

Current Construction Reports
C30/97-5

Value of Construction Put in Place: May 1997



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

Acknowledgments

This report was developed in the Bureau of the Census' Manufacturing and Construction Division. It was prepared under the general direction of **George Roff**, Chief, Construction Expenditures Branch. **Mike Davis, Kathy McDonald, Joe Huesman, Delsey Newman, Linda Mersch, Edna Free, and Brenda Jordan** performed specific activities related to the development, presentation and review of the data.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement.

The Bureau of the Census is indebted to thousands of respondents included in the samples. Without their cooperation in providing information, this report would not have been possible. The Bureau also extends its appreciation to the Data Preparation Division staff responsible for collecting much of the basic data.

Value of Construction Put in Place: May 1997

Issued July 1997



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

Economics and Statistics Administration
Lee Price, Acting Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Lee Price, Acting Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bradford R. Huther, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**MANUFACTURING AND CONSTRUCTION
DIVISION**

Thomas L. Mesenbourg, Acting Chief

Questions regarding these data may be directed to **George A. Roff**, Chief,
Construction Expenditures Branch, Telephone 301-457-1605.

SUGGESTED CITATION

U.S. Bureau of the Census, *Current Construction Reports—Value of Construction Put in Place: May 1997*, U.S. Government Printing Office, Washington, DC 1997.

Contents

	Page
INTRODUCTION	
Description of Current Revisions	1
Relationship of Value of Construction Put in Place to Structures in GDP	1
Additional Data	2
CHARTS	
Annual Value of Construction Put in Place: 1964-1996	3
TABLES	
1. Annual Value of Construction Put in Place: 1992-1996	4
2. Annual Value of Public Construction Put in Place: 1992-1996	5
Value of Construction Put in Place	
3a. Monthly—Not Seasonally Adjusted in Current Dollars: May 1995-May 1997	6
3b. Annual and Monthly—Not Seasonally Adjusted in Current Dollars: 1994-1996	8
4a. Monthly—Seasonally Adjusted Annual Rate in Current Dollars: May 1995- May 1997	11
4b. Monthly—Seasonally Adjusted Annual Rate in Current Dollars: 1994-1996	13
5a. Monthly—Seasonally Adjusted Annual Rate in 1992 Dollars: May 1995-May 1997 ...	16
5b. Monthly—Seasonally Adjusted Annual Rate in 1992 Dollars: 1994-1996	18
6a. Monthly—Not Seasonally Adjusted in 1992 Dollars: May 1995-May 1997	21
6b. Annual and Monthly—Not Seasonally Adjusted in 1992 Dollars: 1994-1996	23
Value of Public Construction Put in Place	
7a. Monthly—Not Seasonally Adjusted in Current Dollars: May 1995-May 1997	26
7b. Annual and Monthly—Not Seasonally Adjusted in Current Dollars: 1994-1996	27
8a. Monthly—Seasonally Adjusted Annual Rate in Current Dollars: May 1995- May 1997	30
8b. Monthly—Seasonally Adjusted Annual Rate in Current Dollars: 1994-1996	31
9a. Monthly—Seasonally Adjusted Annual Rate in 1992 Dollars: May 1995-May 1997 ...	34
9b. Monthly—Seasonally Adjusted Annual Rate in 1992 Dollars: 1994-1996	35
10a. Monthly—Not Seasonally Adjusted in 1992 Dollars: May 1995-May 1997	38
10b. Annual and Monthly—Not Seasonally Adjusted in 1992 Dollars: 1994-1996	39
APPENDIXES	
A. Definitions	A-1
B. Data Sources, Assumptions, and Methods	B-1
C. Reliability of the Estimates	C-1
D. Adjustments for Seasonal Variations and Cost Changes	D-1

Introduction

ANNUAL DATA BACK TO 1992 AND MONTHLY DATA BACK TO 1994 ARE SHOWN IN THIS REPORT

Construction put in place during May 1997 was estimated at a seasonally adjusted annual rate of \$585.0 billion, 2(±5) percent below the revised April estimate of \$595.7 billion. The May figure represents a 4(±5) percent increase over May 1996.

In constant (1992) dollars, the May annual rate was \$495.9 billion, 2(±5) percent below the revised estimate of \$507.2 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 1992-December 1996 were computed using data through April 1997. The revised factors for January-May 1997 were computed using data through May 1997. See Appendix D, Adjustments for Seasonal Variations and Cost Changes.

In addition to the normal revisions to the unadjusted and seasonally adjusted data, estimates for the "All other private" construction category have been revised back to May 1995 to reflect improved estimating methodologies.

Annual statistics reflecting all revisions are shown in Tables 1 and 2. Monthly estimates for January 1994 through May 1997 are presented in Tables 3-10. Monthly and annual data back to 1964 are available upon request.

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).

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

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

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 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 1915-1963.

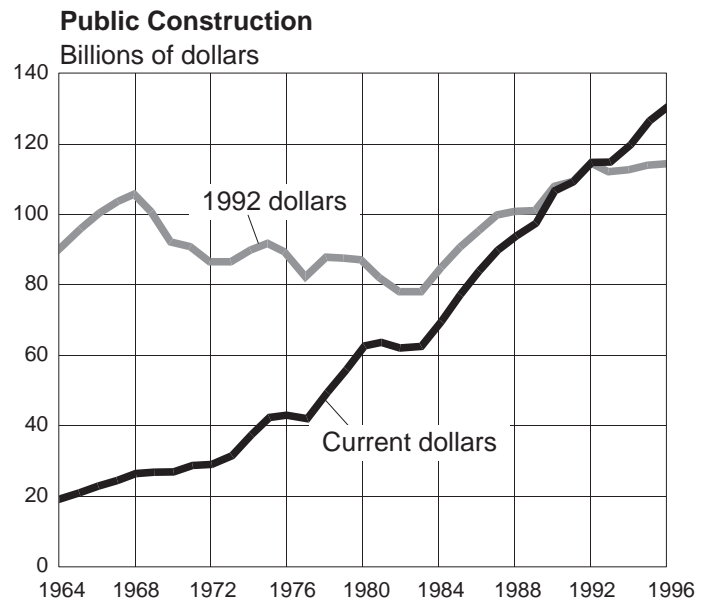
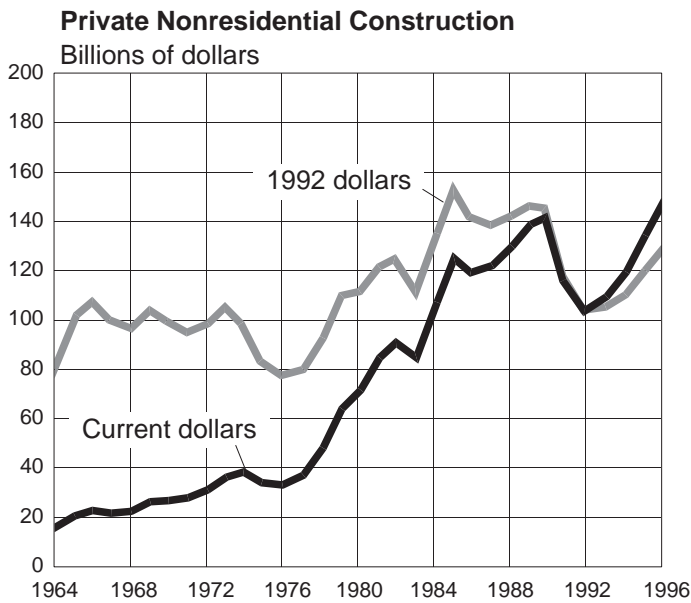
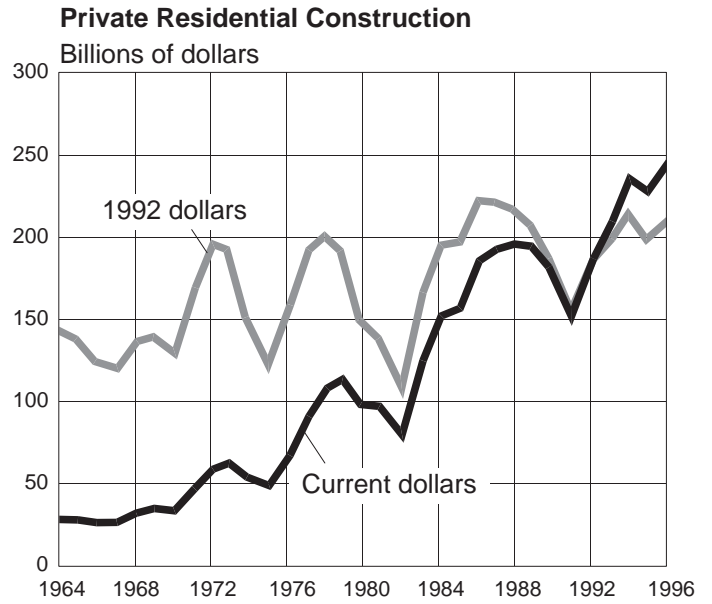
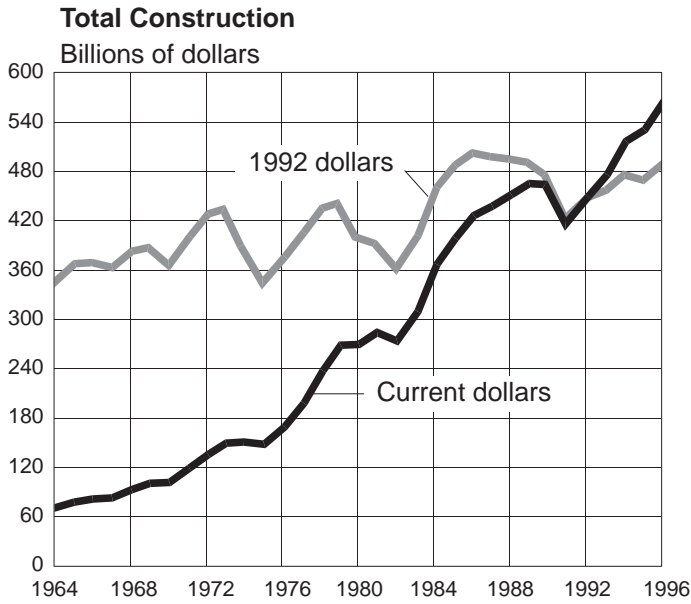
Current Construction Reports Special Study, *Expenditures for Nonresidential Improvements and Repairs: 1992*, U.S. Department of Commerce, Bureau of the Census, Washington, DC, 1994.

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

Special Supplements Included in the C30 Reports

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

Annual Value of Construction Put in Place: 1964-1996



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

Table 1. Annual Value of Construction Put in Place: 1992-1996

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1992	1993 ^r	1994 ^r	1995 ^r	1996 ^r	1992	1993 ^r	1994 ^r	1995 ^r	1996 ^r
Total construction	452,086	478,648	519,896	534,068	568,585	451,998	461,078	480,965	474,426	493,587
Private construction	336,239	362,688	399,366	406,776	437,079	336,126	347,851	367,265	359,411	378,150
Residential buildings	187,819	210,455	238,874	230,688	247,177	187,687	200,502	218,005	201,682	212,069
New housing units	129,600	144,071	167,919	162,898	179,448	129,522	137,243	153,250	142,413	153,965
1 unit	116,505	133,282	153,838	145,009	159,124	116,419	126,960	140,416	126,773	136,516
2 or more units	13,094	10,788	14,081	17,889	20,324	13,103	10,283	12,833	15,640	17,449
Improvements	58,219	66,384	70,955	67,790	67,729	58,165	63,259	64,755	59,268	58,104
Nonresidential buildings	105,646	110,635	120,285	135,022	149,376	105,615	106,729	111,416	120,627	130,394
Industrial	29,029	26,482	28,947	32,505	32,069	29,027	25,554	26,803	29,043	28,003
Office	20,271	20,920	22,178	25,613	27,609	20,271	20,197	20,553	22,891	24,099
Hotels, motels	3,691	4,565	4,648	7,112	11,758	3,690	4,405	4,308	6,351	10,263
Other commercial	29,197	32,453	37,551	42,654	47,319	29,172	31,292	34,756	38,098	41,301
Religious	3,485	3,887	3,869	4,326	4,539	3,483	3,748	3,584	3,864	3,961
Educational	4,474	4,649	4,822	5,493	6,638	4,475	4,484	4,471	4,908	5,790
Hospital and institutional	11,487	12,492	12,268	11,248	11,982	11,485	12,050	11,377	10,051	10,460
Miscellaneous ¹	4,012	5,188	6,002	6,071	7,462	4,011	5,000	5,565	5,421	6,516
Farm nonresidential	2,398	3,392	3,246	3,014	3,135	2,396	3,271	3,008	2,693	2,736
Public utilities	36,807	34,925	34,071	35,158	35,010	36,859	34,120	32,074	31,767	30,842
Telecommunications	8,993	9,619	10,121	11,093	11,960	9,005	9,468	9,785	10,071	10,420
Other public utilities	27,814	25,306	23,950	24,065	23,050	27,854	24,652	22,289	21,696	20,422
Railroads	2,928	3,108	3,340	3,509	4,560	2,926	3,056	3,186	3,202	4,030
Electric light and power	17,136	15,567	14,918	14,049	12,654	17,184	15,096	13,877	12,656	11,191
Gas	6,901	5,645	4,694	5,578	4,814	6,895	5,536	4,308	5,004	4,291
Petroleum pipelines	849	986	998	929	1,022	849	965	918	834	910
All other private ²	3,570	3,281	2,890	2,893	2,381	3,569	3,229	2,763	2,644	2,109
Public construction	115,847	115,960	120,530	127,292	131,506	115,872	113,227	113,700	115,014	115,437
Buildings	49,986	48,559	48,841	53,622	56,685	49,988	46,813	45,177	47,832	49,415
Housing and redevelopment ..	4,138	4,011	3,647	4,293	4,522	4,136	3,833	3,326	3,754	3,881
Industrial	1,876	1,718	1,465	1,508	1,392	1,875	1,658	1,358	1,348	1,216
Educational	20,647	19,129	19,002	21,534	23,064	20,645	18,465	17,593	19,237	20,131
Hospital	3,383	3,710	4,085	4,312	4,558	3,383	3,579	3,787	3,854	3,981
Other ³	19,943	19,991	20,642	21,974	23,148	19,949	19,279	19,114	19,638	20,207
Highways and streets	33,106	34,299	37,346	36,508	37,774	33,132	34,164	36,151	33,500	33,297
Military facilities	2,502	2,453	2,318	3,011	2,534	2,502	2,405	2,196	2,729	2,225
Conservation and development ..	5,952	5,937	6,464	6,362	5,909	5,946	5,771	6,091	5,773	5,244
Sewer systems	9,663	8,863	9,120	9,895	10,207	9,658	8,622	8,592	8,975	9,060
Water supply facilities	5,162	5,085	4,875	5,539	5,887	5,170	4,868	4,443	4,923	5,121
Miscellaneous public ⁴	9,477	10,765	11,566	12,355	12,510	9,475	10,583	11,050	11,282	11,075

^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: 1992-1996

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1992	1993 ^r	1994 ^r	1995 ^r	1996 ^r	1992	1993 ^r	1994 ^r	1995 ^r	1996 ^r
Total public construction	115,847	115,960	120,530	127,292	131,506	115,872	113,227	113,700	115,014	115,437
State and local construction	101,471	101,535	106,090	111,417	115,917	101,497	99,200	100,130	100,686	101,730
Total buildings	44,022	42,865	43,699	47,580	50,412	44,022	41,323	40,422	42,442	43,946
Housing and redevelopment	3,977	3,775	3,201	3,717	3,842	3,975	3,608	2,920	3,251	3,296
Educational	20,617	19,108	18,975	21,507	23,052	20,616	18,445	17,568	19,213	20,120
Hospital	2,626	2,804	3,234	3,271	3,359	2,626	2,703	2,998	2,923	2,933
Other ¹	16,801	17,177	18,289	19,084	20,160	16,805	16,567	16,936	17,054	17,597
Highways and streets	32,886	33,961	36,918	36,076	37,339	32,912	33,827	35,736	33,104	32,913
Conservation and development	1,419	1,719	2,088	2,194	2,066	1,417	1,670	1,966	1,992	1,833
Sewer systems	9,663	8,863	9,120	9,895	10,207	9,658	8,622	8,592	8,975	9,060
Water supply facilities	5,162	5,085	4,875	5,539	5,887	5,170	4,868	4,443	4,923	5,121
Miscellaneous nonbuilding ²	8,320	9,043	9,390	10,132	10,006	8,318	8,890	8,970	9,250	8,857
Federal construction	14,376	14,424	14,440	15,875	15,589	14,375	14,027	13,569	14,328	13,707
Total buildings	5,964	5,695	5,142	6,043	6,273	5,966	5,490	4,755	5,390	5,469
Housing	161	236	446	576	681	161	225	406	503	585
Industrial	1,876	1,718	1,465	1,508	1,392	1,875	1,658	1,358	1,348	1,216
Educational	30	21	26	27	12	30	20	24	24	11
Hospital	757	906	851	1,041	1,199	757	875	789	931	1,048
Other ³	3,141	2,814	2,354	2,891	2,989	3,144	2,713	2,178	2,584	2,609
Highways and streets	220	338	428	432	435	220	336	414	396	383
Military facilities	2,502	2,453	2,318	3,011	2,534	2,502	2,405	2,196	2,729	2,225
Conservation and development	4,533	4,217	4,376	4,167	3,843	4,529	4,102	4,124	3,781	3,411
Miscellaneous public ⁴	1,157	1,722	2,176	2,223	2,504	1,157	1,693	2,080	2,032	2,218

^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 1995-May 1997— 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 1996	206,740	161,018	89,580	65,712	57,544	8,168	55,659	12,599	10,101	4,404	17,272	1,627	2,115	4,572	2,970	(NA)	4,527	974	
May 1997	219,196	171,251	92,736	67,945	59,224	8,721	63,174	12,350	12,379	5,281	18,835	2,128	2,956	5,706	3,540	(NA)	(NA)	767	
Percent change	6	6	4	3	3	7	14	-2	23	20	9	31	40	25	19	(NA)	(NA)	-21	
MONTHLY DATA																			
1995: May ^f	45,657	34,726	19,688	13,296	11,780	1,515	11,436	2,860	2,414	553	3,373	369	453	955	459	(NA)	901	249	
June ^f	48,354	36,242	20,773	13,923	12,420	1,503	11,794	2,802	2,243	569	3,861	367	564	880	508	(NA)	1,060	245	
July ^f	48,730	36,757	21,324	14,646	13,053	1,593	11,853	2,808	2,325	568	3,796	385	586	902	483	(NA)	991	297	
August ^f	50,871	37,591	22,035	15,341	13,645	1,696	11,961	2,718	2,286	588	3,902	415	624	924	503	(NA)	1,023	265	
September ^f	50,414	37,227	21,563	15,452	13,843	1,609	12,181	2,848	2,183	607	4,109	419	495	971	551	(NA)	946	283	
October ^f	49,486	37,297	21,548	15,358	13,754	1,605	12,232	2,844	2,088	641	4,118	440	435	1,010	657	(NA)	984	259	
November ^f	46,441	35,522	20,373	14,816	13,258	1,558	11,818	2,782	2,045	767	3,833	389	437	977	590	(NA)	970	195	
December ^f	41,022	31,936	17,451	12,711	11,134	1,578	11,354	2,844	2,012	795	3,487	327	363	948	579	(NA)	885	226	
1996: January ^f	37,393	29,152	15,684	11,719	10,283	1,437	10,446	2,514	1,808	794	3,175	317	359	929	551	(NA)	840	203	
February ^f	36,234	28,592	14,936	11,205	9,749	1,457	10,600	2,444	1,902	863	3,236	314	386	873	583	(NA)	845	186	
March ^f	40,063	31,634	17,617	13,217	11,629	1,588	10,859	2,501	1,921	868	3,338	307	423	883	619	(NA)	870	191	
April ^f	44,566	34,672	19,695	14,255	12,457	1,798	11,699	2,610	2,123	981	3,664	340	437	912	633	(NA)	972	199	
May ^f	48,485	36,967	21,648	15,316	13,427	1,889	12,055	2,531	2,348	899	3,859	350	510	976	584	(NA)	1,001	194	
June ^f	51,339	39,433	23,243	16,389	14,475	1,914	12,866	2,713	2,480	971	4,054	384	640	994	631	(NA)	908	208	
July ^f	52,521	39,846	23,686	16,897	15,184	1,713	12,667	2,570	2,437	948	4,062	362	681	972	635	(NA)	948	186	
August ^f	54,492	41,360	24,170	17,290	15,536	1,754	13,492	2,573	2,498	1,093	4,522	414	731	1,057	603	(NA)	1,086	243	
September ^f	54,767	40,796	23,390	17,083	15,381	1,702	13,776	2,866	2,589	1,064	4,499	432	655	1,061	611	(NA)	966	192	
October ^f	54,095	41,080	23,080	16,698	14,961	1,737	14,249	3,129	2,539	1,072	4,662	438	642	1,082	686	(NA)	1,128	217	
November ^f	50,564	38,950	21,695	15,970	14,217	1,753	13,781	2,895	2,551	1,072	4,397	446	624	1,115	681	(NA)	1,131	190	
December ^f	44,066	34,596	18,334	13,410	11,826	1,584	12,886	2,724	2,414	1,135	3,852	435	550	1,130	646	(NA)	1,266	172	
1997: January ^f	39,285	30,899	16,281	12,189	10,750	1,439	11,916	2,380	2,364	983	3,647	363	508	1,070	601	(NA)	825	140	
February ^f	38,947	30,458	15,714	11,861	10,183	1,678	12,082	2,412	2,518	1,021	3,500	375	527	1,090	641	(NA)	809	134	
March ^f	43,351	33,976	18,446	13,818	12,087	1,731	12,437	2,353	2,402	1,076	3,739	437	549	1,158	723	(NA)	888	157	
April ^f	47,354	36,817	20,209	14,557	12,740	1,816	13,202	2,567	2,516	1,089	3,899	463	670	1,228	772	(NA)	1,011	174	
May ^p	50,259	39,101	22,086	15,520	13,464	2,056	13,537	2,639	2,579	1,113	4,050	490	701	1,161	804	(NA)	(NA)	163	
PERCENT CHANGE																			
April 1997- May 1997	6	6	9	7	6	13	3	3	3	2	4	6	5	-5	4	(NA)	(NA)	-6	

See footnotes at end of table.

Table 3a. Monthly Value of Construction Put in Place: May 1995-May 1997—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 1996	45,722	20,968	1,727	578	8,142	1,868	8,653	10,826	1,091	2,149	3,798	2,142	4,748
May 1997	47,945	22,856	1,783	463	9,054	1,995	9,561	11,367	967	2,127	3,672	2,300	4,657
Percent change	5	9	3	-20	11	7	10	5	-11	-1	-3	7	-2
MONTHLY DATA													
1995: May ^f	10,931	4,620	353	125	1,735	391	2,017	3,199	246	516	801	425	1,125
June ^f	12,111	5,036	398	118	2,044	374	2,101	3,695	263	575	963	468	1,113
July ^f	11,973	4,830	358	123	2,176	359	1,814	3,980	256	552	832	516	1,008
August ^f	13,280	5,070	377	123	2,337	316	1,917	4,709	262	648	932	551	1,110
September ^f	13,187	5,031	390	180	2,097	439	1,924	4,292	361	758	961	484	1,302
October ^f	12,188	4,512	390	97	1,853	344	1,827	4,369	156	344	957	560	1,290
November ^f	10,918	4,406	372	117	1,720	367	1,829	3,191	269	483	930	540	1,099
December ^f	9,086	3,997	358	111	1,554	340	1,634	2,244	295	459	752	441	897
1996: January ^f	8,241	4,039	362	104	1,516	340	1,717	1,644	248	376	683	358	894
February ^f	7,641	3,686	314	103	1,421	359	1,489	1,637	202	369	639	372	738
March ^f	8,429	4,053	314	124	1,593	382	1,640	1,776	206	432	712	384	866
April ^f	9,894	4,325	323	120	1,690	392	1,799	2,465	214	483	862	502	1,042
May ^f	11,517	4,866	413	128	1,922	396	2,007	3,305	220	490	902	527	1,207
June ^f	11,906	4,906	355	129	2,062	369	1,991	3,707	210	506	870	523	1,185
July ^f	12,675	5,165	402	129	2,299	365	1,971	4,238	191	513	850	515	1,204
August ^f	13,132	5,347	373	133	2,495	323	2,025	4,323	193	574	1,021	506	1,167
September ^f	13,971	5,554	462	185	2,237	457	2,214	4,502	271	877	951	540	1,278
October ^f	13,016	5,068	419	60	2,073	392	2,123	4,521	175	420	1,080	658	1,093
November ^f	11,615	5,088	424	91	2,005	363	2,205	3,275	203	478	918	546	1,106
December ^f	9,470	4,589	361	88	1,751	423	1,966	2,382	200	392	721	457	731
1997: January ^f	8,387	4,307	335	90	1,653	400	1,829	1,641	199	411	655	419	757
February ^f	8,489	4,327	337	79	1,683	395	1,832	1,673	170	385	643	426	866
March ^f	9,375	4,547	345	88	1,800	394	1,920	2,022	192	443	719	501	951
April ^f	10,536	4,899	378	114	1,939	420	2,048	2,784	191	427	780	481	974
May ^p	11,158	4,777	388	92	1,979	386	1,932	3,247	215	461	876	474	1,109
PERCENT CHANGE													
April 1997- May 1997	6	-2	3	-19	2	-8	-6	17	13	8	12	-1	14

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

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: 1994-1996—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Type of construction	1994												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	519,896	32,761	31,869	37,191	40,478	44,698	47,978	48,512	50,818	50,303	48,654	45,885	40,749
Private construction	399,366	25,823	25,009	29,622	32,084	34,825	36,603	36,554	37,927	37,419	36,680	35,385	31,436
Residential buildings	238,874	15,066	14,177	16,982	18,922	20,945	22,524	22,913	23,334	22,721	22,324	21,019	17,946
New housing units	167,919	10,976	10,266	12,363	13,244	14,399	15,339	15,816	16,064	16,055	15,531	15,002	12,863
1 unit	153,838	10,180	9,435	11,417	12,220	13,233	14,120	14,604	14,718	14,574	14,183	13,612	11,543
2 units or more	14,081	796	831	946	1,024	1,166	1,219	1,213	1,347	1,481	1,348	1,390	1,320
Improvements	70,955	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	120,285	7,898	7,960	9,330	9,823	10,410	10,476	10,228	10,908	11,167	10,886	10,975	10,225
Industrial	28,947	1,917	2,014	2,133	2,284	2,463	2,428	2,370	2,521	2,649	2,586	2,861	2,721
Office	22,178	1,447	1,587	1,941	1,927	2,040	1,806	1,741	1,922	2,005	1,877	2,048	1,837
Hotels, motels	4,648	313	348	401	464	447	393	319	356	378	378	423	434
Other commercial	37,551	2,177	2,106	2,583	2,913	3,089	3,362	3,466	3,702	3,842	3,785	3,382	3,143
Religious	3,869	279	270	294	292	327	325	315	381	355	367	339	326
Educational	4,822	379	327	394	367	427	476	451	402	379	379	384	364
Hospital and institutional	12,268	982	886	1,047	1,029	1,085	1,163	1,026	1,081	999	991	1,022	956
Miscellaneous ¹	6,002	404	421	538	547	531	527	516	494	541	524	516	443
Farm nonresidential	3,246	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	34,071	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,121	627	696	854	743	811	914	802	999	882	878	943	973
Railroads	3,340	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	14,918	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,694	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	998	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,890	234	194	188	199	239	262	287	266	280	270	255	217
Public construction	120,530	6,938	6,860	7,569	8,394	9,872	11,375	11,958	12,891	12,884	11,974	10,500	9,313
Buildings	48,841	3,128	3,318	3,551	3,599	4,010	4,451	4,395	4,676	4,578	4,502	4,346	4,287
Housing and redevelopment	3,647	237	220	284	295	305	324	290	298	330	370	336	358
Industrial	1,465	100	109	142	121	122	121	108	120	166	112	119	126
Educational	19,002	1,194	1,199	1,263	1,315	1,523	1,707	1,893	2,080	1,847	1,829	1,648	1,503
Hospital	4,085	310	324	340	312	335	379	372	319	359	328	340	370
Other ³	20,642	1,287	1,466	1,522	1,556	1,725	1,921	1,732	1,860	1,876	1,864	1,904	1,930
Highways and streets	37,346	1,527	1,357	1,775	2,269	3,296	3,934	4,397	4,818	4,453	4,265	3,133	2,122
Military facilities	2,318	211	128	168	169	184	199	205	208	256	152	196	243
Conservation and development	6,464	394	472	403	483	495	530	550	563	936	505	526	606
Other public construction	25,561	1,679	1,585	1,672	1,874	1,888	2,261	2,412	2,626	2,662	2,550	2,299	2,055
Sewer systems	9,120	589	525	642	685	681	818	814	893	965	867	848	793
Water supply facilities	4,875	333	259	322	345	370	416	470	448	517	571	433	392
Miscellaneous public ⁴	11,566	756	802	708	844	837	1,026	1,127	1,285	1,180	1,112	1,018	870

See footnotes at end of table.

Table 3b. Annual and Monthly Value of Construction Put in Place: 1994-1996—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	534,068	36,181	35,189	39,637	42,088	45,657	48,354	48,730	50,871	50,414	49,486	46,441	41,022
Private construction	406,776	28,310	27,599	30,996	32,572	34,726	36,242	36,757	37,591	37,227	37,297	35,522	31,936
Residential buildings	230,688	15,931	14,804	17,012	18,187	19,688	20,773	21,324	22,035	21,563	21,548	20,373	17,451
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	607	641	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	35,158	(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	5,578	(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	127,292	7,871	7,590	8,640	9,516	10,931	12,111	11,973	13,280	13,187	12,188	10,918	9,086
Buildings	53,622	3,871	3,829	4,107	4,315	4,620	5,036	4,830	5,070	5,031	4,512	4,406	3,997
Housing and redevelopment	4,293	318	305	328	346	353	398	358	377	390	390	372	358
Industrial	1,508	125	125	136	130	125	118	123	123	180	97	117	111
Educational	21,534	1,421	1,440	1,543	1,614	1,735	2,044	2,176	2,337	2,097	1,853	1,720	1,554
Hospital	4,312	324	334	348	376	391	374	359	316	439	344	367	340
Other ³	21,974	1,683	1,625	1,752	1,850	2,017	2,101	1,814	1,917	1,924	1,827	1,829	1,634
Highways and streets	36,508	1,493	1,345	1,771	2,220	3,199	3,695	3,980	4,709	4,292	4,369	3,191	2,244
Military facilities	3,011	220	178	282	223	246	263	256	262	361	156	269	295
Conservation and development	6,362	466	482	570	509	516	575	552	648	758	344	483	459
Other public construction	27,789	1,821	1,756	1,910	2,248	2,350	2,543	2,356	2,592	2,746	2,808	2,569	2,090
Sewer systems	9,895	680	640	729	720	801	963	832	932	961	957	930	752
Water supply facilities	5,539	395	397	362	402	425	468	516	551	484	560	540	441
Miscellaneous public ⁴	12,355	747	719	819	1,127	1,125	1,113	1,008	1,110	1,302	1,290	1,099	897

See footnotes at end of table.

Table 3b. Annual and Monthly Value of Construction Put in Place: 1994-1996—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	568,585	37,393	36,234	40,063	44,566	48,485	51,339	52,521	54,492	54,767	54,095	50,564	44,066
Private construction	437,079	29,152	28,592	31,634	34,672	36,967	39,433	39,846	41,360	40,796	41,080	38,950	34,596
Residential buildings	247,177	15,684	14,936	17,617	19,695	21,648	23,243	23,686	24,170	23,390	23,080	21,695	18,334
New housing units	179,448	11,719	11,205	13,217	14,255	15,316	16,389	16,897	17,290	17,083	16,698	15,970	13,410
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	1,457	1,588	1,798	1,889	1,914	1,713	1,754	1,702	1,737	1,753	1,584
Improvements	67,729	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	149,376	10,446	10,600	10,859	11,699	12,055	12,866	12,667	13,492	13,776	14,249	13,781	12,886
Industrial	32,069	2,514	2,444	2,501	2,610	2,531	2,713	2,570	2,573	2,866	3,129	2,895	2,724
Office	27,609	1,808	1,902	1,921	2,123	2,348	2,480	2,437	2,498	2,589	2,539	2,551	2,414
Hotels, motels	11,758	794	863	868	981	899	971	948	1,093	1,064	1,072	1,072	1,135
Other commercial	47,319	3,175	3,236	3,338	3,664	3,859	4,054	4,062	4,522	4,499	4,662	4,397	3,852
Religious	4,539	317	314	307	340	350	384	362	414	432	438	446	435
Educational	6,638	359	386	423	437	510	640	681	731	655	642	624	550
Hospital and institutional	11,982	929	873	883	912	976	994	972	1,057	1,061	1,082	1,115	1,130
Miscellaneous ¹	7,462	551	583	619	633	584	631	635	603	611	686	681	646
Farm nonresidential	3,135	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	35,010	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	11,960	840	845	870	972	1,001	908	948	1,086	966	1,128	1,131	1,266
Railroads	4,560	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	12,654	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,814	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,022	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,381	203	186	191	199	194	208	186	243	192	217	190	172
Public construction	131,506	8,241	7,641	8,429	9,894	11,517	11,906	12,675	13,132	13,971	13,016	11,615	9,470
Buildings	56,685	4,039	3,686	4,053	4,325	4,866	4,906	5,165	5,347	5,554	5,068	5,088	4,589
Housing and redevelopment	4,522	362	314	314	323	413	355	402	373	462	419	424	361
Industrial	1,392	104	103	124	120	128	129	129	133	185	60	91	88
Educational	23,064	1,516	1,421	1,593	1,690	1,922	2,062	2,299	2,495	2,237	2,073	2,005	1,751
Hospital	4,558	340	359	382	392	396	369	365	323	457	392	363	423
Other ³	23,148	1,717	1,489	1,640	1,799	2,007	1,991	1,971	2,025	2,214	2,123	2,205	1,966
Highways and streets	37,774	1,644	1,637	1,776	2,465	3,305	3,707	4,238	4,323	4,502	4,521	3,275	2,382
Military facilities	2,534	248	202	206	214	220	210	191	193	271	175	203	200
Conservation and development	5,909	376	369	432	483	490	506	513	574	877	420	478	392
Other public construction	28,604	1,934	1,748	1,962	2,407	2,637	2,577	2,568	2,694	2,768	2,831	2,569	1,908
Sewer systems	10,207	683	639	712	862	902	870	850	1,021	951	1,080	918	721
Water supply facilities	5,887	358	372	384	502	527	523	515	506	540	658	546	457
Miscellaneous public ⁴	12,510	894	738	866	1,042	1,207	1,185	1,204	1,167	1,278	1,093	1,106	731

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 1995-May 1997—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														
1995: May ^f	528,909	401,824	226,573	157,903	140,522	17,382	134,438	33,783	27,148	6,240	40,556	4,507	5,295	11,278	5,630	(NA)	10,375	2,898		
June ^f	529,547	400,553	222,905	155,083	138,380	16,703	136,399	33,132	26,493	6,581	43,667	4,555	5,655	10,388	5,929	(NA)	11,689	2,783		
July ^f	532,329	406,669	224,801	157,573	139,727	17,847	139,528	34,274	28,264	6,851	42,887	4,672	5,787	11,045	5,749	(NA)	12,265	3,421		
August ^f	529,154	401,824	227,549	161,327	142,881	18,446	134,173	31,887	26,324	6,934	41,697	4,520	6,056	10,841	5,914	(NA)	10,765	3,018		
September ^f	533,200	406,111	229,968	163,724	145,336	18,387	135,992	32,239	25,330	7,271	43,286	4,593	5,607	11,318	6,348	(NA)	11,134	3,074		
October ^f	534,727	407,541	231,355	165,562	147,361	18,201	136,332	31,630	24,564	7,589	43,998	4,661	5,148	11,465	7,278	(NA)	10,831	2,794		
November ^f	536,617	408,739	232,742	166,588	148,135	18,453	136,782	32,345	23,960	9,357	43,643	4,219	5,370	11,231	6,656	(NA)	10,729	2,147		
December ^f	541,887	414,690	235,441	169,225	149,444	19,781	139,069	32,104	25,095	9,653	44,420	3,957	5,192	11,482	7,165	(NA)	10,724	2,839		
1996: January ^f	550,748	420,298	237,392	171,124	151,215	19,909	141,679	33,414	23,501	10,500	45,305	4,193	5,306	11,896	7,564	(NA)	11,999	2,742		
February ^f	546,059	421,747	239,296	173,454	153,318	20,136	140,617	32,081	23,752	10,888	45,419	4,162	5,408	11,105	7,803	(NA)	11,685	2,695		
March ^f	548,550	421,244	242,957	176,542	155,924	20,618	138,982	31,355	23,664	10,446	45,357	4,082	5,900	10,818	7,359	(NA)	11,258	2,552		
April ^f	562,889	431,083	248,755	181,387	159,027	22,360	143,384	31,888	25,198	11,260	46,679	4,274	5,603	11,112	7,370	(NA)	11,754	2,521		
May ^f	562,287	428,467	249,677	181,834	160,162	21,672	141,795	30,161	26,525	10,146	46,026	4,315	5,928	11,544	7,149	(NA)	11,625	2,248		
June ^f	568,189	438,624	250,201	182,395	161,133	21,262	150,364	31,978	29,822	11,212	46,864	4,820	6,584	11,738	7,346	(NA)	10,786	2,361		
July ^f	566,999	436,845	249,401	181,169	161,964	19,206	146,896	30,537	28,891	11,487	45,428	4,343	6,713	11,918	7,579	(NA)	10,906	2,137		
August ^f	570,996	443,553	249,211	181,092	161,978	19,114	152,620	30,968	28,988	12,888	48,581	4,571	7,084	12,388	7,154	(NA)	11,861	2,785		
September ^f	579,959	444,388	248,957	180,650	161,197	19,453	153,539	32,845	29,646	12,701	47,067	4,666	7,228	12,347	7,040	(NA)	11,489	2,099		
October ^f	584,140	448,952	247,901	179,886	160,153	19,733	159,310	34,738	29,961	12,684	49,903	4,609	7,556	12,291	7,568	(NA)	11,893	2,347		
November ^f	586,226	448,907	248,259	180,036	159,293	20,743	159,895	33,244	29,987	13,054	50,157	4,948	7,972	12,832	7,702	(NA)	12,995	2,101		
December ^f	579,109	447,045	247,899	179,112	159,267	19,845	157,371	30,752	29,532	13,816	48,863	5,122	7,635	13,650	8,002	(NA)	14,640	2,157		
1997: January ^f	577,116	444,391	246,661	178,271	158,284	19,987	161,045	31,871	30,607	12,937	51,372	4,878	7,464	13,657	8,258	(NA)	11,675	1,869		
February ^f	592,365	452,037	251,402	183,408	160,152	23,256	163,721	32,161	32,388	12,891	50,719	5,245	7,848	13,792	8,676	(NA)	11,737	1,911		
March ^f	593,908	452,728	253,974	184,118	161,516	22,602	160,545	30,520	30,144	12,997	50,871	5,699	7,424	14,148	8,741	(NA)	11,393	2,090		
April ^f	595,677	456,043	254,239	184,245	161,611	22,634	161,368	30,862	29,800	12,452	49,619	5,921	8,811	14,896	9,008	(NA)	12,307	2,170		
May ^p	585,034	453,744	253,637	183,287	159,809	23,478	160,353	31,386	29,729	12,545	49,087	6,013	8,147	13,793	9,653	(NA)	(NA)	1,936		
PERCENT CHANGE																				
April 1997- May 1997	-2	-1	(Z)	-1	-1	4	-1	2	(Z)	1	-1	2	-8	-7	7	(NA)	(NA)	-11		

See footnotes at end of table.

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

[Millions of dollars]

Period		Public construction												
		Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
			Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
1995:	May ^f	127,085	54,221	4,140	1,399	21,106	4,574	23,001	35,942	2,941	6,051	9,847	4,926	13,157
	June ^f	128,993	55,572	4,493	1,329	22,083	4,248	23,419	35,869	3,076	6,404	10,774	5,222	12,076
	July ^f	125,660	53,027	4,309	1,423	21,474	4,257	21,563	36,600	3,073	6,476	9,652	5,639	11,193
	August ^f	127,330	52,712	4,412	1,515	21,448	3,916	21,421	37,670	3,088	7,013	9,562	5,974	11,311
	September ^f	127,088	53,790	4,226	1,636	22,164	4,572	21,193	36,319	3,309	6,031	9,873	5,378	12,387
	October ^f	127,186	52,526	4,481	1,462	21,578	4,040	20,966	37,883	2,265	4,717	10,077	5,714	14,003
	November ^f	127,877	53,111	4,374	1,444	21,483	4,511	21,298	36,782	3,133	5,866	10,236	6,009	12,742
	December ^f	127,196	52,314	4,423	1,348	21,533	4,125	20,885	37,822	3,335	6,028	10,058	5,632	12,008
1996:	January ^f	130,450	55,999	4,702	1,321	22,321	4,380	23,275	37,649	3,128	5,301	9,730	5,198	13,445
	February ^f	124,312	50,549	4,107	1,358	21,154	4,625	19,305	39,520	2,923	5,317	9,436	5,531	11,035
	March ^f	127,306	53,791	4,007	1,522	22,196	4,736	21,331	37,385	2,415	5,807	9,770	5,366	12,770
	April ^f	131,807	54,202	4,021	1,469	22,336	4,617	21,758	38,119	2,721	6,017	11,138	6,367	13,243
	May ^f	133,820	57,140	4,815	1,414	23,415	4,677	22,820	37,166	2,640	5,733	10,864	6,115	14,162
	June ^f	129,565	54,616	4,034	1,468	22,217	4,181	22,716	37,227	2,463	5,960	9,779	5,863	13,656
	July ^f	130,154	56,390	4,781	1,519	22,778	4,272	23,041	37,614	2,301	5,706	9,795	5,625	12,724
	August ^f	127,443	55,986	4,385	1,583	23,066	4,068	22,884	35,196	2,278	6,154	10,549	5,479	11,801
	September ^f	135,572	59,637	5,108	1,713	23,547	4,796	24,472	38,338	2,482	7,177	9,750	5,997	12,192
	October ^f	135,188	58,348	4,671	878	24,068	4,659	24,072	38,367	2,531	5,573	11,155	6,693	12,521
	November ^f	137,319	61,588	4,947	1,122	24,964	4,425	26,129	38,610	2,365	5,710	10,269	6,080	12,697
	December ^f	132,064	59,626	4,446	1,090	24,343	5,064	24,684	39,585	2,241	5,223	9,704	5,854	9,831
1997:	January ^f	132,725	59,515	4,320	1,128	24,219	5,197	24,651	37,869	2,542	5,807	9,508	6,106	11,377
	February ^f	140,328	60,984	4,638	1,108	24,999	5,262	24,976	41,060	2,564	5,727	10,082	6,591	13,320
	March ^f	141,180	60,311	4,507	1,021	25,080	4,785	24,918	41,473	2,232	6,114	9,992	7,044	14,014
	April ^f	139,634	61,204	4,680	1,427	25,370	4,947	24,780	42,454	2,438	5,247	10,102	6,028	12,161
	May ^p	131,290	56,411	4,579	991	24,209	4,647	21,984	37,462	2,559	5,490	10,478	5,518	13,372
PERCENT CHANGE														
April 1997-	May 1997	-6	-8	-2	-31	-5	-6	-11	-12	5	5	4	-8	10

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. ^ZLess 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: 1994-1996—Seasonally Adjusted Annual Rate in Current Dollars**

[Millions of dollars]

Type of construction	1994											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	490,069	490,015	507,599	513,084	519,986	524,909	526,456	526,049	529,867	529,567	528,832	537,290
Private construction	376,891	376,626	393,599	399,464	403,793	404,274	401,192	403,998	406,765	402,071	405,775	409,300
Residential buildings	228,642	228,624	234,858	238,713	241,297	241,783	241,469	241,021	242,847	239,519	240,031	242,274
New housing units	160,190	159,708	165,399	168,397	170,783	170,586	169,902	169,278	170,456	167,509	168,400	171,183
1 unit	149,155	148,189	153,078	155,668	157,383	157,029	156,330	154,653	153,544	152,229	151,952	154,594
2 units or more	11,036	11,519	12,321	12,730	13,400	13,557	13,573	14,625	16,912	15,279	16,447	16,589
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	108,368	107,634	118,483	120,989	122,894	121,856	119,489	121,791	123,859	122,877	125,970	125,815
Industrial	26,200	26,973	26,690	27,996	29,148	28,734	28,270	29,457	30,217	29,554	32,176	31,306
Office	18,976	20,175	23,580	22,830	23,010	21,625	21,062	22,047	23,049	22,680	23,763	23,126
Hotels, motels	4,148	4,412	4,787	5,325	5,058	4,546	3,822	4,199	4,478	4,474	5,163	5,278
Other commercial	31,670	30,564	35,188	37,264	37,293	38,353	38,907	39,102	39,953	40,768	38,693	40,078
Religious	3,730	3,716	3,763	3,769	4,062	3,983	3,916	4,119	3,871	3,873	3,716	3,873
Educational	5,597	4,844	5,262	4,822	4,992	4,722	4,844	4,435	4,401	4,465	4,863	5,052
Hospital and institutional	12,492	11,289	12,801	12,592	12,806	13,726	12,562	12,674	11,666	11,242	11,751	11,616
Miscellaneous ¹	5,555	5,660	6,411	6,391	6,526	6,166	6,107	5,757	6,225	5,820	5,845	5,485
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	9,646	10,216	10,110	9,409	9,580	10,148	9,977	10,707	9,957	10,103	10,357	11,167
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	3,143	2,814	2,525	2,554	2,801	2,995	3,303	3,019	3,025	2,892	2,800	2,732
Public construction	113,178	113,389	114,000	113,621	116,193	120,635	125,264	122,051	123,102	127,497	123,058	127,990
Buildings	43,882	46,167	46,435	45,301	47,301	49,225	48,351	48,787	49,038	53,219	52,511	55,326
Housing and redevelopment	3,125	2,931	3,535	3,634	3,631	3,660	3,436	3,528	3,616	4,247	3,877	4,388
Industrial	1,249	1,513	1,743	1,437	1,421	1,332	1,291	1,451	1,532	1,593	1,540	1,475
Educational	17,518	17,617	17,749	17,453	18,569	18,488	18,595	18,955	19,608	21,374	20,707	20,776
Hospital	4,093	4,228	4,175	3,738	4,026	4,265	4,426	3,846	3,848	3,914	4,115	4,481
Other ³	17,897	19,879	19,232	19,039	19,655	21,479	20,603	21,006	20,435	22,091	22,271	24,206
Highways and streets	35,780	34,280	36,541	36,017	37,633	38,260	40,997	38,240	37,078	37,661	35,876	34,833
Military facilities	2,681	1,905	1,963	2,149	2,198	2,326	2,460	2,454	2,350	2,214	2,270	2,747
Conservation and development	5,809	6,906	5,401	5,970	6,042	5,918	6,338	5,891	7,659	7,295	6,388	7,890
Other public construction	25,027	24,130	23,660	24,183	23,019	24,906	27,119	26,679	26,975	27,108	26,012	27,194
Sewer systems	8,292	7,920	8,557	8,915	8,500	9,043	9,479	9,220	9,859	9,063	9,459	10,635
Water supply facilities	4,777	4,001	4,461	4,421	4,287	4,621	5,157	4,864	5,749	5,851	4,809	5,015
Miscellaneous public ⁴	11,958	12,210	10,642	10,846	10,233	11,242	12,483	12,595	11,368	12,194	11,744	11,544

See footnotes at end of table.

Table 4b. Monthly Value of Construction Put in Place: 1994-1996—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	535,047	536,911	538,342	536,882	528,908	529,547	532,329	529,154	533,200	534,727	536,617	541,886
Private construction	409,585	412,660	410,983	407,263	401,824	400,553	406,669	401,824	406,111	407,541	408,739	414,690
Residential buildings	241,040	237,713	235,082	229,595	226,573	222,905	224,801	227,549	229,968	231,355	232,742	235,441
New housing units	169,976	166,260	164,543	160,344	157,903	155,083	157,573	161,327	163,724	165,562	166,588	169,225
1 unit	153,268	149,392	146,263	142,874	140,522	138,380	139,727	142,881	145,336	147,361	148,135	149,444
2 units or more	16,709	16,868	18,280	17,470	17,382	16,703	17,846	18,446	18,387	18,201	18,453	19,781
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	126,205	131,258	133,792	135,247	134,438	136,399	139,528	134,173	135,992	136,332	136,782	139,069
Industrial	29,791	32,247	32,213	34,410	33,783	33,132	34,274	31,887	32,239	31,630	32,345	32,104
Office	24,313	24,378	25,156	25,948	27,148	26,493	28,264	26,324	25,330	24,564	23,960	25,095
Hotels, motels	6,013	6,042	7,429	5,450	6,240	6,581	6,851	6,934	7,271	7,589	9,357	9,653
Other commercial	39,761	41,968	43,618	42,207	40,556	43,667	42,887	41,697	43,286	43,998	43,643	44,420
Religious	3,812	4,091	3,832	4,394	4,507	4,555	4,672	4,520	4,593	4,661	4,219	3,957
Educational	5,157	5,421	5,250	5,646	5,295	5,655	5,787	6,056	5,607	5,148	5,370	5,192
Hospital and institutional	11,502	11,820	11,097	11,539	11,278	10,388	11,045	10,841	11,318	11,465	11,231	11,482
Miscellaneous ¹	5,856	5,290	5,196	5,654	5,630	5,929	5,749	5,914	6,348	7,278	6,656	7,165
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	11,242	10,677	11,246	11,967	10,375	11,689	12,265	10,765	11,134	10,831	10,729	10,724
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	2,784	2,908	3,001	3,121	2,898	2,783	3,421	3,018	3,074	2,794	2,147	2,839
Public construction	125,462	124,251	127,359	129,619	127,085	128,993	125,660	127,330	127,088	127,186	127,877	127,196
Buildings	53,793	53,651	54,025	54,583	54,221	55,572	53,027	52,712	53,790	52,526	53,111	52,314
Housing and redevelopment	4,144	4,114	4,152	4,308	4,140	4,493	4,309	4,412	4,226	4,481	4,374	4,423
Industrial	1,650	1,731	1,628	1,584	1,399	1,329	1,423	1,515	1,636	1,462	1,444	1,348
Educational	20,889	21,301	21,572	21,423	21,106	22,083	21,474	21,448	22,164	21,578	21,483	21,533
Hospital	4,247	4,414	4,310	4,518	4,574	4,248	4,257	3,916	4,572	4,040	4,511	4,125
Other ³	22,863	22,090	22,363	22,750	23,001	23,419	21,563	21,421	21,193	20,966	21,298	20,885
Highways and streets	34,863	33,989	36,274	35,810	35,942	35,869	36,600	37,670	36,319	37,883	36,782	37,822
Military facilities	2,776	2,664	3,301	2,837	2,941	3,076	3,073	3,088	3,309	2,265	3,133	3,335
Conservation and development	6,950	7,098	7,382	6,680	6,051	6,404	6,476	7,013	6,031	4,717	5,866	6,028
Other public construction	27,079	26,850	26,377	29,710	27,930	28,072	26,485	26,847	27,638	29,795	28,987	27,698
Sewer systems	9,688	9,762	9,729	9,285	9,847	10,774	9,652	9,562	9,873	10,077	10,236	10,058
Water supply facilities	5,704	6,117	5,029	5,137	4,926	5,222	5,639	5,974	5,378	5,714	6,009	5,632
Miscellaneous public ⁴	11,686	10,971	11,619	15,287	13,157	12,076	11,193	11,311	12,387	14,003	12,742	12,008

See footnotes at end of table.

Table 4B. Monthly Value of Construction Put in Place: 1994-1996—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	550,748	546,059	548,550	562,889	562,287	568,189	566,999	570,996	579,959	584,140	586,226	579,109
Private construction	420,298	421,747	421,244	431,083	428,467	438,624	436,845	443,553	444,388	448,951	448,907	447,045
Residential buildings	237,392	239,296	242,957	248,755	249,677	250,201	249,400	249,211	248,957	247,901	248,259	247,899
New housing units	171,124	173,454	176,542	181,387	181,834	182,395	181,169	181,092	180,650	179,886	180,036	179,112
1 unit	151,215	153,318	155,924	159,027	160,162	161,133	161,964	161,978	161,197	160,153	159,293	159,267
2 units or more	19,909	20,136	20,618	22,360	21,672	21,262	19,206	19,114	19,453	19,733	20,743	19,845
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	141,679	140,617	138,982	143,384	141,795	150,364	146,896	152,620	153,539	159,310	159,895	157,371
Industrial	33,414	32,081	31,355	31,888	30,161	31,978	30,537	30,968	32,845	34,738	33,244	30,752
Office	23,501	23,752	23,664	25,198	26,525	29,822	28,891	28,988	29,646	29,961	29,987	29,531
Hotels, motels	10,500	10,888	10,446	11,260	10,146	11,212	11,487	12,888	12,701	12,684	13,054	13,816
Other commercial	45,305	45,419	45,357	46,679	46,026	46,864	45,428	48,581	47,067	49,903	50,157	48,863
Religious	4,193	4,162	4,082	4,274	4,315	4,820	4,343	4,571	4,666	4,609	4,948	5,122
Educational	5,306	5,408	5,900	5,603	5,928	6,584	6,713	7,084	7,228	7,556	7,972	7,635
Hospital and institutional	11,896	11,105	10,818	11,112	11,544	11,738	11,918	12,388	12,347	12,291	12,832	13,650
Miscellaneous ¹	7,564	7,803	7,359	7,370	7,149	7,346	7,579	7,154	7,040	7,568	7,702	8,002
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	11,999	11,685	11,258	11,754	11,625	10,786	10,906	11,861	11,489	11,893	12,995	14,640
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	2,742	2,695	2,552	2,521	2,248	2,361	2,137	2,785	2,099	2,347	2,101	2,157
Public construction	130,450	124,312	127,306	131,807	133,820	129,565	130,154	127,443	135,572	135,188	137,319	132,064
Buildings	55,999	50,549	53,791	54,202	57,140	54,616	56,390	55,986	59,637	58,348	61,588	59,626
Housing and redevelopment	4,702	4,107	4,007	4,021	4,815	4,034	4,781	4,385	5,108	4,671	4,947	4,446
Industrial	1,321	1,358	1,522	1,469	1,414	1,468	1,519	1,583	1,713	878	1,122	1,090
Educational	22,321	21,154	22,196	22,336	23,415	22,217	22,778	23,066	23,547	24,068	24,964	24,343
Hospital	4,380	4,625	4,736	4,617	4,677	4,181	4,272	4,068	4,796	4,659	4,425	5,064
Other ³	23,275	19,305	21,331	21,758	22,820	22,716	23,041	22,884	24,472	24,072	26,129	24,684
Highways and streets	37,649	39,520	37,385	38,119	37,166	37,227	37,614	35,196	38,338	38,367	38,610	39,585
Military facilities	3,128	2,923	2,415	2,721	2,640	2,463	2,301	2,278	2,482	2,531	2,365	2,241
Conservation and development	5,301	5,317	5,807	6,017	5,733	5,960	5,706	6,154	7,177	5,573	5,710	5,223
Other public construction	28,372	26,002	27,906	30,748	31,140	29,298	28,143	27,828	27,939	30,369	29,046	25,389
Sewer systems	9,730	9,436	9,770	11,138	10,864	9,779	9,795	10,549	9,750	11,155	10,269	9,704
Water supply facilities	5,198	5,531	5,366	6,367	6,115	5,863	5,625	5,479	5,997	6,693	6,080	5,854
Miscellaneous public ⁴	13,445	11,035	12,770	13,243	14,162	13,656	12,724	11,801	12,192	12,521	12,697	9,831

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 1995-May 1997—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														
1995: May ^f	472,025	356,396	198,574	138,390	123,157	15,234	120,680	30,326	24,370	5,602	36,406	4,046	4,754	10,124	5,054	(NA)	9,536	2,664		
June ^f	470,538	354,130	195,018	135,681	121,067	14,614	121,894	29,608	23,676	5,881	39,023	4,070	5,053	9,283	5,298	(NA)	10,588	2,533		
July ^f	472,711	359,496	196,849	137,980	122,353	15,627	124,579	30,602	25,236	6,117	38,292	4,171	5,167	9,862	5,133	(NA)	11,020	3,104		
August ^f	469,154	354,235	198,386	140,651	124,569	16,082	119,691	28,445	23,483	6,185	37,196	4,032	5,403	9,671	5,276	(NA)	9,672	2,751		
September ^f	471,059	356,756	199,798	142,245	126,270	15,975	120,881	28,657	22,516	6,463	38,477	4,082	4,984	10,060	5,643	(NA)	9,950	2,795		
October ^f	471,405	357,459	201,003	143,842	128,029	15,813	120,755	28,016	21,757	6,721	38,971	4,129	4,559	10,155	6,446	(NA)	9,636	2,528		
November ^f	473,080	358,712	202,385	144,859	128,813	16,046	121,261	28,675	21,241	8,295	38,690	3,740	4,761	9,957	5,901	(NA)	9,512	1,940		
December ^f	477,310	363,660	204,554	147,024	129,839	17,186	123,179	28,436	22,228	8,550	39,345	3,505	4,599	10,170	6,347	(NA)	9,490	2,563		
1996: January ^f	484,138	368,090	206,069	148,545	131,263	17,283	125,268	29,544	20,779	9,284	40,057	3,708	4,691	10,518	6,688	(NA)	10,581	2,462		
February ^f	479,163	368,890	207,542	150,437	132,974	17,464	124,110	28,315	20,963	9,610	40,087	3,673	4,773	9,802	6,887	(NA)	10,286	2,411		
March ^f	480,862	368,244	210,900	153,248	135,350	17,898	122,451	27,626	20,849	9,204	39,962	3,597	5,198	9,532	6,484	(NA)	9,876	2,275		
April ^f	493,871	377,113	216,121	157,590	138,164	19,426	126,441	28,120	22,220	9,930	41,163	3,769	4,941	9,799	6,499	(NA)	10,311	2,249		
May ^f	492,125	373,823	216,358	157,569	138,788	18,780	124,710	26,527	23,329	8,924	40,480	3,795	5,214	10,153	6,287	(NA)	10,179	2,002		
June ^f	494,882	380,650	215,319	156,966	138,669	18,298	131,667	28,002	26,114	9,818	41,036	4,221	5,765	10,278	6,432	(NA)	9,436	2,099		
July ^f	490,878	376,661	212,981	154,713	138,312	16,401	127,958	26,600	25,167	10,006	39,571	3,783	5,848	10,381	6,601	(NA)	9,500	1,893		
August ^f	493,282	381,760	212,456	154,384	138,089	16,295	132,713	26,928	25,207	11,207	42,245	3,974	6,160	10,772	6,221	(NA)	10,287	2,456		
September ^f	499,575	381,523	212,058	153,875	137,306	16,569	132,934	28,437	25,668	10,996	40,750	4,040	6,258	10,690	6,095	(NA)	9,904	1,840		
October ^f	502,583	385,003	210,800	152,965	136,185	16,780	137,811	30,050	25,918	10,972	43,169	3,987	6,536	10,632	6,546	(NA)	10,271	2,057		
November ^f	504,085	384,631	210,746	152,832	135,223	17,609	138,318	28,758	25,940	11,292	43,388	4,280	6,896	11,100	6,663	(NA)	11,251	1,843		
December ^f	496,676	382,146	210,084	151,790	134,972	16,818	135,665	26,510	25,458	11,910	42,123	4,416	6,582	11,767	6,899	(NA)	12,676	1,887		
1997: January ^f	495,257	380,158	209,212	151,205	134,252	16,953	138,951	27,499	26,408	11,162	44,324	4,209	6,440	11,783	7,125	(NA)	10,117	1,633		
February ^f	509,850	387,879	213,959	156,092	136,300	19,792	141,627	27,821	28,018	11,151	43,874	4,537	6,789	11,931	7,505	(NA)	10,206	1,673		
March ^f	507,140	386,485	216,148	156,696	137,461	19,235	137,218	26,086	25,764	11,109	43,479	4,871	6,346	12,093	7,471	(NA)	9,847	1,787		
April ^f	507,165	388,408	216,006	156,538	137,307	19,230	137,569	26,310	25,405	10,615	42,301	5,047	7,511	12,699	7,680	(NA)	10,573	1,842		
May ^p	495,860	384,701	214,583	155,065	135,202	19,863	136,008	26,620	25,216	10,641	41,635	5,101	6,910	11,699	8,187	(NA)	(NA)	1,638		
PERCENT CHANGE																				
April 1997-																				
May 1997	-2	-1	-1	-1	-2	3	-1	1	-1	(Z)	-2	1	-8	-8	7	(NA)	(NA)	-11		

See footnotes at end of table.

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

[Millions of dollars]

Period		Public construction												
		Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
			Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
1995:	May ^f	115,628	48,584	3,629	1,256	18,946	4,106	20,647	33,372	2,686	5,511	8,968	4,414	12,093
	June ^f	116,408	49,578	3,931	1,188	19,734	3,796	20,929	32,937	2,786	5,769	9,707	4,642	10,988
	July ^f	113,215	47,271	3,773	1,271	19,173	3,801	19,253	33,485	2,776	5,834	8,696	4,995	10,157
	August ^f	114,919	46,933	3,846	1,352	19,133	3,493	19,109	34,559	2,792	6,352	8,661	5,310	10,311
	September ^f	114,303	47,729	3,671	1,454	19,702	4,064	18,838	33,198	2,984	5,448	8,919	4,764	11,260
	October ^f	113,946	46,449	3,893	1,295	19,112	3,578	18,570	34,377	2,032	4,261	9,103	5,052	12,673
	November ^f	114,367	47,010	3,804	1,280	19,045	3,999	18,882	33,196	2,802	5,299	9,247	5,304	11,510
	December ^f	113,651	46,262	3,843	1,194	19,073	3,653	18,499	34,074	2,980	5,446	9,085	4,967	10,837
1996:	January ^f	116,049	49,437	4,082	1,168	19,735	3,872	20,579	33,645	2,780	4,776	8,765	4,576	12,069
	February ^f	110,273	44,553	3,562	1,198	18,671	4,082	17,039	35,129	2,589	4,781	8,486	4,865	9,870
	March ^f	112,619	47,341	3,478	1,341	19,556	4,172	18,794	33,084	2,134	5,208	8,762	4,707	11,381
	April ^f	116,758	47,745	3,494	1,296	19,697	4,072	19,187	33,823	2,406	5,396	9,990	5,585	11,813
	May ^f	118,302	50,193	4,172	1,243	20,594	4,113	20,070	32,949	2,332	5,132	9,726	5,359	12,611
	June ^f	114,232	47,764	3,471	1,286	19,454	3,661	19,892	32,974	2,169	5,321	8,731	5,134	12,138
	July ^f	114,217	49,039	4,083	1,323	19,841	3,721	20,070	33,228	2,019	5,063	8,691	4,908	11,270
	August ^f	111,522	48,609	3,738	1,377	20,057	3,538	19,899	31,010	1,995	5,431	9,311	4,760	10,406
	September ^f	118,052	51,562	4,351	1,483	20,387	4,152	21,188	33,630	2,162	6,290	8,545	5,178	10,686
	October ^f	117,581	50,405	3,972	759	20,820	4,030	20,823	33,567	2,201	4,889	9,785	5,760	10,974
	November ^f	119,454	53,197	4,200	971	21,596	3,828	22,603	33,779	2,058	5,022	9,031	5,228	11,138
	December ^f	114,529	51,337	3,768	939	20,985	4,365	21,279	34,542	1,943	4,582	8,512	5,012	8,601
1997:	January ^f	115,099	51,287	3,664	973	20,897	4,484	21,269	33,016	2,205	5,089	8,333	5,224	9,945
	February ^f	121,971	52,689	3,947	958	21,626	4,552	21,606	35,860	2,230	5,028	8,851	5,648	11,664
	March ^f	120,655	51,532	3,836	872	21,436	4,090	21,297	35,477	1,908	5,225	8,540	5,995	11,978
	April ^f	118,757	52,164	3,976	1,217	21,628	4,218	21,126	36,070	2,075	4,454	8,575	5,095	10,324
	May ^p	111,159	47,837	3,874	841	20,534	3,942	18,647	31,694	2,169	4,640	8,857	4,648	11,313
PERCENT CHANGE														
April 1997-	May 1997	-6	-8	-3	-31	-5	-7	-12	-12	5	4	3	-9	10

NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised. ^ZLess 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: 1994-1996—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Type of construction	1994											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	462,070	460,783	476,745	481,067	485,944	488,573	488,130	485,462	486,376	483,249	479,710	484,295
Private construction	353,213	351,877	367,473	372,473	375,221	373,894	369,722	370,765	371,131	364,617	365,715	366,297
Residential buildings	212,888	212,082	217,864	221,441	223,010	222,023	220,923	219,509	219,572	215,201	214,313	214,591
New housing units	149,153	148,152	153,431	156,213	157,840	156,644	155,446	154,169	154,119	150,502	150,357	151,623
1 unit	138,878	137,467	142,002	144,404	145,456	144,195	143,028	140,850	138,828	136,774	135,672	136,930
2 units or more	10,275	10,686	11,429	11,809	12,384	12,449	12,418	13,319	15,291	13,728	14,685	14,693
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	102,427	101,541	111,671	113,498	114,747	113,354	110,741	112,353	113,736	112,319	114,519	113,757
Industrial	24,764	25,446	25,156	26,263	27,216	26,729	26,201	27,174	27,747	27,015	29,251	28,305
Office	17,935	19,033	22,224	21,416	21,484	20,116	19,520	20,339	21,166	20,732	21,603	20,910
Hotels, motels	3,921	4,162	4,512	4,995	4,723	4,229	3,542	3,873	4,112	4,090	4,694	4,772
Other commercial	29,934	28,834	33,165	34,957	34,821	35,677	36,059	36,072	36,687	37,265	35,175	36,237
Religious	3,525	3,505	3,546	3,536	3,792	3,705	3,629	3,800	3,554	3,540	3,379	3,502
Educational	5,290	4,570	4,960	4,661	4,392	4,392	4,489	4,092	4,042	4,082	4,421	4,568
Hospital and institutional	11,808	10,650	12,065	11,812	11,957	12,769	11,642	11,692	10,713	10,276	10,682	10,503
Miscellaneous ¹	5,250	5,339	6,043	5,996	6,093	5,736	5,660	5,310	5,716	5,320	5,314	4,960
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	9,374	9,909	9,759	9,126	9,319	9,901	9,724	10,425	9,704	9,724	9,864	10,535
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	3,051	2,733	2,444	2,468	2,701	2,885	3,158	2,870	2,870	2,729	2,632	2,561
Public construction	108,858	108,906	109,273	108,594	110,723	114,679	118,408	114,697	115,245	118,632	113,995	117,999
Buildings	41,432	43,508	43,713	42,458	44,131	45,747	44,770	44,965	44,980	48,580	47,674	49,943
Housing and redevelopment	2,910	2,719	3,280	3,371	3,356	3,361	3,144	3,213	3,270	3,816	3,462	3,886
Industrial	1,180	1,427	1,643	1,348	1,327	1,239	1,196	1,339	1,407	1,456	1,400	1,334
Educational	16,557	16,620	16,729	16,373	17,338	17,198	17,233	17,486	18,005	19,538	18,825	18,785
Hospital	3,869	3,988	3,935	3,506	3,759	3,967	4,102	3,548	3,533	3,578	3,741	4,052
Other ³	16,916	18,754	18,127	17,860	18,352	19,981	19,094	19,379	18,765	20,193	20,247	21,886
Highways and streets	35,321	33,840	35,966	35,381	36,895	37,473	39,764	36,841	35,618	35,936	34,103	33,017
Military facilities	2,587	1,839	1,891	2,063	2,103	2,220	2,332	2,313	2,207	2,067	2,110	2,541
Conservation and development	5,548	6,596	5,144	5,675	5,732	5,609	5,973	5,531	7,185	6,805	5,942	7,319
Other public construction	23,969	23,123	22,559	23,018	21,861	23,630	25,569	25,047	25,255	25,244	24,165	25,179
Sewer systems	7,919	7,564	8,150	8,475	8,064	8,572	8,934	8,657	9,248	8,454	8,800	9,866
Water supply facilities	4,440	3,704	4,107	4,063	3,929	4,228	4,701	4,418	5,222	5,286	4,328	4,494
Miscellaneous public ⁴	11,610	11,854	10,302	10,480	9,868	10,830	11,934	11,972	10,785	11,504	11,037	10,819

See footnotes at end of table.

Table 5b. **Monthly Value of Construction Put in Place: 1994-1996—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.**

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	479,965	481,000	482,259	480,196	472,025	470,538	472,711	469,154	471,059	471,405	473,080	477,310
Private construction	364,986	367,377	365,870	362,032	356,396	354,130	359,496	354,235	356,756	357,459	358,712	363,660
Residential buildings	212,558	209,254	206,939	201,753	198,574	195,018	196,849	198,386	199,798	201,003	202,385	204,554
New housing units	149,891	146,356	144,844	140,900	138,390	135,681	137,980	140,651	142,245	143,842	144,859	147,024
1 unit	135,157	131,507	128,753	125,548	123,157	121,067	122,353	124,569	126,270	128,029	128,813	129,839
2 units or more	14,734	14,848	16,091	15,351	15,234	14,614	15,627	16,082	15,975	15,813	16,046	17,186
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	113,698	118,251	120,533	121,625	120,680	121,894	124,579	119,691	120,881	120,755	121,261	123,179
Industrial	26,839	29,052	29,021	30,944	30,326	29,608	30,602	28,445	28,657	28,016	28,675	28,436
Office	21,903	21,962	22,663	23,334	24,370	23,676	25,236	23,483	22,516	21,757	21,241	22,228
Hotels, motels	5,417	5,443	6,693	4,901	5,602	5,881	6,117	6,185	6,463	6,721	8,295	8,550
Other commercial	35,821	37,809	39,295	37,956	36,406	39,023	38,292	37,196	38,477	38,971	38,690	39,345
Religious	3,434	3,686	3,452	3,951	4,046	4,070	4,171	4,032	4,082	4,129	3,740	3,505
Educational	4,646	4,884	4,730	5,077	4,754	5,053	5,167	5,403	4,984	4,559	4,761	4,599
Hospital and institutional	10,362	10,649	9,998	10,376	10,124	9,283	9,862	9,671	10,060	10,155	9,957	10,170
Miscellaneous ¹	5,275	4,766	4,681	5,085	5,054	5,298	5,133	5,276	5,643	6,446	5,901	6,347
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	10,536	9,988	10,500	11,081	9,536	10,588	11,020	9,672	9,950	9,636	9,512	9,490
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	2,590	2,695	2,774	2,874	2,664	2,533	3,104	2,751	2,795	2,528	1,940	2,563
Public construction	114,979	113,624	116,389	118,164	115,628	116,408	113,215	114,919	114,303	113,946	114,367	113,651
Buildings	48,383	48,249	48,586	48,997	48,584	49,578	47,271	46,933	47,729	46,449	47,010	46,262
Housing and redevelopment	3,654	3,622	3,655	3,785	3,629	3,931	3,773	3,846	3,671	3,893	3,804	3,843
Industrial	1,487	1,560	1,467	1,425	1,256	1,188	1,271	1,352	1,454	1,295	1,280	1,194
Educational	18,819	19,191	19,434	19,265	18,946	19,734	19,173	19,133	19,702	19,112	19,045	19,073
Hospital	3,826	3,883	3,976	4,063	4,106	3,796	3,801	3,493	4,064	3,578	3,999	3,653
Other ³	20,598	19,901	20,147	20,459	20,647	20,929	19,253	19,109	18,838	18,570	18,882	18,499
Highways and streets	32,766	31,855	33,901	33,342	33,372	32,937	33,485	34,559	33,198	34,377	33,196	34,074
Military facilities	2,554	2,446	3,028	2,596	2,686	2,786	2,776	2,792	2,984	2,032	2,802	2,980
Conservation and development	6,394	6,500	6,747	6,089	5,511	5,769	5,834	6,352	5,448	4,261	5,299	5,446
Other public construction	24,881	24,574	24,126	27,140	25,475	25,336	23,848	24,282	24,943	26,828	26,061	24,889
Sewer systems	8,913	8,939	8,893	8,464	8,968	9,707	8,696	8,661	8,919	9,103	9,247	9,085
Water supply facilities	5,097	5,467	4,494	4,599	4,414	4,642	4,995	5,310	4,764	5,052	5,304	4,967
Miscellaneous public ⁴	10,871	10,168	10,738	14,077	12,093	10,988	10,157	10,311	11,260	12,673	11,510	10,837

See footnotes at end of table.

Table 5b. **Monthly Value of Construction Put in Place: 1994-1996—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	484,138	479,163	480,862	493,871	492,125	494,882	490,878	493,282	499,575	502,583	504,085	496,676
Private construction	368,090	368,890	368,244	377,113	373,823	380,650	376,661	381,760	381,523	385,003	384,631	382,146
Residential buildings	206,069	207,542	210,900	216,121	216,358	215,319	212,981	212,456	212,058	210,800	210,746	210,084
New housing units	148,545	150,437	153,248	157,590	157,569	156,966	154,713	154,384	153,875	152,965	152,832	151,790
1 unit	131,263	132,974	135,350	138,164	138,788	138,669	138,312	138,089	137,306	136,185	135,223	134,972
2 units or more	17,283	17,464	17,898	19,426	18,780	18,298	16,401	16,295	16,569	16,780	17,609	16,818
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	125,268	124,110	122,451	126,441	124,710	131,667	127,958	132,713	132,934	137,811	138,318	135,665
Industrial	29,544	28,315	27,626	28,120	26,527	28,002	26,600	26,928	28,437	30,050	28,758	26,510
Office	20,779	20,963	20,849	22,220	23,329	26,114	25,167	25,207	25,668	25,918	25,940	25,458
Hotels, motels	9,284	9,610	9,204	9,930	8,924	9,818	10,006	11,207	10,996	10,972	11,292	11,910
Other commercial	40,057	40,087	39,962	41,163	40,480	41,036	39,571	42,245	40,750	43,169	43,388	42,123
Religious	3,708	3,673	3,597	3,769	3,795	4,221	3,783	3,974	4,040	3,987	4,280	4,416
Educational	4,691	4,773	5,198	4,941	5,214	5,765	5,848	6,160	6,258	6,536	6,896	6,582
Hospital and institutional	10,518	9,802	9,532	9,799	10,153	10,278	10,381	10,772	10,690	10,632	11,100	11,767
Miscellaneous ¹	6,688	6,887	6,484	6,499	6,287	6,432	6,601	6,221	6,095	6,546	6,663	6,899
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	10,581	10,286	9,876	10,311	10,179	9,436	9,500	10,287	9,904	10,271	11,251	12,676
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	2,462	2,411	2,275	2,249	2,002	2,099	1,893	2,456	1,840	2,057	1,843	1,887
Public construction	116,049	110,273	112,619	116,758	118,302	114,232	114,217	111,522	118,052	117,581	119,454	114,529
Buildings	49,437	44,553	47,341	47,745	50,193	47,764	49,039	48,609	51,562	50,405	53,197	51,337
Housing and redevelopment	4,082	3,562	3,478	3,494	4,172	3,471	4,083	3,738	4,351	3,972	4,200	3,768
Industrial	1,168	1,198	1,341	1,296	1,243	1,286	1,323	1,377	1,483	759	971	939
Educational	19,735	18,671	19,556	19,697	20,594	19,454	19,841	20,057	20,387	20,820	21,596	20,985
Hospital	3,872	4,082	4,172	4,072	4,113	3,661	3,721	3,538	4,152	4,030	3,828	4,365
Other ³	20,579	17,039	18,794	19,187	20,070	19,892	20,070	19,899	21,188	20,823	22,603	21,279
Highways and streets	33,645	35,129	33,084	33,823	32,949	32,974	33,228	31,010	33,630	33,567	33,779	34,542
Military facilities	2,780	2,589	2,134	2,406	2,332	2,169	2,019	1,995	2,162	2,201	2,058	1,943
Conservation and development	4,776	4,781	5,208	5,396	5,132	5,321	5,063	5,431	6,290	4,889	5,022	4,582
Other public construction	25,410	23,221	24,851	27,388	27,696	26,004	24,869	24,477	24,409	26,519	25,397	22,125
Sewer systems	8,765	8,486	8,762	9,990	9,726	8,731	8,691	9,311	8,545	9,785	9,031	8,512
Water supply facilities	4,576	4,865	4,707	5,585	5,359	5,134	4,908	4,760	5,178	5,760	5,228	5,012
Miscellaneous public ⁴	12,069	9,870	11,381	11,813	12,611	12,138	11,270	10,406	10,686	10,974	11,138	8,601

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 1995-May 1997—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 1996	181,329	140,829	77,731	57,021	49,934	7,087	49,078	11,110	8,906	3,885	15,229	1,436	1,864	4,031	2,619	(NA)	3,976	871	
May 1997	187,185	146,127	78,736	57,692	50,286	7,405	54,099	10,577	10,603	4,522	16,129	1,822	2,530	4,888	3,030	(NA)	(NA)	660	
Percent change	3	4	1	1	1	4	10	-5	19	16	6	27	36	21	16	(NA)	(NA)	-24	
MONTHLY DATA																			
1995: May ^f	40,747	30,799	17,255	11,652	10,325	1,328	10,266	2,568	2,167	496	3,028	331	407	857	412	(NA)	828	229	
June ^f	42,967	32,031	18,174	12,181	10,866	1,315	10,540	2,504	2,005	508	3,450	328	504	786	454	(NA)	960	223	
July ^f	43,271	32,474	18,672	12,825	11,430	1,395	10,583	2,507	2,076	507	3,389	344	524	805	431	(NA)	891	270	
August ^f	45,125	33,122	19,211	13,375	11,896	1,478	10,670	2,425	2,039	525	3,481	370	557	824	448	(NA)	919	241	
September ^f	44,567	32,691	18,734	13,425	12,027	1,398	10,827	2,531	1,940	540	3,652	372	440	863	490	(NA)	846	257	
October ^f	43,639	32,706	18,721	13,344	11,949	1,394	10,834	2,519	1,849	567	3,647	389	386	895	582	(NA)	875	234	
November ^f	40,938	31,172	17,715	12,883	11,529	1,355	10,477	2,466	1,813	680	3,398	344	387	866	523	(NA)	860	176	
December ^f	36,130	28,018	15,162	11,044	9,673	1,371	10,057	2,519	1,782	704	3,089	289	322	840	512	(NA)	783	204	
1996: January ^f	32,871	25,545	13,615	10,173	8,926	1,247	9,236	2,223	1,598	702	2,807	280	317	821	487	(NA)	741	183	
February ^f	31,805	25,031	12,954	9,718	8,455	1,263	9,355	2,157	1,679	762	2,856	277	341	770	514	(NA)	744	167	
March ^f	35,119	27,664	15,292	11,473	10,095	1,378	9,568	2,203	1,692	765	2,941	271	373	778	546	(NA)	763	171	
April ^f	39,100	30,337	17,111	12,385	10,823	1,562	10,316	2,301	1,872	865	3,231	300	385	804	558	(NA)	852	177	
May ^f	42,434	32,252	18,759	13,272	11,635	1,637	10,603	2,226	2,065	791	3,394	308	448	858	514	(NA)	876	173	
June ^f	44,707	34,210	20,002	14,104	12,457	1,647	11,266	2,375	2,172	850	3,550	336	561	870	552	(NA)	794	185	
July ^f	45,466	34,338	20,227	14,429	12,967	1,462	11,034	2,239	2,122	826	3,538	315	594	847	553	(NA)	826	164	
August ^f	47,078	35,580	20,605	14,740	13,245	1,495	11,732	2,237	2,172	951	3,932	360	635	919	525	(NA)	942	214	
September ^f	47,191	35,016	19,923	14,551	13,101	1,450	11,928	2,481	2,242	921	3,895	374	567	918	529	(NA)	833	168	
October ^f	46,547	35,221	19,625	14,199	12,722	1,477	12,326	2,707	2,197	927	4,033	379	555	936	593	(NA)	974	190	
November ^f	43,474	33,369	18,417	13,557	12,069	1,488	11,921	2,504	2,207	927	3,804	386	540	965	589	(NA)	979	167	
December ^f	37,795	29,587	15,537	11,364	10,022	1,343	11,109	2,348	2,081	979	3,321	375	474	974	557	(NA)	1,096	151	
1997: January ^f	33,714	26,447	13,809	10,339	9,118	1,221	10,281	2,053	2,040	848	3,147	313	438	923	518	(NA)	715	123	
February ^f	33,527	26,155	13,374	10,095	8,666	1,428	10,452	2,087	2,178	883	3,027	324	456	943	554	(NA)	703	117	
March ^f	37,023	29,012	15,698	11,760	10,287	1,473	10,629	2,011	2,053	919	3,196	374	470	990	618	(NA)	767	134	
April ^f	40,322	31,361	17,170	12,368	10,824	1,543	11,255	2,188	2,145	928	3,324	395	571	1,047	658	(NA)	869	148	
May ^p	42,599	33,152	18,685	13,130	11,391	1,740	11,482	2,238	2,187	944	3,435	416	595	985	682	(NA)	(NA)	138	
PERCENT CHANGE																			
April 1997- May 1997	6	6	9	6	5	13	2	2	2	2	3	5	4	-6	4	(NA)	(NA)	-7	

See footnotes at end of table.

Table 6a. Monthly Value of Construction Put in Place: May 1995-May 1997—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 1996	40,500	18,464	1,498	510	7,178	1,647	7,629	9,613	965	1,929	3,408	1,881	4,240
May 1997	41,059	19,560	1,515	396	7,753	1,709	8,188	9,735	829	1,830	3,155	1,955	3,997
Percent change	1	6	1	-22	8	4	7	1	-14	-5	-7	4	-6
MONTHLY DATA													
1995: May ^f	9,948	4,140	309	112	1,557	351	1,811	2,970	224	470	729	380	1,034
June ^f	10,937	4,493	348	106	1,827	335	1,877	3,393	238	518	867	416	1,013
July ^f	10,797	4,306	313	110	1,943	321	1,620	3,642	231	497	749	457	915
August ^f	12,003	4,515	329	109	2,085	282	1,710	4,320	237	587	844	489	1,012
September ^f	11,876	4,464	339	160	1,864	390	1,710	3,923	326	684	868	428	1,183
October ^f	10,932	3,990	339	86	1,642	305	1,619	3,965	140	310	865	495	1,168
November ^f	9,766	3,900	324	104	1,525	325	1,622	2,880	241	436	840	476	993
December ^f	8,113	3,535	311	98	1,377	301	1,447	2,022	264	414	679	389	810
1996: January ^f	7,325	3,565	314	92	1,340	300	1,518	1,469	221	338	615	315	802
February ^f	6,775	3,248	272	91	1,254	316	1,314	1,455	179	332	574	327	661
March ^f	7,455	3,567	273	109	1,403	337	1,445	1,572	182	387	639	337	772
April ^f	8,763	3,810	281	106	1,490	346	1,587	2,187	189	433	773	440	930
May ^f	10,182	4,274	358	112	1,691	348	1,765	2,930	194	439	807	462	1,075
June ^f	10,498	4,291	305	113	1,806	323	1,743	3,284	185	451	776	458	1,053
July ^f	11,128	4,492	343	112	2,002	318	1,717	3,744	168	455	754	449	1,066
August ^f	11,498	4,643	318	115	2,169	281	1,761	3,809	169	507	901	440	1,029
September ^f	12,174	4,802	393	160	1,937	395	1,917	3,949	236	769	833	466	1,120
October ^f	11,326	4,378	357	52	1,794	339	1,837	3,955	152	369	948	566	958
November ^f	10,104	4,395	360	79	1,735	314	1,907	2,866	177	420	808	469	970
December ^f	8,208	3,950	306	76	1,509	364	1,695	2,078	173	343	632	391	639
1997: January ^f	7,267	3,711	284	77	1,426	345	1,578	1,431	172	360	574	358	661
February ^f	7,372	3,738	287	69	1,456	342	1,584	1,461	148	338	564	365	758
March ^f	8,011	3,885	294	75	1,539	336	1,641	1,730	164	379	615	426	813
April ^f	8,962	4,175	322	97	1,653	358	1,746	2,366	163	363	662	407	827
May ^p	9,447	4,051	328	78	1,679	328	1,639	2,747	182	390	740	399	938
PERCENT CHANGE													
April 1997-													
May 1997	5	-3	2	-20	2	-8	-6	16	12	7	12	-2	13

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

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: 1994-1996—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Type of construction	1994												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	480,965	30,853	29,938	34,892	37,924	41,770	44,672	44,990	46,940	46,221	44,420	41,623	36,721
Private construction	367,265	24,207	23,378	27,663	29,916	32,360	33,845	33,669	34,796	34,132	33,254	31,893	28,151
Residential buildings	218,005	14,028	13,151	15,753	17,553	19,358	20,683	20,964	21,252	20,543	20,058	18,767	15,896
New housing units	153,250	10,220	9,523	11,468	12,285	13,308	14,085	14,471	14,631	14,516	13,954	13,395	11,393
1 unit	140,416	9,478	8,752	10,591	11,336	12,230	12,966	13,361	13,404	13,177	12,743	12,154	10,224
2 units or more	12,833	742	771	877	950	1,077	1,119	1,109	1,227	1,339	1,212	1,241	1,169
Improvements	64,755	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	111,416	7,465	7,509	8,794	9,215	9,720	9,745	9,479	10,062	10,254	9,951	9,977	9,245
Industrial	26,803	1,812	1,900	2,010	2,143	2,300	2,259	2,196	2,326	2,433	2,364	2,601	2,460
Office	20,553	1,368	1,497	1,830	1,808	1,905	1,680	1,614	1,773	1,841	1,716	1,861	1,661
Hotels, motels	4,308	295	328	377	435	418	365	296	329	343	345	384	392
Other commercial	34,756	2,058	1,987	2,435	2,732	2,884	3,128	3,212	3,415	3,528	3,459	3,075	2,842
Religious	3,584	264	254	277	274	306	303	292	351	326	335	308	295
Educational	4,471	358	309	371	344	399	439	441	416	369	346	349	329
Hospital and institutional	11,377	928	836	986	966	1,013	1,082	951	997	918	906	929	865
Miscellaneous ¹	5,565	382	397	507	513	496	490	478	456	496	479	469	401
Farm nonresidential	3,008	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	32,074	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	9,785	609	675	825	720	789	892	781	973	860	845	898	917
Railroads	3,186	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	13,877	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,308	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	918	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,763	228	189	182	192	230	252	274	253	266	254	239	203
Public construction	113,700	6,646	6,560	7,229	8,007	9,410	10,827	11,321	12,144	12,089	11,166	9,731	8,570
Buildings	45,177	2,953	3,127	3,343	3,373	3,741	4,137	4,069	4,310	4,199	4,110	3,945	3,870
Housing and redevelopment	3,326	221	204	264	274	282	297	265	271	298	332	300	317
Industrial	1,358	94	103	134	113	114	112	100	111	153	102	108	114
Educational	17,593	1,129	1,132	1,191	1,233	1,422	1,588	1,755	1,919	1,696	1,672	1,498	1,359
Hospital	3,787	293	305	320	293	313	353	344	294	330	299	309	335
Other ³	19,114	1,217	1,383	1,434	1,459	1,610	1,787	1,605	1,716	1,723	1,704	1,731	1,745
Highways and streets	36,151	1,507	1,339	1,747	2,229	3,231	3,853	4,265	4,642	4,277	4,070	2,978	2,011
Military facilities	2,196	204	123	162	162	176	190	194	196	241	142	182	225
Conservation and development	6,091	376	451	384	460	470	502	519	529	878	471	490	563
Other public construction	24,085	1,607	1,519	1,593	1,784	1,792	2,145	2,274	2,467	2,494	2,373	2,136	1,902
Sewer systems	8,592	563	501	611	651	646	776	768	838	905	809	789	736
Water supply facilities	4,443	309	240	296	317	339	381	428	407	470	515	390	351
Miscellaneous public ⁴	11,050	734	778	685	815	807	989	1,078	1,222	1,119	1,049	957	815

See footnotes at end of table.

Table 6b. Annual and Monthly Value of Construction Put in Place: 1994-1996—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	474,426	32,429	31,507	35,484	37,619	40,747	42,967	43,271	45,125	44,567	43,639	40,938	36,130
Private construction	359,411	25,241	24,591	27,609	28,958	30,799	32,031	32,474	33,122	32,691	32,706	31,172	28,018
Residential buildings	201,682	14,049	13,032	14,975	15,982	17,255	18,174	18,672	19,211	18,734	18,721	17,715	15,162
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	59,268	(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	2,693	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	31,767	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,071	717	681	867	844	828	960	891	919	846	875	860	783
Railroads	3,202	(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	5,004	(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	2,644	192	186	207	225	229	223	270	241	257	234	176	204
Public construction	115,014	7,188	6,916	7,875	8,662	9,948	10,937	10,797	12,003	11,876	10,932	9,766	8,113
Buildings	47,832	3,481	3,443	3,693	3,873	4,140	4,493	4,306	4,515	4,464	3,990	3,900	3,535
Housing and redevelopment	3,754	281	268	289	304	309	348	313	329	339	339	324	311
Industrial	1,348	112	113	122	116	112	106	110	109	160	86	104	98
Educational	19,237	1,280	1,297	1,390	1,451	1,557	1,827	1,943	2,085	1,864	1,642	1,525	1,377
Hospital	3,854	292	301	314	338	351	335	321	282	390	305	325	301
Other ³	19,638	1,516	1,464	1,578	1,663	1,811	1,877	1,620	1,710	1,710	1,619	1,622	1,447
Highways and streets	33,500	1,403	1,261	1,656	2,067	2,970	3,393	3,642	4,320	3,923	3,965	2,880	2,022
Military facilities	2,729	202	163	259	204	224	238	231	237	326	140	241	264
Conservation and development	5,773	429	442	521	464	470	518	497	587	684	310	436	414
Other public construction	25,180	1,673	1,607	1,747	2,053	2,144	2,296	2,121	2,345	2,480	2,528	2,309	1,878
Sewer systems	8,975	625	586	666	656	729	867	749	844	868	865	840	679
Water supply facilities	4,923	353	354	324	360	380	416	457	489	428	495	476	389
Miscellaneous public ⁴	11,282	694	666	757	1,037	1,034	1,013	915	1,012	1,183	1,168	993	810

See footnotes at end of table.

Table 6b. Annual and Monthly Value of Construction Put in Place: 1994-1996—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	493,587	32,871	31,805	35,119	39,100	42,434	44,707	45,466	47,078	47,191	46,547	43,474	37,795
Private construction	378,150	25,545	25,031	27,664	30,337	32,252	34,210	34,338	35,580	35,016	35,221	33,369	29,586
Residential buildings	212,069	13,615	12,954	15,292	17,111	18,759	20,002	20,227	20,605	19,923	19,625	18,417	15,537
New housing units	153,965	10,173	9,718	11,473	12,385	13,272	14,104	14,429	14,740	14,551	14,199	13,557	11,364
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	17,449	1,247	1,263	1,378	1,562	1,637	1,647	1,462	1,495	1,450	1,477	1,488	1,343
Improvements	58,104	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	130,394	9,236	9,355	9,568	10,316	10,603	11,266	11,034	11,732	11,928	12,326	11,921	11,109
Industrial	28,003	2,223	2,157	2,203	2,301	2,226	2,375	2,239	2,237	2,481	2,707	2,504	2,348
Office	24,099	1,598	1,679	1,692	1,872	2,065	2,172	2,122	2,172	2,242	2,197	2,207	2,081
Hotels, motels	10,263	702	762	765	865	791	850	826	951	921	927	927	979
Other commercial	41,301	2,807	2,856	2,941	3,231	3,394	3,550	3,538	3,932	3,895	4,033	3,804	3,321
Religious	3,961	280	277	271	300	308	336	315	360	374	379	386	375
Educational	5,790	317	341	373	385	448	561	594	635	567	555	540	474
Hospital and institutional	10,460	821	770	778	804	858	870	847	919	918	936	965	974
Miscellaneous ¹	6,516	487	514	546	558	514	552	553	525	529	593	589	557
Farm nonresidential	2,736	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	30,842	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	10,420	741	744	763	852	876	794	826	942	833	974	979	1,096
Railroads	4,030	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	11,191	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,291	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	910	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,109	183	167	171	177	173	185	164	214	168	190	167	151
Public construction	115,437	7,325	6,775	7,455	8,763	10,182	10,498	11,128	11,498	12,174	11,326	10,104	8,208
Buildings	49,415	3,565	3,248	3,567	3,810	4,274	4,291	4,492	4,643	4,802	4,378	4,395	3,950
Housing and redevelopment	3,881	314	272	273	281	358	305	343	318	393	357	360	306
Industrial	1,216	92	91	109	106	112	113	112	115	160	52	79	76
Educational	20,131	1,340	1,254	1,403	1,490	1,691	1,806	2,002	2,169	1,937	1,794	1,735	1,509
Hospital	3,981	300	316	337	346	348	323	318	281	395	339	314	364
Other ³	20,207	1,518	1,314	1,445	1,587	1,765	1,743	1,717	1,761	1,917	1,837	1,907	1,695
Highways and streets	33,297	1,469	1,455	1,572	2,187	2,930	3,284	3,744	3,809	3,949	3,955	2,866	2,078
Military facilities	2,225	221	179	182	189	194	185	168	169	236	152	177	173
Conservation and development	5,244	338	332	387	433	439	451	455	507	769	369	420	343
Other public construction	25,255	1,732	1,561	1,747	2,144	2,345	2,287	2,270	2,370	2,419	2,472	2,247	1,663
Sewer systems	9,060	615	574	639	773	807	776	754	901	833	948	808	632
Water supply facilities	5,121	315	327	337	440	462	458	449	440	466	566	469	391
Miscellaneous public ⁴	11,075	802	661	772	930	1,075	1,053	1,066	1,029	1,120	958	970	639

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 1995-May 1997—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1995:	May ^f	9,568	4,040	306	1,730	277	1,727	3,161	220	801	425	922
	June ^f	10,742	4,515	348	2,042	284	1,841	3,651	220	963	468	927
	July ^f	10,658	4,365	310	2,174	284	1,597	3,933	163	832	516	849
	August ^f	11,867	4,571	325	2,335	237	1,674	4,654	204	932	551	956
	September ^f	11,185	4,316	326	2,091	315	1,584	4,241	158	961	484	1,026
	October ^f	11,300	4,154	333	1,851	292	1,677	4,317	165	957	560	1,146
	November ^f	9,604	3,898	293	1,720	276	1,610	3,153	167	930	540	917
	December ^f	7,801	3,513	306	1,551	251	1,405	2,218	155	752	441	722
1996:	January ^f	7,050	3,551	309	1,515	277	1,450	1,625	121	683	358	713
	February ^f	6,510	3,214	270	1,421	253	1,270	1,618	135	639	372	534
	March ^f	7,189	3,540	269	1,592	260	1,419	1,756	144	712	384	653
	April ^f	8,591	3,818	270	1,689	269	1,590	2,437	157	862	502	815
	May ^f	10,102	4,279	333	1,921	256	1,770	3,267	157	902	527	970
	June ^f	10,593	4,371	297	2,062	293	1,719	3,664	178	870	523	988
	July ^f	11,392	4,626	337	2,298	267	1,724	4,189	192	850	515	1,021
	August ^f	11,871	4,865	316	2,494	250	1,806	4,273	207	1,021	506	999
	September ^f	11,966	4,841	394	2,236	335	1,876	4,451	202	951	540	983
	October ^f	11,990	4,679	373	2,072	318	1,917	4,469	221	1,080	658	882
	November ^f	10,314	4,562	363	2,003	275	1,920	3,237	203	918	546	848
	December ^f	8,346	4,066	310	1,750	306	1,699	2,354	149	721	457	600
1997:	January ^f	7,265	3,808	264	1,653	274	1,618	1,620	140	655	419	624
	February ^f	7,399	3,830	279	1,682	260	1,609	1,649	136	643	426	716
	March ^f	8,162	4,075	293	1,796	296	1,690	2,001	168	719	501	699
	April ^f	9,321	4,409	328	1,938	331	1,811	2,751	186	780	481	714
	May ^p	9,896	4,310	340	1,978	289	1,703	3,206	167	876	474	863
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1995:	May ^f	1,363	580	47	125	5	113	290	(NA)	246	297	203
	June ^f	1,369	521	50	118	2	90	260	(NA)	263	356	187
	July ^f	1,316	465	48	123	1	75	218	(NA)	256	389	159
	August ^f	1,413	499	53	123	2	79	243	(NA)	262	444	154
	September ^f	2,002	715	65	180	6	124	340	(NA)	361	600	275
	October ^f	889	358	57	97	2	52	150	(NA)	156	178	145
	November ^f	1,314	508	80	117	-	91	220	(NA)	269	316	183
	December ^f	1,285	485	52	111	4	89	230	(NA)	295	304	175
1996:	January ^f	1,191	488	53	104	1	63	268	(NA)	248	255	181
	February ^f	1,131	472	44	103	-	105	219	(NA)	202	234	204
	March ^f	1,239	513	45	124	1	122	221	(NA)	206	288	212
	April ^f	1,303	507	53	120	1	123	209	(NA)	214	326	228
	May ^f	1,415	586	80	128	1	141	237	(NA)	220	333	237
	June ^f	1,313	535	58	129	1	76	272	(NA)	210	328	197
	July ^f	1,283	538	64	129	1	98	247	(NA)	191	321	183
	August ^f	1,260	482	57	133	1	73	219	(NA)	193	367	168
	September ^f	2,005	713	68	185	1	121	338	(NA)	271	676	295
	October ^f	1,025	389	46	60	2	74	207	(NA)	175	199	210
	November ^f	1,300	527	61	91	2	87	285	(NA)	203	275	258
	December ^f	1,124	523	51	88	-	116	267	(NA)	200	242	131
1997:	January ^f	1,122	499	71	90	-	127	211	(NA)	199	271	132
	February ^f	1,090	497	58	79	2	135	223	(NA)	170	249	150
	March ^f	1,213	472	52	88	4	98	230	(NA)	192	275	252
	April ^f	1,216	491	50	114	1	89	237	(NA)	191	241	260
	May ^p	1,263	467	47	92	1	98	229	(NA)	215	294	246

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

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

Table 7b. Annual and Monthly Value of Public Construction Put in Place: 1994-1996—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Type of construction	1994												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	106,090	5,929	5,794	6,550	7,291	8,764	10,123	10,786	11,649	11,172	10,862	9,263	7,906
Total buildings	43,699	2,824	2,917	3,135	3,178	3,632	3,965	4,006	4,306	4,072	4,057	3,875	3,733
Housing and redevelopment	3,201	214	199	255	235	279	291	253	262	290	332	304	286
Educational	18,975	1,194	1,198	1,262	1,314	1,521	1,704	1,892	2,078	1,842	1,828	1,643	1,500
Hospital	3,234	241	263	270	259	285	276	279	257	283	269	260	293
Other ¹	18,289	1,175	1,257	1,348	1,370	1,547	1,693	1,582	1,709	1,657	1,628	1,668	1,654
Highways and streets	36,918	1,510	1,341	1,755	2,243	3,258	3,889	4,347	4,763	4,402	4,216	3,097	2,097
Conservation and development	2,088	105	133	123	136	142	181	223	199	263	187	182	215
Other State and local construction	23,385	1,491	1,404	1,538	1,734	1,732	2,088	2,210	2,381	2,436	2,402	2,109	1,860
Sewer systems	9,120	589	525	642	685	681	818	814	893	965	867	848	793
Water supply facilities	4,875	333	259	322	345	370	416	470	448	517	571	433	392
Miscellaneous nonbuilding ²	9,390	569	620	574	704	681	854	926	1,041	954	964	828	676
Federal construction	14,440	1,009	1,066	1,019	1,103	1,108	1,252	1,173	1,242	1,712	1,112	1,237	1,407
Total buildings	5,142	304	402	416	421	378	487	389	370	507	446	471	554
Housing	446	24	22	29	60	27	32	37	36	39	38	31	72
Industrial	1,465	100	109	142	121	122	121	108	120	166	112	119	126
Educational	26	1	1	1	1	2	3	2	2	5	1	5	3
Hospital	851	68	61	70	53	50	103	93	62	76	59	80	77
Other Federal buildings ³	2,354	112	209	174	186	178	228	150	150	220	236	236	276
Highways and streets	428	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,318	211	128	168	169	184	199	205	208	256	152	196	243
Conservation and development	4,376	289	339	281	348	353	349	327	365	673	318	344	391
Miscellaneous nonbuilding ⁴	2,176	188	182	134	140	156	172	202	245	225	148	190	194

See footnotes at end of table.

Table 7b. Annual and Monthly Value of Public Construction Put in Place: 1994-1996—Not Seasonally Adjusted in Current Dollars—Con.

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	111,417	6,687	6,479	7,242	8,285	9,568	10,742	10,658	11,867	11,185	11,300	9,604	7,801
Total buildings	47,580	3,413	3,364	3,578	3,854	4,040	4,515	4,365	4,571	4,316	4,154	3,898	3,513
Housing and redevelopment	3,717	296	269	288	319	306	348	310	325	326	333	293	306
Educational	21,507	1,420	1,437	1,542	1,613	1,730	2,042	2,174	2,335	2,091	1,851	1,720	1,551
Hospital	3,271	245	252	263	295	277	284	284	237	315	292	276	251
Other ¹	19,084	1,452	1,406	1,485	1,627	1,727	1,841	1,597	1,674	1,584	1,677	1,610	1,405
Highways and streets	36,076	1,475	1,329	1,750	2,194	3,161	3,651	3,933	4,654	4,241	4,317	3,153	2,218
Conservation and development	2,194	171	174	196	202	220	220	163	204	158	165	167	155
Other State and local construction	25,567	1,627	1,612	1,718	2,035	2,148	2,357	2,197	2,438	2,471	2,663	2,386	1,915
Sewer systems	9,895	680	640	729	720	801	963	832	932	961	957	930	752
Water supply facilities	5,539	395	397	362	402	425	468	516	551	484	560	540	441
Miscellaneous nonbuilding ²	10,132	552	575	627	913	922	927	849	956	1,026	1,146	917	722
Federal construction	15,875	1,185	1,111	1,398	1,230	1,363	1,369	1,316	1,413	2,002	889	1,314	1,285
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	432	(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: 1994-1996—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 . . .	115,917	7,050	6,510	7,189	8,591	10,102	10,593	11,392	11,871	11,966	11,990	10,314	8,346
Total buildings	50,412	3,551	3,214	3,540	3,818	4,279	4,371	4,626	4,865	4,841	4,679	4,562	4,066
Housing and redevelopment	3,842	309	270	269	270	333	297	337	316	394	373	363	310
Educational	23,052	1,515	1,421	1,592	1,689	1,921	2,062	2,298	2,494	2,236	2,072	2,003	1,750
Hospital	3,359	277	253	260	269	256	293	267	250	335	318	275	306
Other ¹	20,160	1,450	1,270	1,419	1,590	1,770	1,719	1,724	1,806	1,876	1,917	1,920	1,699
Highways and streets	37,339	1,625	1,618	1,756	2,437	3,267	3,664	4,189	4,273	4,451	4,469	3,237	2,354
Conservation and development	2,066	121	135	144	157	157	178	192	207	202	221	203	149
Other State and local construction	26,099	1,753	1,544	1,749	2,179	2,399	2,380	2,385	2,526	2,473	2,621	2,312	1,777
Sewer systems	10,207	683	639	712	862	902	870	850	1,021	951	1,080	918	721
Water supply facilities	5,887	358	372	384	502	527	523	515	506	540	658	546	457
Miscellaneous nonbuilding ²	10,006	713	534	653	815	970	988	1,021	999	983	882	848	600
Federal construction	15,589	1,191	1,131	1,239	1,303	1,415	1,313	1,283	1,260	2,005	1,025	1,300	1,124
Total buildings	6,273	488	472	513	507	586	535	538	482	713	389	527	523
Housing	681	53	44	45	53	80	58	64	57	68	46	61	51
Industrial	1,392	104	103	124	120	128	129	129	133	185	60	91	88
Educational	12	1	-	1	1	1	1	1	1	1	2	2	-
Hospital	1,199	63	105	122	123	141	76	98	73	121	74	87	116
Other Federal buildings ³	2,989	268	219	221	209	237	272	247	219	338	207	285	267
Highways and streets	435	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,534	248	202	206	214	220	210	191	193	271	175	203	200
Conservation and development	3,843	255	234	288	326	333	328	321	367	676	199	275	242
Miscellaneous nonbuilding ⁴	2,504	181	204	212	228	237	197	183	168	295	210	258	131

- Represents zero or rounds to zero. 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 1995-May 1997—Seasonally Adjusted Annual Rate in Current Dollars

[Millions of dollars]

Period		State and locally owned public construction											
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²	
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹						
1995:	May ^f	111,363	47,727	3,612	21,056	3,306	19,754	35,515	2,569	9,847	4,926	10,778	
	June ^f	113,463	49,711	3,932	22,057	3,231	20,490	35,442	2,360	10,774	5,222	9,955	
	July ^f	110,150	47,645	3,752	21,458	3,389	19,046	36,167	1,778	9,652	5,639	9,269	
	August ^f	110,946	46,539	3,761	21,422	2,942	18,414	37,230	2,051	9,562	5,974	9,591	
	September ^f	110,379	47,303	3,640	22,111	3,446	18,106	35,887	1,588	9,873	5,378	10,349	
	October ^f	113,551	47,137	3,623	21,548	3,260	18,707	37,432	1,664	10,077	5,714	11,526	
	November ^f	111,795	46,847	3,392	21,480	3,384	18,591	36,344	1,905	10,236	6,009	10,454	
	December ^f	111,301	46,404	3,791	21,491	3,039	18,084	37,384	2,089	10,058	5,632	9,735	
	1996:	January ^f	114,785	49,769	4,027	22,307	3,577	19,859	37,214	1,867	9,730	5,198	11,007
		February ^f	108,635	44,342	3,525	21,152	3,239	16,425	39,062	2,065	9,436	5,531	8,199
		March ^f	111,940	47,486	3,454	22,188	3,233	18,611	36,964	2,225	9,770	5,366	10,129
		April ^f	115,653	48,001	3,369	22,322	3,114	19,196	37,686	2,015	11,138	6,367	10,446
May ^f		117,597	50,643	3,928	23,402	3,119	20,194	36,739	1,846	10,864	6,115	11,391	
June ^f		114,291	48,527	3,373	22,206	3,320	19,627	36,795	2,031	9,779	5,863	11,296	
July ^f		115,232	50,031	4,021	22,769	3,118	20,123	37,179	1,996	9,795	5,625	10,607	
August ^f		113,030	50,230	3,707	23,056	3,199	20,268	34,789	2,057	10,549	5,479	9,926	
September ^f		118,668	53,022	4,477	23,537	3,670	21,338	37,903	2,043	9,750	5,997	9,953	
October ^f		119,707	52,651	3,997	24,042	3,569	21,043	37,926	2,263	11,155	6,693	9,019	
November ^f		121,343	55,087	4,193	24,935	3,348	22,610	38,162	2,273	10,269	6,080	9,473	
December ^f		117,938	53,149	3,813	24,339	3,624	21,374	39,120	2,015	9,704	5,854	8,096	
1997:	January ^f	117,964	53,228	3,422	24,215	3,599	21,991	37,385	2,143	9,508	6,106	9,594	
	February ^f	124,444	54,039	3,822	24,976	3,378	21,864	40,471	2,114	10,082	6,591	11,147	
	March ^f	126,298	54,852	3,903	25,034	3,654	22,261	41,042	2,587	9,992	7,044	10,781	
	April ^f	124,526	55,040	4,049	25,360	3,830	21,801	41,951	2,357	10,102	6,028	9,049	
	May ^p	116,868	51,385	4,069	24,201	3,595	19,521	36,989	2,026	10,478	5,518	10,472	
		Federally owned public construction											
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴		
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³	
1995:	May ^f	15,722	6,494	528	1,399	50	1,268	3,247	(NA)	2,941	3,481	2,379	
	June ^f	15,530	5,862	561	1,329	26	1,017	2,929	(NA)	3,076	4,044	2,121	
	July ^f	15,510	5,382	558	1,423	16	868	2,517	(NA)	3,073	4,698	1,924	
	August ^f	16,383	6,173	651	1,515	26	974	3,007	(NA)	3,088	4,962	1,720	
	September ^f	16,709	6,487	585	1,636	54	1,126	3,086	(NA)	3,309	4,443	2,037	
	October ^f	13,635	5,389	858	1,462	30	780	2,258	(NA)	2,258	3,053	2,477	
	November ^f	16,083	6,264	983	1,444	2	1,127	2,707	(NA)	3,133	3,961	2,287	
	December ^f	15,895	5,910	633	1,348	43	1,085	2,801	(NA)	3,335	3,940	2,273	
	1996:	January ^f	15,665	6,230	675	1,321	14	803	3,416	(NA)	3,128	3,434	2,438
		February ^f	15,677	6,208	582	1,358	3	1,386	2,880	(NA)	2,923	3,251	2,836
		March ^f	15,365	6,305	553	1,522	7	1,502	2,720	(NA)	2,415	3,583	2,641
		April ^f	16,153	6,201	652	1,469	15	1,503	2,561	(NA)	2,721	4,002	2,797
May ^f		16,223	6,498	886	1,414	13	1,558	2,626	(NA)	2,640	3,887	2,771	
June ^f		15,274	6,090	661	1,468	10	861	3,089	(NA)	2,463	3,929	2,359	
July ^f		14,922	6,359	761	1,519	8	1,154	2,917	(NA)	2,301	3,710	2,117	
August ^f		14,413	5,756	678	1,583	10	869	2,616	(NA)	2,278	4,096	1,875	
September ^f		16,904	6,614	631	1,713	10	1,126	3,134	(NA)	2,482	5,134	2,239	
October ^f		15,482	5,697	674	878	26	1,090	3,029	(NA)	2,531	3,310	3,502	
November ^f		15,976	6,501	754	1,122	30	1,077	3,519	(NA)	2,365	3,437	3,225	
December ^f		14,126	6,477	633	1,090	4	1,440	3,310	(NA)	2,241	3,208	1,735	
1997:	January ^f	14,761	6,287	897	1,128	4	1,598	2,660	(NA)	2,542	3,663	1,783	
	February ^f	15,884	6,944	816	1,108	24	1,885	3,112	(NA)	2,564	3,613	2,173	
	March ^f	14,882	5,459	605	1,021	46	1,131	2,657	(NA)	2,232	3,527	3,232	
	April ^f	15,108	6,165	631	1,427	10	1,117	2,979	(NA)	2,438	2,890	3,113	
	May ^p	14,422	5,026	511	991	9	1,052	2,464	(NA)	2,559	3,463	2,900	

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: 1994-1996—Seasonally Adjusted Annual Rate in Current Dollars**

[Millions of dollars]

Type of construction	1994											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	99,533	98,084	101,377	100,154	102,946	106,601	111,370	108,008	108,993	110,536	107,544	110,862
Total buildings	40,074	40,610	41,334	40,294	42,887	43,859	43,705	44,320	44,367	46,852	46,397	48,844
Housing and redevelopment	2,831	2,633	3,175	2,918	3,320	3,303	2,999	3,097	3,254	3,708	3,471	3,545
Educational	17,511	17,599	17,734	17,445	18,549	18,456	18,575	18,932	19,560	21,357	20,643	20,739
Hospital	3,236	3,386	3,323	3,102	3,438	3,130	3,318	3,103	3,143	3,073	3,078	3,585
Other ¹	16,495	16,992	17,102	16,828	17,580	18,970	18,812	19,189	18,410	18,714	19,206	20,975
Highways and streets	35,381	33,875	36,130	35,605	37,199	37,822	40,531	37,804	36,654	37,228	35,464	34,422
Conservation and development	1,710	2,064	1,917	1,767	1,742	1,966	2,429	1,890	2,667	1,876	2,061	2,887
Other State and local construction	22,368	21,534	21,997	22,489	21,118	22,954	24,706	23,994	25,305	24,580	23,622	24,709
Sewer systems	8,292	7,920	8,557	8,915	8,500	9,043	9,479	9,220	9,859	9,063	9,459	10,635
Water supply facilities	4,777	4,001	4,461	4,421	4,287	4,621	5,157	4,864	5,749	5,851	4,809	5,015
Miscellaneous nonbuilding ²	9,299	9,614	8,979	9,153	8,331	9,290	10,070	9,910	9,698	9,666	9,354	9,058
Federal construction	13,645	15,305	12,623	13,466	13,247	14,034	13,894	14,043	14,109	16,961	15,513	17,129
Total buildings	3,808	5,557	5,100	5,007	4,414	5,366	4,646	4,466	4,672	6,367	6,114	6,482
Housing	294	298	360	715	311	357	437	431	362	539	406	842
Industrial	1,249	1,513	1,743	1,437	1,421	1,332	1,291	1,451	1,532	1,593	1,540	1,475
Educational	6	18	15	8	20	32	19	23	48	17	65	37
Hospital	857	842	852	636	588	1,135	1,108	743	705	841	1,038	896
Other Federal buildings ³	1,402	2,887	2,130	2,211	2,075	2,509	1,790	1,818	2,025	3,377	3,066	3,232
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,681	1,905	1,963	2,149	2,198	2,326	2,460	2,454	2,350	2,214	2,270	2,747
Conservation and development	4,099	4,843	3,485	4,204	4,300	3,952	3,908	4,000	4,992	5,420	4,327	5,003
Miscellaneous nonbuilding ⁴	2,659	2,596	1,663	1,694	1,901	1,952	2,413	2,685	1,670	2,528	2,390	2,486

See footnotes at end of table.

Table 8b. Monthly Value of Public Construction Put in Place: 1994-1996—Seasonally Adjusted Annual Rate in Current Dollars—Con.

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	109,264	108,291	110,525	114,124	111,363	113,463	110,150	110,946	110,379	113,551	111,795	111,301
Total buildings	47,728	47,215	47,684	48,947	47,727	49,711	47,645	46,539	47,303	47,137	46,847	46,404
Housing and redevelopment	3,847	3,620	3,670	3,980	3,612	3,932	3,752	3,761	3,640	3,623	3,392	3,791
Educational	20,881	21,264	21,564	21,415	21,056	22,057	21,458	21,422	22,111	21,548	21,480	21,491
Hospital	3,203	3,268	3,292	3,527	3,306	3,231	3,389	2,942	3,446	3,260	3,384	3,039
Other ¹	19,797	19,063	19,157	20,025	19,754	20,490	19,046	18,414	18,106	18,707	18,591	18,084
Highways and streets	34,443	33,585	35,844	35,390	35,515	35,442	36,167	37,230	35,887	37,432	36,344	37,384
Conservation and development	2,770	2,693	2,912	2,783	2,569	2,360	1,778	2,051	1,588	1,664	1,905	2,089
Other State and local construction	24,323	24,798	24,085	27,004	25,551	25,951	24,561	25,127	25,601	27,317	26,700	25,425
Sewer systems	9,688	9,762	9,729	9,285	9,847	10,774	9,652	9,562	9,873	10,077	10,236	10,058
Water supply facilities	5,704	6,117	5,029	5,137	4,926	5,222	5,639	5,974	5,378	5,714	6,009	5,632
Miscellaneous nonbuilding ²	8,930	8,919	9,326	12,581	10,778	9,955	9,269	9,591	10,349	11,526	10,454	9,735
Federal construction	16,198	15,960	16,835	15,495	15,722	15,530	15,510	16,383	16,709	13,635	16,083	15,895
Total buildings	6,065	6,436	6,342	5,635	6,494	5,862	5,382	6,173	6,487	5,389	6,264	5,910
Housing	297	494	482	328	528	561	558	651	585	858	983	633
Industrial	1,650	1,731	1,628	1,584	1,399	1,329	1,423	1,515	1,636	1,462	1,444	1,348
Educational	8	37	8	7	50	26	16	26	54	30	2	43
Hospital	1,044	1,146	1,018	991	1,268	1,017	868	974	1,126	780	1,127	1,085
Other Federal buildings ³	3,066	3,027	3,206	2,725	3,247	2,929	2,517	3,007	3,086	2,258	2,707	2,801
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,776	2,664	3,301	2,837	2,941	3,076	3,073	3,088	3,309	2,265	3,133	3,335
Conservation and development	4,180	4,405	4,470	3,897	3,481	4,044	4,698	4,962	4,443	3,053	3,961	3,940
Miscellaneous nonbuilding ⁴	2,756	2,052	2,292	2,706	2,379	2,121	1,924	1,720	2,037	2,477	2,287	2,273

See footnotes at end of table.

Table 8b. Monthly Value of Public Construction Put in Place: 1994-1996—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	114,785	108,635	111,940	115,653	117,597	114,291	115,232	113,030	118,668	119,707	121,343	117,938
Total buildings	49,769	44,342	47,486	48,001	50,643	48,527	50,031	50,230	53,022	52,651	55,087	53,149
Housing and redevelopment	4,027	3,525	3,454	3,369	3,928	3,373	4,021	3,707	4,477	3,997	4,193	3,813
Educational	22,307	21,152	22,188	22,322	23,402	22,206	22,769	23,056	23,537	24,042	24,935	24,339
Hospital	3,577	3,239	3,233	3,114	3,119	3,320	3,118	3,199	3,670	3,569	3,348	3,624
Other ¹	19,859	16,425	18,611	19,196	20,194	19,627	20,123	20,268	21,338	21,043	22,610	21,374
Highways and streets	37,214	39,062	36,964	37,686	36,739	36,795	37,179	34,789	37,903	37,926	38,162	39,120
Conservation and development	1,867	2,065	2,225	2,015	1,846	2,031	1,996	2,057	2,043	2,263	2,273	2,015
Other State and local construction	25,935	23,166	25,265	27,951	28,369	26,939	26,027	25,954	25,700	26,867	25,822	23,654
Sewer systems	9,730	9,436	9,770	11,138	10,864	9,779	9,795	10,549	9,750	11,155	10,269	9,704
Water supply facilities	5,198	5,531	5,366	6,367	6,115	5,863	5,625	5,479	5,997	6,693	6,080	5,854
Miscellaneous nonbuilding ²	11,007	8,199	10,129	10,446	11,391	11,296	10,607	9,926	9,953	9,019	9,473	8,096
Federal construction	15,665	15,677	15,365	16,153	16,223	15,274	14,922	14,413	16,904	15,482	15,976	14,126
Total buildings	6,230	6,208	6,305	6,201	6,498	6,090	6,359	5,756	6,614	5,697	6,501	6,477
Housing	675	582	553	652	886	661	761	678	631	674	754	633
Industrial	1,321	1,358	1,522	1,469	1,414	1,468	1,519	1,583	1,713	878	1,122	1,090
Educational	14	3	7	15	13	10	8	10	10	26	30	4
Hospital	803	1,386	1,502	1,503	1,558	861	1,154	869	1,126	1,090	1,077	1,440
Other Federal buildings ³	3,416	2,880	2,720	2,561	2,626	3,089	2,917	2,616	3,134	3,029	3,519	3,310
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	3,128	2,923	2,415	2,721	2,640	2,463	2,301	2,278	2,482	2,531	2,365	2,241
Conservation and development	3,434	3,251	3,583	4,002	3,887	3,929	3,710	4,096	5,134	3,310	3,437	3,208
Miscellaneous nonbuilding ⁴	2,438	2,836	2,641	2,797	2,771	2,359	2,117	1,875	2,239	3,502	3,225	1,735

- Represents zero or rounds to zero. 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 1995-May 1997—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1995:	May ^f	101,371	42,766	3,165	18,901	2,967	17,732	32,975	2,340	8,968	4,414	9,906
	June ^f	102,428	44,350	3,440	19,711	2,888	18,311	32,545	2,126	9,707	4,642	9,058
	July ^f	99,269	42,475	3,285	19,159	3,026	17,005	33,090	1,601	8,696	4,995	8,411
	August ^f	100,167	41,439	3,279	19,110	2,625	16,426	34,156	1,858	8,661	5,310	8,743
	September ^f	99,304	41,974	3,163	19,654	3,063	16,094	32,804	1,435	8,919	4,764	9,408
	October ^f	101,747	41,690	3,148	19,086	2,887	16,570	33,968	1,503	9,103	5,052	10,431
	November ^f	99,989	41,473	2,949	19,043	3,000	16,482	32,801	1,721	9,247	5,304	9,444
	December ^f	99,442	41,038	3,293	19,035	2,692	16,017	33,679	1,887	9,085	4,967	8,786
1996:	January ^f	102,100	43,940	3,496	19,723	3,162	17,559	33,256	1,682	8,765	4,576	9,881
	February ^f	96,345	39,082	3,058	18,669	2,859	14,497	34,721	1,857	8,486	4,865	7,334
	March ^f	98,997	41,793	2,998	19,549	2,849	16,397	32,712	1,995	8,762	4,707	9,027
	April ^f	102,425	42,285	2,927	19,684	2,746	16,928	33,439	1,808	9,990	5,585	9,319
	May ^f	103,940	44,490	3,404	20,582	2,743	17,760	32,570	1,652	9,726	5,359	10,143
	June ^f	100,752	42,442	2,903	19,445	2,908	17,187	32,591	1,813	8,731	5,134	10,041
	July ^f	101,121	43,512	3,434	19,834	2,716	17,529	32,843	1,771	8,691	4,908	9,395
	August ^f	98,906	43,615	3,160	20,049	2,782	17,624	30,651	1,816	9,311	4,760	8,753
	September ^f	103,330	45,844	3,813	20,378	3,178	18,475	33,249	1,790	8,545	5,178	8,723
	October ^f	104,102	45,487	3,399	20,797	3,087	18,204	33,181	1,985	9,785	5,760	7,905
	November ^f	105,540	47,585	3,559	21,570	2,896	19,559	33,387	1,999	9,031	5,228	8,309
	December ^f	102,274	45,763	3,231	20,982	3,124	18,426	34,136	1,768	8,512	5,012	7,083
1997:	January ^f	102,291	45,875	2,903	20,893	3,105	18,974	32,593	1,879	8,333	5,224	8,386
	February ^f	108,155	46,693	3,253	21,605	2,922	18,913	35,346	1,856	8,851	5,648	9,761
	March ^f	107,937	46,868	3,321	21,397	3,123	19,027	35,109	2,211	8,540	5,995	9,215
	April ^f	105,906	46,911	3,440	21,619	3,265	18,586	35,642	2,001	8,575	5,095	7,681
	May ^p	98,947	43,575	3,442	20,526	3,049	16,557	31,293	1,713	8,857	4,648	8,860
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1995:	May ^f	14,258	5,818	463	1,256	45	1,138	2,915	(NA)	2,686	3,171	2,186
	June ^f	13,979	5,228	490	1,188	23	908	2,618	(NA)	2,786	3,643	1,930
	July ^f	13,946	4,796	488	1,271	14	775	2,247	(NA)	2,776	4,233	1,746
	August ^f	14,752	5,494	567	1,352	23	869	2,683	(NA)	2,792	4,495	1,568
	September ^f	14,999	5,755	509	1,454	48	1,001	2,743	(NA)	2,984	4,014	1,852
	October ^f	12,199	4,758	746	1,295	27	691	2,000	(NA)	2,032	2,758	2,242
	November ^f	14,378	5,536	855	1,280	2	999	2,400	(NA)	2,802	3,578	2,066
	December ^f	14,209	5,224	550	1,194	38	961	2,481	(NA)	2,980	3,559	2,051
1996:	January ^f	13,949	5,497	586	1,168	12	710	3,020	(NA)	2,780	3,094	2,188
	February ^f	13,928	5,470	504	1,198	2	1,223	2,542	(NA)	2,589	2,924	2,537
	March ^f	13,621	5,548	480	1,341	6	1,324	2,396	(NA)	2,134	3,213	2,354
	April ^f	14,333	5,459	566	1,296	13	1,326	2,259	(NA)	2,406	3,589	2,495
	May ^f	14,362	5,703	768	1,243	12	1,370	2,310	(NA)	2,332	3,480	2,468
	June ^f	13,479	5,323	569	1,286	9	754	2,705	(NA)	2,169	3,508	2,097
	July ^f	13,096	5,526	650	1,323	7	1,005	2,541	(NA)	2,019	3,292	1,875
	August ^f	12,616	4,994	578	1,377	8	756	2,275	(NA)	1,995	3,615	1,653
	September ^f	14,723	5,718	538	1,483	9	975	2,714	(NA)	2,162	4,500	1,962
	October ^f	13,478	4,918	573	759	23	943	2,620	(NA)	2,201	2,904	3,069
	November ^f	13,914	5,612	640	971	26	931	3,044	(NA)	2,058	3,023	2,829
	December ^f	12,256	5,574	536	939	3	1,242	2,854	(NA)	1,943	2,814	1,518
1997:	January ^f	12,808	5,412	761	973	3	1,379	2,295	(NA)	2,205	3,211	1,559
	February ^f	13,815	5,996	694	958	21	1,630	2,692	(NA)	2,230	3,172	1,903
	March ^f	12,717	4,664	515	872	40	966	2,271	(NA)	1,908	3,015	2,763
	April ^f	12,852	5,254	536	1,217	9	952	2,540	(NA)	2,075	2,453	2,642
	May ^p	12,212	4,262	432	841	7	893	2,090	(NA)	2,169	2,928	2,453

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: 1994-1996—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Type of construction	1994											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	95,785	94,284	97,246	95,804	98,162	101,417	105,333	101,539	102,077	102,900	99,670	102,252
Total buildings	37,837	38,270	38,911	37,768	40,012	40,759	40,469	40,850	40,695	42,768	42,123	44,098
Housing and redevelopment	2,636	2,443	2,945	2,707	3,069	3,033	2,744	2,820	2,942	3,332	3,099	3,140
Educational	16,552	16,603	16,715	16,365	17,319	17,168	17,215	17,465	17,961	19,522	18,766	18,751
Hospital	3,059	3,194	3,132	2,910	3,210	2,911	3,075	2,862	2,886	2,809	2,798	3,242
Other ¹	15,591	16,030	16,119	15,786	16,414	17,647	17,435	17,702	16,905	17,106	17,460	18,964
Highways and streets	34,927	33,441	35,561	34,975	36,469	37,044	39,312	36,420	35,210	35,523	33,711	32,628
Conservation and development	1,633	1,971	1,825	1,680	1,653	1,863	2,290	1,775	2,502	1,750	1,917	2,678
Other State and local construction	21,387	20,603	20,949	21,381	20,028	21,749	23,262	22,495	23,670	22,859	21,919	22,849
Sewer systems	7,919	7,564	8,150	8,475	8,064	8,572	8,934	8,657	9,248	8,454	8,800	9,866
Water supply facilities	4,440	3,704	4,107	4,063	3,929	4,228	4,701	4,418	5,222	5,286	4,328	4,494
Miscellaneous nonbuilding ²	9,028	9,334	8,692	8,843	8,034	8,950	9,627	9,420	9,201	9,119	8,791	8,490
Federal construction	13,072	14,622	12,027	12,790	12,560	13,262	13,075	13,158	13,167	15,732	14,325	15,747
Total buildings	3,595	5,238	4,802	4,690	4,119	4,987	4,300	4,115	4,285	5,812	5,552	5,845
Housing	274	276	334	664	287	328	400	393	328	484	363	746
Industrial	1,180	1,427	1,643	1,348	1,327	1,239	1,196	1,339	1,407	1,456	1,400	1,334
Educational	6	17	14	8	19	30	18	21	44	16	59	34
Hospital	810	794	803	596	549	1,056	1,027	686	647	769	943	810
Other Federal buildings ³	1,325	2,724	2,008	2,074	1,938	2,334	1,659	1,677	1,859	3,087	2,787	2,922
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,587	1,839	1,891	2,063	2,103	2,220	2,332	2,313	2,207	2,067	2,110	2,541
Conservation and development	3,915	4,625	3,319	3,996	4,080	3,746	3,684	3,756	4,683	5,056	4,025	4,641
Miscellaneous nonbuilding ⁴	2,582	2,520	1,610	1,636	1,833	1,880	2,307	2,552	1,585	2,385	2,246	2,330

See footnotes at end of table.

Table 9b. **Monthly Value of Public Construction Put in Place: 1994-1996—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.**

[Millions of dollars]

Type of construction	1995											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	100,162	99,076	101,051	104,073	101,371	102,428	99,269	100,167	99,304	101,747	99,989	99,442
Total buildings	42,925	42,461	42,883	43,935	42,766	44,350	42,475	41,439	41,974	41,690	41,473	41,038
Housing and redevelopment	3,392	3,187	3,231	3,497	3,165	3,440	3,285	3,279	3,163	3,148	2,949	3,293
Educational	18,812	19,157	19,427	19,259	18,901	19,711	19,159	19,110	19,654	19,086	19,043	19,035
Hospital	2,886	2,944	2,966	3,172	2,967	2,888	3,026	2,625	3,063	2,887	3,000	2,692
Other ¹	17,835	17,174	17,259	18,008	17,732	18,311	17,005	16,426	16,094	16,570	16,482	16,017
Highways and streets	32,371	31,476	33,499	32,952	32,975	32,545	33,090	34,156	32,804	33,968	32,801	33,679
Conservation and development	2,549	2,466	2,661	2,537	2,340	2,126	1,601	1,858	1,435	1,503	1,721	1,887
Other State and local construction	22,318	22,672	22,007	24,648	23,289	23,406	22,102	22,714	23,091	24,586	23,994	22,838
Sewer systems	8,913	8,939	8,893	8,464	8,968	9,707	8,696	8,661	8,919	9,103	9,247	9,085
Water supply facilities	5,097	5,467	4,494	4,599	4,414	4,642	4,995	5,310	4,764	5,052	5,304	4,967
Miscellaneous nonbuilding ²	8,307	8,266	8,620	11,585	9,906	9,058	8,411	8,743	9,408	10,431	9,444	8,786
Federal construction	14,817	14,548	15,338	14,091	14,258	13,979	13,946	14,752	14,999	12,199	14,378	14,209
Total buildings	5,458	5,788	5,703	5,061	5,818	5,228	4,796	5,494	5,755	4,758	5,536	5,224
Housing	262	435	424	288	463	490	488	567	509	746	855	550
Industrial	1,487	1,560	1,467	1,425	1,256	1,188	1,271	1,352	1,454	1,295	1,280	1,194
Educational	7	34	8	7	45	23	14	23	48	27	2	38
Hospital	940	1,032	917	891	1,138	908	775	869	1,001	691	999	961
Other Federal buildings ³	2,762	2,727	2,888	2,451	2,915	2,618	2,247	2,683	2,743	2,000	2,400	2,481
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,554	2,446	3,028	2,596	2,686	2,786	2,776	2,792	2,984	2,032	2,802	2,980
Conservation and development	3,846	4,034	4,086	3,552	3,171	3,643	4,233	4,495	4,014	2,758	3,578	3,559
Miscellaneous nonbuilding ⁴	2,564	1,902	2,119	2,491	2,186	1,930	1,746	1,568	1,852	2,242	2,066	2,051

See footnotes at end of table.

Table 9b. **Monthly Value of Public Construction Put in Place: 1994-1996—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	102,100	96,345	98,997	102,425	103,940	100,752	101,121	98,906	103,330	104,102	105,540	102,274
Total buildings	43,940	39,082	41,793	42,285	44,490	42,442	43,512	43,615	45,844	45,487	47,585	45,763
Housing and redevelopment	3,496	3,058	2,998	2,927	3,404	2,903	3,434	3,160	3,813	3,399	3,559	3,231
Educational	19,723	18,669	19,549	19,684	20,582	19,445	19,834	20,049	20,378	20,797	21,570	20,982
Hospital	3,162	2,859	2,849	2,746	2,743	2,908	2,716	2,782	3,178	3,087	2,896	3,124
Other ¹	17,559	14,497	16,397	16,928	17,760	17,187	17,529	17,624	18,475	18,204	19,559	18,426
Highways and streets	33,256	34,721	32,712	33,439	32,570	32,591	32,843	30,651	33,249	33,181	33,387	34,136
Conservation and development	1,682	1,857	1,995	1,808	1,652	1,813	1,771	1,816	1,790	1,985	1,999	1,768
Other State and local construction	23,222	20,684	22,497	24,893	25,228	23,907	22,994	22,824	22,447	23,450	22,569	20,607
Sewer systems	8,765	8,486	8,762	9,990	9,726	8,731	8,691	9,311	8,545	9,785	9,031	8,512
Water supply facilities	4,576	4,865	4,707	5,585	5,359	5,134	4,908	4,760	5,178	5,760	5,228	5,012
Miscellaneous nonbuilding ²	9,881	7,334	9,027	9,319	10,143	10,041	9,395	8,753	8,723	7,905	8,309	7,083
Federal construction	13,949	13,928	13,621	14,333	14,362	13,479	13,096	12,616	14,723	13,478	13,914	12,256
Total buildings	5,497	5,470	5,548	5,459	5,703	5,323	5,526	4,994	5,718	4,918	5,612	5,574
Housing	586	504	480	566	768	569	650	578	538	573	640	536
Industrial	1,168	1,198	1,341	1,296	1,243	1,286	1,323	1,377	1,483	759	971	939
Educational	12	2	6	13	12	9	7	8	9	23	26	3
Hospital	710	1,223	1,324	1,326	1,370	754	1,005	756	975	943	931	1,242
Other Federal buildings ³	3,020	2,542	2,396	2,259	2,310	2,705	2,541	2,275	2,714	2,620	3,044	2,854
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,780	2,589	2,134	2,406	2,332	2,169	2,019	1,995	2,162	2,201	2,058	1,943
Conservation and development	3,094	2,924	3,213	3,589	3,480	3,508	3,292	3,615	4,500	2,904	3,023	2,814
Miscellaneous nonbuilding ⁴	2,188	2,537	2,354	2,495	2,468	2,097	1,875	1,653	1,962	3,069	2,829	1,518

- Represents zero or rounds to zero. 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 1995-May 1997—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1995:	May ^f	8,713	3,620	268	1,553	249	1,550	2,935	200	729	380	848
	June ^f	9,704	4,028	304	1,825	254	1,645	3,352	198	867	416	843
	July ^f	9,614	3,892	271	1,941	254	1,426	3,599	147	749	457	770
	August ^f	10,730	4,071	283	2,083	212	1,493	4,269	185	844	489	871
	September ^f	10,078	3,830	283	1,859	280	1,408	3,876	142	868	428	933
	October ^f	10,137	3,673	289	1,640	259	1,486	3,918	149	865	495	1,037
	November ^f	8,592	3,451	255	1,525	244	1,427	2,845	151	840	476	828
	December ^f	6,964	3,106	266	1,374	222	1,244	1,998	140	679	389	652
1996:	January ^f	6,265	3,134	269	1,340	245	1,282	1,452	109	615	315	640
	February ^f	5,770	2,832	234	1,254	223	1,121	1,438	121	574	327	478
	March ^f	6,356	3,116	234	1,403	229	1,250	1,554	129	639	337	582
	April ^f	7,607	3,364	235	1,489	237	1,402	2,162	141	773	440	727
	May ^f	8,929	3,759	288	1,689	225	1,557	2,896	141	807	462	864
	June ^f	9,339	3,823	255	1,805	257	1,505	3,246	158	776	458	878
	July ^f	10,002	4,024	288	2,002	233	1,502	3,700	170	754	449	904
	August ^f	10,394	4,225	269	2,169	217	1,570	3,765	183	901	440	881
	September ^f	10,427	4,186	335	1,936	290	1,624	3,904	177	833	466	861
	October ^f	10,434	4,042	318	1,792	275	1,658	3,910	194	948	566	773
	November ^f	8,972	3,940	308	1,733	238	1,661	2,832	179	808	469	744
	December ^f	7,233	3,500	263	1,509	264	1,465	2,054	131	632	391	525
1997:	January ^f	6,294	3,282	223	1,426	236	1,396	1,412	122	574	358	546
	February ^f	6,425	3,309	237	1,455	225	1,392	1,440	119	564	365	627
	March ^f	6,975	3,481	249	1,535	253	1,444	1,712	143	615	426	597
	April ^f	7,927	3,757	279	1,652	282	1,544	2,338	158	662	407	606
	May ^p	8,378	3,655	288	1,678	245	1,445	2,712	141	740	399	730
		Federally owned public construction										
		Total Federal	Buildings					Highways and streets	Military facilities	Conservation and development	Miscellaneous construction ⁴	
			Total	Housing	Industrial	Educational	Hospital					Other buildings ³
1995:	May ^f	1,236	520	41	112	4	102	260	(NA)	224	270	186
	June ^f	1,233	464	44	106	2	81	233	(NA)	238	320	170
	July ^f	1,183	414	42	110	1	67	194	(NA)	231	350	144
	August ^f	1,273	444	46	109	2	70	217	(NA)	237	402	140
	September ^f	1,798	634	56	160	5	110	302	(NA)	326	542	250
	October ^f	795	316	50	86	2	46	133	(NA)	140	161	131
	November ^f	1,175	449	69	104	-	81	195	(NA)	241	286	165
	December ^f	1,148	428	45	98	3	79	203	(NA)	264	274	158
1996:	January ^f	1,060	431	46	92	1	56	237	(NA)	221	229	162
	February ^f	1,004	416	38	91	-	93	193	(NA)	179	211	183
	March ^f	1,099	451	39	109	1	108	195	(NA)	182	258	189
	April ^f	1,156	446	46	106	1	108	185	(NA)	189	292	203
	May ^f	1,252	515	69	112	1	124	208	(NA)	194	298	211
	June ^f	1,159	468	50	113	1	66	238	(NA)	185	293	175
	July ^f	1,126	468	55	112	1	85	215	(NA)	168	285	162
	August ^f	1,104	418	48	115	1	63	191	(NA)	169	324	148
	September ^f	1,747	616	58	160	1	105	292	(NA)	236	592	258
	October ^f	892	336	39	52	2	64	179	(NA)	152	174	184
	November ^f	1,132	455	52	79	2	75	247	(NA)	177	242	226
	December ^f	975	450	43	76	-	100	230	(NA)	173	212	115
1997:	January ^f	973	429	60	77	-	109	182	(NA)	172	238	115
	February ^f	947	429	50	69	1	117	193	(NA)	148	218	131
	March ^f	1,036	403	45	75	3	84	196	(NA)	164	235	216
	April ^f	1,034	418	43	97	1	76	202	(NA)	163	205	221
	May ^p	1,069	396	40	78	1	83	194	(NA)	182	248	208

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

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

Table 10b. Annual and Monthly Value of Public Construction Put in Place: 1994-1996—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Type of construction	1994												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	100,130	5,680	5,542	6,259	6,960	8,360	9,644	10,217	10,979	10,490	10,134	8,588	7,277
Total buildings	40,422	2,666	2,749	2,951	2,979	3,389	3,685	3,710	3,970	3,735	3,703	3,517	3,370
Housing and redevelopment	2,920	199	184	236	218	258	267	232	239	263	298	272	253
Educational	17,568	1,128	1,130	1,190	1,233	1,420	1,585	1,753	1,917	1,691	1,671	1,493	1,356
Hospital	2,998	228	248	254	242	266	257	259	237	260	246	236	265
Other ¹	16,936	1,111	1,186	1,271	1,285	1,444	1,575	1,466	1,577	1,521	1,488	1,516	1,495
Highways and streets	35,736	1,490	1,324	1,728	2,203	3,194	3,809	4,216	4,589	4,228	4,023	2,944	1,988
Conservation and development	1,966	100	127	117	129	135	171	210	186	246	175	170	200
Other State and local construction	22,005	1,424	1,343	1,463	1,649	1,642	1,979	2,081	2,234	2,280	2,234	1,957	1,720
Sewer systems	8,592	563	501	611	651	646	776	768	838	905	809	789	736
Water supply facilities	4,443	309	240	296	317	339	381	428	407	470	515	390	351
Miscellaneous nonbuilding ²	8,970	552	602	556	680	657	823	885	989	906	910	778	633
Federal construction	13,569	966	1,017	970	1,047	1,050	1,183	1,104	1,165	1,599	1,031	1,143	1,293
Total buildings	4,755	287	378	392	394	353	452	360	341	465	407	428	500
Housing	406	22	20	27	56	25	30	33	33	36	34	28	64
Industrial	1,358	94	103	134	113	114	112	100	111	153	102	108	114
Educational	24	-	1	1	1	2	3	1	2	5	1	5	3
Hospital	789	65	57	66	50	47	96	86	57	70	54	73	69
Other Federal buildings ³	2,178	106	197	164	174	166	212	139	139	202	216	215	250
Highways and streets	414	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,196	204	123	162	162	176	190	194	196	241	142	182	225
Conservation and development	4,124	276	324	267	330	335	331	308	342	631	296	320	363
Miscellaneous nonbuilding ⁴	2,080	182	176	130	135	150	166	193	233	214	140	179	182

See footnotes at end of table.

Table 10b. Annual and Monthly Value of Public Construction Put in Place: 1994-1996—Not Seasonally Adjusted in 1992 Dollars—Con.

[Millions of dollars]

Type of construction	1995												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	100,686	6,105	5,904	6,602	7,543	8,713	9,704	9,614	10,730	10,078	10,137	8,592	6,964
Total buildings	42,442	3,069	3,025	3,217	3,459	3,620	4,028	3,892	4,071	3,830	3,673	3,451	3,106
Housing and redevelopment	3,251	261	237	253	281	268	304	271	283	283	289	255	266
Educational	19,213	1,279	1,295	1,389	1,451	1,553	1,825	1,941	2,083	1,859	1,640	1,525	1,374
Hospital	2,923	221	227	237	265	249	254	254	212	280	259	244	222
Other ¹	17,054	1,308	1,267	1,338	1,463	1,550	1,645	1,426	1,493	1,408	1,486	1,427	1,244
Highways and streets	33,104	1,387	1,246	1,636	2,043	2,935	3,352	3,599	4,269	3,876	3,918	2,845	1,998
Conservation and development	1,992	158	159	179	184	200	198	147	185	142	149	151	140
Other State and local construction	23,148	1,492	1,474	1,570	1,857	1,958	2,126	1,977	2,205	2,229	2,397	2,144	1,720
Sewer systems	8,975	625	586	666	656	729	867	749	844	868	865	840	679
Water supply facilities	4,923	353	354	324	360	380	416	457	489	428	495	476	389
Miscellaneous nonbuilding ²	9,250	514	533	580	841	848	843	770	871	933	1,037	828	652
Federal construction	14,328	1,083	1,012	1,273	1,119	1,236	1,233	1,183	1,273	1,798	795	1,175	1,148
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	396	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,729	202	163	259	204	224	238	231	237	326	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: 1994-1996—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 . . .	101,730	6,265	5,770	6,356	7,607	8,929	9,339	10,002	10,394	10,427	10,434	8,972	7,233
Total buildings	43,946	3,134	2,832	3,116	3,364	3,759	3,823	4,024	4,225	4,186	4,042	3,940	3,500
Housing and redevelopment	3,296	269	234	234	235	288	255	288	269	335	318	308	263
Educational	20,120	1,340	1,254	1,403	1,489	1,689	1,805	2,002	2,169	1,936	1,792	1,733	1,509
Hospital	2,933	245	223	229	237	225	257	233	217	290	275	238	264
Other ¹	17,597	1,282	1,121	1,250	1,402	1,557	1,505	1,502	1,570	1,624	1,658	1,661	1,465
Highways and streets	32,913	1,452	1,438	1,554	2,162	2,896	3,246	3,700	3,765	3,904	3,910	2,832	2,054
Conservation and development	1,833	109	121	129	141	141	158	170	183	177	194	179	131
Other State and local construction	23,038	1,570	1,379	1,558	1,940	2,133	2,112	2,107	2,221	2,161	2,287	2,020	1,548
Sewer systems	9,060	615	574	639	773	807	776	754	901	833	948	808	632
Water supply facilities	5,121	315	327	337	440	462	458	449	440	466	566	469	391
Miscellaneous nonbuilding ²	8,857	640	478	582	727	864	878	904	881	861	773	744	525
Federal construction	13,707	1,060	1,004	1,099	1,156	1,252	1,159	1,126	1,104	1,747	892	1,132	975
Total buildings	5,469	431	416	451	446	515	468	468	418	616	336	455	450
Housing	585	46	38	39	46	69	50	55	48	58	39	52	43
Industrial	1,216	92	91	109	106	112	113	112	115	160	52	79	76
Educational	11	1	-	1	1	1	1	1	1	1	2	2	-
Hospital	1,048	56	93	108	108	124	66	85	63	105	64	75	100
Other Federal buildings ³	2,609	237	193	195	185	208	238	215	191	292	179	247	230
Highways and streets	383	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,225	221	179	182	189	194	185	168	169	236	152	177	173
Conservation and development	3,411	229	211	258	292	298	293	285	324	592	174	242	212
Miscellaneous nonbuilding ⁴	2,218	162	183	189	203	211	175	162	148	258	184	226	115

- Represents zero or rounds to zero. 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 (Other Federal buildings)

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, C20/97-1 *Housing Starts*, issued February 1997.

Once a project is selected, monthly construction progress reports are requested from the owner until the project is completed. About 2,100 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 5,500 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 9,000. 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 put 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 72 percent of total construction in 1996 (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 55 percent of the value-in-place estimates.

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

MEASURE OF SAMPLING ERRORS

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

Estimates of the standard errors for the monthly, year-to-date and annual estimates were computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors in 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, 44 percent; state and locally owned public construction, 33 percent; private residential construction of 2 units or more, 48 percent; and private residential improvements, 13 percent. Each of these imputation rates is not an explicit indication of the potential error in statistics, but the degree of uncertainty regarding the accuracy of the statistics increases as the percentage of imputation increases.

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

For state and locally owned construction, construction outlays from the Survey of Government Finances are available only through Fiscal Year 1994. (Outlays are included if a government agency's fiscal year ending date falls within July 1993 to June 1994 inclusive, and

for three state agencies with fiscal years ending in August or September 1994.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for 4 years from 1994 through April 1998. The relationship between the state and locally owned value-in-place and the capital outlays estimate changes from year to year so that revisions of 4 to 5 percent are expected in state and local construction and substantially larger revisions can be expected in the individual types of construction. In addition, because of the definition of fiscal year for the Survey of Government Finances, the reported capital outlays do not correspond to any 12 month period but result from capital outlays made over a 26 month period. There are also definitional and timing differences between the concepts of capital outlays and value put in place.

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

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

MONTHLY REVISIONS TO ESTIMATES

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

For total construction, the range of the difference between the last 12 preliminary and second revision estimates for the same months was from -0.8 percent to 0.7 percent with a median of 0.0 percent (see Table C-2). The range of the difference between first revision and second revision was from -0.6 to 0.3 percent, with a median of 0.1 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 1996 data. The coefficient (k1) for the month-to-month change is applicable to change from the previous month and change from the same month a year ago.

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	-0.8	0.7	0.0	-0.6	0.3	0.1
Private construction	-0.7	0.9	0.6	-1.0	0.5	0.3
Residential buildings	-0.6	0.9	0.2	-1.7	0.7	0.2
New housing units	-0.1	1.6	0.4	-0.4	0.4	0.2
1 unit	-0.2	1.1	0.5	-0.3	0.4	0.2
2 units or more	-3.4	5.5	0.0	-0.5	0.5	0.0
Nonresidential buildings	-1.4	2.6	0.4	-0.4	0.4	0.1
Industrial	-5.2	2.9	1.5	-1.0	0.4	0.0
Office	-1.0	4.0	1.7	-0.4	0.8	0.2
Hotel, motel	-3.9	16.2	-0.8	-1.7	3.4	0.0
Other commercial	-2.8	2.4	-0.6	-0.4	0.5	0.0
Religious	-6.5	4.2	-2.2	0.0	2.3	0.0
Educational	-1.7	10.3	1.7	-1.3	1.8	0.0
Hospital and institutional	-9.0	1.9	-0.4	0.0	0.9	0.0
Miscellaneous buildings	-1.5	9.2	3.7	0.0	1.5	0.0
Telecommunications	-8.3	26.6	0.9	-3.4	0.9	0.0
All other private	-4.3	0.0	0.0	0.0	0.0	0.0
Public construction	-2.7	0.5	-1.5	-0.9	0.7	-0.1
Housing and redevelopment	-10.9	3.7	-1.8	-1.8	4.0	0.0
Industrial	-30.8	0.0	0.0	-6.3	7.1	0.0
Educational	-4.6	5.8	-0.8	-1.4	1.1	0.0
Hospital	-7.0	4.3	-2.1	-2.0	2.3	0.0
Other public buildings	-3.5	3.4	0.0	-0.8	0.5	0.0
Highways and streets	-5.5	1.7	-1.9	-1.3	1.8	0.0
Military facilities	-20.7	0.0	-3.5	-20.7	0.0	0.0
Conservation and development	-8.3	18.7	2.7	-1.8	13.5	0.0
Sewer systems	-3.9	5.3	-1.3	-0.8	1.8	0.0
Water supply facilities	-6.0	8.2	-2.3	0.0	1.6	0.0
Miscellaneous public	-18.1	3.4	-5.2	-12.0	1.7	-0.8

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 and 1967 as the base periods 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 shapes, which is a three-mill average for Pittsburgh, PA; Gary, IN; and Birmingham, AL; 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.

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 11 Western States. The index is a weighted average of costs of labor, materials, and equipment furnished by contractors and the government. To the greatest extent

possible, labor and materials costs are based on unit bid prices from contracts let by the Bureau of Reclamation. About 40 percent of the composite index is based on bid prices. 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 plant 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, Reardon 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	6.08	1.23	1.03	0.63	1.63	2
Private construction	5.03	1.31	1.03	0.74	1.39	2
Residential buildings	6.73	1.57	0.79	1.21	0.65	1
Nonresidential buildings	4.21	2.17	1.89	0.94	2.01	3
Public construction	9.51	2.31	2.13	0.65	3.28	4
Buildings	5.38	2.77	2.64	0.90	2.93	3
Military facilities	17.29	9.47	9.14	1.98	4.62	5
Highways	19.75	3.87	3.59	1.13	3.18	4
Conservation and development	15.38	8.26	8.15	1.45	5.62	6
All other public	8.41	4.72	4.53	0.99	4.58	6

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 5-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. Since changes are not computed for spans greater than 5 months, all series with an MCD greater than 5 are shown as 6. MCD is small for smooth series and large for erratic series.

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

[Percent]

Type of construction	May 1997 ^P	Apr. 1997 ^r	Mar. 1997 ^r	Feb. 1997 ^r	Jan. 1997 ^r	Dec. 1996 ^r	Nov. 1996 ^r	Oct. 1996 ^r	Sep. 1996 ^r	Aug. 1996 ^r	July 1996 ^r	May 1996 ^r
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	101.1	94.6	89.8	76.3	81.5	89.1	107.1	112.1	114.5	115.1	112.5	100.6
2 units or more	105.1	96.3	91.9	86.6	86.4	95.8	101.4	105.6	105.0	110.1	107.0	104.6
Nonresidential buildings:												
Industrial	100.9	99.8	92.5	90.0	89.6	106.3	104.5	108.1	104.7	99.7	101.0	100.7
Office	104.1	101.3	95.6	93.3	92.7	98.1	102.1	101.7	104.8	103.4	101.2	106.2
Hotels, motels	106.5	104.9	99.3	95.0	91.2	98.6	98.5	101.4	100.5	101.8	99.0	106.3
Other commercial	99.0	94.3	88.2	82.8	85.2	94.6	105.2	112.1	114.7	111.7	107.3	100.6
Religious	97.8	93.8	92.1	85.7	89.2	102.0	108.2	114.0	111.2	108.8	100.0	97.3
Educational	103.3	91.2	88.8	80.6	81.7	86.4	93.9	101.9	108.8	123.8	121.8	103.2
Hospital and institutional	101.0	98.9	98.2	94.8	94.0	99.3	104.3	105.6	103.1	102.4	97.9	101.4
Miscellaneous nonresidential	99.9	102.8	99.3	88.6	87.3	96.9	106.1	108.7	104.1	101.2	100.5	98.1
Telecommunications	101.6	98.6	93.5	82.7	84.8	103.8	104.4	113.8	100.9	109.9	104.3	103.3
All other private	100.9	96.1	89.9	83.9	90.1	95.9	108.6	110.8	109.7	104.6	104.2	103.7
PUBLIC CONSTRUCTION												
State and Local												
Buildings:												
Housing and redevelopment	100.4	97.3	90.0	87.6	92.4	97.5	104.0	112.1	105.5	102.3	100.7	101.6
Educational	98.1	91.7	86.1	80.8	81.9	86.3	96.4	103.4	114.0	129.8	121.1	98.5
Hospital	96.3	103.7	97.1	92.4	91.2	101.4	98.7	106.8	109.6	93.7	102.8	98.3
Other buildings	104.7	99.7	91.1	88.3	88.3	95.4	101.9	109.3	105.5	106.9	102.8	105.2
Highways and streets	104.0	78.7	58.5	48.9	52.0	72.2	101.8	141.4	140.9	147.4	135.2	106.7
Conservation and development	98.9	94.7	77.8	77.1	78.1	88.9	107.4	117.4	118.5	120.8	115.5	102.2
Sewer systems	100.3	92.6	86.4	76.5	82.6	89.1	107.3	116.2	117.0	116.1	104.1	99.6
Water supply facilities	103.0	95.8	85.3	77.5	82.3	93.7	107.7	118.0	108.0	110.8	109.8	103.5
Miscellaneous construction	98.9	94.7	77.8	77.1	78.1	88.9	107.4	117.4	118.5	120.8	115.5	102.2
Federal												
Buildings:												
Housing and redevelopment	111.4	95.5	103.8	85.9	95.2	96.9	97.2	81.9	129.3	100.5	101.6	108.3
Industrial	111.4	95.5	103.8	85.9	95.2	96.9	97.2	81.9	129.3	100.5	101.6	108.3
Educational	111.4	95.5	103.8	85.9	95.2	96.9	97.2	81.9	129.3	100.5	101.6	108.3
Hospital	111.4	95.5	103.8	85.9	95.2	96.9	97.2	81.9	129.3	100.5	101.6	108.3
Other buildings	111.4	95.5	103.8	85.9	95.2	96.9	97.2	81.9	129.3	100.5	101.6	108.3
Military	100.9	94.0	103.1	79.6	93.7	107.0	103.1	83.1	131.0	101.6	99.8	100.0
Conservation and development	101.8	100.2	93.7	82.6	88.9	90.6	95.9	72.1	157.9	107.6	103.8	102.8
Miscellaneous construction	101.8	100.2	93.7	82.6	88.9	90.6	95.9	72.1	157.9	107.6	103.8	102.8

^PPreliminary. ^rRevised.

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														
1992.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100	100	100	100	100	100
1993.....	103.7	103.8	105.7	104.5	104.9	104.8	103.0	103	102	105	103	103	104	102
1994 ^r	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	112.4	109.8	109.8	114.4	114.3	116.2	110	109	115	111	111	112	110
1996 ^r	115.0	115.2	113.0	112.8	116.4	116.5	116.0	112	112	118	112	112	115	115
Monthly indexes							Quarterly indexes			Semiannual indexes				
1995 ^r : January.....	111.7	111.6	109.8	109.2	113.9	113.4								
February.....	111.7	111.7	109.8	109.2	113.9	113.6	114.9	108	108					
March.....	111.7	111.7	109.5	109.0	113.8	113.6				114	109	111	112	106
April.....	111.8	111.9	109.4	109.0	113.8	113.8								
May.....	112.1	112.1	109.3	109.0	114.2	114.1	115.3	110	109					
June.....	112.6	112.5	109.2	109.0	114.4	114.3								
July.....	112.6	112.6	109.9	110.0	114.2	114.2								
August.....	112.6	112.7	110.1	110.5	114.5	114.7	114.1	111	109					
September.....	113.0	113.1	109.7	110.2	114.9	115.1				114	110	111	112	110
October.....	113.3	113.4	110.0	110.6	115.0	115.1								
November.....	113.2	113.4	110.5	110.7	114.8	115.0	118.7	111	110					
December.....	113.3	113.5	110.4	110.8	114.8	115.1								
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	122.3	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	114.3	111.5	111.8	115.3	115.4	112.7	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	118.7	112	112					
September.....	116.0	116.1	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	117.6	114	113					
December.....	116.7	116.6	116.9	115.2	118.4	118.0								
1997: January.....	^r 116.9	^r 116.5	117.6	115.6	^r 118.3	^r 117.8								
February.....	^r 116.8	^r 116.2	117.6	115.7	^r 118.0	^r 117.5	127.1	114	114					
March.....	^r 117.2	^r 117.1	117.3	115.5	^r 117.8	^r 117.5				121	114	114	117	115
April.....	^r 117.4	^r 117.4	118.7	116.3	^r 117.7	^r 117.7								
May.....	^p 117.9	^p 118.0	119.2	117.1	^p 118.1	^p 118.2	(NA)	116	116					
June.....			119.9	117.6										

NA Not available. ^pPreliminary. ^rRevised.

Table D-5. Monthly Bureau of the Census Composite Fixed-Weighted Price Index: 1964 to 1997
[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 ¹	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 ¹	111.7	111.7	111.7	111.8	112.1	112.6	112.6	112.6	113.0	113.3	113.2	113.3	112.5
1996 ¹	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	¹ 116.9	¹ 116.8	¹ 117.2	¹ 117.4	¹ 117.9								

¹Preliminary. ²Revised.

Table D-6. Monthly Bureau of the Census Implicit Price Deflator: 1964 to 1997

[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 ¹	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 ¹	111.6	111.7	111.7	111.9	112.1	112.5	112.6	112.7	113.1	113.4	113.4	113.5	112.4
1996 ¹	113.8	113.9	114.1	114.0	114.3	114.8	115.5	115.7	116.1	116.2	116.3	116.6	115.2
1997	¹ 116.5	¹ 116.2	¹ 117.1	¹ 117.4	¹ 118.0								

¹Preliminary. ²Revised.