,716	1,688
Hospital	4,247	339	333	332	363	321	369	377	343	438	390	341	300
Other ³	21,585	1,588	1,590	1,700	1,737	1,744	1,831	1,832	1,864	2,050	1,998	1,888	1,762
Highways and streets	38,605	1,589	1,634	1,912	2,645	3,306	3,932	4,351	4,709	4,461	4,282	3,384	2,400
Military facilities	2,223	175	149	167	162	187	193	203	210	236	172	202	168
Conservation and development	4,841	363	336	392	367	385	380	401	445	652	346	356	418
Other public construction	25,611	1,557	1,679	1,905	1,930	2,202	2,272	2,392	2,537	2,554	2,544	2,137	1,903
Sewer systems	8,951	590	593	669	707	797	836	815	822	880	849	752	641
Water supply facilities	5,393	364	379	442	419	440	452	491	474	501	525	491	416
Miscellaneous public ⁴	11,267	602	707	794	804	965	984	1,086	1,241	1,174	1,170	894	846

NA Not available, but estimates are included in total.

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 7a. Monthly Value of Public Construction Put in Place: May 1996-May 1998—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					
1996:	May ^f	10,590	4,426	334	1,979	268	1,845	3,577	165	917	527	979
	June ^f	11,102	4,509	298	2,129	302	1,780	4,005	184	888	526	989
	July ^f	12,026	4,777	341	2,391	279	1,766	4,638	199	865	519	1,028
	August ^f	12,484	5,021	324	2,596	258	1,843	4,690	213	1,042	520	999
	September ^f	12,591	5,016	410	2,349	338	1,920	4,862	209	975	552	977
	October ^f	12,684	4,895	397	2,205	329	1,965	4,894	234	1,107	685	869
	November ^f	10,889	4,784	382	2,158	277	1,966	3,537	219	948	559	843
	December ^f	8,887	4,300	320	1,892	311	1,776	2,572	158	762	474	622
1997:	January ^f	7,662	3,990	269	1,796	283	1,643	1,805	146	680	426	613
	February ^f	7,847	3,992	285	1,807	268	1,632	1,862	141	687	442	723
	March ^f	8,797	4,346	298	1,975	307	1,766	2,200	183	783	519	766
	April ^f	9,926	4,563	331	2,069	355	1,808	3,059	204	828	494	779
	May ^f	11,089	4,662	372	2,181	296	1,814	3,835	162	934	520	974
	June ^f	12,453	5,170	340	2,583	328	1,919	4,562	187	978	533	1,024
	July ^f	13,288	5,401	365	2,735	378	1,923	5,040	198	955	577	1,119
	August ^f	14,023	5,506	351	2,856	330	1,970	5,453	225	963	556	1,320
	September ^f	13,525	5,355	414	2,514	351	2,077	5,161	218	1,031	587	1,173
	October ^f	13,468	5,412	457	2,428	352	2,176	4,999	249	992	616	1,199
	November ^f	11,212	4,686	371	2,069	282	1,965	3,998	204	882	579	862
	December ^f	9,487	4,412	332	2,033	261	1,785	2,842	178	751	491	814
1998:	January ^f	7,989	4,152	322	1,839	256	1,736	1,927	161	689	426	634
	February ^f	7,783	4,097	293	1,806	237	1,762	1,848	148	656	447	587
	March ^f	8,458	4,230	336	1,850	262	1,781	2,206	154	741	467	661
	April ^f	9,896	4,561	337	2,042	241	1,941	3,034	151	803	544	803
	May ^p	10,686	4,674	327	2,167	246	1,935	3,679	162	789	559	824
		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
1996:	May ^f	1,418	586	80	127	1	141	237	(NA)	230	333	237
	June ^f	1,315	535	58	129	1	76	272	(NA)	219	328	197
	July ^f	1,284	538	64	129	1	98	247	(NA)	200	321	183
	August ^f	1,265	482	57	132	1	73	219	(NA)	202	366	168
	September ^f	2,010	713	68	184	1	121	338	(NA)	284	675	295
	October ^f	928	371	46	60	2	57	207	(NA)	179	199	133
	November ^f	1,195	513	61	91	2	74	285	(NA)	207	276	166
	December ^f	1,070	513	51	88	-	107	267	(NA)	204	244	86
1997:	January ^f	1,053	484	71	89	-	113	211	(NA)	202	272	79
	February ^f	1,011	482	58	79	2	120	223	(NA)	173	249	93
	March ^f	1,105	457	52	88	4	83	230	(NA)	195	276	159
	April ^f	1,075	473	50	112	1	73	236	(NA)	190	226	162
	May ^f	1,151	454	49	74	1	84	247	(NA)	220	290	155
	June ^f	1,163	512	59	95	2	109	248	(NA)	227	258	128
	July ^f	1,179	476	55	92	1	70	257	(NA)	239	272	151
	August ^f	1,199	478	58	80	2	80	258	(NA)	248	296	131
	September ^f	1,779	709	55	98	3	174	379	(NA)	279	546	200
	October ^f	1,042	462	71	56	-	116	220	(NA)	205	155	175
	November ^f	1,248	567	60	65	1	129	312	(NA)	242	213	195
	December ^f	1,276	553	39	70	3	101	340	(NA)	201	312	186
1998:	January ^f	990	429	40	75	-	71	243	(NA)	198	191	157
	February ^f	1,078	461	64	78	1	66	253	(NA)	197	280	124
	March ^f	1,186	516	45	94	-	105	272	(NA)	244	258	148
	April ^f	1,120	498	49	84	1	63	301	(NA)	197	246	154
	May ^p	1,135	480	49	80	1	80	269	(NA)	197	264	161

- Less than \$0.5 million. 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 7b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	114,906	6,734	6,558	7,356	8,438	9,797	11,060	11,051	12,336	11,650	11,782	10,013	8,130
Total buildings	49,657	3,540	3,501	3,729	4,010	4,205	4,720	4,580	4,791	4,514	4,339	4,070	3,660
Housing and redevelopment	3,915	329	297	316	347	325	369	322	335	333	340	296	309
Educational	23,252	1,628	1,639	1,744	1,804	1,904	2,222	2,335	2,480	2,196	1,926	1,780	1,596
Hospital	3,291	229	238	251	285	273	285	291	245	329	308	292	266
Other ¹	19,199	1,355	1,328	1,417	1,575	1,702	1,845	1,632	1,731	1,656	1,766	1,703	1,489
Highways and streets	38,190	1,520	1,380	1,820	2,291	3,312	3,842	4,158	4,937	4,523	4,621	3,392	2,397
Conservation and development	2,201	160	164	187	195	217	220	166	211	165	174	177	164
Other state and local construction	24,858	1,514	1,513	1,621	1,942	2,064	2,278	2,147	2,398	2,449	2,649	2,374	1,909
Sewer systems	9,435	623	589	674	671	753	911	796	896	932	935	912	743
Water supply facilities	5,283	362	365	335	375	399	443	494	530	469	547	530	436
Miscellaneous nonbuilding ²	10,140	530	559	612	896	912	924	858	972	1,048	1,167	932	729
Federal construction	15,751	1,183	1,109	1,393	1,224	1,353	1,357	1,301	1,395	1,985	871	1,302	1,278
Total buildings	6,043	458	465	529	461	580	521	465	499	715	358	508	485
Housing	576	22	36	40	27	47	50	48	53	65	57	80	52
Industrial	1,508	125	125	136	130	125	118	123	123	180	97	117	111
Educational	27	1	3	1	1	5	2	1	2	6	2	-	4
Hospital	1,041	79	83	85	81	113	90	75	79	124	52	91	89
Other federal buildings ³	2,891	232	219	267	223	290	260	218	243	340	150	220	230
Highways and streets	308	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	3,011	220	178	282	223	246	263	256	262	361	156	269	295
Conservation and development	4,167	295	309	374	307	297	356	389	444	600	178	316	304
Miscellaneous nonbuilding ⁴	2,223	194	144	192	213	203	187	159	154	275	145	183	175

See footnotes at end of table.

Table 7b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1996												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	121,965	7,370	6,837	7,500	9,005	10,590	11,102	12,026	12,484	12,591	12,684	10,889	8,887
Total buildings	52,429	3,713	3,343	3,681	3,964	4,426	4,509	4,777	5,021	5,016	4,895	4,784	4,300
Housing and redevelopment	3,933	312	271	272	272	334	298	341	324	410	397	382	320
Educational	24,099	1,566	1,457	1,636	1,741	1,979	2,129	2,391	2,596	2,349	2,205	2,158	1,892
Hospital	3,478	294	267	274	282	268	302	279	258	338	329	277	311
Other ¹	20,919	1,541	1,348	1,499	1,670	1,845	1,780	1,766	1,843	1,920	1,965	1,966	1,776
Highways and streets	40,875	1,760	1,763	1,913	2,663	3,577	4,005	4,638	4,690	4,862	4,894	3,537	2,572
Conservation and development	2,167	128	142	151	165	165	184	199	213	209	234	219	158
Other state and local construction	26,494	1,769	1,589	1,755	2,213	2,423	2,403	2,412	2,560	2,503	2,661	2,350	1,858
Sewer systems	10,433	684	643	722	881	917	888	865	1,042	975	1,107	948	762
Water supply facilities	5,964	352	367	380	503	527	526	519	520	552	685	559	474
Miscellaneous nonbuilding ²	10,097	733	579	652	829	979	989	1,028	999	977	869	843	622
Federal construction	15,368	1,197	1,134	1,245	1,307	1,418	1,315	1,284	1,265	2,010	928	1,195	1,070
Total buildings	6,230	488	472	513	507	586	535	538	482	713	371	513	513
Housing	681	53	44	45	53	80	58	64	57	68	46	61	51
Industrial	1,389	103	103	124	120	127	129	129	132	184	60	91	88
Educational	12	1	-	1	1	1	1	1	1	1	2	2	-
Hospital	1,159	63	105	122	123	141	76	98	73	121	57	74	107
Other federal buildings ³	2,989	268	219	221	209	237	272	247	219	338	207	285	267
Highways and streets	368	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,634	260	211	215	224	230	219	200	202	284	179	207	204
Conservation and development	3,845	255	234	288	326	333	328	321	366	675	199	276	244
Miscellaneous nonbuilding ⁴	2,291	181	204	212	228	237	197	183	168	295	133	166	86

See footnotes at end of table.

Table 7b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1997												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	132,777	7,662	7,847	8,797	9,926	11,089	12,453	13,288	14,023	13,525	13,468	11,212	9,487
Total buildings	57,497	3,990	3,992	4,346	4,563	4,662	5,170	5,401	5,506	5,355	5,412	4,686	4,412
Housing and redevelopment	4,185	269	285	298	331	372	340	365	351	414	457	371	332
Educational	27,046	1,796	1,807	1,975	2,069	2,181	2,583	2,735	2,856	2,514	2,428	2,069	2,033
Hospital	3,791	283	268	307	355	296	328	378	330	351	352	282	261
Other ¹	22,476	1,643	1,632	1,766	1,808	1,814	1,919	1,923	1,970	2,077	2,176	1,965	1,785
Highways and streets	44,817	1,805	1,862	2,200	3,059	3,835	4,562	5,040	5,453	5,161	4,999	3,998	2,842
Conservation and development	2,296	146	141	183	204	162	187	198	225	218	249	204	178
Other state and local construction	28,167	1,719	1,852	2,068	2,100	2,429	2,534	2,650	2,839	2,790	2,807	2,323	2,056
Sewer systems	10,463	680	687	783	828	934	978	955	963	1,031	992	882	751
Water supply facilities	6,339	426	442	519	494	520	533	577	556	587	616	579	491
Miscellaneous nonbuilding ²	11,364	613	723	766	779	974	1,024	1,119	1,320	1,173	1,199	862	814
Federal construction	14,281	1,053	1,011	1,105	1,075	1,151	1,163	1,179	1,199	1,779	1,042	1,248	1,276
Total buildings	6,106	484	482	457	473	454	512	476	478	709	462	567	553
Housing	677	71	58	52	50	49	59	55	58	55	71	60	39
Industrial	998	89	79	88	112	74	95	92	80	98	56	65	70
Educational	19	-	2	4	1	1	2	1	2	3	-	1	3
Hospital	1,251	113	120	83	73	84	109	70	80	174	116	129	101
Other federal buildings ³	3,161	211	223	230	236	247	248	257	258	379	220	312	340
Highways and streets	380	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,620	202	173	195	190	220	227	239	248	279	205	242	201
Conservation and development	3,362	272	249	276	226	290	258	272	296	546	155	213	312
Miscellaneous nonbuilding ⁴	1,812	79	93	159	162	155	128	151	131	200	175	195	186

- Less than \$0.5 million. NA Not available, but estimates are included in total.

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 8a. Monthly Value of Public Construction Put in Place: May 1996-May 1998—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					
1996:	May ^f	123,520	52,385	3,786	24,238	3,400	20,962	40,571	1,949	10,851	6,183	11,581
	June ^f	118,923	50,337	3,549	22,832	3,492	20,463	39,559	2,051	10,024	5,954	10,999
	July ^f	120,713	51,621	4,037	23,731	3,114	20,739	40,746	2,106	9,687	5,686	10,868
	August ^f	119,126	51,887	3,905	24,167	3,244	20,572	38,924	2,079	10,803	5,679	9,754
	September ^f	124,183	54,553	4,328	24,901	3,693	21,632	41,439	2,125	10,033	6,092	9,940
	October ^f	125,259	54,465	4,159	25,467	3,543	21,296	41,419	2,368	11,293	6,918	8,797
	November ^f	128,166	57,243	4,387	27,089	3,360	22,407	41,982	2,507	10,648	6,129	9,657
	December ^f	125,184	56,390	4,014	26,283	3,704	22,389	42,215	2,125	10,103	5,965	8,387
1997:	January ^f	127,151	55,811	3,492	26,092	3,698	22,528	42,645	2,387	9,954	6,358	9,996
	February ^f	133,901	56,988	3,982	26,808	3,561	22,636	45,698	2,259	10,761	6,616	11,579
	March ^f	137,718	59,105	3,944	27,428	3,923	23,810	45,911	2,789	10,923	7,344	11,646
	April ^f	132,813	57,642	4,186	27,138	4,134	22,184	46,003	2,545	10,632	6,281	9,711
	May ^f	131,155	55,694	4,267	26,755	3,838	20,835	44,683	1,927	11,167	6,096	11,589
	June ^f	132,756	57,352	4,112	27,729	3,810	21,701	44,913	2,068	11,062	6,031	11,330
	July ^f	133,083	57,931	4,280	27,168	4,279	22,205	44,368	2,083	10,589	6,324	11,787
	August ^f	134,033	57,259	4,204	26,692	4,066	22,297	45,537	2,191	10,099	6,090	12,857
	September ^f	132,669	57,693	4,317	26,551	3,708	23,117	43,926	2,215	10,484	6,458	11,893
	October ^f	133,846	60,132	4,732	27,959	3,878	23,564	42,759	2,517	10,141	6,194	12,103
	November ^f	132,042	56,354	4,209	25,858	3,438	22,850	47,040	2,358	10,005	6,342	9,944
	December ^f	132,343	58,060	4,156	28,209	3,075	22,620	44,926	2,403	9,740	6,211	11,003
1998:	January ^f	132,738	57,863	4,141	26,645	3,460	23,618	45,688	2,598	10,060	6,301	10,227
	February ^f	132,178	58,381	4,110	26,754	3,162	24,355	45,170	2,382	10,150	6,665	9,430
	March ^f	130,884	56,430	4,364	25,755	3,201	23,110	45,170	2,314	10,388	6,612	9,969
	April ^f	131,875	57,385	4,218	26,607	2,958	23,602	45,623	1,889	10,068	6,858	10,052
	May ^p	126,899	56,004	3,768	26,559	3,093	22,583	43,026	1,929	9,612	6,532	9,796
		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
1996:	May ^f	16,404	6,605	901	1,435	14	1,584	2,670	(NA)	2,677	3,953	2,818
	June ^f	15,658	6,334	688	1,525	11	896	3,214	(NA)	2,643	3,953	2,373
	July ^f	15,152	6,415	767	1,531	8	1,164	2,943	(NA)	2,396	3,810	2,171
	August ^f	14,556	5,912	697	1,623	10	893	2,688	(NA)	2,321	4,067	1,866
	September ^f	16,568	6,419	613	1,661	10	1,093	3,042	(NA)	2,761	4,882	2,131
	October ^f	14,029	5,383	667	864	26	830	2,996	(NA)	2,576	3,408	2,282
	November ^f	14,507	6,180	736	1,092	29	889	3,434	(NA)	2,296	3,518	2,122
	December ^f	13,252	6,257	623	1,068	4	1,302	3,260	(NA)	2,360	3,145	1,112
1997:	January ^f	13,738	6,078	894	1,112	4	1,420	2,649	(NA)	2,486	3,718	1,078
	February ^f	14,294	6,527	791	1,071	23	1,624	3,018	(NA)	2,552	3,526	1,321
	March ^f	13,570	5,499	629	1,059	48	999	2,763	(NA)	2,364	3,379	1,953
	April ^f	13,540	5,906	628	1,405	10	913	2,951	(NA)	2,431	2,813	2,015
	May ^f	13,345	5,158	555	839	9	952	2,803	(NA)	2,580	3,402	1,821
	June ^f	13,717	5,933	682	1,100	22	1,258	2,870	(NA)	2,729	3,128	1,553
	July ^f	14,131	5,879	677	1,136	16	869	3,181	(NA)	2,880	3,216	1,786
	August ^f	13,898	5,950	723	992	22	996	3,217	(NA)	2,812	3,289	1,454
	September ^f	14,751	6,325	490	876	28	1,551	3,379	(NA)	2,630	3,965	1,449
	October ^f	15,223	6,438	985	775	3	1,610	3,065	(NA)	2,806	2,631	2,964
	November ^f	15,686	7,232	760	834	6	1,649	3,983	(NA)	2,889	2,709	2,479
	December ^f	15,584	6,451	455	819	33	1,176	3,970	(NA)	2,342	4,019	2,392
1998:	January ^f	13,169	5,420	501	949	3	902	3,066	(NA)	2,474	2,683	2,213
	February ^f	15,106	6,138	853	1,042	11	871	3,362	(NA)	2,916	3,923	1,738
	March ^f	14,696	6,500	567	1,189	4	1,317	3,424	(NA)	2,818	3,174	1,815
	April ^f	14,049	6,024	591	1,011	17	759	3,646	(NA)	2,616	3,089	1,930
	May ^p	13,254	5,659	580	947	17	947	3,170	(NA)	2,263	3,069	1,864

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 8b. Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	111,665	109,793	112,941	114,508	114,063	117,507	113,187	115,039	115,080	117,828	116,030	115,717
Total buildings	49,511	49,606	49,746	51,304	49,899	51,638	50,070	49,011	49,330	48,625	48,747	48,297
Housing and redevelopment	4,110	4,045	4,157	4,295	3,718	4,212	3,886	4,019	3,628	3,619	3,471	3,836
Educational	23,590	24,068	24,193	23,837	23,217	23,953	23,084	22,892	23,404	22,369	22,480	22,114
Hospital	2,931	3,137	3,186	3,490	3,321	3,314	3,433	2,918	3,604	3,321	3,551	3,253
Other ¹	18,879	18,357	18,211	19,681	19,643	20,160	19,666	19,181	18,693	19,316	19,244	19,094
Highways and streets	36,412	33,992	37,259	36,030	37,210	37,913	37,712	39,467	38,655	40,325	38,692	40,056
Conservation and development	2,623	2,624	2,851	2,420	2,558	2,444	1,755	2,072	1,687	1,754	2,023	2,214
Other state and local construction	23,119	23,571	23,084	24,755	24,397	25,512	23,651	24,489	25,409	27,124	26,568	25,150
Sewer systems	9,111	9,169	9,067	8,848	8,954	10,257	9,198	9,169	9,487	9,807	10,080	9,836
Water supply facilities	5,308	5,455	4,683	4,810	4,685	4,995	5,404	5,795	5,182	5,557	5,814	5,482
Miscellaneous nonbuilding ²	8,700	8,947	9,335	11,096	10,758	10,259	9,049	9,525	10,740	11,760	10,674	9,832
Federal construction	15,933	15,742	16,601	15,445	15,728	15,636	15,546	16,526	16,255	13,332	16,138	15,522
Total buildings	6,072	6,319	6,242	5,801	6,530	5,974	5,576	6,467	6,278	5,218	6,245	5,712
Housing	297	485	474	337	531	571	578	682	567	831	980	612
Industrial	1,652	1,700	1,602	1,631	1,407	1,355	1,475	1,587	1,583	1,416	1,440	1,303
Educational	8	37	8	8	51	26	17	27	52	29	2	41
Hospital	1,045	1,125	1,002	1,020	1,275	1,036	899	1,020	1,090	755	1,124	1,049
Other federal buildings ³	3,070	2,972	3,155	2,805	3,266	2,985	2,607	3,150	2,987	2,187	2,699	2,708
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,779	2,621	3,174	2,963	2,947	2,938	3,195	3,106	3,284	2,230	3,236	3,319
Conservation and development	4,037	4,405	4,533	3,758	3,526	4,203	4,601	4,944	4,389	3,084	4,032	3,915
Miscellaneous nonbuilding ⁴	2,662	2,052	2,325	2,609	2,410	2,205	1,884	1,714	2,012	2,502	2,329	2,258

See footnotes at end of table.

Table 8b. **Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars—Con.**

[Millions of dollars]

Type of construction	1996											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	122,441	115,244	117,307	121,642	123,520	118,923	120,713	119,126	124,183	125,259	128,166	125,184
Total buildings	51,964	46,580	49,581	50,024	52,385	50,337	51,621	51,887	54,553	54,465	57,243	56,390
Housing and redevelopment	3,926	3,741	3,595	3,449	3,786	3,549	4,037	3,905	4,328	4,159	4,387	4,014
Educational	22,746	21,504	22,700	22,929	24,238	22,832	23,731	24,167	24,901	25,467	27,089	26,283
Hospital	3,712	3,506	3,449	3,347	3,400	3,492	3,114	3,244	3,693	3,543	3,360	3,704
Other ¹	21,579	17,829	19,838	20,299	20,962	20,463	20,739	20,572	21,632	21,296	22,407	22,389
Highways and streets	41,252	41,976	40,129	41,340	40,571	39,559	40,746	38,924	41,439	41,419	41,982	42,215
Conservation and development	2,102	2,271	2,301	2,038	1,949	2,051	2,106	2,079	2,125	2,368	2,507	2,125
Other state and local construction	27,124	24,418	25,296	28,239	28,615	26,977	26,241	26,236	26,065	27,008	26,435	24,454
Sewer systems	9,901	9,698	10,007	11,559	10,851	10,024	9,687	10,803	10,033	11,293	10,648	10,103
Water supply facilities	5,213	5,488	5,354	6,420	6,183	5,954	5,686	5,679	6,092	6,918	6,129	5,965
Miscellaneous nonbuilding ²	12,010	9,231	9,935	10,260	11,581	10,999	10,868	9,754	9,940	8,797	9,657	8,387
Federal construction	15,730	15,883	15,100	16,288	16,404	15,658	15,152	14,556	16,568	14,029	14,507	13,252
Total buildings	6,136	6,234	6,251	6,235	6,605	6,334	6,415	5,912	6,419	5,383	6,180	6,257
Housing	665	584	549	656	901	688	767	697	613	667	736	623
Industrial	1,299	1,363	1,507	1,474	1,435	1,525	1,531	1,623	1,661	864	1,092	1,068
Educational	14	3	7	15	14	11	8	10	10	26	29	4
Hospital	791	1,392	1,490	1,513	1,584	896	1,164	893	1,093	830	889	1,302
Other federal buildings ³	3,366	2,893	2,698	2,577	2,670	3,214	2,943	2,688	3,042	2,996	3,434	3,260
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	3,300	3,069	2,407	2,856	2,677	2,643	2,396	2,321	2,761	2,576	2,296	2,360
Conservation and development	3,489	3,336	3,503	4,026	3,953	3,953	3,810	4,067	4,882	3,408	3,518	3,145
Miscellaneous nonbuilding ⁴	2,477	2,910	2,582	2,814	2,818	2,373	2,171	1,866	2,131	2,282	2,122	1,112

See footnotes at end of table.

Table 8b. Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Type of construction	1997											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	127,151	133,901	137,718	132,813	131,155	132,756	133,083	134,033	132,669	133,846	132,042	132,343
Total buildings	55,811	56,988	59,105	57,642	55,694	57,352	57,931	57,259	57,693	60,132	56,354	58,060
Housing and redevelopment	3,492	3,982	3,944	4,186	4,267	4,112	4,280	4,204	4,317	4,732	4,209	4,156
Educational	26,092	26,808	27,428	27,138	26,755	27,729	27,168	26,692	26,551	27,959	25,858	28,209
Hospital	3,698	3,561	3,923	4,134	3,838	3,810	4,279	4,066	3,708	3,878	3,438	3,075
Other ¹	22,528	22,636	23,810	22,184	20,835	21,701	22,205	22,297	23,117	23,564	22,850	22,620
Highways and streets	42,645	45,698	45,911	46,003	44,683	44,913	44,368	45,537	43,926	42,759	47,040	44,926
Conservation and development	2,387	2,259	2,789	2,545	1,927	2,068	2,083	2,191	2,215	2,517	2,358	2,403
Other state and local construction	26,309	28,956	29,913	26,624	28,852	28,423	28,700	29,046	28,835	28,438	26,290	26,954
Sewer systems	9,954	10,761	10,923	10,632	11,167	11,062	10,589	10,099	10,484	10,141	10,005	9,740
Water supply facilities	6,358	6,616	7,344	6,281	6,096	6,031	6,324	6,090	6,458	6,194	6,342	6,211
Miscellaneous nonbuilding ²	9,996	11,579	11,646	9,711	11,589	11,330	11,787	12,857	11,893	12,103	9,944	11,003
Federal construction	13,738	14,294	13,570	13,540	13,345	13,717	14,131	13,898	14,751	15,223	15,686	15,584
Total buildings	6,078	6,527	5,499	5,906	5,158	5,933	5,879	5,950	6,325	6,438	7,232	6,451
Housing	894	791	629	628	555	682	677	723	490	985	760	455
Industrial	1,112	1,071	1,059	1,405	839	1,100	1,136	992	876	775	834	819
Educational	4	23	48	10	9	22	16	22	28	3	6	33
Hospital	1,420	1,624	999	913	952	1,258	869	996	1,551	1,610	1,649	1,176
Other federal buildings ³	2,649	3,018	2,763	2,951	2,803	2,870	3,181	3,217	3,379	3,065	3,983	3,970
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,486	2,552	2,364	2,431	2,580	2,729	2,880	2,812	2,630	2,806	2,889	2,342
Conservation and development	3,718	3,526	3,379	2,813	3,402	3,128	3,216	3,289	3,965	2,631	2,709	4,019
Miscellaneous nonbuilding ⁴	1,078	1,321	1,953	2,015	1,821	1,553	1,786	1,454	1,449	2,964	2,479	2,392

NA Not available, but estimates are included in total.

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 9a. **Monthly Value of Public Construction Put in Place: May 1996-May 1998—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					
1996:	May ^f	109,297	46,024	3,281	21,317	2,990	18,437	36,063	1,745	9,714	5,419	10,331
	June ^f	104,914	44,024	3,054	19,993	3,058	17,919	35,101	1,831	8,950	5,213	9,794
	July ^f	106,047	44,897	3,447	20,672	2,713	18,066	36,090	1,869	8,596	4,961	9,634
	August ^f	104,350	45,053	3,329	21,014	2,820	17,889	34,385	1,835	9,535	4,934	8,609
	September ^f	108,229	47,172	3,686	21,559	3,197	18,729	36,414	1,863	8,793	5,260	8,727
	October ^f	109,110	47,016	3,536	22,011	3,062	18,407	36,428	2,077	9,906	5,954	7,730
	November ^f	111,731	49,368	3,724	23,393	2,902	19,350	37,021	2,205	9,365	5,270	8,501
	December ^f	108,839	48,476	3,402	22,619	3,187	19,268	37,161	1,864	8,862	5,107	7,370
1997:	January ^f	109,833	47,779	2,947	22,358	3,169	19,305	37,212	2,070	8,633	5,439	8,700
	February ^f	115,541	48,823	3,363	22,991	3,054	19,414	39,772	1,951	9,293	5,670	10,033
	March ^f	117,858	50,313	3,328	23,363	3,342	20,281	39,578	2,384	9,336	6,251	9,996
	April ^f	113,284	48,944	3,527	23,057	3,512	18,848	39,454	2,173	9,079	5,327	8,307
	May ^f	111,515	47,094	3,585	22,635	3,247	17,627	38,191	1,644	9,528	5,162	9,896
	June ^f	112,854	48,445	3,441	23,439	3,221	18,344	38,387	1,767	9,455	5,115	9,684
	July ^f	112,925	48,652	3,566	22,830	3,595	18,660	37,987	1,779	9,043	5,382	10,083
	August ^f	113,557	47,889	3,492	22,336	3,402	18,659	38,987	1,871	8,625	5,187	10,998
	September ^f	112,285	48,125	3,571	22,163	3,095	19,297	37,640	1,890	8,945	5,510	10,174
	October ^f	112,825	50,110	3,904	23,319	3,234	19,653	36,298	2,153	8,675	5,281	10,309
	November ^f	110,531	46,708	3,470	21,441	2,850	18,947	39,496	2,011	8,529	5,374	8,413
	December ^f	110,694	48,126	3,429	23,391	2,550	18,756	37,627	2,052	8,318	5,264	9,309
1998:	January ^f	111,136	47,937	3,428	22,075	2,866	19,567	38,425	2,217	8,583	5,313	8,660
	February ^f	110,857	48,369	3,405	22,166	2,619	20,178	38,150	2,036	8,675	5,615	8,012
	March ^f	109,703	46,643	3,613	21,285	2,645	19,099	38,183	1,976	8,871	5,561	8,470
	April ^f	110,561	47,468	3,491	22,008	2,446	19,522	38,565	1,614	8,605	5,768	8,541
	May ^p	106,226	46,289	3,120	21,950	2,556	18,664	36,309	1,645	8,195	5,480	8,309
		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
1996:	May ^f	14,529	5,798	781	1,263	12	1,393	2,349	(NA)	2,367	3,539	2,514
	June ^f	13,825	5,536	592	1,336	9	784	2,815	(NA)	2,330	3,529	2,114
	July ^f	13,305	5,575	655	1,334	7	1,014	2,564	(NA)	2,106	3,381	1,925
	August ^f	12,744	5,129	594	1,412	9	777	2,338	(NA)	2,034	3,590	1,647
	September ^f	14,438	5,549	522	1,438	9	946	2,634	(NA)	2,409	4,279	1,871
	October ^f	12,218	4,643	567	747	23	718	2,589	(NA)	2,246	2,990	2,005
	November ^f	12,636	5,326	625	943	25	768	2,965	(NA)	2,003	3,094	1,868
	December ^f	11,499	5,377	528	919	3	1,121	2,805	(NA)	2,054	2,759	977
1997:	January ^f	11,840	5,196	754	953	3	1,217	2,270	(NA)	2,151	3,224	938
	February ^f	12,303	5,587	668	919	20	1,393	2,588	(NA)	2,206	3,045	1,144
	March ^f	11,592	4,679	531	902	41	851	2,354	(NA)	2,025	2,888	1,676
	April ^f	11,535	5,014	529	1,194	8	775	2,507	(NA)	2,074	2,402	1,723
	May ^f	11,340	4,361	466	710	8	806	2,372	(NA)	2,194	2,902	1,555
	June ^f	11,648	5,009	571	930	19	1,063	2,426	(NA)	2,318	2,673	1,328
	July ^f	11,969	4,935	564	954	14	730	2,673	(NA)	2,442	2,747	1,528
	August ^f	11,745	4,975	600	830	19	833	2,692	(NA)	2,381	2,809	1,244
	September ^f	12,449	5,276	406	732	23	1,295	2,820	(NA)	2,223	3,383	1,240
	October ^f	12,822	5,360	813	646	2	1,343	2,556	(NA)	2,360	2,250	2,525
	November ^f	13,128	5,993	626	691	5	1,368	3,303	(NA)	2,412	2,310	2,097
	December ^f	13,073	5,347	375	679	27	975	3,292	(NA)	1,952	3,432	2,024
1998:	January ^f	11,037	4,490	415	786	2	747	2,540	(NA)	2,065	2,289	1,874
	February ^f	12,683	5,086	707	863	9	722	2,785	(NA)	2,438	3,353	1,476
	March ^f	12,310	5,373	469	982	3	1,089	2,830	(NA)	2,356	2,710	1,542
	April ^f	11,780	4,983	489	836	14	628	3,016	(NA)	2,187	2,640	1,640
	May ^p	11,100	4,678	480	782	14	782	2,620	(NA)	1,889	2,616	1,581

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 9b. Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	102,380	100,430	103,258	104,391	103,833	106,100	101,974	103,830	103,516	105,567	103,744	103,385
Total buildings	44,526	44,607	44,730	46,048	44,713	46,067	44,638	43,639	43,776	43,008	43,156	42,714
Housing and redevelopment	3,624	3,561	3,659	3,775	3,258	3,685	3,403	3,504	3,152	3,144	3,018	3,333
Educational	21,252	21,682	21,795	21,437	20,841	21,405	20,610	20,421	20,804	19,813	19,929	19,587
Hospital	2,641	2,826	2,870	3,138	2,981	2,961	3,066	2,603	3,204	2,941	3,148	2,881
Other ¹	17,009	16,538	16,406	17,699	17,633	18,016	17,559	17,111	16,616	17,109	17,060	16,912
Highways and streets	34,222	31,857	34,822	33,547	34,550	34,814	34,471	36,175	35,301	36,560	34,889	36,087
Conservation and development	2,413	2,403	2,606	2,206	2,330	2,202	1,581	1,876	1,524	1,585	1,828	2,000
Other state and local construction	21,219	21,563	21,100	22,590	22,240	23,016	21,284	22,139	22,915	24,415	23,871	22,585
Sewer systems	8,382	8,396	8,288	8,066	8,155	9,241	8,286	8,306	8,570	8,859	9,105	8,885
Water supply facilities	4,743	4,874	4,185	4,306	4,198	4,440	4,787	5,152	4,590	4,913	5,132	4,834
Miscellaneous nonbuilding ²	8,093	8,292	8,627	10,217	9,887	9,335	8,211	8,682	9,754	10,643	9,634	8,866
Federal construction	14,571	14,349	15,124	14,042	14,260	14,072	13,975	14,875	14,586	11,926	14,426	13,871
Total buildings	5,464	5,683	5,614	5,210	5,851	5,328	4,968	5,755	5,569	4,608	5,519	5,049
Housing	262	427	418	297	466	500	506	594	492	722	852	532
Industrial	1,488	1,532	1,444	1,466	1,263	1,211	1,317	1,416	1,407	1,254	1,276	1,154
Educational	7	33	7	7	45	24	15	24	46	26	2	37
Hospital	941	1,014	902	917	1,145	926	803	910	969	669	996	929
Other federal buildings ³	2,765	2,678	2,842	2,523	2,931	2,668	2,328	2,810	2,655	1,937	2,393	2,398
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,557	2,407	2,912	2,711	2,692	2,662	2,886	2,809	2,959	1,998	2,894	2,963
Conservation and development	3,714	4,034	4,144	3,426	3,212	3,786	4,145	4,478	3,965	2,786	3,643	3,536
Miscellaneous nonbuilding ⁴	2,476	1,902	2,149	2,403	2,215	2,006	1,710	1,562	1,828	2,264	2,102	2,036

See footnotes at end of table.

Table 9b. **Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.**

[Millions of dollars]

Type of construction	1996											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	108,963	102,321	103,841	107,835	109,297	104,914	106,047	104,350	108,229	109,110	111,731	108,839
Total buildings	45,882	41,055	43,637	44,068	46,024	44,024	44,897	45,053	47,172	47,016	49,368	48,476
Housing and redevelopment	3,408	3,244	3,120	2,997	3,281	3,054	3,447	3,329	3,686	3,536	3,724	3,402
Educational	20,112	18,980	20,000	20,220	21,317	19,993	20,672	21,014	21,559	22,011	23,393	22,619
Hospital	3,282	3,094	3,039	2,951	2,990	3,058	2,713	2,820	3,197	3,062	2,902	3,187
Other ¹	19,080	15,736	17,478	17,900	18,437	17,919	18,066	17,889	18,729	18,407	19,350	19,268
Highways and streets	36,898	37,412	35,607	36,780	36,063	35,101	36,090	34,385	36,414	36,428	37,021	37,161
Conservation and development	1,893	2,042	2,064	1,828	1,745	1,831	1,869	1,835	1,863	2,077	2,205	1,864
Other state and local construction	24,289	21,813	22,534	25,159	25,464	23,958	23,192	23,078	22,781	23,590	23,137	21,338
Sewer systems	8,920	8,721	8,975	10,367	9,714	8,950	8,596	9,535	8,793	9,906	9,365	8,862
Water supply facilities	4,589	4,827	4,696	5,631	5,419	5,213	4,961	4,934	5,260	5,954	5,270	5,107
Miscellaneous nonbuilding ²	10,781	8,264	8,863	9,161	10,331	9,794	9,634	8,609	8,727	7,730	8,501	7,370
Federal construction	14,010	14,117	13,390	14,460	14,529	13,825	13,305	12,744	14,438	12,218	12,636	11,499
Total buildings	5,414	5,493	5,501	5,490	5,798	5,536	5,575	5,129	5,549	4,643	5,326	5,377
Housing	578	507	476	570	781	592	655	594	522	567	625	528
Industrial	1,149	1,203	1,328	1,300	1,263	1,336	1,334	1,412	1,438	747	943	919
Educational	12	2	6	13	12	9	7	9	9	23	25	3
Hospital	700	1,228	1,313	1,334	1,393	784	1,014	777	946	718	768	1,121
Other federal buildings ³	2,976	2,553	2,377	2,273	2,349	2,815	2,564	2,338	2,634	2,589	2,965	2,805
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,936	2,721	2,128	2,529	2,367	2,330	2,106	2,034	2,409	2,246	2,003	2,054
Conservation and development	3,143	3,000	3,141	3,611	3,539	3,529	3,381	3,590	4,279	2,990	3,094	2,759
Miscellaneous nonbuilding ⁴	2,223	2,605	2,304	2,513	2,514	2,114	1,925	1,647	1,871	2,005	1,868	977

See footnotes at end of table.

Table 9b. Monthly Value of Public Construction Put in Place: 1995-1997—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1997											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	109,833	115,541	117,858	113,284	111,515	112,854	112,925	113,557	112,285	112,825	110,531	110,694
Total buildings	47,779	48,823	50,313	48,944	47,094	48,445	48,652	47,889	48,125	50,110	46,708	48,126
Housing and redevelopment	2,947	3,363	3,328	3,527	3,585	3,441	3,566	3,492	3,571	3,904	3,470	3,429
Educational	22,358	22,991	23,363	23,057	22,635	23,439	22,830	22,336	22,163	23,319	21,441	23,391
Hospital	3,169	3,054	3,342	3,512	3,247	3,221	3,595	3,402	3,095	3,234	2,850	2,550
Other ¹	19,305	19,414	20,281	18,848	17,627	18,344	18,660	18,659	19,297	19,653	18,947	18,756
Highways and streets	37,212	39,772	39,578	39,454	38,191	38,387	37,987	38,987	37,640	36,298	39,496	37,627
Conservation and development	2,070	1,951	2,384	2,173	1,644	1,767	1,779	1,871	1,890	2,153	2,011	2,052
Other state and local construction	22,772	24,996	25,582	22,714	24,586	24,254	24,508	24,810	24,629	24,264	22,316	22,890
Sewer systems	8,633	9,293	9,336	9,079	9,528	9,455	9,043	8,625	8,945	8,675	8,529	8,318
Water supply facilities	5,439	5,670	6,251	5,327	5,162	5,115	5,382	5,187	5,510	5,281	5,374	5,264
Miscellaneous nonbuilding ²	8,700	10,033	9,996	8,307	9,896	9,684	10,083	10,998	10,174	10,309	8,413	9,309
Federal construction	11,840	12,303	11,592	11,535	11,340	11,648	11,969	11,745	12,449	12,822	13,128	13,073
Total buildings	5,196	5,587	4,679	5,014	4,361	5,009	4,935	4,975	5,276	5,360	5,993	5,347
Housing	754	668	531	529	466	571	564	600	406	813	626	375
Industrial	953	919	902	1,194	710	930	954	830	732	646	691	679
Educational	3	20	41	8	8	19	14	19	23	2	5	27
Hospital	1,217	1,393	851	775	806	1,063	730	833	1,295	1,343	1,368	975
Other federal buildings ³	2,270	2,588	2,354	2,507	2,372	2,426	2,673	2,692	2,820	2,556	3,303	3,292
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,151	2,206	2,025	2,074	2,194	2,318	2,442	2,381	2,223	2,360	2,412	1,952
Conservation and development	3,224	3,045	2,888	2,402	2,902	2,673	2,747	2,809	3,383	2,250	2,310	3,432
Miscellaneous nonbuilding ⁴	938	1,144	1,676	1,723	1,555	1,328	1,528	1,244	1,240	2,525	2,097	2,024

NA Not available, but estimates are included in total.

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 10a. Monthly Value of Public Construction Put in Place: May 1996-May 1998—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					
1996:	May ^f	9,371	3,889	290	1,741	236	1,622	3,180	147	821	462	873
	June ^f	9,797	3,944	257	1,864	264	1,559	3,554	165	793	461	881
	July ^f	10,572	4,155	291	2,083	243	1,539	4,108	177	767	453	911
	August ^f	10,944	4,361	276	2,257	225	1,603	4,143	188	919	451	882
	September ^f	10,981	4,337	349	2,034	293	1,662	4,273	183	854	477	857
	October ^f	11,059	4,225	337	1,906	284	1,698	4,305	205	971	589	764
	November ^f	9,493	4,125	324	1,864	239	1,698	3,119	192	834	481	742
	December ^f	7,719	3,696	271	1,629	268	1,529	2,264	138	668	406	547
1997:	January ^f	6,606	3,416	227	1,539	242	1,408	1,575	127	590	364	534
	February ^f	6,761	3,420	241	1,550	230	1,399	1,621	122	593	379	626
	March ^f	7,521	3,700	252	1,682	261	1,504	1,896	157	669	442	657
	April ^f	8,464	3,874	279	1,758	301	1,536	2,624	174	707	419	666
	May ^f	9,428	3,942	313	1,845	250	1,535	3,278	138	797	440	832
	June ^f	10,589	4,367	284	2,184	278	1,622	3,899	160	836	452	875
	July ^f	11,283	4,536	304	2,298	318	1,616	4,315	169	815	491	957
	August ^f	11,892	4,606	291	2,390	276	1,648	4,669	192	822	474	1,129
	September ^f	11,459	4,467	342	2,098	293	1,733	4,423	186	880	501	1,003
	October ^f	11,362	4,510	377	2,025	293	1,815	4,244	213	849	525	1,021
	November ^f	9,387	3,884	306	1,715	233	1,629	3,357	174	752	491	729
	December ^f	7,935	3,657	274	1,686	217	1,480	2,380	152	641	416	689
1998:	January ^f	6,682	3,440	266	1,523	212	1,438	1,620	137	588	360	537
	February ^f	6,518	3,395	243	1,496	196	1,460	1,561	127	560	377	499
	March ^f	7,079	3,496	278	1,529	217	1,472	1,865	131	633	393	562
	April ^f	8,292	3,773	279	1,689	200	1,606	2,565	129	686	458	682
	May ^p	8,946	3,864	270	1,791	204	1,599	3,104	138	673	469	699
		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
1996:	May ^f	1,256	515	69	112	1	124	208	(NA)	204	298	212
	June ^f	1,161	468	50	113	1	66	238	(NA)	193	293	175
	July ^f	1,127	468	55	112	1	85	215	(NA)	176	285	162
	August ^f	1,108	418	48	115	1	63	191	(NA)	177	323	148
	September ^f	1,752	616	58	160	1	105	292	(NA)	248	592	259
	October ^f	808	320	39	52	2	50	179	(NA)	156	175	117
	November ^f	1,041	442	52	78	2	64	246	(NA)	181	242	146
	December ^f	928	441	43	75	-	92	230	(NA)	178	214	76
1997:	January ^f	907	414	60	76	-	97	181	(NA)	175	236	69
	February ^f	870	413	49	68	1	103	191	(NA)	149	215	81
	March ^f	944	389	44	75	3	71	196	(NA)	167	236	137
	April ^f	916	401	42	95	1	62	201	(NA)	162	193	138
	May ^f	978	384	41	62	1	71	209	(NA)	187	247	132
	June ^f	988	432	49	80	2	92	209	(NA)	193	220	109
	July ^f	999	399	46	77	1	59	216	(NA)	203	232	129
	August ^f	1,014	399	48	67	2	67	216	(NA)	210	253	112
	September ^f	1,502	592	45	82	3	145	316	(NA)	236	466	171
	October ^f	877	385	58	46	-	96	183	(NA)	172	133	149
	November ^f	1,045	469	49	54	-	107	259	(NA)	202	182	165
	December ^f	1,070	459	32	58	2	84	282	(NA)	168	266	157
1998:	January ^f	830	355	33	62	-	59	201	(NA)	165	163	133
	February ^f	905	382	53	65	1	54	209	(NA)	165	239	105
	March ^f	993	427	37	78	-	86	225	(NA)	204	221	126
	April ^f	938	412	40	69	1	52	249	(NA)	164	210	131
	May ^p	951	397	41	66	1	66	222	(NA)	164	225	136

- Less than \$0.5 million. 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 10b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	103,816	6,148	5,975	6,705	7,682	8,921	9,993	9,967	11,152	10,494	10,568	8,954	7,258
Total buildings	44,294	3,183	3,148	3,353	3,599	3,768	4,211	4,084	4,267	4,005	3,837	3,603	3,236
Housing and redevelopment	3,424	290	261	278	304	285	323	282	292	289	295	257	268
Educational	20,776	1,466	1,476	1,571	1,622	1,709	1,985	2,085	2,212	1,952	1,706	1,578	1,414
Hospital	2,940	206	214	226	256	245	254	260	219	292	273	258	236
Other ¹	17,153	1,220	1,196	1,277	1,416	1,528	1,648	1,457	1,544	1,472	1,564	1,510	1,319
Highways and streets	35,020	1,429	1,293	1,700	2,133	3,075	3,528	3,800	4,525	4,130	4,189	3,059	2,159
Conservation and development	1,997	147	150	171	178	197	198	150	191	149	157	160	148
Other state and local construction	22,504	1,389	1,384	1,481	1,772	1,881	2,056	1,933	2,168	2,209	2,384	2,133	1,714
Sewer systems	8,557	573	539	616	612	686	821	717	812	842	845	824	672
Water supply facilities	4,695	323	326	299	336	358	394	437	471	415	484	467	385
Miscellaneous nonbuilding ²	9,252	493	518	566	825	838	841	779	886	952	1,056	841	658
Federal construction	14,214	1,081	1,011	1,269	1,113	1,226	1,222	1,169	1,257	1,782	779	1,164	1,142
Total buildings	5,390	412	418	476	414	520	464	414	444	634	316	449	428
Housing	503	20	31	35	24	41	44	42	46	56	50	69	45
Industrial	1,348	112	113	122	116	112	106	110	109	160	86	104	98
Educational	24	1	2	1	1	4	2	1	2	5	2	-	3
Hospital	931	71	75	76	73	102	81	67	70	110	46	81	79
Other federal buildings ³	2,584	209	197	241	200	260	233	194	217	302	133	195	203
Highways and streets	283	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,728	202	163	259	204	224	238	231	237	325	140	241	264
Conservation and development	3,781	271	283	342	280	270	320	350	402	542	161	286	274
Miscellaneous nonbuilding ⁴	2,032	181	133	177	196	186	170	144	140	250	131	165	158

See footnotes at end of table.

Table 10b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1996												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	107,169	6,552	6,064	6,636	7,981	9,371	9,797	10,572	10,944	10,981	11,059	9,493	7,719
Total buildings	45,689	3,278	2,946	3,240	3,492	3,889	3,944	4,155	4,361	4,337	4,225	4,125	3,696
Housing and redevelopment	3,374	271	235	236	236	290	257	291	276	349	337	324	271
Educational	21,024	1,384	1,286	1,442	1,535	1,741	1,864	2,083	2,257	2,034	1,906	1,864	1,629
Hospital	3,036	260	236	241	248	236	264	243	225	293	284	239	268
Other ¹	18,255	1,363	1,189	1,321	1,472	1,622	1,559	1,539	1,603	1,662	1,698	1,698	1,529
Highways and streets	36,157	1,574	1,571	1,697	2,369	3,180	3,554	4,108	4,143	4,273	4,305	3,119	2,264
Conservation and development	1,922	115	128	136	148	147	165	177	188	183	205	192	138
Other state and local construction	23,401	1,584	1,419	1,563	1,972	2,156	2,134	2,132	2,252	2,188	2,324	2,056	1,620
Sewer systems	9,260	616	579	648	790	821	793	767	919	854	971	834	668
Water supply facilities	5,187	310	323	333	442	462	461	453	451	477	589	481	406
Miscellaneous nonbuilding ²	8,954	658	518	582	740	873	881	911	882	857	764	742	547
Federal construction	13,519	1,066	1,008	1,104	1,160	1,256	1,161	1,127	1,108	1,752	808	1,041	928
Total buildings	5,430	430	416	451	446	515	468	468	418	616	320	442	441
Housing	585	46	38	39	46	69	50	55	48	58	39	52	43
Industrial	1,214	91	91	109	106	112	113	112	115	160	52	78	75
Educational	11	1	-	1	1	1	1	1	1	1	2	2	-
Hospital	1,013	56	93	108	108	124	66	85	63	105	50	64	92
Other federal buildings ³	2,608	237	193	195	185	208	238	215	191	292	179	246	230
Highways and streets	325	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,317	231	187	190	198	204	193	176	177	248	156	181	178
Conservation and development	3,412	229	211	258	292	298	293	285	323	592	175	242	214
Miscellaneous nonbuilding ⁴	2,034	162	183	189	203	212	175	162	148	259	117	146	76

See footnotes at end of table.

Table 10b. Annual and Monthly Value of Public Construction Put in Place: 1995-1997—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1997												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	112,687	6,606	6,761	7,521	8,464	9,428	10,589	11,283	11,892	11,459	11,362	9,387	7,935
Total buildings	48,379	3,416	3,420	3,700	3,874	3,942	4,367	4,536	4,606	4,467	4,510	3,884	3,657
Housing and redevelopment	3,490	227	241	252	279	313	284	304	291	342	377	306	274
Educational	22,770	1,539	1,550	1,682	1,758	1,845	2,184	2,298	2,390	2,098	2,025	1,715	1,686
Hospital	3,193	242	230	261	301	250	278	318	276	293	293	233	217
Other ¹	18,926	1,408	1,399	1,504	1,536	1,535	1,622	1,616	1,648	1,733	1,815	1,629	1,480
Highways and streets	38,281	1,575	1,621	1,896	2,624	3,278	3,899	4,315	4,669	4,423	4,244	3,357	2,380
Conservation and development	1,964	127	122	157	174	138	160	169	192	186	213	174	152
Other state and local construction	24,063	1,488	1,598	1,768	1,792	2,070	2,163	2,263	2,425	2,383	2,395	1,972	1,746
Sewer systems	8,951	590	593	669	707	797	836	815	822	880	849	752	641
Water supply facilities	5,393	364	379	442	419	440	452	491	474	501	525	491	416
Miscellaneous nonbuilding ²	9,719	534	626	657	666	832	875	957	1,129	1,003	1,021	729	689
Federal construction	12,109	907	870	944	916	978	988	999	1,014	1,502	877	1,045	1,070
Total buildings	5,136	414	413	389	401	384	432	399	399	592	385	469	459
Housing	565	60	49	44	42	41	49	46	48	45	58	49	32
Industrial	842	76	68	75	95	62	80	77	67	82	46	54	58
Educational	16	-	1	3	1	1	2	1	2	3	-	-	2
Hospital	1,053	97	103	71	62	71	92	59	67	145	96	107	84
Other federal buildings ³	2,659	181	191	196	201	209	209	216	216	316	183	259	282
Highways and streets	325	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,223	175	149	167	162	187	193	203	210	236	172	202	168
Conservation and development	2,877	236	215	236	193	247	220	232	253	466	133	182	266
Miscellaneous nonbuilding ⁴	1,548	69	81	137	138	132	109	129	112	171	149	165	157

- Less than \$0.5 million. NA Not available, but estimates are included in total.

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.

Appendix A. Definitions

CONSTRUCTION

In this publication, construction includes the following:

1. New buildings and structures.
2. Additions, alterations, conversions, expansions, reconstruction, renovations, rehabilitations, and major replacements (such as the complete replacement of a roof or heating system).
3. Mechanical and electrical installations such as plumbing, heating, electrical work, elevators, escalators, central air-conditioning, and other similar building services.
4. Site preparation and outside construction of fixed structures or facilities such as sidewalks, highways and streets, parking lots, utility connections, outdoor lighting, railroad tracks, airfields, piers, wharves and docks, telephone and telegraph lines, radio and television towers, water supply lines, sewers, water and signal towers, electric light and power distribution and transmission lines, petroleum and gas pipelines, and similar facilities which are built into or fixed to the land.
5. Installation of the following types of equipment: boilers, overhead hoists and cranes, and blast furnaces.
6. Fixed, largely site-fabricated equipment not housed in a building, primarily for petroleum refineries and chemical plants, but also including storage tanks, refrigeration systems, etc.
7. Cost and installation of construction materials placed inside a building and used to support production machinery; for example, concrete platforms, overhead steel girders, and pipes to carry paint, etc. from storage tanks.

The following are excluded from construction:

1. Maintenance and repairs to existing structures or service facilities.
2. Cost and installation of production machinery and equipment items not specifically covered above, such as heavy industrial machinery, printing presses, stamping machines, bottling machines, and packaging machines; special purpose equipment designed

to prepare the structure for a specific use, such as steam tables in restaurants, pews in churches, lockers in school buildings, beds or X-ray machines in hospitals, and display cases and shelving in stores.

3. Drilling of gas and oil wells, including construction of offshore drilling platforms; digging and shoring of mines (construction of buildings at mine sites is included); work which is an integral part of farming operations such as plowing and planting of crops.
4. Land acquisition.

VALUE OF CONSTRUCTION PUT IN PLACE

The “value of 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. Cost of architectural and engineering work.
5. Miscellaneous overhead and office costs chargeable to the project on the owner’s books.
6. Interest and taxes paid during construction (except for state and locally owned projects).

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, published estimates represent payments made during a period rather than the value of work actually done during that period. For other categories, estimates are derived by distributing the total construction cost of the project by means of historic construction progress patterns.

CLASSIFICATION OF CONSTRUCTION

The following descriptions are used in classifying construction projects. Projects are classified as privately owned or government owned (state, local, or federal government). The distinction is made on the basis of ownership during the construction period.

Categories of Private Construction

Residential Buildings

New housing units includes new houses, apartments, condominiums, and townhouses. The classification excludes residential units in buildings which are primarily nonresidential. It also excludes mobile homes and houseboats.

Improvements includes remodeling, additions, and major replacements to properties subsequent to completion of original building. It includes construction of additional housing units in existing residential structures, finishing of basements and attics, modernization of kitchens, bathrooms, etc. Also included are improvements outside of residential structures, such as the addition of swimming pools and garages, and replacement of major equipment items such as water heaters, furnaces and central air-conditioners. Maintenance and repair work is not included.

Nonresidential Buildings

Industrial includes all buildings and structures at manufacturing sites. Office buildings and warehouses owned by industrial companies but not constructed at an industrial site are classified as "office" and "other commercial" respectively.

Office includes office and professional buildings used primarily for office space. Office buildings built by public utilities for their own use are included in "public utilities." Office buildings at industrial sites are classified as "industrial"; however, an office building owned by an industrial company and not located at an industrial site is classified as "office."

Hotels, motels includes hotels, motels, resort lodging, tourist courts and cabins, and similar facilities.

Other commercial includes buildings and structures which are intended for use by wholesale, retail, or service trade establishments. For example, shopping centers or malls, department stores, low-rise banks and financial institutions, drug stores, parking garages, auto service stations and repair garages, beauty schools, grocery stores, restaurants, and dry cleaning stores are included in this category. Also included are warehouses and storage buildings, cold storage plants, grain elevators and silos, except such facilities at industrial sites.

Religious includes houses of worship and other religious buildings. Certain buildings, although owned by religious organizations, are not included in this category. These include educational or charitable institutions, hospitals, and publishing houses.

Educational includes schools, universities and other academic buildings, and associated buildings (libraries, cafeteria, dormitories, student unions, etc.). Also included are noncommercial museums, art galleries, and similar establishments. Beauty schools and dance schools are classified as "other commercial."

Hospital and institutional includes health care and institutional facilities. Also included are sanatoria, convalescent and rest homes, nursing homes, orphanages, and similar establishments for prolonged care. Surgical or outpatient clinics affiliated with a hospital are also part of this category. Buildings which are used primarily for doctors' offices are classified as "office."

Miscellaneous nonresidential includes nonresidential buildings which are not classified in any of the above categories. Motion picture studios, theatres, casinos, health clubs, and buildings which provide amusement and recreational services are included. Also included are radio and television studios and bus and airline terminal buildings. Farm buildings and buildings owned by public utility companies for their own use are included in the "farm nonresidential" and "public utility" categories, respectively.

Farm Nonresidential

Farm nonresidential construction includes buildings and structures such as barns, storage houses, smokehouses, and fences which are constructed on establishments having annual agricultural sales of \$1,000 or more. Also included are land improvements such as land leveling, terracing, tile drainage, and the construction of dikes, ponds, flood control systems, and roads and lanes.

Public Utilities

For each of the public utility categories, construction expenditures are classified in terms of the industry rather than the function of the building or structure. Construction expenditures made by the following privately owned public utility companies or cooperatives are included in this category:

Railroad	Petroleum pipelines
Telephone	Electric light and power
Telegraph	Gas (manufacturing, transmission, and distribution)
Television cable	

The estimates include not only the type of construction peculiar to the operation of the utility, but also other types of nonresidential building and nonbuilding construction built by these companies for their own use, such as office buildings.

All Other Private

All other private construction includes all privately owned nonbuilding projects (other than built for public utility companies) which are not classified elsewhere, such as streets and bridges, parking areas not associated with a building project, dams and reservoirs, sewer and water facilities, golf courses, parks and playgrounds, and airfields.

Categories of Public Construction

Public construction is composed of two parts: state and local construction and federal construction.

State and Local Construction

Housing and redevelopment includes houses, apartment buildings, and all other residential structures.

Educational includes primary, secondary, college and university level educational buildings and associated buildings (libraries, dining halls, dormitories, student unions, etc.). Also included are buildings which serve an educational purpose, i.e., public libraries, museums, art galleries, planetariums, observatories, arboreta, botanical and zoological gardens, archives, conservatories, etc. This category does not include institutions for the handicapped or teaching hospitals which are classified as "hospitals."

Hospital includes health care and institutional facilities such as hospitals, clinics, and infirmaries. Also included are rest homes, nursing homes, sanatoria, psychiatric institutions, schools for the handicapped, orphanages, half-way homes, outpatient clinics, etc.

Other buildings includes general administrative buildings; police, fire, and rescue buildings; courthouses, jails and prisons; bus, streetcar, subway and railroad garages and barns, stations and related buildings; enclosed parking facilities; airport buildings; maritime transport, storage and terminal buildings; electric power generating buildings; amusement-recreational buildings; and other commercial, industrial, and miscellaneous buildings not elsewhere classified.

Highways and streets includes highways, streets, bridges, overpasses, tunnels, toll facilities, street lighting, and miscellaneous road construction.

Conservation and development includes all construction intended for water resources protection and control such as erosion control systems, fish hatcheries, spillways, levees, seawalls, waterfront bulkheads, jetties, river and harbor development, dredging and drainage, canals, irrigation facilities, docks, piers, wharves, berths, and reservoirs built other than for potable water supply.

Sewer systems includes storm drainage and sewerage system lines, interceptors, dry waste disposal plants, nonpotable water treatment plants and pumping stations, tunnels, outfalls, and all other sewer construction.

Water supply facilities includes potable water distribution systems and storage facilities such as water lines, aqueducts, water pumping stations, treatment plants, dams, reservoirs, artificial lakes, brooks, ponds, and water wells.

Miscellaneous nonbuilding construction includes open amusement and recreational facilities; power generating facilities; and other open construction (subway and streetcar construction, airport runways, open parking facilities, etc.).

Federal Construction

The value-in-place estimates for federal construction are classified into nine separate categories defined below. In general, classification is based on the agency responsible for the work; for example, Veterans Administration expenditures are classified as "hospital" and Bureau of Reclamation expenditures are classified as "conservation and development." However, the expenditures reported by a few agencies are subdivided into two or more types of construction.

Housing includes new family housing units and the rehabilitation of existing units constructed for the armed services. Military barracks, bachelor officers' quarters and family housing for Coast Guard personnel are classified under "military facilities." Housing for forest rangers and national park employees is classified under "conservation and development."

Industrial includes construction done at Department of Energy research and development facilities. It also includes manufacturing, assembling and processing buildings and their related facilities such as arsenals, ordnance works, and shipyards.

Educational includes academic and associated buildings, laboratories and science buildings, libraries, art galleries, and museums. Educational facilities built by the Department of Defense for its personnel are included under "military facilities." Federally owned schools on Indian reservations are included in this category.

Hospital includes health care and institutional facilities such as veterans' hospitals and clinics.

Other buildings includes general office buildings, customs houses, courthouses, jails and prisons, except such buildings owned by the Department of Defense.

Military facilities, with the specific exceptions noted below, covers construction owned by the Department of Defense and the Coast Guard. This category includes troop housing, administration and training buildings, warehouses, mess halls, recreation centers, educational facilities, airfields and airport buildings, missile sites, etc. The following specific types of construction owned by the Department of Defense are classified in the categories indicated in parentheses:

Family housing for the armed services (Residential)
Civil Works—Construction by Army Corps of Engineers
(Conservation and development)
Department of Defense owned industrial facilities
(Industrial)
Military hospitals (Hospitals)
Soldiers' Home (Miscellaneous construction)

Highways and streets includes streets, bridges, vehicular tunnels, viaducts, and forest and park roads owned by federal agencies other than the Department of Defense. Also included are the following built in connection with a federal road: culverts, drainage, erosion control, lighting, guard rails, and earthwork protective structures.

Conservation and development includes construction work done by agencies which are primarily engaged in the maintenance and supervision of natural resources such as the Army Corps of Engineers, Tennessee Valley Authority, and Bureau of Reclamation.

Miscellaneous construction includes federal airport facilities, fish and wildlife preservation facilities, Veterans Administration cemeteries, etc.

Appendix B.

Data Sources, Assumptions, and Methods

INTRODUCTION

This appendix describes the sample design and estimation procedures used to develop current estimates of value of construction put in place.

Value-in-place estimates are not published separately for individual series until data for the series are available. Therefore, publication of separate estimates is limited to quarterly data if the series is quarterly, and to annual data if the series is annual; however, projected or interpolated monthly estimates from these series are included in the monthly totals but are not shown separately.

PRIVATE RESIDENTIAL BUILDINGS

New One-Unit Housing

Construction cost of new one-unit houses started each month is estimated using data from the Census Bureau's Housing Starts Survey and Housing Sales Survey. The estimated cost of all single units started is then distributed into monthly value put in place by applying fixed patterns of monthly construction progress. The patterns are shown in Table B-1.

Construction cost is estimated separately for units built to be sold or rented and units built by the owner or for the owner on contract. In both cases, the total cost is obtained by multiplying the number of units started by an average construction cost per unit. For units built to be sold or rented, the average construction cost is the average sales price at the time of start multiplied by the factor .7813. This factor eliminates an estimate of the cost of "nonconstruction" items such as raw land, marketing costs, closing costs, and movable appliances. The average construction cost for units built for the owner on contract is the average contract value at time of start increased by the factor 1.0190 to eliminate "nonconstruction" items and add the value of land development not already accounted for.

New Two-or-More-Unit Buildings

A subsample of new residential building projects with two units or more is selected from the Census Bureau's Housing Starts Survey (HSS). A description of this survey is provided in Current Construction Reports, C20/98-1 *Housing Starts*, issued March 1998.

Once a project is selected, monthly construction progress reports are requested from the owner until the project is completed. About 2,350 projects are in the

survey each month. This number includes newly selected projects as well as projects carried over from the previous months. Estimates of value put in place are obtained by multiplying the final weight of each project by the reported value and summing all projects. The final weight can be expressed as follows:

Final weight = (basic weight) x (unit adjustment factor)
x (adjustment factor for architectural, engineering, and miscellaneous costs).

- a. **Basic weight.** The basic weight is the reciprocal of the probability of selection. Since the projects in the Two Plus Survey are a subsample of the HSS sample, the basic weight includes the reciprocal of the sampling rate used in HSS.
- b. **Unit adjustment factor.** The unit adjustment factor is the ratio of the unbiased estimate obtained from the Census Bureau's Building Permits Survey of the number of 2+ units authorized in a month to the unbiased estimate from the Two Plus Survey of the number of 2+ units authorized in a month.
- c. **Adjustment for architectural, engineering, and miscellaneous costs.** The value put in place for the construction of a project includes the total construction cost and fees for architectural and engineering services and miscellaneous costs. However, monthly reports from sample projects do not include architectural, engineering, and miscellaneous costs. Each month's reported value is inflated to account for these costs so that the sum of the values put in place each month is the total cost of the project. This adjustment factor is defined as the ratio of the total estimated value of the project reported by the owner (construction cost and architectural, engineering, and miscellaneous costs) to the estimated construction cost of the project reported by the owner.

Improvements

Data for this series are obtained by the Census Bureau from household interviews in a representative sample of owner-occupied units and a mail survey of owners of a sample of rental or vacant properties. Prior to 1985, these data were collected as part of the Bureau's Quarterly Household Survey of Residential Alterations and Repairs. Beginning with January 1984 statistics, estimates of expenditures on owner-occupied

properties are based on data from the Consumer Expenditure Surveys (CES) conducted by the Bureau of the Census for the Department of Labor's Bureau of Labor Statistics. A detailed description of this survey and the mail survey and a comparison of the old and new series for 1984 appear in Construction Reports, C50-85-Q1, *Residential Alterations and Repairs*, issued in October 1985. The CES was designed to provide the Bureau of Labor Statistics with a database for purposes relating to the Consumer Price Index. This survey was not designed to provide monthly estimates of residential improvements. As a result, these estimates have high variances and are not shown separately in the tables of monthly estimates.

Data from owner-occupied units are collected through a rotating panel survey design. There are three panels: one panel is interviewed during the first month of a quarter, another panel during the second month and a third panel during the last month. Each panel reports on improvements done since the previous interview 3 months ago; thus, an expenditure may be reported in the month of interview, the month before, 2 months before or 3 months before, but after the previous interview. Data collection for expenditures in a month will not be completed until 3 months after the month and an estimate based on all of the data will not be available until approximately 5 months after the month.

Data from the mail survey of owners of a sample of rental or vacant properties are collected after the end of each quarter. The expenditures are not reported for each month of the quarter but only for the entire quarter. For this report, monthly estimates need to be made by apportioning the quarterly expenditures to the months in the quarter. The quarterly estimate is available 4 months after the end of the quarter and accounts for about 24 percent of the estimate.

The estimates of total residential improvements are usually forecasted data at least 1 or 2 months in advance. The revised estimates are still based on incomplete data and in many cases are still forecasts. Estimates based on complete data are first used in the May publication for revisions to the previous year. The total improvements estimates are subject to substantial revisions from the preliminary estimates based on forecasts to the final estimates based on complete data. The final estimates have relative standard errors approximating 15 percent. For estimates beginning in 1982, time series techniques have been used to remove the sampling variation.

PRIVATE NONRESIDENTIAL BUILDINGS

The Bureau of the Census conducts a monthly Construction Progress Reporting Survey for estimating the value of private nonresidential building construction in the United States. This survey uses three sources of information for identifying nonresidential building projects:

1. Data from the F.W. Dodge Division of the McGraw-Hill Information Systems Company on projects valued at \$50,000 or more in the United States except Hawaii.
2. Building permit notifications for a sample of projects in the permit-issuing places of Honolulu, Maui, Kauai and Hawaii county in Hawaii.
3. Projects in a sample of areas not covered by building permit systems or reported by Dodge.

Projects from sources 1 and 2 are stratified by type of construction and construction value. Sixty-six strata are created and each stratum is assigned a specific sampling rate. Of the 66 strata, 22 are certainty strata and have a sampling rate of 1-in-1. Within each of the remaining 44 non-certainty strata, a systematic sample of projects is selected each month continuing from the sample selected from the previous month. Projects from source 3 (nonpermit areas) are selected with virtual certainty. Once a project is selected, monthly construction progress reports are requested from the owner until the project is completed. About 7,500 projects are in the survey at any one time.

Estimates of value put in place are obtained by multiplying the final weight of each project by the monthly reported value and summing all projects. The final weight can be expressed as the product of the following:

$$\text{Final weight} = (\text{basic weight}) \times (\text{outlier adjustment factor}) \times (\text{adjustment factor for architectural, engineering, and miscellaneous costs})$$

- a. **Basic weight.** The basic weight varies with each source and project.
 1. For projects from sources 1 and 2, the basic weight is the reciprocal of the probability of selecting a project.
 2. For projects from source 3, the basic weight is the reciprocal of the probability of selecting a nonpermit segment.
- b. **Outlier adjustment factor.** This factor reduces the influence on the VIP of an extreme noncertainty observation that reports an extremely large total construction value.
- c. **Adjustment factor for architectural, engineering, and miscellaneous costs.** This factor is computed in the same manner as in the Two Plus Survey (see above).

Imputations are made for projects which have not reported at the time of the monthly tabulation, based on estimated total construction value and month of start of the project. Weighted data are summed over all sample

projects by type of construction. The results are increased by 28 percent to account for undercoverage of construction projects not reported by F.W. Dodge. The adjustment for undercoverage results from comparison studies of Dodge reports with building permits for a sample of projects for which permits were issued.

The industrial buildings category is further adjusted by benchmarking the tabulated estimates to the latest detailed structures data from the Census Bureau's Annual Capital Expenditures Survey (ACES). The 1992 and 1994 levels for industrial buildings are based upon actual ACES data. Estimates for other years are extrapolations from the 1992 and 1994 levels.

FARM NONRESIDENTIAL CONSTRUCTION

Value-in-place estimates for new farm nonresidential construction are extrapolated from the annual U.S. Department of Agriculture (USDA) report, *Income and Balance Sheet Statistics*. Monthly or quarterly estimates are not available.

To estimate monthly values, including projections for the current and following year, the USDA data are developed using the trend of the "all other private" construction put-in-place estimates.

PUBLIC UTILITIES

Value-in-place estimates for the telephone component of telecommunications construction are based on reports of actual monthly construction progress. For the TV cable component of telecommunications, electric light and power, gas, railroad, and petroleum pipeline categories, construction put in place estimates are based on annual capital expenditure reports compiled by federal regulatory agencies and private organizations.

Pending availability of annual data, monthly estimates for railroads are obtained by distributing Surface Transportation Board quarterly construction expenditures estimates into monthly values. Preliminary monthly estimates for TV cable, electric, and gas construction are based on annual forecasts from Paul Kagan Associates, Inc., the Edison Electric Institute, and the American Gas Association; and petroleum pipeline estimates are projections from the latest final year of Federal Energy Regulatory Commission data. Monthly estimates are published only for telecommunications; however, estimates for other public utilities are included in the appropriate totals.

ALL OTHER PRIVATE CONSTRUCTION

Beginning with data for May 1995, estimates for this series are based upon a monthly sample survey of projects. The information for creating the sampling frame is obtained from the same F.W. Dodge data used for private nonresidential buildings (see above). Once a project is selected it remains in the survey until completion of the project, and monthly progress reports are

requested from the owner. Tabulation of data is the same as for private nonresidential buildings. The results are also increased by 28 percent to account for projects not reported by F.W. Dodge.

Prior to May 1995, monthly estimates for this series are indirectly measured using Dodge contract awards statistics and construction progress patterns.

PUBLIC CONSTRUCTION

Public construction is composed of two parts: State and local construction and federal construction.

State and Local

The information for creating the sampling frame for the state and local survey is obtained from the same F.W. Dodge data used for private nonresidential buildings (see above).

The projects are stratified by type of construction and value according to the information from Dodge. Seventy-two strata are created and a sampling rate is assigned to each stratum. Of the 72 strata, 16 are certainty strata. Within each of the remaining 56 non-certainty strata, a systematic sample of projects is selected each month continuing from the sample selected from the previous month. Once a project is selected it remains in the survey until completion of the project, and monthly construction progress reports are requested from the appropriate agency in charge of the project or its designated agent, such as the builder or architect responsible for the project. The average number of projects in the survey at any one time is about 9,150. These include newly selected projects as well as projects carried over from previous months.

Tabulation of data is the same as for private nonresidential buildings. The results are increased by 5 percent to account for construction projects not reported by F.W. Dodge. This adjustment results from a comparison study of Dodge reports with state and local agency reports for a sample of projects for which contracts were awarded or force account work started.

All data are further adjusted by benchmarking the tabulated estimates to annual construction expenditures data collected in the Census Bureau's Annual Survey of Government Finances.

Federal

Monthly value-in-place estimates for federally owned construction are based on monthly data which, with few exceptions, are supplied to the Census Bureau by each federal agency involved in construction activities. Information is obtained from federal budget documents for a small number of agencies where information cannot be directly supplied. These budget totals are prorated over the fiscal year to derive monthly estimates.

Table B-1. **Monthly Progress Patterns for Private One-Unit Residential Buildings by Month of Start**

[Percent of the value of units started monthly]

Month of activity ¹	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1st	15.8	15.8	15.8	15.8	15.9	16.9	16.9	16.9	16.9	16.9	16.9	15.8
2nd	21.7	23.2	22.5	22.5	22.9	23.8	23.8	23.8	23.8	23.8	21.7	21.7
3rd	21.0	20.1	20.8	20.8	20.8	20.8	20.8	20.8	20.8	18.3	18.3	18.3
4th	16.3	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.7	13.7	13.7	16.8
5th	10.6	10.3	10.3	10.3	10.3	9.5	9.5	8.8	8.8	8.8	11.7	11.7
6th	6.1	6.1	6.1	6.1	6.1	5.8	5.8	5.1	5.1	7.4	7.6	6.7
7th	3.5	3.5	3.5	3.5	3.5	2.7	2.7	2.7	4.3	4.8	4.3	4.0
8th	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.5	2.8	3.3	2.8	2.0
9th	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	1.2	1.2	1.2
10th	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
11th	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
12th	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

¹Month of start is first month of activity.

Appendix C.

Reliability of the Estimates

The statistics on the value of 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 construction in 1997 (private multi-family residential, private residential improvements, private nonresidential buildings, farm nonresidential construction, public utility construction, all other private construction, and virtually all of public construction). On a monthly basis, directly measured data are available for about 56 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 Table C-1. 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 Table C-1, 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.

Table C-1 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.

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, 45 percent; state and locally owned public construction, 33 percent; private residential construction of 2 units or more, 47 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 locally 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 1995. (Outlays are included if a government agency's fiscal year ending date falls within July 1994 to June 1995 inclusive, and

for three state agencies with fiscal years ending in August or September 1995.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for 4 years from 1995 through April 1999. 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 locally 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 construction, the range of the difference between the last 12 preliminary and second revision estimates for the same months was from 0.1 percent to 1.7 percent with a median of 0.5 percent (see Table C-2). The range of the difference between first revision and second revision was from -0.4 to 0.5 percent, with a median of 0.0 percent.

Table C-1. 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 construction	2	2	1	.03	.02
Private construction	3	2	1	.04	.03
Residential buildings	5	3	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	1	1	.02	.01
Industrial	3	2	2	.04	.03
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	5	5	.10	.07
Hospital and institutional	6	5	5	.07	.07
Miscellaneous buildings	7	5	4	.09	.07
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	5	4	.08	.07
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	2	2	.04	.03
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	10	9	.23	.14
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 1997 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.

Table C-2. Analysis of Revisions to Monthly Seasonally Adjusted Annual Rate Estimates in Current Dollars

Type of construction	Percent changes between estimates - last 12 months					
	Preliminary versus second revision			First revision versus second revision		
	Range		Median	Range		Median
	From	To		From	To	
Total construction	0.1	1.7	0.5	-0.4	0.5	0.0
Private construction	-0.1	2.4	0.6	-0.7	0.8	0.1
Residential buildings	-0.4	2.6	0.1	-0.2	2.3	0.0
New housing units	-0.4	1.3	0.3	-0.3	0.6	0.0
1 unit	-0.6	1.3	0.1	-0.3	0.6	0.1
2 units or more	-4.7	4.8	0.7	-2.3	2.9	-0.3
Nonresidential buildings	-0.3	4.8	0.8	-3.0	2.4	-0.3
Industrial	-6.2	7.5	0.7	-4.6	6.3	-1.7
Office	-4.3	7.5	2.9	-4.3	3.4	-0.7
Hotel, motel	-12.6	13.7	-2.5	-6.9	9.5	-3.5
Other commercial	-1.0	6.9	2.2	-3.6	5.9	1.9
Religious	-6.6	3.1	-0.3	-4.5	2.9	-1.3
Educational	-4.6	6.8	-0.1	-3.6	4.1	-1.0
Hospital and institutional	-3.9	3.8	1.1	-2.6	2.0	0.1
Miscellaneous buildings	-0.6	9.5	3.7	-5.0	3.2	0.9
Telecommunications	-6.6	7.1	-0.3	-4.2	5.7	-0.1
All other private	-4.4	9.1	1.7	-9.0	5.6	0.6
Public construction	-1.8	3.5	0.6	-1.6	0.6	-0.2
Housing and redevelopment	-3.9	16.1	-0.6	-11.1	3.2	-0.7
Industrial	-20.5	1.0	-1.1	-1.6	0.5	-0.4
Educational	-2.3	4.0	1.2	-3.6	1.3	0.0
Hospital	-1.3	26.5	1.5	-3.9	6.9	0.1
Other public buildings	-2.6	6.7	-0.2	-2.4	2.8	0.0
Highways and streets	-4.7	8.5	-0.1	-1.8	0.6	-0.6
Military facilities	-9.6	2.4	-0.7	-4.4	3.2	-0.1
Conservation and development	-13.5	17.3	0.1	-3.4	3.6	0.6
Sewer systems	-3.5	6.3	-1.7	-1.8	1.3	-0.5
Water supply facilities	-6.3	4.8	2.7	-2.4	2.9	-1.2
Miscellaneous public	-5.1	8.3	3.8	-10.3	4.8	1.2

Appendix D.

Adjustments for Seasonal Variations and Cost Changes

ADJUSTMENT FOR SEASONAL VARIATIONS

Seasonally adjusted estimates result by removing normal seasonal movement from the unadjusted data to bring out underlying trends and business cycles. Seasonal adjustment accounts for month-to-month variations resulting from normal or average changes in any phenomena affecting the data such as weather conditions, the differing lengths of months, and the varying number of weekdays and weekends within each month. It neither adjusts for abnormal conditions within each month nor for year-to-year variations in weather. For example, suppose the normal month-to-month change in an unadjusted series between February and March is 20 percent. Then an increase in the unadjusted series of less than 20 percent will be seen as a decrease in the seasonally adjusted series; an increase of exactly 20 percent will result in no change in the adjusted series; and an increase of more than 20 percent will be shown as an increase in the adjusted series.

An assumption underlying the seasonal adjustment process is that the original series can be separated into a seasonal component, a trend-cycle component, a trading day component, and an irregular component. The seasonally adjusted series consists of the trend-cycle and the irregular components taken together. The trend-cycle component includes the long-term and business cycle. The irregular component is made up of residual variations such as the sudden impact of political events, the effects of strikes, unusual weather conditions, reporting errors, and sampling errors. The trading-day component represents the effect due to the varying number of weekdays and weekends in each month. The seasonally adjusted monthly rate is found by dividing the unadjusted monthly estimate by its seasonal component and trading day components.

The seasonally adjusted annual rate is the seasonally adjusted monthly rate multiplied by 12. It is neither a forecast nor a projection. Rather it is a description of the annual rate at which construction is put in place in that particular month. Changes in the seasonally adjusted estimates may indicate changes in the trend or rate of construction put in place, but changes in the unadjusted estimates may be strictly due to seasonal variation. Seasonally adjusted annual rates facilitate comparisons with previous annual data as well as with the seasonally adjusted annual rates for prior months.

To obtain seasonally adjusted estimates or seasonal factors the unadjusted data are run through X-12-ARIMA, an enhanced version of the X-11 variant of the Census Method II seasonal adjustment program. A description of the X-12-ARIMA program appears in the "New Capabilities and Methods of the X-12-ARIMA Seasonal Adjustment Program" by David F. Findley et al. of the U.S. Bureau of the Census. Table D-1 provides a description of the components found in seasonally adjusted series. Further information on X-12-ARIMA may be obtained from the Associate Director for Methodology and Standards, Bureau of the Census, Washington, DC 20233.

Each monthly series is run through the X-12-ARIMA program every month as new data become available. This procedure, known as concurrent seasonal adjustment, utilizes the current month estimate to calculate that month's seasonal adjustment factor. Several studies indicate that use of the most current data to estimate seasonal factors is generally effective; the seasonal factors are subject to less revision. Table D-2 shows the past 11 months and the year ago seasonal factors.

As the unadjusted data are revised, so are the seasonal factors. Thus, changes in seasonally adjusted estimates will not only reflect changes in the unadjusted data, but also changes to the seasonal factors. In addition, the seasonally adjusted data are revised back for 3 years each year with the release of May data.

ADJUSTMENT FOR COST CHANGES

The monthly value-in-place estimates in current dollars are converted to a constant 1992 dollar series using cost indexes derived for each category of construction. The deflators for the various categories are related indexes or combinations of related indexes from private companies and Federal agencies. The selection of the indexes and procedures used for developing the deflators for each category resulted primarily from recommendations made jointly by the Bureau of Economic Analysis and the Bureau of the Census.¹

The index or combinations of indexes which apply to the individual categories of construction are shown in Table D-3. These indexes are indicated in the column headed "Applicable deflating index."

¹A description of the deflators and their development appears in Part 1 of the August 1974 issue of the *Survey of Current Business*, U.S. Department of Commerce.

Since most of the indexes were originally compiled for different base years, all indexes were converted to the 1992 dollar base (1992=100).

Indexes which are available quarterly or semiannually are linked with a "monthly trend index" shown in Table D-3. The results are monthly indexes which have the movement of the monthly trend index and the level of the quarterly or semiannual index.

Table D-4 shows the indexes used to deflate value put in place. The source and description of each index follow:

Bureau of the Census Composite Fixed-Weighted Price Index (Source: Bureau of the Census, U.S. Department of Commerce, Washington, DC)

The composite index is a weighted average of the individual price index series used to deflate the value-in-place series. In calculating the index each month, the weights (the composition of current dollar value-in-place in 1992 by category of construction) are held constant. Consequently, the index reflects only changes in prices. The composite index is calculated using the Bureau of the Census Single-Family Houses Under Construction Fixed-Weighted Price Index.

The annual index is an average of the monthly indexes. Monthly and annual indexes are shown in Table D-5.

Bureau of the Census Implicit Price Deflator (Source: Bureau of the Census, U.S. Department of Commerce, Washington, DC)

The implicit price deflator is a derived ratio of total current to constant dollar value put in place (multiplied by 100). It is the average of the individual price indexes used in the deflation of value put in place, but the indexes are weighted by the changing composition of value put in place each month. Consequently, the implicit price deflator reflects not only changes in prices, but also changes in the composition of value put in place, and its use as a measure of price change is discouraged. Monthly and annual deflators are shown in Table D-6.

Engineering News-Record Indexes (Source: *Engineering News-Record*, McGraw-Hill Publishing Company, New York, NY)

Engineering News-Record (ENR) compiles monthly national cost indexes with 1913 as the base period for total construction and for buildings.

Both the construction index and the building index have four components—three materials items plus labor. The materials items for both indexes are as follows: 1) the base price of structural steel, which is a 20-city average of wholesale prices; 2) consumers' net price of cement, which is a 20-city average of f.o.b. bulk prices; 3) lumber, which is 2" x 4" S4S pine and fir in carload lots (ENR 20-city average). The labor component of the construction cost index, which is designed to show the

movement of construction cost in general, is the common labor rate (ENR 20-city average), while the labor component of the building cost index is the skilled labor rate (ENR 20-city average).

The component series are weighted according to their relative importance as determined by the compilers. As a step in arriving at the weights, the average production of steel and cement in the years 1913, 1916, and 1919; average production of lumber for 1913 and 1916; and the number of common industrial laborers according to the 1919 Census were placed on a dollar-value basis using 1913 average prices as compiled by ENR wherever possible.

A complete description of the quantities and unit prices or labor rates used in developing the weights for the materials and labor components of both indexes is published in *Business Statistics*, 1963 Edition, a supplement to the *Survey of Current Business*, published by the Office of Business Economics (now the Bureau of Economic Analysis), U.S. Department of Commerce.

Annual indexes are averages of the monthly indexes.

More information about the indexes can be found on the ENR Internet site at <http://www.enr.com/cost/costf.htm>.

Federal Highway Administration Composite Index (Source: Federal Highway Administration, U.S. Department of Transportation, Washington, DC)

The composite index is compiled quarterly with 1987 as the base period. The index is derived from average unit bid prices for fixed amounts of the following items put in place: common excavation, surfacing (portland cement concrete and bituminous concrete), and structures (reinforcing steel, structural steel, and structural concrete).

To eliminate erratic quarter-to-quarter movement in the Federal Highway Administration composite index, the quarterly index is adjusted with the application of 12-quarter phasing patterns based upon highway construction activity.

The annual index is a weighted average of the indicator items for the composite index.

Bureau of the Census Single-Family Houses Under Construction Fixed-Weighted Price Index (Source: Bureau of the Census, U.S. Department of Commerce, Washington, DC)

This price index is designed to measure changes over time in the price of new single-family houses under construction each month and year. It is calculated using the "hedonic" or regression methodology whereby physical characteristics of new houses are regressed against house values to obtain "prices" of those characteristics. These prices can then be used in an index calculation such that "quality" of new houses is kept constant and inflation measured.

The index is based on the Laspeyres index methodology which compares the current period construction value of the kinds of houses built in the base year (1992) to the actual houses built in 1992. In effect, a fixed market basket of goods is repriced each time period, and the index reflects only changes in prices.

The price index is computed from information on the physical characteristics and transaction prices obtained from the Census Bureau's Housing Starts and Sales Surveys. The annual index is computed independently of the monthly indexes, and may not equal the average of the monthly indexes.

Detailed information on the methodology used to calculate this index is available upon request.

Bureau of the Census Single-Family Houses Under Construction Price Deflator (Source: Bureau of the Census, U.S. Department of Commerce, Washington, DC)

The index is calculated based on the same data and regression analysis described above under the Bureau of the Census Single-Family Houses Under Construction Fixed-Weighted Price Index. In the calculation of the deflator index series, however, the Fisher ideal chain-type annual-weighted index methodology is employed in place of the Laspeyres.

Fisher ideal chain-type annual-weighted indexes are computed by multiplying annual components together, called index relatives. The index relative is the geometric mean of a Laspeyres index and a Paasche index. The Laspeyres index compares the current year construction value of the houses built in the previous year to the actual value of the previous year's construction value of these same houses.

For years following the base year, the index is computed by multiplying the relatives. For years prior to the base year, the index is found by dividing the relatives.

Monthly Fisher ideal indexes are derived by distributing the annual indexes into monthly indexes based on a month-to-month change in the Single-Family Houses Under Construction Paasche Index.

Because the chain-type Fisher ideal index addresses the substitution effects which can bias the more traditional index measures, this index is the preferred index for use as a price deflator.

Bureau of Reclamation Composite Index (Source: Bureau of Reclamation, U.S. Department of Interior, Denver, CO)

The index is compiled quarterly with 1977 as the base period. The Bureau of Reclamation composite index for dams and reclamation projects reflects the Bureau of Reclamation's cost of constructing these projects in 17 Western States. The index is a weighted average of costs of labor, materials, and equipment furnished by

contractors and the government. When possible, labor and materials costs are based on unit bid prices from contracts let by the Bureau of Reclamation. These data are supplemented by components of the Federal Highway Administration index, Bureau of Labor Statistics wholesale indexes, quotations of wage rates published in *Engineering News-Record* and judgment of Bureau of Reclamation analysts.

For 11 categories of reclamation work listed below, basic cost components have been defined and relative weights for each of these components derived from contracts awarded during the period 1930-46. This is a fixed weight index with weights determined within each category for labor, materials, and equipment furnished by contractors and the government.

The major categories of work which make up the composite index are—dams, pumping plants, steel penstocks and discharge pipes, canals and conduits, laterals and drains, hydroelectric power plants, concrete pipelines, switchyards and substations, transmission lines, general property (buildings), and roads and bridges.

The Census Bureau computes an annual index by averaging the quarterly indexes.

Turner Construction Company Index (Source: Turner Construction Company, New York, NY)

This index is compiled quarterly with 1967 as the base period. The index is a price index for national building construction costs and is derived from the firm's current cost experience with respect to the following factors considered on a nationwide basis: labor rates and productivity, material prices, subcontractor prices, and the competitive condition of the market place.

The annual index is an average of the quarterly indexes.

Handy-Whitman Indexes (Source: Computed by Bureau of the Census from data compiled by Whitman, Requardt and Associates, Baltimore, MD)

Whitman, Requardt and Associates compile semiannual (January and July) cost indexes for various elements for four types of construction—utility buildings, electric light and power plants, gas plants, and water—within six geographical regions. The base period for the utility indexes is 1973. The Census Bureau computes semiannual national average indexes for the types of construction as follows:

Utility Buildings. The national average is a simple average of indexes for reinforced concrete buildings and brick buildings in each of the six regions.

Electric Light and Power Plants. The national average is a simple average of indexes for total construction and equipment for steam operated electric plants in each of the six regions.

Gas. The national average is a simple average of indexes for total gas plants in each of the six regions.

Water. The national average is a simple average of indexes for structures and improvements at water facilities in each of the six regions.

Each of the original source indexes is based on prices for materials, labor costs, and prices of mechanical and electrical equipment. Prices of basic materials such as cement, sand, stone, cast iron pipe, wire, and the like are obtained from standard publications such as *Engineering News-Record* and checked against prices actually being paid for such materials. Labor cost trends are computed from labor rates obtained from sources such as the Construction Labor Research Council. Mechanical and electrical equipment prices and trends are obtained from nationally known manufacturers and operating utilities.

C.A. Turner Telephone Plant Index (Source: Computed by Bureau of the Census from data compiled by AUS Consultants Inc., Harrisburg, PA)

AUS Consultants developed an independent telephone plant index in 1977. This index had been published since then through affiliation with Whitman, Requardt and Associates as the Handy-Whitman Index of Public Utility Construction Cost for the telephone industry. As of January 1, 1990, Handy-Whitman no longer publishes the index which is now available only through C.A. Turner, the publications division of AUS Consultants.

The telephone plant index numbers cover each major FCC plant account and are published with 1973 as the base period at January 1 and July 1 price levels each year. Data from many operating companies and suppliers related to construction methods, plant investment, and component costs are analyzed and summarized as a basis for preparing the index.

The Census Bureau computes a semiannual national index by averaging the weighted component indexes published for the six geographic regions.

Table D-1. **Average Percentage Changes and Related Measures of Variability for the Value of Construction Put in Place**

Type of construction	Average percentage change				\bar{I}/\bar{C}	MCD
	\bar{O}	\bar{C}	\bar{I}	\bar{C}		
Total construction	6.11	1.19	0.98	0.62	1.58	2
Private construction	5.03	1.27	0.98	0.74	1.32	2
Residential buildings	6.71	1.56	0.77	1.21	0.64	1
Nonresidential buildings	4.20	2.15	1.83	0.93	1.97	3
Public construction	9.43	2.23	2.09	0.68	3.07	4
Buildings	5.36	2.62	2.49	0.90	2.77	3
Military facilities	15.94	7.70	7.30	1.87	3.90	4
Highways	19.72	4.14	3.87	1.18	3.28	4
Conservation and development	15.46	7.81	7.76	1.41	5.50	8
All other public	8.44	4.72	4.46	1.15	3.88	5

DEFINITIONS OF SUMMARY MEASURES

Summary measures of the seasonal, cyclical, and irregular components of the construction put in place series provide a rough guide for use in interpreting current percentage changes in the seasonally adjusted data. Detailed explanations of the basic method and definitions of the measures used appear in *Electronic Computers and Business Indicators*, Occasional Paper 57, National Bureau of Economic Research, New York, 1957.

The following are brief descriptions of the measures shown in Table D-1:

- \bar{O} is the average month-to-month percentage change (without regard to sign) in the original series before seasonal adjustment.
- \bar{C} is the average month-to-month percentage change (without regard to sign) in the seasonally adjusted figures.
- \bar{I} is the average month-to-month percentage change (without regard to sign) for the irregular component. The irregular component is obtained by dividing the cyclical component into the seasonally adjusted series.
- \bar{C} is the average month-to-month percentage change (without regard to sign) for the cyclical component, which is a smooth, flexible moving average.
- \bar{I}/\bar{C} is the average month-to-month percentage change (without regard to sign) of the irregular component divided by the average month-to-month percentage change (without regard to sign) of the cyclical component. It serves as an indication of the series' relative smoothness (small values) or irregularity (large values).
- MCD (months of cyclical dominance) gives an estimate of the appropriate time span over which to observe cyclical movements in a monthly series. In deriving MCD, the average percentage changes (without regard to sign) in the irregular and in the cyclical component are computed for 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 12-month spans. MCD is the shortest span for which the average percentage change (without regard to sign) in the cyclical component is larger than the average percentage change (without regard to sign) in the irregular component; thus, it indicates the point at which fluctuations begin to be more attributable to cyclical than to irregular movements.

Table D-2. Factors Used to Seasonally Adjust Estimates of the Value of Construction Put in Place

[Percent]

Type of construction	May 1998 ^P	Apr. 1998 ^f	Mar. 1998 ^f	Feb. 1998 ^f	Jan. 1998 ^f	Dec. 1997 ^f	Nov. 1997 ^f	Oct. 1997 ^f	Sep. 1997 ^f	Aug. 1997 ^f	July 1997 ^f	May 1997 ^f
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	101.9	95.4	90.2	76.1	81.2	88.6	106.5	111.8	114.5	115.1	112.8	101.4
2 units or more	105.5	98.7	95.1	88.1	87.1	95.0	100.7	104.9	105.0	109.2	104.4	106.4
Nonresidential buildings:												
Industrial	100.5	95.9	94.9	89.1	89.1	105.3	102.4	108.4	107.8	103.5	102.1	99.0
Office	102.7	100.3	95.7	92.1	91.2	97.5	101.3	104.7	105.1	105.0	102.0	102.7
Hotels, motels	103.0	105.5	100.0	93.1	91.2	99.4	98.7	99.9	103.0	99.2	100.8	107.4
Other commercial	99.8	94.3	89.1	82.6	83.5	94.8	103.1	113.7	114.9	111.2	106.7	100.1
Religious	93.0	94.1	92.9	87.1	90.3	103.9	110.1	113.9	114.2	104.8	100.7	96.5
Educational	100.6	95.1	88.9	82.0	83.2	86.3	93.9	100.8	108.2	119.7	123.4	102.2
Hospital and institutional	101.2	99.3	96.6	94.6	94.7	99.2	104.3	104.7	103.3	103.4	97.6	101.5
Miscellaneous nonresidential	99.8	103.2	99.2	88.2	87.4	96.4	105.1	107.8	105.6	103.0	101.5	99.6
Telecommunications	95.2	98.8	97.4	83.1	82.2	108.3	99.6	112.2	105.9	104.4	106.0	100.1
All other private	98.7	94.1	89.1	81.6	88.6	95.3	107.1	116.9	109.8	110.7	107.5	96.2
PUBLIC CONSTRUCTION												
State and local												
Buildings:												
Housing and redevelopment	104.0	95.8	92.5	85.6	93.2	95.9	105.7	115.9	115.0	100.1	102.4	104.6
Educational	97.9	92.1	86.2	81.0	82.8	86.5	96.0	104.2	113.6	128.4	120.8	97.8
Hospital	95.6	97.9	98.3	89.8	88.9	102.0	98.3	108.9	113.7	97.4	106.1	92.4
Other buildings	102.8	98.7	92.5	86.8	88.2	94.7	103.2	110.8	107.8	106.0	103.9	104.5
Highways and streets	102.6	79.8	58.6	49.1	50.6	75.9	102.0	140.3	141.0	143.7	136.3	103.0
Conservation and development	100.9	95.8	79.6	74.7	74.4	88.8	104.0	118.9	118.3	123.2	113.9	100.9
Sewer systems	98.5	95.7	85.6	77.5	82.2	92.5	105.8	117.4	118.0	114.4	108.2	100.4
Water supply facilities	102.6	95.2	84.7	80.5	81.2	94.8	109.6	119.3	109.0	109.6	109.4	102.4
Miscellaneous construction	100.9	95.8	79.6	74.7	74.4	88.8	104.0	118.9	118.3	123.2	113.9	100.9
Federal												
Buildings:												
Housing and redevelopment	101.8	99.1	95.3	90.2	95.0	102.9	94.0	86.1	134.6	96.3	97.1	105.6
Industrial	101.8	99.1	95.3	90.2	95.0	102.9	94.0	86.1	134.6	96.3	97.1	105.6
Educational	101.8	99.1	95.3	90.2	95.0	102.9	94.0	86.1	134.6	96.3	97.1	105.6
Hospital	101.8	99.1	95.3	90.2	95.0	102.9	94.0	86.1	134.6	96.3	97.1	105.6
Other buildings	101.8	99.1	95.3	90.2	95.0	102.9	94.0	86.1	134.6	96.3	97.1	105.6
Military	104.2	90.2	104.0	81.1	95.9	103.1	100.6	87.5	127.3	105.7	99.6	102.1
Conservation and development	103.3	95.5	97.7	85.5	85.2	93.1	94.3	70.8	165.2	108.0	101.3	102.2
Miscellaneous construction	103.3	95.5	97.7	85.5	85.2	93.1	94.3	70.8	165.2	108.0	101.3	102.2

^PPreliminary. ^fRevised.

Table D-3. **Sources of Cost Indexes Used to Derive Estimates of the Value of Construction Put in Place in 1992 Dollars**

Type of construction	Applicable deflating index		Monthly trend index
	Name of index	Availability	
Residential buildings	Bureau of the Census Single-Family Houses Under Construction	Monthly	
Industrial buildings	Unweighted average of—		
Office buildings	Turner Construction Company	Quarterly	Engineering News-Record—buildings
Hotels and motels	Bureau of the Census Single-Family Houses Under Construction	Monthly	
Other commercial buildings			
Educational buildings			
Hospital and institutional buildings			
Religious buildings			
Miscellaneous nonresidential buildings			
Farm nonresidential			
Railroads	Unweighted average of—		
	Federal Highway Admin.-composite	Quarterly	Engineering News-Record—construction
	Bureau of Reclamation	Quarterly	Engineering News-Record—construction
Telecommunications	C.A. Turner Telephone Plant	Semiannually	Engineering News-Record—construction
Electric light and power	Weighted average of—		
	Handy-Whitman—electric (weight 9)	Semiannually	Engineering News-Record—construction
	Handy-Whitman—utility building (weight 1)	Semiannually	Engineering News-Record—buildings
Gas and petroleum pipelines	Handy-Whitman—gas	Semiannually	Engineering News-Record—construction
Military facilities	Weighted average of—		
	Federal Highway Admin.-composite (weight 2)	Quarterly	Engineering News-Record—construction
	Bureau of the Census Single-Family Houses Under Construction (weight 1)	Monthly	
	Turner Construction Company (weight 1)	Quarterly	Engineering News-Record—buildings
Highways and streets	Federal Highway Admin.-composite	Quarterly	Engineering News-Record—construction
Sewer systems and conservation and development	Bureau of Reclamation	Quarterly	Engineering News-Record—construction
Water supply facilities	Handy-Whitman—water	Semiannually	Engineering News-Record—construction
All other private and public	Unweighted average of—		
	Federal Highway Admin.-composite	Quarterly	Engineering News-Record—construction
	Bureau of Reclamation	Quarterly	Engineering News-Record—construction

Note: Federal Highway Administration composite index, adjusted with the application of 12-quarter phasing patterns, is used before the monthly indexes are developed.

Table D-4. Indexes Used in Deriving Estimates of the Value of 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													
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 ^r	112.5	112.6	109.8	109.8	114.4	114.3	115.9	110	109	115	111	111	112	110
1996 ^r	115.0	115.2	113.0	112.8	116.4	116.5	116.1	112	112	118	112	112	115	115
1997 ^r	118.7	118.9	118.7	116.9	119.9	119.9	124.7	116	117	122	115	115	118	117
	Monthly indexes						Quarterly indexes			Semiannual indexes				
1996: ^r January.....	113.6	113.8	110.3	110.8	115.0	115.2								
February.....	113.8	113.9	110.5	111.0	115.2	115.3	120.3	111	111					
March.....	113.8	114.1	110.7	111.1	114.9	115.2				117	112	110	114	113
April.....	113.7	114.0	111.1	111.3	114.8	115.1								
May.....	114.1	114.2	111.5	111.8	115.3	115.4	112.3	112	112					
June.....	114.5	114.8	112.2	112.3	115.9	116.2								
July.....	115.2	115.5	112.6	112.7	116.8	117.1								
August.....	115.5	115.7	113.7	113.4	117.1	117.3	118.3	112	112					
September.....	116.0	116.0	114.6	114.0	117.4	117.4				118	112	113	115	115
October.....	116.3	116.2	115.9	114.7	117.9	117.6								
November.....	116.4	116.3	116.6	115.1	118.1	117.8	113.7	114	113					
December.....	116.7	116.6	116.9	115.2	118.4	118.0								
1997: ^r January.....	117.1	117.2	117.6	115.6	118.6	118.5								
February.....	117.0	117.1	117.6	115.7	118.5	118.4	127.1	114	114					
March.....	117.6	117.7	117.3	115.5	118.6	118.5				121	114	114	117	116
April.....	117.8	117.9	118.7	116.3	118.7	118.7								
May.....	118.1	118.3	119.2	117.1	118.8	119.0	124.1	116	116					
June.....	118.3	118.5	119.9	117.6	119.2	119.5								
July.....	118.6	118.9	119.7	117.6	119.6	120.0								
August.....	118.9	119.3	119.5	117.4	120.0	120.4	116.4	118	118					
September.....	119.5	119.6	119.2	117.4	120.9	120.9				122	114	115	118	117
October.....	119.9	119.9	119.0	117.3	121.5	121.2								
November.....	120.6	120.4	118.2	117.1	121.9	121.3	131.5	118	119					
December.....	120.7	120.4	118.9	117.5	122.0	121.2								
1998: January.....	^r 120.6	^r 120.3	118.7	117.4	^r 121.6	^r 120.8								
February.....	^r 120.3	^r 120.3	119.0	117.8	^r 121.1	^r 120.7	113.8	118	120					
March.....	^r 120.3	^r 120.4	118.9	117.9	^r 121.0	^r 120.8				^r 122	^r 116	^r 116	^r 118	119
April.....	^r 120.3	^r 120.4	119.1	118.0	^r 121.0	^r 120.8								
May.....	^p 120.3	^p 120.4	119.1	118.0	^p 120.8	^p 120.8	(NA)	118	121					
June.....			119.2	118.3										

NA Not available. ^pPreliminary. ^rRevised.

Table D-5. Monthly Bureau of the Census Composite Fixed-Weighted Price Index: 1964 to 1998
[1992=100]

Year	Month												Annual composite index
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	
1964	21.2	21.2	21.1	21.3	21.4	21.5	21.5	21.4	21.4	21.7	21.9	21.9	21.5
1965	22.0	21.9	21.9	21.9	22.0	22.2	22.1	22.0	22.1	22.4	22.7	22.8	22.2
1966	22.6	22.4	22.4	23.0	23.4	23.3	23.2	23.1	23.1	23.4	23.5	23.7	23.1
1967	23.5	23.5	23.5	23.5	23.6	23.7	23.8	23.9	24.0	24.1	24.3	24.5	23.8
1968	24.6	24.7	24.8	24.9	25.0	25.0	24.9	25.0	25.1	25.5	25.9	26.4	25.2
1969	26.2	26.2	26.5	26.6	26.9	26.8	27.0	26.8	26.9	27.3	27.5	27.6	26.9
1970	27.5	27.6	27.8	28.4	28.7	29.2	28.6	28.3	28.3	28.6	28.7	29.1	28.4
1971	29.0	29.7	29.9	30.0	30.1	30.3	30.4	30.9	30.9	31.1	31.3	31.6	30.4
1972	31.7	31.7	31.9	31.9	31.9	32.0	32.3	32.6	32.8	33.2	33.4	33.8	32.4
1973	33.8	33.9	34.2	34.6	34.8	34.9	35.3	35.8	36.0	36.4	36.6	36.7	35.3
1974	37.1	37.6	38.5	38.2	38.8	39.9	40.4	40.4	40.8	41.1	41.5	41.8	39.7
1975	42.3	42.2	42.3	42.6	43.0	43.4	43.4	43.1	43.6	43.7	44.0	44.3	43.2
1976	44.2	44.1	44.3	44.7	45.4	45.7	45.9	45.8	45.9	46.2	46.5	46.7	45.5
1977	47.4	47.5	47.8	48.0	48.6	49.2	49.4	49.8	50.2	50.4	50.9	51.4	49.2
1978	51.8	52.2	52.5	53.1	53.4	54.1	54.5	55.1	55.6	56.4	57.0	57.4	54.4
1979	58.0	58.6	58.9	59.2	60.4	61.3	61.8	62.6	62.8	63.5	64.2	64.6	61.3
1980	65.5	66.2	66.4	66.8	67.6	68.6	69.3	69.6	69.8	70.5	71.0	71.3	68.6
1981	71.9	72.2	73.0	73.3	73.6	74.0	74.3	74.5	74.6	75.2	75.5	75.5	74.0
1982	75.7	75.5	75.7	75.6	76.0	76.3	76.0	76.1	76.2	76.1	76.5	76.6	76.0
1983	77.1	77.0	76.8	76.6	77.3	77.7	77.9	77.9	77.9	78.5	78.7	78.9	77.7
1984	79.2	79.4	79.7	79.8	80.0	80.3	80.5	81.1	81.3	81.8	81.9	82.0	80.6
1985	82.3	82.2	82.3	82.3	82.4	82.6	82.8	83.0	83.2	83.6	83.8	84.2	82.9
1986	84.7	84.8	85.0	85.3	85.7	86.1	86.4	86.6	86.9	87.3	87.6	88.0	86.2
1987	88.3	88.5	88.6	88.8	89.0	89.3	89.6	89.7	89.7	89.9	90.6	90.9	89.4
1988	91.5	91.8	91.8	91.8	92.2	92.3	92.6	92.8	93.1	93.4	93.8	93.9	92.6
1989	94.2	94.6	94.9	95.2	95.6	95.8	96.1	96.4	96.6	96.8	96.9	97.0	95.8
1990	97.3	97.5	97.7	97.8	98.0	98.4	98.8	99.0	99.0	99.1	99.4	99.4	98.5
1991	99.4	99.3	98.9	98.9	99.1	99.6	99.7	99.6	99.6	99.4	99.2	99.1	99.3
1992	99.1	99.3	99.4	99.5	99.4	99.6	99.8	99.9	100.2	100.7	101.0	101.5	100.0
1993	101.8	102.2	103.0	103.4	103.1	102.9	103.4	104.0	104.4	104.7	105.3	105.8	103.7
1994	106.2	106.3	106.5	106.7	107.1	107.5	107.9	108.4	108.9	109.5	110.3	111.1	108.0
1995 [†]	111.7	111.7	111.7	111.8	112.1	112.6	112.6	112.6	113.0	113.3	113.3	113.3	112.5
1996 [†]	113.6	113.8	113.8	113.7	114.1	114.5	115.2	115.5	116.0	116.3	116.4	116.7	115.0
1997 [†]	117.1	117.0	117.6	117.8	118.1	118.3	118.6	118.9	119.5	119.9	120.6	120.7	118.7
1998	[†] 120.6	[†] 120.3	[†] 120.3	[†] 120.3	[†] 120.3								

[†]Preliminary. [†]Revised.

Table D-6. Monthly Bureau of the Census Implicit Price Deflator: 1964 to 1998

[1992=100]

Year	Month												Annual deflator
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	
1964	21.1	20.9	21.0	21.1	21.4	21.4	21.4	21.4	21.4	21.6	21.8	21.8	21.4
1965	21.8	21.7	21.6	21.7	21.9	22.0	22.0	21.9	21.9	22.2	22.5	22.6	22.0
1966	22.3	22.1	22.2	22.8	23.2	23.3	23.1	23.0	22.9	23.2	23.4	23.5	23.0
1967	23.4	23.3	23.4	23.4	23.5	23.6	23.7	23.7	23.8	23.9	24.1	24.3	23.7
1968	24.3	24.5	24.6	24.7	24.9	24.9	24.8	24.9	25.0	25.3	25.8	26.2	25.0
1969	26.0	26.1	26.3	26.4	26.7	26.6	26.9	26.7	26.8	27.3	27.5	27.6	26.8
1970	27.4	27.4	27.8	28.3	28.7	29.2	28.7	28.4	28.4	28.7	28.7	29.0	28.4
1971	28.8	29.6	29.8	29.8	29.9	30.2	30.2	30.8	30.7	30.9	31.1	31.3	30.3
1972	31.4	31.5	31.7	31.7	31.7	31.8	31.9	32.4	32.4	32.9	33.1	33.6	32.2
1973	33.5	33.6	33.8	34.3	34.5	34.6	35.0	35.6	35.8	36.1	36.4	36.5	35.0
1974	36.9	37.5	38.5	38.2	38.8	39.9	40.2	40.3	40.6	41.1	41.6	41.9	39.7
1975	42.3	42.3	42.4	42.7	43.2	43.6	43.6	43.4	43.8	43.9	44.1	44.3	43.4
1976	44.0	44.0	44.1	44.6	45.4	45.7	45.9	45.8	45.9	46.2	46.3	46.4	45.5
1977	46.8	47.2	47.3	47.5	48.2	49.0	49.2	49.8	50.1	50.4	50.7	51.0	49.1
1978	51.5	52.0	52.5	53.2	53.5	54.5	54.8	55.4	55.6	56.3	56.7	57.0	54.6
1979	57.3	57.7	58.0	58.6	60.1	61.1	61.6	62.5	62.6	63.4	63.8	63.9	61.1
1980	64.5	65.2	65.5	66.0	66.9	67.9	68.6	68.7	69.1	69.9	70.1	70.3	67.8
1981	70.7	71.0	71.9	72.1	72.3	73.0	73.4	73.7	73.7	74.3	74.2	74.1	72.9
1982	74.4	74.5	74.8	74.7	75.4	76.0	75.9	76.3	76.5	76.2	76.3	76.2	75.7
1983	76.6	76.6	76.6	76.3	76.8	77.1	77.2	77.2	77.2	77.7	77.8	77.9	77.1
1984	78.4	78.8	79.0	78.9	79.0	79.3	79.6	80.2	80.4	80.6	80.6	80.7	79.7
1985	81.0	81.2	81.4	81.2	81.3	81.5	81.6	81.8	82.0	82.4	82.5	82.7	81.8
1986	83.2	83.3	83.5	83.8	84.2	84.5	84.9	85.1	85.4	85.8	86.0	86.4	84.8
1987	86.7	86.7	86.9	87.1	87.4	87.8	88.1	88.2	88.3	88.6	89.0	89.3	87.9
1988	89.9	90.3	90.4	90.4	90.8	90.9	91.1	91.3	91.7	92.0	92.3	92.5	91.2
1989	92.9	93.4	93.6	94.2	94.7	94.9	95.2	95.3	95.4	95.6	95.8	96.1	94.8
1990	96.7	96.8	97.0	97.1	97.4	97.7	98.2	98.5	98.3	98.5	98.6	98.5	97.8
1991	98.5	98.4	98.0	98.2	98.4	98.8	99.2	99.2	99.2	99.1	98.8	98.8	98.7
1992	98.9	99.2	99.3	99.5	99.3	99.7	99.9	100.0	100.2	100.8	101.2	101.7	100.0
1993	102.1	102.4	103.1	103.5	103.2	103.0	103.5	104.1	104.5	104.7	105.3	105.6	103.8
1994	106.2	106.5	106.6	106.7	107.0	107.4	107.8	108.3	108.8	109.5	110.2	111.0	108.1
1995 [†]	111.6	111.7	111.7	111.9	112.0	112.5	112.6	112.7	113.1	113.4	113.4	113.5	112.6
1996 [†]	113.8	113.9	114.1	114.0	114.2	114.8	115.5	115.7	116.0	116.2	116.3	116.6	115.2
1997 [†]	117.2	117.1	117.7	117.9	118.3	118.5	118.9	119.3	119.6	119.9	120.4	120.4	118.9
1998	[†] 120.3	[†] 120.3	[†] 120.4	[†] 120.4	[†] 120.4								

[†]Preliminary. [†]Revised.