

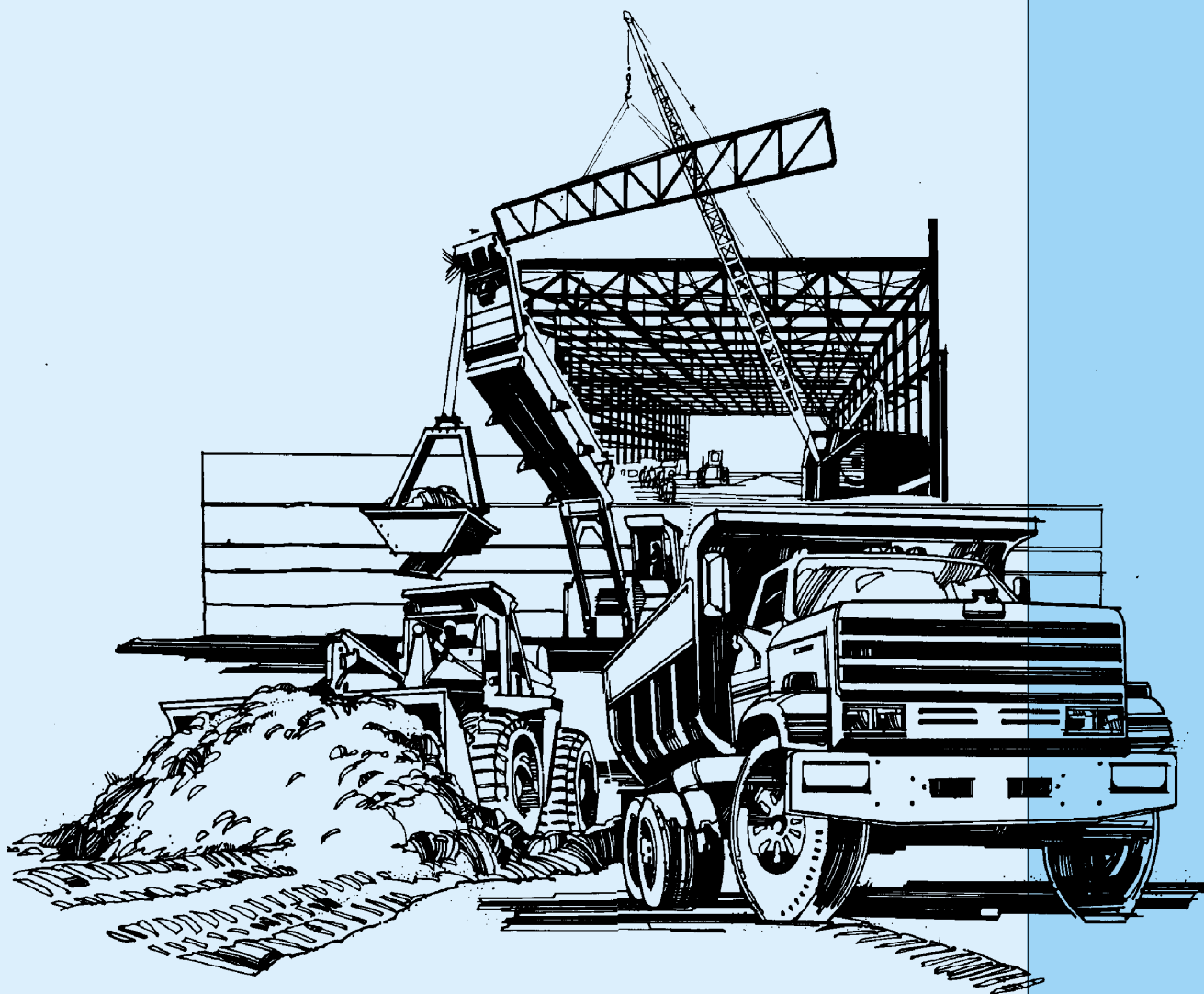
Value of Construction Put in Place

May
2001

Issued August 2001

C30/01-5

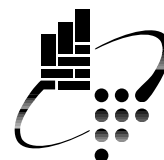
Current Construction Reports



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ACKNOWLEDGMENTS

This report was developed in the U.S. Census Bureau's Manufacturing and Construction Division. It was prepared under the general direction of **Michael Davis**, Chief, Construction Expenditures Branch. **Joe Huesman, Linnet Holland, Delsey Newman, Linda Mersch, John P. Hill, Brenda Swann-Newman, Angie Barksdale, Colette Heiston,** and **Brenda Jordon** performed specific activities related to the development, presentation and review of the data.

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U.S. Department of Commerce
Donald L. Evans,
Secretary

**Economics
and Statistics
Administration**
Kathleen B. Cooper,
Under Secretary for
Economic Affairs

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William G. Barron, Jr.,
Acting Director

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Introduction

ANNUAL DATA BACK TO 1991 AND MONTHLY DATA BACK TO 1998 ARE SHOWN IN THIS REPORT

Construction put in place during May 2001 was estimated at a seasonally adjusted annual rate of \$881.6 billion, nearly the same (± 5 percent) as the revised April estimate of \$879.2 billion. The May figure represents an 8 percent increase over May 2000.

In constant (1996) dollars, the May annual rate was \$741.5 billion, nearly the same (± 5 percent) as the revised estimate of \$741.0 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 1998-December 2000 were computed using data through April 2001. The revised factors for January-May 2001 were computed using data through May 2001. See Appendix D, Adjustments for Seasonal Variations and Cost Changes.

In addition to the normal revisions, the following significant changes have been made to the series beginning with this report:

1. Estimates for monthly residential improvements have been revised back to 1993 to reflect new benchmark procedures.
2. Estimates for private industrial buildings, electric light and power, and all other private have been revised back to 1993 to incorporate our new classification scheme.

For comparison, the table on page 3 shows the previously published and revised data for selected series back to 1993.

Annual statistics reflecting all revisions back to 1993 are shown in Tables 1 and 2. Monthly estimates for January 1998 through May 2001 are presented in Tables 3-10. Monthly and annual data back to 1964 are available upon request or on the Internet at www.census.gov/const/www/c30index.html.

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

The estimates shown in this report differ from the estimates of structures components of the gross

domestic product (GDP) as developed by the Bureau of Economic Analysis (BEA), because of differences in coverage, estimation procedures, classification, and the timing of revisions.

Coverage Differences

GDP estimates of the structures components of gross private domestic fixed investment exclude the imputed interest amount of the allowances for funds used during construction of public utility plants; these amounts are included in the value-in-place estimates. In addition, GDP estimates include the following items not included in the value-in-place series:

1. Expenditures on new manufactured 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 October 1997 comprehensive revision of the national income and product accounts (NIPAs), the estimates of the structures components of GDP for 1997 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 an extrapolation of a 1992 benchmark Input-Output account estimates using the corresponding value-in-place estimates. Input-Output account estimates are

¹For additional information, see the December 1999 *Survey of Current Business*, pages 21-22 and Tables 5.6 and 5.7.

prepared by BEA every 5 years. For structures, most Input-Output estimates are based on the value-in-place estimates adjusted for coverage differences. The estimate of industrial buildings is the value-in-place estimate.

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

The estimate of all other private nonresidential structures is prepared by BEA as an extrapolation of a 1992 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, Consumer Expenditure Survey (CES) estimates of residential improvements are not usually available. Consequently, BEA projects estimates for the current quarter and normally replaces the projections with the CES estimates in the annual NIPA revision.

Classification Differences

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

BEA classifies federal government expenditures for military family housing in the defense purchases component of GDP. These expenditures are classified in the housing component of the value-in-place series. BEA

separates atomic energy related construction and hospital construction into the defense and nondefense components; they are not separated in the value-in-place series.

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

Timing of Revisions

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

ADDITIONAL DATA

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

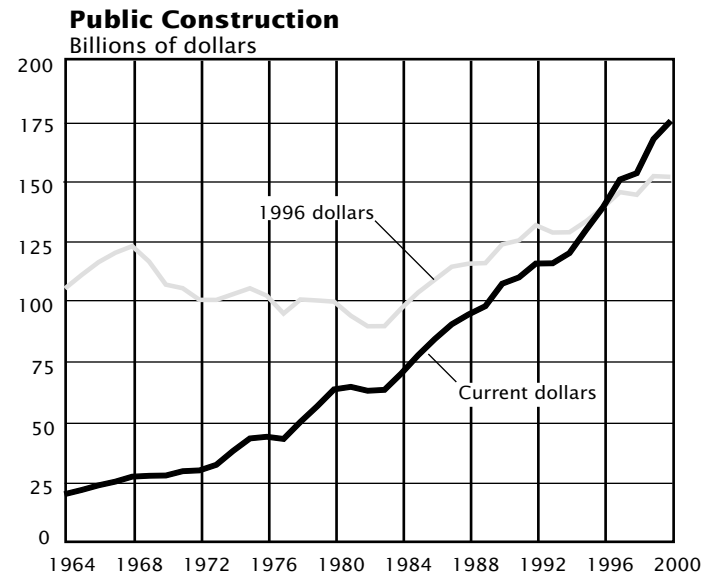
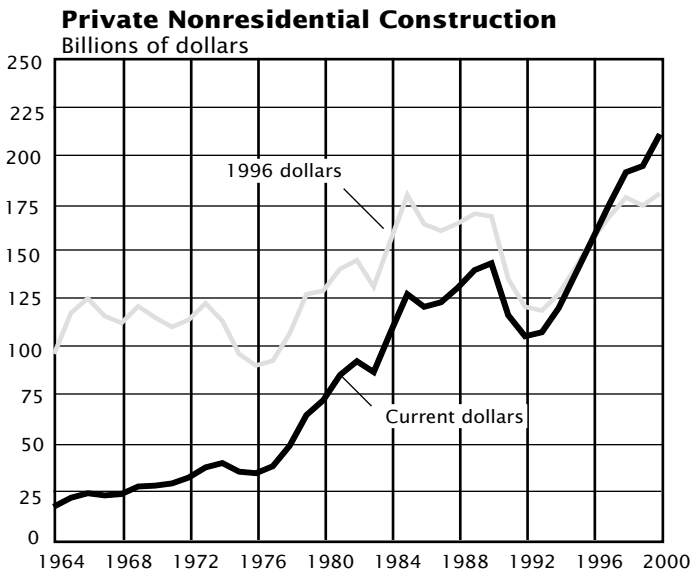
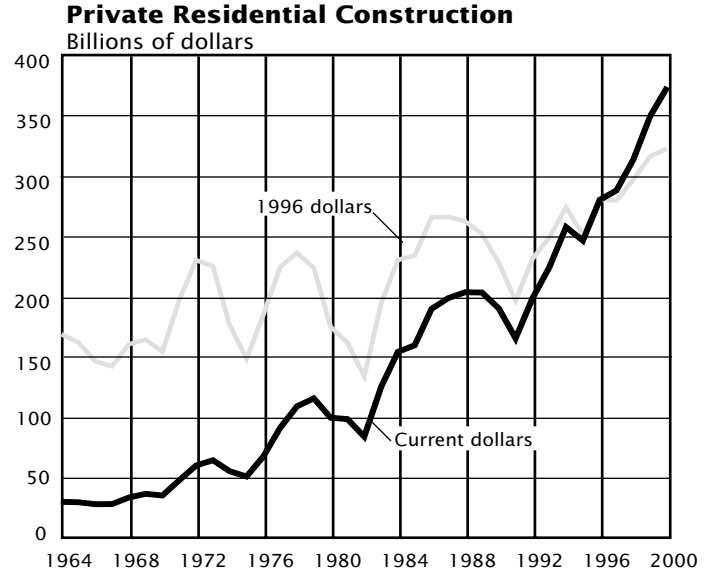
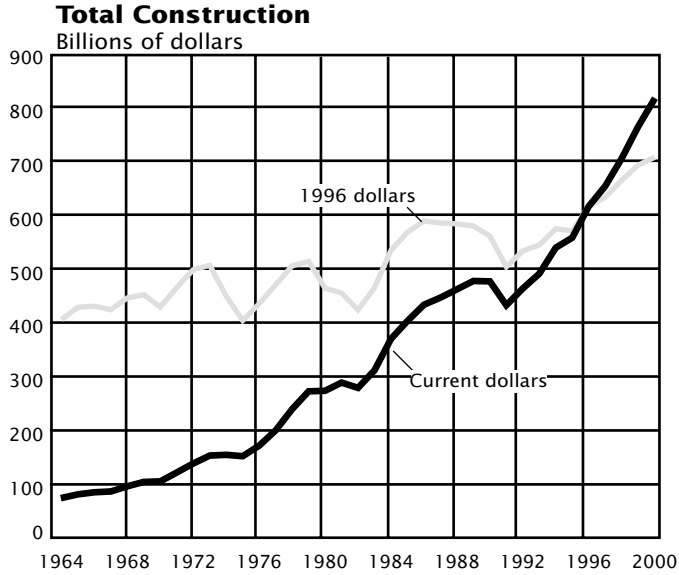
- Current Construction Reports, *Value of Construction Put in Place: June 2000*, C30/00-6, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 2000; contains annual value of construction put in place for private nonresidential buildings by geographic area and detailed types of construction for 1994 to 1999.
- Current Construction Reports, *Value of New Construction Put in Place: October 1992*, C30/92-10, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 1992; contains total time and monthly progress from start to completion for private nonresidential buildings and for state and local construction.
- Current Construction Reports, *Value of New Construction Put in Place in the United States, 1964 to 1980*, C30-80 supplement, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 1981; contains annual data for 1915 to 1963.
- Current Construction Reports Special Study, *Expenditures for Nonresidential Improvements and Repairs: 1992*, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 1994.

Table A. **Comparison of Previously Published Data with Revised Data for Selected Construction Categories, 1993-2000**

Year	Total construction		Total private construction		Total nonresidential buildings		Industrial		Total public utility		Electric light and power		Total all other private	
	Previous published	Revised	Previous published	Revised	Previous published	Revised	Previous published	Revised	Previous published	Revised	Previous published	Revised	Previous published	Revised
1993.....	493,260	491,033	377,300	375,073	110,635	107,715	26,482	23,562	34,925	35,618	15,567	16,260	3,281	3,281
1994.....	539,232	539,193	419,038	418,999	120,289	120,284	28,952	28,947	34,071	34,038	14,918	14,884	2,890	2,890
1995.....	555,591	557,818	425,658	427,885	136,541	138,015	34,024	35,498	35,859	36,084	14,049	14,274	2,893	3,420
1996.....	613,535	615,900	474,273	476,638	153,912	155,858	36,220	38,166	33,156	33,202	11,211	11,256	2,431	2,805
1997.....	656,630	653,429	501,749	502,734	172,990	173,875	36,739	37,624	33,638	33,638	11,325	11,325	2,292	2,392
1998.....	711,759	704,724	552,236	551,383	190,711	190,710	40,484	40,484	40,028	39,212	12,381	12,381	2,606	2,570
1999.....	764,233	763,786	591,561	596,280	195,776	193,935	34,894	32,639	39,607	44,066	14,057	14,585	2,901	2,709
2000.....	807,582	815,414	623,930	640,554	217,004	210,140	40,462	32,073	(NA)	48,084	(NA)	21,111	3,171	2,899

NA Not available, but estimates are included in totals.

Annual Value of Construction Put in Place: 1964-2000



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

Table 1. Annual Value of Construction Put in Place: 1991-2000

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Total construction	432,592	463,661	491,033	539,193	557,818	503,711	533,322	544,285	574,256	570,188
Private construction	322,483	347,814	375,073	418,999	427,885	378,245	401,567	415,565	445,414	436,738
Residential buildings	166,251	199,393	225,067	258,561	247,351	197,526	232,134	249,763	274,966	251,953
New housing units	114,575	135,070	150,911	176,389	171,404	136,121	157,254	167,467	187,561	174,585
1 unit	99,427	121,976	140,123	162,309	153,515	118,110	141,990	155,488	172,609	156,363
2 units or more	15,148	13,094	10,788	14,081	17,889	18,011	15,264	11,979	14,952	18,222
Improvements	51,676	64,323	74,156	82,172	75,947	61,405	74,879	82,296	87,404	77,368
Nonresidential buildings	116,570	105,646	107,715	120,284	138,015	135,389	120,921	118,988	127,576	141,218
Industrial	31,424	29,029	23,562	28,947	35,498	36,496	33,233	26,030	30,679	36,322
Office	25,951	20,271	20,920	22,178	25,613	30,143	23,209	23,129	23,537	26,218
Hotels, motels	6,939	3,691	4,565	4,648	7,112	8,064	4,225	5,044	4,934	7,274
Other commercial	29,355	29,197	32,453	37,551	42,654	34,092	33,401	35,834	39,801	43,636
Religious	3,521	3,485	3,887	3,869	4,326	4,088	3,988	4,292	4,104	4,426
Educational	4,193	4,474	4,649	4,822	5,493	4,869	5,124	5,134	5,120	5,621
Hospital and institutional	10,567	11,487	12,492	12,268	11,248	12,273	13,149	13,799	13,029	11,512
Miscellaneous ¹	4,619	4,012	5,188	6,002	6,071	5,363	4,593	5,726	6,373	6,209
Farm nonresidential	2,753	2,398	3,392	3,226	3,014	3,197	2,744	3,746	3,424	3,084
Public utilities	33,966	36,807	35,618	34,038	36,084	38,830	41,745	39,427	36,334	36,965
Telecommunications	8,962	8,993	9,619	10,121	11,093	10,275	10,330	10,857	11,225	11,556
Other public utilities	25,004	27,814	25,999	23,916	24,991	28,555	31,415	28,570	25,109	25,409
Railroads	2,406	2,928	3,108	3,340	3,509	2,698	3,299	3,445	3,592	3,609
Electric light and power	16,293	17,136	16,260	14,884	14,274	18,662	19,422	17,825	15,650	14,535
Gas	5,555	6,901	5,645	4,694	6,279	6,340	7,742	6,216	4,837	6,329
Petroleum pipelines	750	849	986	998	929	856	953	1,084	1,031	936
All other private ²	2,943	3,570	3,281	2,890	3,420	3,303	4,024	3,641	3,114	3,518
Public construction	110,109	115,847	115,960	120,193	129,933	125,467	131,755	128,720	128,842	133,450
Buildings	47,406	49,986	48,559	49,446	57,754	55,144	57,316	53,684	52,436	59,074
Housing and redevelopment ..	3,587	4,138	4,011	3,835	4,698	4,264	4,818	4,465	4,073	4,786
Industrial	1,824	1,876	1,718	1,465	1,508	2,117	2,146	1,898	1,555	1,544
Educational	19,203	20,647	19,129	20,361	25,783	22,294	23,638	21,145	21,573	26,374
Hospital	2,829	3,383	3,710	3,951	4,236	3,285	3,873	4,098	4,195	4,335
Other ³	19,965	19,943	19,991	19,834	21,528	23,184	22,840	22,078	21,040	22,034
Highways and streets	32,042	33,106	34,299	37,419	37,616	35,376	37,405	38,573	40,886	38,952
Military facilities	1,837	2,502	2,453	2,318	3,011	2,081	2,844	2,735	2,497	3,102
Conservation and development ..	5,011	5,952	5,937	6,363	6,308	5,714	6,695	6,496	6,751	6,443
Sewer systems	10,039	9,663	8,863	8,700	8,420	11,448	10,874	9,705	9,231	8,600
Water supply facilities	4,981	5,162	5,085	4,647	4,709	5,840	5,939	5,594	4,868	4,809
Miscellaneous public ⁴	8,793	9,477	10,765	11,301	12,116	9,864	10,683	11,932	12,173	12,468

See footnotes at end of table.

Table 1. Annual Value of Construction Put in Place: 1991-2000—Con.

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Total construction	615,900	653,429	704,724	763,786	815,414	615,797	632,680	664,244	692,281	706,899
Private construction	476,638	502,734	551,383	596,280	640,554	476,650	487,197	519,859	540,159	555,089
Residential buildings	281,115	289,014	314,607	350,562	374,274	281,207	280,720	297,960	317,232	323,708
New housing units	191,113	198,063	223,983	251,272	264,864	191,212	192,386	212,068	227,461	229,103
1 unit	170,790	175,179	199,409	223,837	236,788	170,865	170,154	188,785	202,615	204,812
2 units or more	20,324	22,883	24,574	27,434	28,076	20,347	22,232	23,283	24,847	24,292
Improvements	90,002	90,951	90,624	99,290	109,410	89,996	88,334	85,892	84,771	94,605
Nonresidential buildings	155,858	173,875	190,710	193,935	210,140	155,813	167,610	177,644	173,418	179,654
Industrial	38,166	37,624	40,484	32,639	32,073	38,161	36,267	37,720	29,204	27,419
Office	27,886	34,305	42,226	47,582	55,686	27,875	33,058	39,333	42,549	47,594
Hotels, motels	10,912	12,898	14,816	15,951	16,396	10,909	12,438	13,794	14,273	14,027
Other commercial	48,188	51,809	53,598	56,915	61,453	48,170	49,948	49,915	50,867	52,539
Religious	4,534	5,777	6,594	7,371	8,068	4,531	5,565	6,139	6,590	6,898
Educational	6,742	8,693	9,698	9,645	11,356	6,737	8,375	9,039	8,621	9,707
Hospital and institutional	11,780	13,546	13,793	13,530	14,575	11,778	13,066	12,853	12,101	12,459
Miscellaneous ¹	7,650	9,223	9,501	10,301	10,533	7,650	8,892	8,850	9,214	9,010
Farm nonresidential	3,658	3,815	4,284	5,008	5,158	3,657	3,675	3,989	4,474	4,407
Public utilities	33,202	33,638	39,212	44,066	48,084	33,167	32,883	37,818	42,534	44,749
Telecommunications	11,810	12,416	12,458	18,404	17,994	11,791	12,159	12,188	18,305	17,497
Other public utilities	21,391	21,222	26,754	25,662	30,089	21,376	20,725	25,631	24,229	27,253
Railroads	4,398	4,922	5,736	4,670	4,226	4,391	4,745	5,463	4,311	3,750
Electric light and power	11,256	11,325	12,381	14,585	21,111	11,253	11,122	11,883	13,892	19,251
Gas	4,722	4,006	7,372	4,918	3,750	4,720	3,911	7,072	4,625	3,354
Petroleum pipelines	1,015	969	1,265	1,489	1,003	1,013	947	1,213	1,401	897
All other private ²	2,805	2,392	2,570	2,709	2,899	2,806	2,309	2,447	2,501	2,570
Public construction	139,263	150,695	153,341	167,507	174,860	139,147	145,483	144,385	152,121	151,810
Buildings	63,471	69,860	71,776	76,542	82,275	63,446	67,400	66,920	68,474	70,390
Housing and redevelopment ..	5,048	5,299	4,922	5,138	5,228	5,046	5,150	4,663	4,653	4,521
Industrial	1,389	999	1,010	925	1,159	1,390	965	941	827	991
Educational	28,590	33,552	34,828	38,966	43,560	28,577	32,340	32,431	34,821	37,237
Hospital	4,617	4,977	3,906	3,932	4,007	4,617	4,802	3,641	3,516	3,427
Other ³	23,826	25,033	27,110	27,582	28,321	23,815	24,144	25,245	24,657	24,214
Highways and streets	39,464	42,602	45,565	51,374	52,088	39,412	41,093	43,085	46,858	45,230
Military facilities	2,591	2,556	2,530	2,130	2,337	2,593	2,466	2,377	1,926	2,016
Conservation and development ..	6,008	5,625	5,452	5,993	6,014	6,000	5,431	5,223	5,594	5,449
Sewer systems	9,798	10,515	9,367	10,343	10,287	9,778	10,152	8,976	9,653	9,324
Water supply facilities	5,618	6,493	6,290	6,844	6,928	5,609	6,347	6,035	6,431	6,160
Miscellaneous public ⁴	12,313	13,045	12,361	14,280	14,930	12,310	12,594	11,767	13,185	13,241

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: 1991-2000

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Total public construction	110,109	115,847	115,960	120,193	129,933	125,467	131,755	128,720	128,842	133,450
State and local construction	97,264	101,471	101,535	105,753	114,181	110,736	115,424	112,788	113,435	117,298
Total buildings	41,520	44,022	42,865	44,303	51,711	48,303	50,481	47,393	46,982	52,891
Housing and redevelopment	3,374	3,977	3,775	3,389	4,122	4,011	4,631	4,203	3,599	4,200
Educational	19,183	20,617	19,108	20,335	25,757	22,271	23,604	21,122	21,545	26,347
Hospital	2,125	2,626	2,804	3,099	3,195	2,468	3,007	3,096	3,292	3,269
Other ¹	16,838	16,801	17,177	17,480	18,638	19,553	19,240	18,972	18,546	19,075
Highways and streets	31,806	32,886	33,961	36,991	37,308	35,115	37,156	38,193	40,418	38,633
Conservation and development ..	1,408	1,419	1,719	1,988	2,140	1,605	1,595	1,880	2,108	2,187
Sewer systems	10,039	9,663	8,863	8,700	8,420	11,448	10,874	9,705	9,231	8,600
Water supply facilities	4,981	5,162	5,085	4,647	4,709	5,840	5,939	5,594	4,868	4,809
Miscellaneous nonbuilding ²	7,510	8,320	9,043	9,125	9,893	8,425	9,378	10,023	9,828	10,177
Federal construction	12,845	14,376	14,424	14,440	15,751	14,731	16,331	15,932	15,406	16,151
Total buildings	5,886	5,964	5,695	5,142	6,043	6,841	6,834	6,292	5,454	6,183
Housing	213	161	236	446	576	253	187	262	473	586
Industrial	1,824	1,876	1,718	1,465	1,508	2,117	2,146	1,898	1,555	1,544
Educational	20	30	21	26	27	23	34	23	28	27
Hospital	703	757	906	851	1,041	817	866	1,002	904	1,066
Other ³	3,127	3,141	2,814	2,354	2,891	3,630	3,600	3,106	2,494	2,960
Highways and streets	236	220	338	428	308	261	249	380	468	319
Military facilities	1,837	2,502	2,453	2,318	3,011	2,081	2,844	2,735	2,497	3,102
Conservation and development ..	3,603	4,533	4,217	4,376	4,167	4,109	5,099	4,617	4,643	4,257
Miscellaneous public ⁴	1,283	1,157	1,722	2,176	2,223	1,439	1,305	1,909	2,344	2,290

See footnotes at end of table.

Table 2. **Annual Value of Public Construction Put in Place: 1991-2000**—Con.

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Total public construction	139,263	150,695	153,341	167,507	174,860	139,147	145,483	144,385	152,121	151,810
State and local construction	123,938	136,608	139,023	153,505	161,053	123,819	131,891	130,880	139,348	139,704
Total buildings	57,240	63,752	65,750	71,073	77,203	57,212	61,508	61,297	63,578	66,049
Housing and redevelopment	4,367	4,622	4,384	4,714	4,846	4,365	4,492	4,153	4,269	4,190
Educational	28,578	33,533	34,813	38,950	43,531	28,565	32,322	32,417	34,807	37,212
Hospital	3,457	3,725	2,897	3,081	3,372	3,457	3,596	2,700	2,754	2,884
Other ¹	20,838	21,872	23,656	24,327	25,454	20,826	21,099	22,027	21,749	21,763
Highways and streets	39,096	42,347	45,308	51,123	51,790	39,045	40,847	42,842	46,629	44,971
Conservation and development . .	2,163	2,256	1,915	1,988	1,985	2,159	2,178	1,836	1,855	1,798
Sewer systems	9,798	10,515	9,367	10,343	10,287	9,778	10,152	8,976	9,653	9,324
Water supply facilities	5,618	6,493	6,290	6,844	6,928	5,609	6,347	6,035	6,431	6,160
Miscellaneous nonbuilding ²	10,022	11,245	10,393	12,135	12,859	10,017	10,859	9,894	11,202	11,402
Federal construction	15,325	14,087	14,318	14,002	13,807	15,328	13,592	13,505	12,774	12,106
Total buildings	6,230	6,107	6,026	5,470	5,072	6,234	5,892	5,624	4,896	4,341
Housing	681	677	538	424	382	682	658	510	384	331
Industrial	1,389	999	1,010	925	1,159	1,390	965	941	827	991
Educational	12	19	15	15	29	12	19	14	14	25
Hospital	1,159	1,251	1,009	850	634	1,161	1,206	941	762	543
Other ³	2,989	3,161	3,454	3,255	2,867	2,989	3,045	3,217	2,909	2,452
Highways and streets	368	255	257	251	298	368	246	243	229	258
Military facilities	2,591	2,556	2,530	2,130	2,337	2,593	2,466	2,377	1,926	2,016
Conservation and development . .	3,845	3,368	3,536	4,005	4,029	3,841	3,252	3,387	3,739	3,651
Miscellaneous public ⁴	2,291	1,800	1,969	2,145	2,071	2,293	1,735	1,873	1,983	1,839

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 1999-May 2001— 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 2000	307,130	243,713	142,489	102,936	91,328	11,608	80,637	12,253	20,894	6,874	23,360	3,088	4,219	5,595	4,355	(NA)	6,418	1,004	
May 2001	328,359	256,766	146,511	103,704	91,810	11,894	86,454	13,216	23,960	6,231	24,671	3,134	4,691	6,424	4,129	(NA)	(NA)	971	
Percent change	7	5	3	1	1	2	7	8	15	-9	6	1	11	15	-5	(NA)	(NA)	-3	
MONTHLY DATA																			
1999: May ^f	63,740	50,051	30,021	21,288	18,948	2,340	16,329	2,672	4,015	1,354	4,841	599	798	1,149	901	(NA)	1,294	239	
June ^f	68,919	53,605	32,110	22,478	20,069	2,409	16,705	2,851	4,050	1,296	4,979	628	946	1,109	847	(NA)	1,472	243	
July ^f	70,736	54,862	32,882	23,208	20,820	2,388	16,708	2,816	3,964	1,346	5,071	628	955	1,083	846	(NA)	1,638	251	
August ^f	72,375	55,360	33,754	23,545	21,068	2,477	16,916	2,767	4,169	1,277	5,127	669	930	1,137	840	(NA)	1,747	239	
September ^f	72,504	55,426	33,907	23,362	20,938	2,424	17,027	2,739	4,325	1,266	5,199	638	828	1,164	867	(NA)	1,694	232	
October ^f	70,676	55,001	33,756	22,959	20,582	2,376	16,689	2,597	4,184	1,251	5,143	680	800	1,180	856	(NA)	1,818	226	
November ^f	68,448	53,786	32,343	22,476	20,186	2,290	16,589	2,547	4,015	1,326	5,225	641	803	1,163	869	(NA)	1,934	237	
December ^f	60,716	47,681	27,107	19,804	17,553	2,251	15,651	2,594	3,792	1,308	4,624	587	776	1,100	871	(NA)	1,994	254	
2000: January ^f	55,427	43,986	26,065	18,625	16,492	2,133	14,443	2,141	3,614	1,323	4,223	577	736	1,034	796	(NA)	1,166	173	
February ^f	54,410	43,316	24,013	17,865	15,758	2,107	15,500	2,316	3,909	1,314	4,647	620	783	1,061	851	(NA)	1,112	197	
March ^f	62,364	49,697	28,947	21,164	18,750	2,415	16,269	2,460	4,220	1,426	4,641	628	843	1,135	916	(NA)	1,484	216	
April ^f	64,670	51,088	30,172	22,036	19,585	2,451	16,610	2,530	4,366	1,404	4,784	626	851	1,173	877	(NA)	1,213	204	
May ^f	70,259	55,626	33,292	23,247	20,743	2,504	17,815	2,807	4,784	1,407	5,066	637	1,007	1,193	914	(NA)	1,443	215	
June ^f	72,991	57,340	34,596	24,097	21,552	2,545	18,130	2,902	4,653	1,426	5,345	691	1,016	1,200	899	(NA)	1,597	233	
July ^f	72,395	56,740	34,229	24,187	21,882	2,305	18,095	2,793	4,650	1,394	5,370	719	1,070	1,223	877	(NA)	1,332	241	
August ^f	76,948	58,851	34,650	24,270	21,903	2,367	19,123	2,857	5,009	1,394	5,736	741	1,182	1,276	929	(NA)	1,447	304	
September ^f	77,025	58,994	34,302	23,788	21,491	2,297	19,054	2,796	5,156	1,362	5,799	722	1,022	1,295	903	(NA)	1,818	302	
October ^f	75,332	58,846	34,271	23,320	20,961	2,359	19,158	2,910	5,103	1,364	5,780	778	1,006	1,323	894	(NA)	1,631	300	
November ^f	70,999	56,251	32,628	22,632	20,286	2,346	18,452	2,850	5,177	1,327	5,208	705	961	1,342	882	(NA)	1,753	277	
December ^f	62,594	49,819	27,109	19,634	17,385	2,249	17,491	2,713	5,044	1,255	4,856	625	880	1,322	796	(NA)	1,999	238	
2001: January ^f	59,522	47,316	26,285	18,600	16,417	2,183	16,695	2,715	4,721	1,237	4,540	618	864	1,255	746	(NA)	1,675	193	
February ^f	57,587	45,548	24,588	18,015	15,800	2,215	16,420	2,476	4,571	1,241	4,661	602	848	1,231	789	(NA)	1,604	196	
March ^f	65,381	52,066	29,450	21,047	18,676	2,371	17,842	2,739	5,004	1,273	5,072	624	934	1,313	884	(NA)	1,780	191	
April ^f	69,720	53,876	31,152	22,168	19,713	2,455	17,643	2,643	4,893	1,235	5,129	637	986	1,280	841	(NA)	1,795	189	
May ^p	76,149	57,959	35,036	23,875	21,204	2,671	17,855	2,642	4,771	1,246	5,269	653	1,059	1,345	869	(NA)	(NA)	202	
PERCENT CHANGE																			
April 2001-May 2001	9	8	12	8	8	9	1	(Z)	-2	1	3	3	7	5	3	(NA)	(NA)	7	

See footnotes at end of table.

Table 3a. **Monthly Value of Construction Put in Place: May 1999-May 2001— 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 2000	63,417	31,023	1,979	461	15,904	1,624	11,055	17,009	941	2,303	4,059	2,682	5,399
May 2001	71,593	35,382	2,517	578	18,201	1,611	12,476	18,823	908	2,712	4,452	3,417	5,898
Percent change	13	14	27	25	14	-1	13	11	-4	18	10	27	9
MONTHLY DATA													
1999: May ^f	13,689	6,124	467	83	3,056	319	2,200	4,353	179	414	875	581	1,162
June ^f	15,314	6,850	433	73	3,707	345	2,292	4,993	186	496	953	606	1,231
July ^f	15,874	7,023	435	89	3,835	340	2,323	5,299	195	487	937	664	1,269
August ^f	17,015	7,441	463	70	4,146	319	2,444	5,818	142	587	967	656	1,406
September ^f	17,078	7,254	492	112	3,783	367	2,501	5,917	207	769	960	632	1,338
October ^f	15,674	6,777	460	45	3,464	335	2,473	5,359	151	411	971	627	1,378
November ^f	14,662	6,464	420	72	3,206	331	2,435	4,651	172	554	913	584	1,324
December ^f	13,035	6,091	424	88	2,938	325	2,317	3,708	210	548	850	499	1,130
2000: January ^f	11,441	5,822	361	93	2,992	306	2,071	2,924	139	425	720	500	911
February ^f	11,095	5,881	342	96	3,016	300	2,127	2,349	212	478	713	512	950
March ^f	12,667	6,145	409	92	3,151	308	2,185	3,318	212	499	794	498	1,200
April ^f	13,582	6,426	431	91	3,237	344	2,323	3,928	180	462	930	564	1,092
May ^f	14,633	6,749	436	89	3,509	367	2,348	4,490	198	440	903	607	1,247
June ^f	15,651	7,318	450	98	4,008	360	2,403	4,855	196	501	981	565	1,235
July ^f	15,655	7,334	427	98	4,180	334	2,295	5,095	188	427	873	542	1,197
August ^f	18,097	7,958	457	109	4,547	342	2,502	6,474	206	518	927	652	1,363
September ^f	18,031	7,708	480	125	4,157	374	2,573	6,179	269	797	918	654	1,506
October ^f	16,485	7,398	497	76	3,797	336	2,693	5,271	129	502	927	679	1,580
November ^f	14,748	6,930	488	93	3,522	341	2,486	4,181	225	479	867	619	1,446
December ^f	12,775	6,605	451	99	3,444	295	2,315	3,024	183	488	737	535	1,203
2001: January ^f	12,206	6,369	485	124	3,258	309	2,194	2,738	171	509	782	543	1,094
February ^f	12,039	6,192	435	103	3,143	295	2,216	2,719	161	536	753	576	1,102
March ^f	13,315	6,606	458	114	3,336	307	2,391	3,396	184	568	825	640	1,096
April ^f	15,844	7,664	542	130	3,888	326	2,778	4,467	200	518	987	836	1,172
May ^p	18,190	8,550	597	108	4,575	374	2,896	5,503	192	582	1,106	822	1,434
PERCENT CHANGE													
April 2001- May 2001	15	12	10	-17	18	15	4	23	-4	12	12	-2	22

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

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

Table 3b. Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars

[Millions of dollars]

Type of construction	1998												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	704,724	46,015	44,147	50,605	55,163	59,194	65,616	66,250	67,907	67,963	65,607	61,644	54,614
Private construction	551,383	36,829	35,114	40,732	43,903	47,123	51,097	51,059	52,033	51,568	50,629	48,412	42,884
Residential buildings	314,607	20,688	18,914	23,063	24,792	27,499	29,291	29,924	30,076	29,938	29,351	27,868	23,205
New housing units	223,983	14,230	13,693	16,295	17,440	18,410	19,867	21,069	21,394	21,517	21,329	20,741	17,999
1 unit	199,409	12,383	11,835	14,322	15,383	16,358	17,763	18,904	19,320	19,373	19,113	18,645	16,012
2 units or more	24,574	1,847	1,858	1,973	2,057	2,051	2,104	2,166	2,074	2,144	2,217	2,096	1,987
Improvements	90,624	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	190,710	13,540	13,622	14,659	15,559	15,676	16,850	16,419	17,005	17,016	17,271	16,864	16,230
Industrial	40,484	2,960	3,000	3,363	3,349	3,345	3,506	3,340	3,640	3,614	3,583	3,417	3,367
Office	42,226	3,127	3,087	3,185	3,431	3,549	3,762	3,533	3,483	3,598	3,835	3,865	3,772
Hotels, motels	14,816	999	989	1,065	1,158	1,099	1,321	1,285	1,360	1,409	1,436	1,349	1,347
Other commercial	53,598	3,586	3,599	3,973	4,236	4,402	4,833	4,894	4,960	4,903	4,993	4,823	4,397
Religious	6,594	483	489	486	495	464	526	541	604	614	640	644	607
Educational	9,698	684	730	786	850	891	909	854	895	851	744	759	745
Hospital and institutional	13,793	1,044	1,064	1,119	1,196	1,157	1,168	1,138	1,194	1,197	1,165	1,174	1,177
Miscellaneous ¹	9,501	656	664	683	845	768	825	834	869	831	876	834	818
Farm nonresidential	4,284	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	39,212	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	12,458	809	892	1,110	1,005	1,032	1,100	1,058	1,049	1,082	1,192	1,046	1,084
Railroads	5,736	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	12,381	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	7,372	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,265	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,570	187	173	187	185	204	259	217	247	236	234	239	204
Public construction	153,341	9,186	9,032	9,873	11,259	12,071	14,519	15,191	15,874	16,395	14,978	13,232	11,730
Buildings	71,776	4,882	4,841	5,077	5,497	5,712	6,596	6,986	6,996	6,942	6,389	6,029	5,828
Housing and redevelopment	4,922	361	356	386	414	393	449	492	411	429	418	418	397
Industrial	1,010	76	79	95	84	81	78	93	88	108	58	91	79
Educational	34,828	2,299	2,249	2,292	2,588	2,747	3,373	3,632	3,675	3,390	3,034	2,787	2,762
Hospital	3,906	312	291	359	290	331	334	321	312	399	347	307	303
Other ³	27,110	1,836	1,866	1,944	2,122	2,161	2,362	2,447	2,510	2,616	2,532	2,426	2,287
Highways and streets	45,565	1,923	1,889	2,297	3,084	3,553	4,683	4,861	5,466	5,533	5,389	3,959	2,930
Military facilities	2,530	188	187	237	204	199	225	279	241	225	157	189	198
Conservation and development	5,452	335	411	403	380	415	494	476	499	769	378	466	428
Other public construction	28,018	1,858	1,704	1,860	2,094	2,192	2,521	2,589	2,672	2,927	2,665	2,590	2,346
Sewer systems	9,367	637	599	675	712	727	824	856	867	906	918	878	767
Water supply facilities	6,290	418	421	426	499	520	504	550	553	602	651	598	550
Miscellaneous public ⁴	12,361	804	683	758	883	946	1,194	1,183	1,252	1,420	1,096	1,114	1,029

See footnotes at end of table.

Table 3b. **Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars—Con.**

[Millions of dollars]

Type of construction	1999												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	763,786	49,995	49,553	56,615	59,510	63,740	68,919	70,736	72,375	72,504	70,676	68,448	60,716
Private construction	596,280	39,830	39,026	45,074	46,578	50,051	53,605	54,862	55,360	55,426	55,001	53,786	47,681
Residential buildings	350,562	22,135	20,573	25,218	26,756	30,021	32,110	32,882	33,754	33,907	33,756	32,343	27,107
New housing units	251,272	16,763	16,084	19,215	20,090	21,288	22,478	23,208	23,545	23,362	22,959	22,476	19,804
1 unit	223,837	14,806	14,063	16,989	17,815	18,948	20,069	20,820	21,068	20,938	20,582	20,186	17,553
2 units or more	27,434	1,956	2,022	2,226	2,274	2,340	2,409	2,388	2,477	2,424	2,376	2,290	2,251
Improvements	99,290	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	193,935	14,557	14,994	15,781	15,990	16,329	16,705	16,708	16,916	17,027	16,689	16,589	15,651
Industrial	32,639	2,802	2,716	2,828	2,711	2,672	2,851	2,816	2,767	2,739	2,597	2,547	2,594
Office	47,582	3,596	3,754	3,844	3,875	4,015	4,050	3,964	4,169	4,325	4,184	4,015	3,792
Hotels, motels	15,951	1,304	1,410	1,432	1,383	1,354	1,296	1,346	1,277	1,266	1,251	1,326	1,308
Other commercial	56,915	3,829	3,986	4,357	4,536	4,841	4,979	5,071	5,127	5,199	5,143	5,225	4,624
Religious	7,371	571	555	574	600	599	628	628	669	638	680	641	587
Educational	9,645	614	647	723	827	798	946	955	930	828	800	803	776
Hospital and institutional	13,530	1,056	1,108	1,137	1,145	1,149	1,109	1,083	1,137	1,164	1,180	1,163	1,100
Miscellaneous ¹	10,301	786	819	886	914	901	847	846	840	867	856	869	871
Farm nonresidential	5,008	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	44,066	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	18,404	880	994	1,461	1,479	1,294	1,472	1,638	1,747	1,694	1,818	1,934	1,994
Railroads	4,670	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	14,585	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,918	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,489	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,709	168	167	209	245	239	243	251	239	232	226	237	254
Public construction	167,507	10,165	10,528	11,541	12,932	13,689	15,314	15,874	17,015	17,078	15,674	14,662	13,035
Buildings	76,542	5,294	5,407	5,743	6,074	6,124	6,850	7,023	7,441	7,254	6,777	6,464	6,091
Housing and redevelopment	5,138	356	349	407	432	467	433	435	463	492	460	420	424
Industrial	925	64	69	85	76	83	73	89	70	112	45	72	88
Educational	38,966	2,582	2,556	2,688	3,005	3,056	3,707	3,835	4,146	3,783	3,464	3,206	2,938
Hospital	3,932	301	353	312	287	319	345	340	319	367	335	331	325
Other ³	27,582	1,992	2,080	2,250	2,275	2,200	2,292	2,323	2,444	2,501	2,473	2,435	2,317
Highways and streets	51,374	2,288	2,432	2,883	3,674	4,353	4,993	5,299	5,818	5,917	5,359	4,651	3,708
Military facilities	2,130	147	175	188	179	179	186	195	142	207	151	172	210
Conservation and development	5,993	392	428	463	446	414	496	487	587	769	411	554	548
Other public construction	31,467	2,044	2,086	2,265	2,560	2,618	2,789	2,870	3,028	2,931	2,976	2,821	2,479
Sewer systems	10,343	692	652	773	799	875	953	937	967	960	971	913	850
Water supply facilities	6,844	449	482	518	546	581	606	664	656	632	627	584	499
Miscellaneous public ⁴	14,280	903	952	974	1,215	1,162	1,231	1,269	1,406	1,338	1,378	1,324	1,130

See footnotes at end of table.

Table 3b. **Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars—Con.**

[Millions of dollars]

Type of construction	2000												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	815,414	55,427	54,410	62,364	64,670	70,259	72,991	72,395	76,948	77,025	75,332	70,999	62,594
Private construction	640,554	43,986	43,316	49,697	51,088	55,626	57,340	56,740	58,851	58,994	58,846	56,251	49,819
Residential buildings	374,274	26,065	24,013	28,947	30,172	33,292	34,596	34,229	34,650	34,302	34,271	32,628	27,109
New housing units	264,864	18,625	17,865	21,164	22,036	23,247	24,097	24,187	24,270	23,788	23,320	22,632	19,634
1 unit	236,788	16,492	15,758	18,750	19,585	20,743	21,552	21,882	21,903	21,491	20,961	20,286	17,385
2 units or more	28,076	2,133	2,107	2,415	2,451	2,504	2,545	2,305	2,367	2,297	2,359	2,346	2,249
Improvements	109,410	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	210,140	14,443	15,500	16,269	16,610	17,815	18,130	18,095	19,123	19,054	19,158	18,452	17,491
Industrial	32,073	2,141	2,316	2,460	2,530	2,807	2,902	2,793	2,857	2,796	2,910	2,850	2,713
Office	55,686	3,614	3,909	4,220	4,366	4,784	4,653	4,650	5,009	5,156	5,103	5,177	5,044
Hotels, motels	16,396	1,323	1,314	1,426	1,404	1,407	1,426	1,394	1,362	1,364	1,364	1,327	1,255
Other commercial	61,453	4,223	4,647	4,641	4,784	5,066	5,345	5,370	5,736	5,799	5,780	5,208	4,856
Religious	8,068	577	620	628	626	637	691	719	741	722	778	705	625
Educational	11,356	736	783	843	851	1,007	1,016	1,070	1,182	1,022	1,006	961	880
Hospital and institutional	14,575	1,034	1,061	1,135	1,173	1,193	1,200	1,223	1,276	1,295	1,323	1,342	1,322
Miscellaneous ¹	10,533	796	851	916	877	914	899	877	929	903	894	882	796
Farm nonresidential	5,158	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	48,084	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	17,994	1,166	1,112	1,484	1,213	1,443	1,597	1,332	1,447	1,818	1,631	1,753	1,999
Railroads	4,226	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	21,111	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	3,750	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,003	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,899	173	197	216	204	215	233	241	304	302	300	277	238
Public construction	174,860	11,441	11,095	12,667	13,582	14,633	15,651	15,655	18,097	18,031	16,485	14,748	12,775
Buildings	82,275	5,822	5,881	6,145	6,426	6,749	7,318	7,334	7,958	7,708	7,398	6,930	6,605
Housing and redevelopment	5,228	361	342	409	431	436	450	427	457	480	497	488	451
Industrial	1,159	93	96	92	91	89	98	98	109	125	76	93	99
Educational	43,560	2,992	3,016	3,151	3,237	3,509	4,008	4,180	4,547	4,157	3,797	3,522	3,444
Hospital	4,007	306	300	308	344	367	360	334	342	374	336	341	295
Other ³	28,321	2,071	2,127	2,185	2,323	2,348	2,403	2,295	2,502	2,573	2,693	2,486	2,315
Highways and streets	52,088	2,924	2,349	3,318	3,928	4,490	4,855	5,095	6,474	6,179	5,271	4,181	3,024
Military facilities	2,337	139	212	212	180	198	196	188	206	269	129	225	183
Conservation and development	6,014	425	478	499	462	440	501	427	518	797	502	479	488
Other public construction	32,145	2,131	2,175	2,492	2,586	2,757	2,781	2,612	2,941	3,078	3,186	2,932	2,475
Sewer systems	10,287	720	713	794	930	903	981	873	927	918	927	867	737
Water supply facilities	6,928	500	512	498	564	607	565	542	652	654	679	619	535
Miscellaneous public ⁴	14,930	911	950	1,200	1,092	1,247	1,235	1,197	1,363	1,506	1,580	1,446	1,203

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 1999-May 2001—Seasonally Adjusted Annual Rate 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													
1999: May ^f	744,806	580,340	340,628	248,295	221,394	26,901	194,282	32,652	46,687	16,130	57,798	7,398	9,308	13,639	10,670	(NA)	16,701	2,961	
June ^f	755,904	592,023	344,999	249,159	222,165	26,994	192,571	32,675	47,599	14,978	56,682	7,675	9,793	13,271	9,898	(NA)	16,553	2,874	
July ^f	768,541	602,870	349,951	249,965	222,278	27,687	194,116	33,831	47,143	15,609	57,025	7,600	9,633	13,311	9,965	(NA)	19,266	2,823	
August ^f	758,803	593,994	355,037	251,481	223,334	28,148	189,778	31,771	48,242	14,875	55,129	7,367	9,314	13,290	9,790	(NA)	19,649	2,509	
September ^f	763,567	598,206	359,693	252,451	224,534	27,917	190,165	30,863	49,380	14,723	55,502	6,828	9,307	13,545	10,017	(NA)	19,486	2,512	
October ^f	771,515	604,152	364,647	253,337	225,973	27,364	189,056	28,988	48,886	15,073	55,746	7,423	9,663	13,583	9,694	(NA)	20,486	2,349	
November ^f	797,610	622,396	371,890	258,593	231,141	27,453	193,167	29,280	46,917	15,893	60,351	7,011	10,102	13,452	10,161	(NA)	21,390	2,707	
December ^f	811,436	631,061	378,359	264,983	236,667	28,316	193,676	29,872	46,768	15,823	59,282	7,160	10,635	13,321	10,815	(NA)	21,342	3,032	
2000: January ^f	820,048	632,770	382,902	269,740	240,758	28,982	196,617	29,293	47,454	17,327	60,324	7,699	10,567	13,223	10,730	(NA)	18,343	2,396	
February ^f	820,264	645,309	387,725	272,076	244,629	27,446	204,136	29,625	48,713	16,274	65,598	8,048	11,128	13,487	11,263	(NA)	15,157	2,925	
March ^f	832,999	648,725	386,936	274,281	244,561	29,719	205,510	31,101	51,837	17,061	61,263	8,222	11,183	13,726	11,115	(NA)	17,203	2,882	
April ^f	817,654	639,303	381,142	272,536	243,037	29,499	205,237	31,854	53,352	16,970	60,299	7,955	10,722	13,923	10,162	(NA)	16,121	2,654	
May ^f	814,016	640,622	376,813	270,515	241,903	28,611	209,758	33,319	54,880	16,598	60,434	7,823	11,692	14,205	10,807	(NA)	17,012	2,670	
June ^f	802,668	634,506	371,020	266,468	237,925	28,543	209,399	33,837	54,529	16,232	60,911	8,466	10,560	14,356	10,510	(NA)	17,789	2,762	
July ^f	792,253	627,733	364,140	260,266	233,407	26,859	211,555	33,986	55,805	16,432	60,388	8,723	10,852	15,038	10,332	(NA)	16,698	2,720	
August ^f	803,968	630,656	364,039	258,652	231,979	26,673	213,266	32,623	57,461	15,961	61,678	7,998	11,834	14,922	10,790	(NA)	15,648	3,165	
September ^f	815,410	638,851	364,372	257,355	230,675	26,680	214,027	31,384	59,380	16,273	61,969	8,064	11,469	15,053	10,434	(NA)	21,072	3,280	
October ^f	820,805	644,836	370,256	257,459	230,345	27,114	215,534	32,125	58,992	16,004	62,768	8,166	12,119	15,220	10,140	(NA)	17,955	3,121	
November ^f	826,746	651,066	374,281	259,935	232,061	27,874	215,342	33,265	60,552	15,862	60,035	7,662	12,103	15,528	10,335	(NA)	19,699	3,166	
December ^f	838,731	660,849	379,593	263,547	234,931	28,615	217,998	31,398	63,114	15,659	62,120	7,793	12,051	16,003	9,860	(NA)	23,043	2,829	
2001: January ^f	867,056	673,715	386,088	269,061	239,661	29,399	223,788	35,878	60,849	15,940	64,553	8,081	12,396	16,049	10,041	(NA)	24,272	2,681	
February ^f	876,171	681,826	398,863	275,425	245,596	29,829	220,158	33,386	58,922	15,939	65,646	8,143	12,077	15,685	10,359	(NA)	22,920	2,914	
March ^f	876,111	681,176	395,080	273,876	244,392	29,484	225,853	34,823	61,840	15,121	66,952	8,092	12,394	15,900	10,731	(NA)	21,657	2,549	
April ^f	879,231	674,043	395,145	275,089	245,393	29,696	217,351	33,316	59,126	14,735	64,581	8,100	12,452	15,250	9,791	(NA)	22,935	2,495	
May ^p	881,647	667,529	396,244	277,924	247,519	30,405	210,254	31,329	54,947	14,544	62,913	7,944	12,294	16,012	10,272	(NA)	(NA)	2,522	
PERCENT CHANGE																			
April 2001- May 2001	(Z)	-1	(Z)	1	1	2	-3	-6	-7	-1	-3	-2	-1	5	5	(NA)	(NA)	1	

See footnotes at end of table.

Table 4a. **Monthly Value of Construction Put in Place: May 1999-May 2001—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						
1999: May ^f	164,466	74,333	5,621	1,028	37,956	3,920	25,808	52,030	2,109	5,000	10,450	6,716	13,828
June ^f	163,881	75,188	5,029	832	39,335	3,792	26,200	49,517	2,147	5,742	10,506	6,969	13,812
July ^f	165,671	75,787	5,181	1,016	38,420	4,057	27,114	50,586	2,280	5,514	10,568	7,296	13,640
August ^f	164,809	77,086	5,496	853	39,312	3,794	27,630	48,181	1,643	6,287	10,256	7,191	14,165
September ^f	165,361	77,310	5,290	1,009	39,788	3,960	27,263	49,999	1,932	6,201	9,952	6,910	13,056
October ^f	167,364	78,004	5,149	643	40,043	3,904	28,265	50,010	2,213	5,656	10,298	6,442	14,742
November ^f	175,213	78,911	4,827	910	40,845	3,929	28,400	55,147	2,010	6,682	10,358	6,585	15,520
December ^f	180,375	78,619	5,126	1,011	39,696	3,923	28,862	59,322	2,410	7,128	11,235	6,497	15,164
2000: January ^f	187,278	81,349	4,810	1,240	42,947	4,055	28,297	65,712	1,849	6,182	10,532	7,410	14,244
February ^f	174,955	82,618	4,496	1,287	44,238	3,797	28,801	49,535	3,100	7,022	10,495	7,468	14,716
March ^f	184,274	82,160	5,168	1,064	44,122	3,814	27,992	58,301	2,467	6,589	10,643	6,914	17,199
April ^f	178,351	81,160	5,353	1,163	42,083	4,313	28,248	56,185	2,289	5,845	12,013	6,920	13,939
May ^f	173,394	81,473	5,139	1,059	43,538	4,255	27,483	51,903	2,329	5,314	10,515	6,979	14,881
June ^f	168,162	80,489	5,210	1,078	42,641	4,131	27,428	48,431	2,262	5,814	10,809	6,491	13,868
July ^f	164,520	79,082	5,132	1,161	41,911	3,998	26,881	49,628	2,196	4,818	9,945	5,961	12,890
August ^f	173,311	81,979	5,342	1,308	43,038	4,055	28,236	52,777	2,386	5,568	9,719	7,137	13,747
September ^f	176,559	82,233	5,275	1,099	43,751	4,042	28,067	53,923	2,509	6,425	9,617	7,156	14,695
October ^f	175,969	85,163	5,517	1,116	44,020	3,805	30,705	48,764	1,883	6,815	9,703	7,000	16,640
November ^f	175,680	84,673	5,575	1,177	44,776	4,151	28,994	48,858	2,629	5,789	9,831	6,989	16,911
December ^f	177,883	86,184	5,578	1,201	46,745	3,643	29,016	50,189	2,107	6,339	10,009	6,950	16,105
2001: January ^f	193,340	88,960	6,365	1,587	47,153	3,871	29,984	58,458	2,270	7,364	11,333	8,060	16,895
February ^f	194,345	88,513	5,943	1,392	47,089	3,916	30,173	58,794	2,342	7,826	11,521	8,416	16,934
March ^f	194,935	89,165	5,843	1,351	47,202	3,948	30,822	60,289	2,131	7,557	11,237	8,832	15,724
April ^f	205,188	97,188	6,628	1,603	51,325	4,039	33,593	61,117	2,534	6,564	12,545	10,287	14,953
May ^p	214,118	103,082	6,945	1,323	56,481	4,419	33,913	62,420	2,273	7,004	12,808	9,411	17,119
PERCENT CHANGE													
April 2001- May 2001	4	6	5	-17	10	9	1	2	-10	7	2	-9	14

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

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

Table 4b. **Monthly Value of Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars**

[Millions of dollars]

Type of construction	1998											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	674,990	677,642	683,767	695,517	690,830	718,693	715,607	712,890	713,175	712,960	721,124	725,200
Private construction	527,611	532,072	538,190	548,885	545,689	563,327	558,745	558,228	554,375	555,212	562,805	563,908
Residential buildings	305,301	308,310	311,604	313,449	311,540	314,658	317,999	315,387	317,042	316,958	320,291	321,626
New housing units	207,206	210,111	212,804	215,752	215,441	220,887	226,553	227,537	231,406	234,337	238,059	240,913
1 unit	182,101	184,925	188,241	191,287	191,887	197,182	201,638	204,080	206,640	208,880	212,880	215,891
2 units or more	25,105	25,186	24,563	24,465	23,553	23,705	24,915	23,457	24,766	25,457	25,180	25,022
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	183,431	183,486	185,537	191,031	186,482	194,132	190,483	192,613	189,418	194,548	197,805	199,246
Industrial	39,954	40,542	42,259	41,995	40,218	40,573	39,795	42,953	39,747	40,109	40,121	38,299
Office	40,569	39,917	39,479	41,087	41,146	44,345	41,691	40,576	41,075	44,546	45,469	46,617
Hotels, motels	12,894	12,724	12,800	13,659	13,322	15,010	14,956	15,947	16,672	16,745	16,423	16,065
Other commercial	51,414	50,865	52,501	53,451	52,667	54,863	55,043	53,384	52,207	54,028	55,758	56,426
Religious	6,481	6,672	6,250	6,134	5,895	6,373	6,601	6,722	6,648	6,743	7,188	7,139
Educational	9,871	10,385	10,426	10,717	10,402	9,368	8,569	9,582	9,582	9,019	9,541	10,242
Hospital and institutional	13,390	13,510	13,548	14,232	13,723	13,979	13,988	13,922	13,930	13,432	13,584	14,257
Miscellaneous ¹	8,858	8,872	8,275	9,756	9,109	9,621	9,840	10,135	9,556	9,924	9,720	10,201
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	11,820	12,875	13,578	12,395	13,010	12,350	12,022	12,362	12,271	12,960	12,198	11,741
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	2,565	2,566	2,498	2,412	2,516	3,051	2,436	2,615	2,550	2,441	2,713	2,448
Public construction	147,378	145,571	145,577	146,633	145,141	155,366	156,862	154,662	158,801	157,748	158,319	161,292
Buildings	68,067	68,475	67,912	69,369	69,285	72,498	75,367	72,914	73,703	73,229	73,533	75,408
Housing and redevelopment	4,712	4,851	4,962	5,029	4,745	5,192	5,792	4,954	4,555	4,618	4,889	4,814
Industrial	964	1,067	1,194	1,022	986	884	1,039	1,067	987	796	1,172	967
Educational	33,271	33,323	32,175	34,009	34,190	35,754	36,357	34,787	35,586	34,943	35,396	37,279
Hospital	4,153	3,879	4,429	3,559	4,044	3,723	3,715	3,818	4,013	4,190	3,786	3,657
Other ³	24,967	25,354	25,152	25,751	25,320	26,945	28,465	28,289	28,563	28,682	28,291	28,691
Highways and streets	43,859	42,452	43,402	43,589	42,502	46,325	44,561	45,710	47,287	49,181	47,081	47,062
Military facilities	2,501	2,741	2,755	2,594	2,346	2,595	3,256	2,792	2,100	2,298	2,203	2,281
Conservation and development	4,956	6,006	5,403	4,794	5,008	5,696	5,383	5,312	6,169	5,066	5,642	5,547
Other public construction	27,995	25,898	26,105	26,286	25,999	28,253	28,295	27,934	29,542	27,975	29,859	30,994
Sewer systems	9,342	9,186	9,107	8,980	8,712	9,072	9,542	9,316	9,371	9,596	10,062	10,128
Water supply facilities	6,131	6,137	5,953	6,133	6,026	5,798	6,033	6,071	6,592	6,665	6,708	7,143
Miscellaneous public ⁴	12,523	10,575	11,046	11,174	11,262	13,383	12,720	12,546	13,578	11,714	13,089	13,723

See footnotes at end of table.

Table 4b. **Monthly Value of Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars—Con.**

[Millions of dollars]

Type of construction	1999											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	735,705	754,200	757,474	747,409	744,806	755,904	768,541	758,803	763,567	771,515	797,609	811,436
Private construction	570,944	583,748	588,791	579,483	580,340	592,023	602,870	593,994	598,205	604,151	622,396	631,061
Residential buildings	325,335	330,620	336,769	336,794	340,628	344,999	349,951	355,037	359,693	364,646	371,889	378,359
New housing units	243,619	246,195	249,564	248,009	248,295	249,159	249,965	251,481	252,451	253,337	258,593	264,983
1 unit	216,942	218,875	222,081	220,852	221,394	222,165	222,278	223,334	224,534	225,973	231,141	236,667
2 units or more	26,677	27,320	27,483	27,157	26,901	26,994	27,687	28,148	27,917	27,364	27,453	28,316
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	197,827	201,360	198,951	195,912	194,282	192,571	194,116	189,778	190,165	189,056	193,167	193,676
Industrial	37,688	36,705	35,455	33,747	32,652	32,675	33,831	31,771	30,863	28,988	29,280	29,872
Office	47,155	48,537	47,267	46,542	46,687	47,599	47,143	48,242	49,380	48,886	46,917	46,768
Hotels, motels	17,411	18,129	17,128	16,315	16,130	14,978	15,609	14,875	14,723	15,073	15,893	15,823
Other commercial	54,761	56,274	57,584	57,115	57,798	56,682	57,025	55,129	55,502	55,746	60,351	59,282
Religious	7,876	7,554	7,406	7,589	7,398	7,675	7,600	7,367	6,828	7,423	7,011	7,160
Educational	8,827	9,198	9,585	10,419	9,308	9,793	9,633	9,314	9,307	9,663	10,102	10,635
Hospital and institutional	13,507	14,085	13,770	13,621	13,639	13,271	13,311	13,290	13,545	13,583	13,452	13,321
Miscellaneous ¹	10,600	10,878	10,755	10,563	10,670	9,898	9,965	9,790	10,017	9,694	10,161	10,815
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	13,415	14,305	17,176	17,762	16,701	16,553	19,266	19,649	19,486	20,486	21,390	21,342
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	2,312	2,480	2,788	3,202	2,961	2,874	2,823	2,509	2,512	2,349	2,707	3,032
Public construction	164,761	170,453	168,682	167,925	164,466	163,881	165,671	164,809	165,361	167,364	175,213	180,375
Buildings	73,918	76,269	76,544	76,419	74,333	75,188	75,787	77,086	77,310	78,004	78,911	78,619
Housing and redevelopment	4,722	4,760	5,156	5,238	5,621	5,029	5,181	5,496	5,290	5,149	4,827	5,126
Industrial	845	938	1,006	898	1,028	832	1,016	853	1,009	643	910	1,011
Educational	37,191	37,626	37,688	39,232	37,956	39,335	38,420	39,312	39,788	40,043	40,845	39,696
Hospital	3,967	4,713	3,725	3,547	3,920	3,792	4,057	3,794	3,960	3,904	3,929	3,923
Other ³	27,194	28,232	28,969	27,504	25,808	26,200	27,114	27,630	27,263	28,265	28,400	28,862
Highways and streets	52,286	53,647	52,172	51,387	52,030	49,517	50,586	48,181	49,999	50,010	55,147	59,322
Military facilities	1,951	2,555	2,180	2,273	2,109	2,147	2,280	1,643	1,932	2,213	2,010	2,410
Conservation and development	5,731	6,261	6,107	5,634	5,000	5,742	5,514	6,287	6,201	5,656	6,682	7,128
Other public construction	30,875	31,721	31,680	32,212	30,994	31,286	31,504	31,612	29,919	31,481	32,463	32,896
Sewer systems	10,193	9,994	10,326	10,062	10,450	10,506	10,568	10,256	9,952	10,298	10,358	11,235
Water supply facilities	6,632	7,022	7,218	6,698	6,716	6,969	7,296	7,191	6,910	6,442	6,585	6,497
Miscellaneous public ⁴	14,049	14,705	14,136	15,452	13,828	13,812	13,640	14,165	13,056	14,742	15,520	15,164

See footnotes at end of table.

Table 4b. **Monthly Value of Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars—Con.**

[Millions of dollars]

Type of construction	2000											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	820,048	820,264	832,999	817,654	814,016	802,668	792,253	803,968	815,410	820,805	826,746	838,731
Private construction	632,770	645,309	648,725	639,303	640,622	634,506	627,733	630,656	638,850	644,836	651,066	660,849
Residential buildings	382,902	387,725	386,936	381,142	376,813	371,020	364,140	364,039	364,372	370,256	374,281	379,593
New housing units	269,740	272,075	274,281	272,536	270,515	266,468	260,266	258,652	257,355	257,459	259,935	263,547
1 unit	240,758	244,629	244,561	243,037	241,903	237,925	233,407	231,979	230,675	230,345	232,061	234,931
2 units or more	28,982	27,446	29,719	29,499	28,611	28,543	26,859	26,673	26,680	27,114	27,874	28,615
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	196,617	204,136	205,510	205,237	209,758	209,399	211,555	213,266	214,027	215,534	215,342	217,998
Industrial	29,293	29,625	31,101	31,854	33,319	33,837	33,986	32,623	31,384	32,125	33,265	31,398
Office	47,454	48,713	51,837	53,352	54,880	54,529	55,805	57,461	59,380	58,992	60,552	63,114
Hotels, motels	17,327	16,274	17,061	16,970	16,598	16,232	16,432	15,961	16,273	16,004	15,862	15,659
Other commercial	60,324	65,598	61,263	60,299	60,434	60,911	60,388	61,678	61,969	62,768	60,035	62,120
Religious	7,699	8,048	8,222	7,955	7,823	8,466	8,723	7,998	8,064	8,166	7,662	7,793
Educational	10,567	11,128	11,183	10,722	11,692	10,560	10,852	11,834	11,469	12,119	12,103	12,051
Hospital and institutional	13,223	13,487	13,726	13,923	14,205	14,356	15,038	14,922	15,053	15,220	15,528	16,003
Miscellaneous ¹	10,730	11,263	11,115	10,162	10,807	10,510	10,332	10,790	10,434	10,140	10,335	9,860
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	18,343	15,157	17,203	16,121	17,012	17,789	16,698	15,648	21,072	17,955	19,699	23,043
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	2,396	2,925	2,882	2,654	2,670	2,762	2,720	3,165	3,280	3,121	3,166	2,829
Public construction	187,278	174,955	184,274	178,351	173,394	168,162	164,520	173,311	176,559	175,969	175,680	177,883
Buildings	81,349	82,618	82,160	81,160	81,473	80,489	79,082	81,979	82,233	85,163	84,673	86,184
Housing and redevelopment	4,810	4,496	5,168	5,353	5,139	5,210	5,132	5,342	5,275	5,517	5,575	5,578
Industrial	1,240	1,287	1,064	1,163	1,059	1,078	1,161	1,308	1,099	1,116	1,177	1,201
Educational	42,947	44,238	44,122	42,083	43,538	42,641	41,911	43,038	43,751	44,020	44,776	46,745
Hospital	4,055	3,797	3,814	4,313	4,255	4,131	3,998	4,055	4,042	3,805	4,151	3,643
Other ³	28,297	28,801	27,992	28,248	27,483	27,428	26,881	28,236	28,067	30,705	28,994	29,016
Highways and streets	65,712	49,535	58,301	56,185	51,903	48,431	49,628	52,777	53,923	48,764	48,858	50,189
Military facilities	1,849	3,100	2,467	2,289	2,329	2,262	2,196	2,386	2,509	1,883	2,629	2,107
Conservation and development	6,182	7,022	6,589	5,845	5,314	5,814	4,818	5,568	6,425	6,815	5,789	6,339
Other public construction	32,186	32,679	34,756	32,872	32,375	31,167	28,797	30,602	31,468	33,343	33,731	33,064
Sewer systems	10,532	10,495	10,643	12,013	10,515	10,809	9,945	9,719	9,617	9,703	9,831	10,009
Water supply facilities	7,410	7,468	6,914	6,920	6,979	6,491	5,961	7,137	7,156	7,000	6,989	6,950
Miscellaneous public ⁴	14,244	14,716	17,199	13,939	14,881	13,868	12,890	13,747	14,695	16,640	16,911	16,105

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 1999-May 2001—Seasonally Adjusted Annual Rate in 1996 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													
1999: May ^f	678,581	528,474	310,226	226,134	201,633	24,500	174,714	29,363	41,985	14,506	51,977	6,652	8,371	12,265	9,595	(NA)	16,618	2,742	
June ^f	685,141	536,614	312,499	225,687	201,236	24,451	172,092	29,200	42,537	13,385	50,654	6,859	8,751	11,859	8,845	(NA)	16,503	2,639	
July ^f	695,279	545,065	315,556	225,396	200,431	24,966	173,164	30,179	42,054	13,924	50,870	6,779	8,593	11,874	8,889	(NA)	19,285	2,599	
August ^f	684,774	535,781	319,853	226,560	201,201	25,358	168,841	28,266	42,920	13,234	49,047	6,555	8,286	11,824	8,710	(NA)	19,610	2,302	
September ^f	688,784	539,258	323,756	227,228	202,101	25,128	169,186	27,458	43,933	13,099	49,379	6,075	8,280	12,050	8,912	(NA)	19,467	2,306	
October ^f	693,122	542,648	327,037	227,208	202,667	24,542	167,306	25,653	43,262	13,339	49,333	6,569	8,551	12,021	8,579	(NA)	20,486	2,147	
November ^f	713,575	556,749	332,044	230,887	206,376	24,511	170,042	25,775	41,300	13,990	53,126	6,171	8,893	11,842	8,945	(NA)	21,390	2,463	
December ^f	723,543	562,585	336,618	235,750	210,558	25,192	169,891	26,204	41,025	13,879	52,002	6,280	9,329	11,685	9,487	(NA)	21,321	2,752	
2000: January ^f	720,341	554,433	333,829	235,170	209,902	25,268	170,379	25,384	41,121	15,014	52,274	6,672	9,157	11,458	9,298	(NA)	18,215	2,166	
February ^f	719,031	564,728	338,329	237,413	213,464	23,950	176,588	25,627	42,139	14,078	56,745	6,962	9,627	11,667	9,743	(NA)	14,948	2,630	
March ^f	731,241	568,450	337,935	239,546	213,591	25,956	177,930	26,928	44,881	14,771	53,042	7,119	9,682	11,884	9,624	(NA)	16,966	2,594	
April ^f	714,807	558,658	332,875	238,023	212,259	25,764	176,776	27,436	45,954	14,617	51,937	6,852	9,235	11,992	8,753	(NA)	15,758	2,370	
May ^f	709,169	558,056	327,949	235,435	210,534	24,901	180,204	28,624	47,148	14,260	51,919	6,721	10,045	12,203	9,284	(NA)	16,581	2,376	
June ^f	697,476	551,061	321,508	230,908	206,174	24,734	179,588	29,019	46,765	13,921	52,239	7,261	9,056	12,312	9,014	(NA)	17,339	2,461	
July ^f	685,157	542,810	314,456	224,755	201,560	23,194	180,508	28,998	47,615	14,021	51,526	7,443	9,259	12,831	8,816	(NA)	16,228	2,407	
August ^f	694,146	544,485	314,097	223,168	200,155	23,014	181,503	27,764	48,903	13,584	52,492	6,807	10,071	12,699	9,183	(NA)	15,221	2,793	
September ^f	703,256	551,028	313,573	221,476	198,515	22,960	181,841	26,664	50,451	13,826	52,650	6,851	9,744	12,790	8,865	(NA)	20,479	2,890	
October ^f	705,695	554,513	318,089	221,185	197,891	23,294	182,656	27,225	49,993	13,562	53,193	6,920	10,271	12,899	8,593	(NA)	17,281	2,738	
November ^f	708,897	558,316	320,446	222,547	198,682	23,865	182,030	28,119	51,185	13,408	50,748	6,477	10,231	13,126	8,736	(NA)	18,869	2,775	
December ^f	717,155	564,809	323,333	224,486	200,112	24,374	183,809	26,474	53,216	13,203	52,378	6,571	10,161	13,493	8,314	(NA)	22,051	2,482	
2001: January ^f	739,304	573,632	326,916	227,824	202,931	24,894	188,374	30,201	51,220	13,418	54,337	6,802	10,434	13,509	8,452	(NA)	23,227	2,355	
February ^f	744,360	578,166	336,310	232,230	207,079	25,151	184,696	28,008	49,432	13,372	55,073	6,831	10,132	13,159	8,690	(NA)	21,891	2,559	
March ^f	738,995	574,277	331,443	229,761	205,027	24,735	188,211	29,019	51,533	12,601	55,793	6,743	10,329	13,250	8,942	(NA)	20,646	2,207	
April ^f	741,033	567,904	331,220	230,586	205,694	24,892	180,825	27,717	49,190	12,259	53,728	6,739	10,360	12,687	8,145	(NA)	21,864	2,160	
May ^p	741,518	561,593	332,141	232,962	207,476	25,486	174,340	25,978	45,561	12,059	52,167	6,587	10,194	13,277	8,517	(NA)	(NA)	2,173	
PERCENT CHANGE																			
April 2001- May 2001	(Z)	-1	(Z)	1	1	2	-4	-6	-7	-2	-3	-2	-2	5	5	(NA)	(NA)	1	

See footnotes at end of table.

Table 5a. **Monthly Value of Construction Put in Place: May 1999-May 2001—Seasonally Adjusted Annual Rate in 1996 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						
1999: May ^f	150,107	66,911	5,119	924	34,134	3,525	23,209	47,690	1,914	4,677	9,776	6,335	12,804
June ^f	148,527	67,253	4,556	744	35,152	3,388	23,414	45,016	1,935	5,327	9,745	6,568	12,683
July ^f	150,214	67,657	4,671	906	34,273	3,619	24,188	46,113	2,056	5,124	9,821	6,883	12,560
August ^f	148,993	68,643	4,951	759	34,975	3,376	24,582	43,801	1,477	5,821	9,496	6,759	12,995
September ^f	149,525	68,836	4,762	898	35,399	3,523	24,255	45,495	1,739	5,747	9,224	6,495	11,989
October ^f	150,475	69,091	4,618	569	35,436	3,455	25,013	45,135	1,977	5,232	9,526	6,037	13,475
November ^f	156,825	69,525	4,310	801	35,955	3,459	25,000	49,503	1,787	6,170	9,564	6,154	14,122
December ^f	160,957	69,028	4,560	887	34,821	3,442	25,317	53,060	2,135	6,569	10,355	6,050	13,761
2000: January ^f	165,908	70,518	4,194	1,075	37,216	3,514	24,521	58,724	1,626	5,661	9,645	6,855	12,879
February ^f	154,303	71,503	3,923	1,113	38,268	3,284	24,915	44,071	2,719	6,384	9,541	6,852	13,234
March ^f	162,791	71,173	4,514	922	38,201	3,302	24,235	51,962	2,166	5,990	9,676	6,343	15,480
April ^f	156,149	69,969	4,675	1,002	36,247	3,715	24,330	49,285	1,989	5,309	10,911	6,240	12,445
May ^f	151,113	70,052	4,472	909	37,404	3,656	23,610	45,172	2,013	4,839	9,576	6,220	13,240
June ^f	146,415	69,076	4,515	924	36,571	3,543	23,523	42,077	1,953	5,314	9,880	5,754	12,360
July ^f	142,347	67,529	4,431	990	35,760	3,411	22,936	42,893	1,885	4,368	9,017	5,248	11,407
August ^f	149,662	69,832	4,609	1,113	36,628	3,451	24,030	45,576	2,046	5,029	8,779	6,266	12,133
September ^f	152,228	69,925	4,539	934	37,171	3,435	23,846	46,486	2,146	5,789	8,664	6,272	12,947
October ^f	151,182	72,237	4,740	946	37,305	3,224	26,021	41,786	1,606	6,129	8,725	6,103	14,597
November ^f	150,580	71,636	4,773	995	37,849	3,509	24,509	41,759	2,235	5,206	8,841	6,083	14,821
December ^f	152,347	72,715	4,751	1,013	39,414	3,072	24,465	42,933	1,788	5,711	9,017	6,054	14,127
2001: January ^f	165,673	74,914	5,390	1,336	39,691	3,258	25,239	50,093	1,927	6,640	10,219	7,033	14,846
February ^f	166,194	74,281	5,011	1,168	39,504	3,285	25,313	50,294	1,985	7,050	10,379	7,337	14,868
March ^f	164,718	74,337	4,902	1,126	39,335	3,290	25,685	50,409	1,779	6,790	10,096	7,693	13,613
April ^f	173,130	80,897	5,556	1,334	42,700	3,360	27,948	51,058	2,114	5,892	11,262	8,961	12,946
May ^p	179,925	85,537	5,822	1,097	46,834	3,664	28,120	51,887	1,888	6,260	11,446	8,162	14,745
PERCENT CHANGE													
April 2001- May 2001	4	6	5	-18	10	9	1	2	-11	6	2	-9	14

NA Not available, but estimates are included in totals. ^PPreliminary. ^rRevised. ^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: 1998-2000—Seasonally Adjusted Annual Rate in 1996 Dollars**

[Millions of dollars]

Type of construction	1998											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	643,190	646,600	652,237	662,234	656,327	678,778	674,055	669,572	668,677	666,157	671,526	672,226
Private construction	503,141	507,975	513,607	522,741	518,626	532,008	526,256	524,579	520,241	518,957	523,839	522,120
Residential buildings	292,434	295,883	299,044	300,239	297,839	298,537	300,566	297,816	299,096	297,613	299,058	298,355
New housing units	198,474	201,642	204,226	206,659	205,966	209,570	214,133	214,861	218,307	220,035	222,277	223,482
1 unit	174,427	177,471	180,654	183,226	183,449	187,080	190,585	192,710	194,943	196,131	198,767	200,270
2 units or more	24,047	24,171	23,573	23,434	22,517	22,490	23,549	22,150	23,364	23,903	23,510	23,212
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	173,375	173,427	175,200	179,710	174,772	180,924	177,193	178,510	175,225	179,472	181,973	182,627
Industrial	37,763	38,319	39,904	39,506	37,693	37,813	37,019	39,809	36,769	37,001	36,910	35,104
Office	38,345	37,729	37,279	38,652	38,562	41,328	38,782	37,605	37,997	41,094	41,830	42,729
Hotels, motels	12,187	12,027	12,086	12,849	12,486	13,989	13,913	14,780	15,423	15,448	15,108	14,725
Other commercial	48,595	48,077	49,576	50,283	49,360	51,130	51,202	49,476	48,295	49,841	51,296	51,719
Religious	6,126	6,306	5,901	5,770	5,524	5,939	6,141	6,230	6,150	6,221	6,612	6,543
Educational	9,330	9,816	9,845	10,082	9,749	8,731	7,971	8,316	8,864	8,320	8,777	9,388
Hospital and institutional	12,656	12,769	12,793	13,389	12,861	13,028	13,012	12,903	12,886	12,391	12,497	13,068
Miscellaneous ¹	8,372	8,385	7,814	9,178	8,537	8,966	9,153	9,393	8,840	9,155	8,942	9,350
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	11,398	12,404	13,056	12,057	12,755	12,156	11,891	12,203	12,090	12,731	11,983	11,511
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	2,452	2,462	2,399	2,319	2,412	2,914	2,322	2,477	2,406	2,307	2,571	2,318
Public construction	140,049	138,625	138,630	139,493	137,701	146,770	147,799	144,993	148,436	147,199	147,687	150,106
Buildings	64,395	64,791	64,205	65,344	65,024	67,653	70,196	67,662	68,264	67,630	67,715	69,171
Housing and redevelopment	4,513	4,656	4,762	4,817	4,537	4,926	5,475	4,678	4,297	4,336	4,565	4,466
Industrial	911	1,009	1,127	961	924	824	966	989	913	735	1,078	887
Educational	31,447	31,497	30,382	31,993	32,043	33,322	33,821	32,240	32,919	32,235	32,563	34,170
Hospital	3,925	3,666	4,183	3,348	3,790	3,469	3,455	3,538	3,713	3,866	3,483	3,352
Other ³	23,599	23,964	23,751	24,225	23,730	25,112	26,479	26,217	26,422	26,459	26,027	26,297
Highways and streets	41,612	40,469	41,414	41,712	40,633	44,161	42,318	43,082	44,359	46,049	44,124	44,065
Military facilities	2,368	2,603	2,616	2,462	2,221	2,446	3,060	2,609	1,957	2,135	2,045	2,112
Conservation and development	4,770	5,802	5,225	4,628	4,815	5,451	5,151	5,059	5,853	4,829	5,404	5,319
Other public construction	26,904	24,959	25,169	25,348	25,008	27,060	27,074	26,580	28,003	26,555	28,397	29,438
Sewer systems	8,991	8,876	8,807	8,668	8,377	8,681	9,131	8,873	8,891	9,148	9,638	9,711
Water supply facilities	5,940	5,935	5,751	5,937	5,833	5,597	5,818	5,827	6,302	6,335	6,353	6,732
Miscellaneous public ⁴	11,972	10,148	10,611	10,744	10,798	12,782	12,126	11,881	12,810	11,072	12,407	12,995

See footnotes at end of table.

Table 5b. **Monthly Value of Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in 1996**
Dollars—Con.

[Millions of dollars]

Type of construction	1999											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	678,538	694,944	695,464	683,733	678,581	685,141	695,279	684,774	688,784	693,122	713,575	723,543
Private construction	525,720	537,026	539,911	529,521	528,474	536,614	545,065	535,781	539,258	542,648	556,749	562,585
Residential buildings	299,847	304,438	309,246	307,856	310,226	312,499	315,556	319,853	323,756	327,037	332,044	336,618
New housing units	224,534	226,699	229,168	226,699	226,134	225,687	225,396	226,560	227,228	227,208	230,887	235,750
1 unit	199,947	201,542	203,931	201,876	201,633	201,236	200,431	201,201	202,101	202,667	206,376	210,558
2 units or more	24,587	25,157	25,237	24,824	24,500	24,451	24,966	25,358	25,128	24,542	24,511	25,192
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	180,170	183,054	180,046	176,816	174,714	172,092	173,164	168,841	169,186	167,306	170,042	169,891
Industrial	34,325	33,369	32,086	30,457	29,363	29,200	30,179	28,266	27,458	25,653	25,775	26,204
Office	42,947	44,124	42,776	42,005	41,985	42,537	42,054	42,920	43,933	43,262	41,300	41,025
Hotels, motels	15,857	16,481	15,500	14,725	14,506	13,385	13,924	13,234	13,099	13,339	13,990	13,879
Other commercial	49,873	51,159	52,112	51,548	51,977	50,654	50,870	49,047	49,379	49,333	53,126	52,002
Religious	7,173	6,867	6,703	6,850	6,652	6,859	6,779	6,555	6,075	6,569	6,171	6,280
Educational	8,039	8,361	8,675	9,404	8,371	8,751	8,593	8,286	8,280	8,551	8,893	9,329
Hospital and institutional	12,301	12,804	12,462	12,293	12,265	11,859	11,874	11,824	12,050	12,021	11,842	11,685
Miscellaneous ¹	9,654	9,889	9,733	9,533	9,595	8,845	8,889	8,710	8,912	8,579	8,945	9,487
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	13,152	14,038	16,790	17,586	16,618	16,503	19,285	19,610	19,467	20,486	21,390	21,321
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	2,185	2,342	2,620	2,992	2,742	2,639	2,599	2,302	2,306	2,147	2,463	2,752
Public construction	152,818	157,918	155,553	154,213	150,107	148,527	150,214	148,993	149,525	150,475	156,825	160,957
Buildings	67,372	69,391	69,339	69,030	66,911	67,253	67,657	68,643	68,836	69,091	69,525	69,028
Housing and redevelopment	4,352	4,383	4,734	4,788	5,119	4,556	4,671	4,951	4,762	4,618	4,310	4,560
Industrial	769	853	911	810	924	744	906	759	898	569	801	887
Educational	33,871	34,206	34,106	35,408	34,134	35,152	34,273	34,975	35,399	35,436	35,955	34,821
Hospital	3,613	4,284	3,371	3,202	3,525	3,388	3,619	3,376	3,523	3,455	3,459	3,442
Other ³	24,767	25,665	26,217	24,823	23,209	23,414	24,188	24,582	24,255	25,013	25,000	25,317
Highways and streets	48,911	50,184	48,577	47,537	47,690	45,016	46,113	43,801	45,495	45,135	49,503	53,060
Military facilities	1,802	2,355	2,002	2,078	1,914	1,935	2,056	1,477	1,739	1,977	1,787	2,135
Conservation and development	5,474	5,969	5,794	5,315	4,677	5,327	5,124	5,821	5,747	5,232	6,170	6,569
Other public construction	29,260	30,019	29,841	30,252	28,915	28,997	29,264	29,250	27,708	29,038	29,840	30,165
Sewer systems	9,736	9,527	9,797	9,493	9,776	9,745	9,821	9,496	9,224	9,526	9,564	10,355
Water supply facilities	6,245	6,606	6,759	6,319	6,335	6,568	6,883	6,759	6,495	6,037	6,154	6,050
Miscellaneous public ⁴	13,279	13,885	13,286	14,441	12,804	12,683	12,560	12,995	11,989	13,475	14,122	13,761

See footnotes at end of table.

Table 5b. **Monthly Value of Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in 1996**
Dollars—Con.

[Millions of dollars]

Type of construction	2000											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	720,341	719,031	731,241	714,807	709,169	697,476	685,157	694,146	703,256	705,695	708,897	717,155
Private construction	554,433	564,728	568,450	558,658	558,056	551,061	542,810	544,485	551,028	554,513	558,316	564,809
Residential buildings	333,829	338,329	337,935	332,875	327,949	321,508	314,456	314,097	313,573	318,089	320,446	323,333
New housing units	235,170	237,413	239,546	238,023	235,435	230,908	224,755	223,168	221,476	221,185	222,547	224,486
1 unit	209,902	213,464	213,591	212,259	210,534	206,174	201,560	200,155	198,515	197,891	198,682	200,112
2 units or more	25,268	23,950	25,956	25,764	24,901	24,734	23,194	23,014	22,960	23,294	23,865	24,374
Improvements	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	170,379	176,588	177,930	176,776	180,204	179,588	180,508	181,503	181,841	182,656	182,030	183,809
Industrial	25,384	25,627	26,928	27,436	28,624	29,019	28,998	27,764	26,664	27,225	28,119	26,474
Office	41,121	42,139	44,881	45,954	47,148	46,765	47,615	48,903	50,451	49,993	51,185	53,216
Hotels, motels	15,014	14,078	14,771	14,617	14,260	13,921	14,021	13,584	13,826	13,562	13,408	13,203
Other commercial	52,274	56,745	53,042	51,937	51,919	52,239	51,526	52,492	52,650	53,193	50,748	52,378
Religious	6,672	6,962	7,119	6,852	6,721	7,261	7,443	6,807	6,851	6,920	6,477	6,571
Educational	9,157	9,627	9,682	9,235	10,045	9,056	9,259	10,071	9,744	10,271	10,231	10,161
Hospital and institutional	11,458	11,667	11,884	11,992	12,203	12,312	12,831	12,699	12,790	12,899	13,126	13,493
Miscellaneous ¹	9,298	9,743	9,624	8,753	9,284	9,014	8,816	9,183	8,865	8,593	8,736	8,314
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	18,215	14,948	16,966	15,758	16,581	17,339	16,228	15,221	20,479	17,281	18,869	22,051
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	2,166	2,630	2,594	2,370	2,376	2,461	2,407	2,793	2,890	2,738	2,775	2,482
Public construction	165,908	154,303	162,791	156,149	151,113	146,415	142,347	149,662	152,228	151,182	150,580	152,347
Buildings	70,518	71,503	71,173	69,969	70,052	69,076	67,529	69,832	69,925	72,237	71,636	72,715
Housing and redevelopment	4,194	3,923	4,514	4,675	4,472	4,515	4,431	4,609	4,539	4,740	4,773	4,751
Industrial	1,075	1,113	922	1,002	909	924	990	1,113	934	946	995	1,013
Educational	37,216	38,268	38,201	36,247	37,404	36,571	35,760	36,628	37,171	37,305	37,849	39,414
Hospital	3,514	3,284	3,302	3,715	3,656	3,543	3,411	3,451	3,435	3,224	3,509	3,072
Other ³	24,521	24,915	24,235	24,330	23,610	23,523	22,936	24,030	23,846	26,021	24,509	24,465
Highways and streets	58,724	44,071	51,962	49,285	45,172	42,077	42,893	45,576	46,486	41,786	41,759	42,933
Military facilities	1,626	2,719	2,166	1,989	2,013	1,953	1,885	2,046	2,146	1,606	2,235	1,788
Conservation and development	5,661	6,384	5,990	5,309	4,839	5,314	4,368	5,029	5,789	6,129	5,206	5,711
Other public construction	29,379	29,626	31,499	29,596	29,036	27,994	25,672	27,178	27,883	29,425	29,745	29,198
Sewer systems	9,645	9,541	9,676	10,911	9,576	9,880	9,017	8,779	8,664	8,725	8,841	9,017
Water supply facilities	6,855	6,852	6,343	6,240	6,220	5,754	5,248	6,266	6,272	6,103	6,083	6,054
Miscellaneous public ⁴	12,879	13,234	15,480	12,445	13,240	12,360	11,407	12,133	12,947	14,597	14,821	14,127

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 1999-May 2001—Not Seasonally Adjusted in 1996 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 2000	268,802	213,090	124,285	89,788	79,662	10,126	69,622	10,579	18,039	5,937	20,169	2,666	3,643	4,831	3,760	(NA)	6,310	901
May 2001	277,635	216,975	123,175	87,190	77,188	10,001	72,180	11,035	20,005	5,204	20,594	2,617	3,915	5,363	3,446	(NA)	(NA)	846
Percent change	3	2	-1	-3	-3	-1	4	4	11	-12	2	-2	7	11	-8	(NA)	(NA)	-6
MONTHLY DATA																		
1999: May ^f	58,064	45,569	27,342	19,388	17,256	2,132	14,684	2,403	3,611	1,217	4,353	539	718	1,033	810	(NA)	1,288	221
June ^f	62,469	48,590	29,085	20,361	18,178	2,182	14,929	2,548	3,619	1,158	4,449	561	845	991	757	(NA)	1,467	223
July ^f	63,996	49,602	29,650	20,927	18,774	2,153	14,905	2,512	3,536	1,201	4,523	560	851	966	755	(NA)	1,639	231
August ^f	65,329	49,943	30,409	21,212	18,980	2,232	15,050	2,461	3,709	1,136	4,561	595	827	1,012	748	(NA)	1,744	220
September ^f	65,420	49,965	30,520	21,028	18,846	2,182	15,148	2,437	3,848	1,127	4,625	568	737	1,035	772	(NA)	1,692	213
October ^f	63,501	49,401	30,274	20,591	18,460	2,131	14,769	2,298	3,702	1,107	4,551	602	708	1,044	757	(NA)	1,818	206
November ^f	61,241	48,113	28,877	20,068	18,023	2,045	14,603	2,242	3,535	1,167	4,600	564	707	1,023	765	(NA)	1,934	216
December ^f	54,164	42,535	24,117	17,619	15,616	2,003	13,729	2,275	3,326	1,147	4,056	514	680	965	764	(NA)	1,992	230
2000: January ^f	48,634	38,517	22,724	16,238	14,378	1,859	12,516	1,855	3,132	1,146	3,659	500	638	896	690	(NA)	1,158	157
February ^f	47,684	37,912	20,954	15,589	13,751	1,838	13,408	2,003	3,382	1,137	4,019	536	677	918	736	(NA)	1,096	177
March ^f	54,746	43,567	25,281	18,484	16,375	2,109	14,086	2,130	3,654	1,235	4,018	544	730	982	793	(NA)	1,463	194
April ^f	56,530	44,640	26,351	19,245	17,105	2,141	14,307	2,179	3,761	1,210	4,120	539	733	1,010	756	(NA)	1,186	182
May ^f	61,208	48,454	28,975	20,232	18,053	2,179	15,305	2,412	4,110	1,209	4,353	547	865	1,025	785	(NA)	1,407	191
June ^f	63,419	49,795	29,979	20,881	18,676	2,205	15,549	2,488	3,991	1,223	4,584	592	871	1,029	771	(NA)	1,556	208
July ^f	62,592	49,051	29,558	20,887	18,896	1,991	15,439	2,383	3,968	1,189	4,581	613	913	1,044	748	(NA)	1,294	213
August ^f	66,447	50,821	29,897	20,940	18,898	2,042	16,275	2,432	4,263	1,186	4,882	630	1,006	1,086	790	(NA)	1,408	268
September ^f	66,442	50,886	29,520	20,472	18,495	1,977	16,189	2,375	4,381	1,157	4,927	614	868	1,100	767	(NA)	1,766	266
October ^f	64,772	50,608	29,442	20,035	18,008	2,027	16,235	2,466	4,324	1,156	4,898	659	852	1,121	758	(NA)	1,570	263
November ^f	60,882	48,236	27,935	19,377	17,368	2,009	15,598	2,409	4,376	1,122	4,402	596	813	1,134	745	(NA)	1,679	243
December ^f	53,543	42,602	23,091	16,724	14,808	1,915	14,748	2,288	4,253	1,058	4,094	527	742	1,114	671	(NA)	1,913	209
2001: January ^f	50,727	40,273	22,256	15,749	13,901	1,848	14,053	2,285	3,974	1,041	3,822	520	727	1,056	628	(NA)	1,603	170
February ^f	48,929	38,639	20,732	15,190	13,322	1,867	13,775	2,077	3,835	1,041	3,910	505	712	1,033	662	(NA)	1,532	172
March ^f	55,170	43,912	24,706	17,657	15,667	1,989	14,869	2,283	4,170	1,061	4,226	520	778	1,094	736	(NA)	1,696	166
April ^f	58,771	45,399	26,113	18,582	16,524	2,058	14,678	2,199	4,070	1,028	4,267	530	820	1,065	700	(NA)	1,711	164
May ^p	64,038	48,752	29,368	20,012	17,774	2,239	14,805	2,191	3,956	1,033	4,369	542	878	1,115	720	(NA)	(NA)	174
PERCENT CHANGE																		
April 2001- May 2001	9	7	12	8	8	9	1	(Z)	-3	(Z)	2	2	7	5	3	(NA)	(NA)	6

See footnotes at end of table.

Table 6a. **Monthly Value of Construction Put in Place: May 1999-May 2001—Not Seasonally Adjusted in 1996 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 2000	55,713	26,804	1,726	398	13,732	1,402	9,545	15,013	822	2,096	3,696	2,440	4,842
May 2001	60,660	29,544	2,116	482	15,188	1,344	10,410	15,818	761	2,437	3,998	2,975	5,128
Percent change	9	10	23	21	11	-4	9	5	-7	16	8	22	6
MONTHLY DATA													
1999: May ^f	12,495	5,512	425	75	2,748	287	1,979	3,990	163	387	819	548	1,076
June ^f	13,879	6,127	392	65	3,313	308	2,049	4,539	168	460	884	571	1,130
July ^f	14,393	6,269	393	80	3,421	303	2,073	4,830	176	452	871	626	1,168
August ^f	15,386	6,625	417	62	3,689	283	2,174	5,289	127	543	895	616	1,290
September ^f	15,455	6,459	442	99	3,366	327	2,225	5,384	186	713	890	594	1,229
October ^f	14,101	6,002	413	40	3,065	296	2,188	4,837	135	380	899	588	1,260
November ^f	13,128	5,695	375	63	2,822	291	2,143	4,175	153	511	843	546	1,205
December ^f	11,628	5,348	377	77	2,577	285	2,033	3,316	186	505	784	465	1,025
2000: January ^f	10,117	5,047	314	80	2,593	265	1,795	2,613	123	389	659	463	824
February ^f	9,772	5,090	299	83	2,609	259	1,840	2,090	186	435	648	470	854
March ^f	11,180	5,324	357	80	2,728	267	1,892	2,957	186	453	722	457	1,080
April ^f	11,890	5,540	376	78	2,788	296	2,001	3,446	156	419	845	509	975
May ^f	12,754	5,803	380	77	3,014	315	2,017	3,907	171	400	822	541	1,109
June ^f	13,623	6,280	390	84	3,438	308	2,060	4,218	169	458	897	501	1,101
July ^f	13,541	6,262	368	83	3,567	285	1,958	4,404	161	387	791	477	1,060
August ^f	15,626	6,778	394	93	3,870	291	2,130	5,591	177	468	837	573	1,203
September ^f	15,556	6,555	413	106	3,532	318	2,186	5,326	230	718	827	573	1,327
October ^f	14,164	6,275	427	64	3,218	285	2,282	4,516	110	451	833	592	1,386
November ^f	12,645	5,863	417	79	2,978	288	2,102	3,574	192	431	779	539	1,268
December ^f	10,940	5,573	385	84	2,904	249	1,952	2,587	155	440	664	466	1,056
2001: January ^f	10,454	5,364	410	104	2,742	260	1,847	2,346	145	459	705	474	961
February ^f	10,289	5,197	367	86	2,637	247	1,859	2,326	136	483	678	502	968
March ^f	11,259	5,508	384	95	2,780	256	1,992	2,840	153	510	741	558	949
April ^f	13,372	6,380	454	108	3,235	271	2,311	3,731	167	465	886	728	1,015
May ^p	15,286	7,095	501	89	3,794	310	2,401	4,575	160	520	988	713	1,235
PERCENT CHANGE													
April 2001-													
May 2001-	14	11	10	-18	17	14	4	23	-4	12	12	-2	22

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

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

Table 6b. Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996 Dollars

[Millions of dollars]

Type of construction	1998												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	664,244	43,840	42,101	48,261	52,518	56,246	61,988	62,423	63,799	63,736	61,313	57,405	50,614
Private construction	519,859	35,111	33,502	38,862	41,808	44,792	48,270	48,106	48,914	48,403	47,330	45,058	39,703
Residential buildings	297,960	19,816	18,151	22,133	23,747	26,290	27,790	28,284	28,400	28,243	27,559	26,020	21,526
New housing units	212,068	13,630	13,141	15,638	16,705	17,600	18,849	19,914	20,202	20,299	20,028	19,366	16,697
1 unit	188,785	11,861	11,358	13,745	14,734	15,639	16,853	17,867	18,243	18,276	17,946	17,409	14,853
2 units or more	23,283	1,769	1,783	1,894	1,970	1,961	1,996	2,047	1,958	2,023	2,082	1,957	1,843
Improvements	85,892	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	177,644	12,798	12,875	13,842	14,637	14,691	15,704	15,273	15,760	15,741	15,933	15,514	14,876
Industrial	37,720	2,798	2,836	3,176	3,151	3,135	3,268	3,107	3,374	3,343	3,305	3,144	3,086
Office	39,333	2,956	2,918	3,007	3,227	3,326	3,506	3,287	3,228	3,328	3,538	3,556	3,457
Hotels, motels	13,794	945	935	1,005	1,089	1,030	1,231	1,195	1,260	1,303	1,325	1,241	1,234
Other commercial	49,915	3,390	3,401	3,751	3,985	4,126	4,504	4,553	4,597	4,536	4,606	4,437	4,030
Religious	6,139	457	462	459	465	435	490	504	560	568	590	592	556
Educational	9,039	646	690	742	800	835	847	794	829	787	686	698	683
Hospital and institutional	12,853	987	1,006	1,056	1,125	1,085	1,089	1,058	1,106	1,107	1,075	1,080	1,079
Miscellaneous ¹	8,850	620	628	645	795	720	769	776	805	768	808	767	750
Farm nonresidential	3,989	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	37,818	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	12,188	780	859	1,067	978	1,012	1,083	1,046	1,035	1,066	1,171	1,028	1,063
Railroads	5,463	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	11,883	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	7,072	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,213	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,447	179	166	179	177	195	247	207	234	222	221	226	193
Public construction	144,385	8,730	8,599	9,399	10,710	11,454	13,718	14,317	14,885	15,333	13,983	12,347	10,911
Buildings	66,920	4,619	4,581	4,800	5,179	5,361	6,155	6,506	6,491	6,429	5,901	5,552	5,346
Housing and redevelopment	4,663	345	341	371	396	376	426	465	388	404	392	390	368
Industrial	941	71	74	90	79	76	73	87	82	100	53	84	73
Educational	32,431	2,172	2,126	2,165	2,434	2,574	3,143	3,379	3,406	3,136	2,799	2,564	2,532
Hospital	3,641	295	275	339	272	310	311	299	289	369	320	283	278
Other ³	25,245	1,735	1,764	1,836	1,997	2,025	2,202	2,277	2,326	2,420	2,336	2,231	2,096
Highways and streets	43,085	1,824	1,801	2,192	2,951	3,396	4,464	4,616	5,152	5,190	5,046	3,710	2,743
Military facilities	2,377	178	178	225	194	189	212	262	225	210	146	175	184
Conservation and development	5,223	322	397	390	367	399	473	456	475	730	360	446	410
Other public construction	26,779	1,786	1,642	1,793	2,020	2,108	2,415	2,477	2,542	2,774	2,530	2,463	2,228
Sewer systems	8,976	613	579	653	688	699	789	819	826	859	875	841	736
Water supply facilities	6,035	405	408	412	483	503	486	530	530	575	619	566	518
Miscellaneous public ⁴	11,767	768	656	728	849	907	1,140	1,128	1,186	1,339	1,036	1,056	975

See footnotes at end of table.

**Table 6b. Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996
Dollars—Con.**

[Millions of dollars]

Type of construction	1999												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	692,281	46,072	45,623	51,962	54,439	58,064	62,469	63,996	65,329	65,420	63,501	61,241	54,164
Private construction	540,159	36,659	35,886	41,331	42,565	45,569	48,590	49,602	49,943	49,965	49,401	48,113	42,535
Residential buildings	317,232	20,401	18,944	23,157	24,457	27,342	29,085	29,650	30,409	30,520	30,274	28,877	24,117
New housing units	227,461	15,449	14,811	17,645	18,364	19,388	20,361	20,927	21,212	21,028	20,591	20,068	17,619
1 unit	202,615	13,646	12,949	15,601	16,285	17,256	18,178	18,774	18,980	18,846	18,460	18,023	15,616
2 units or more	24,847	1,803	1,862	2,044	2,079	2,132	2,182	2,153	2,232	2,182	2,131	2,045	2,003
Improvements	89,771	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	173,418	13,257	13,631	14,282	14,431	14,684	14,929	14,905	15,050	15,148	14,769	14,603	13,729
Industrial	29,204	2,551	2,469	2,559	2,447	2,403	2,548	2,512	2,461	2,437	2,298	2,242	2,275
Office	42,549	3,275	3,412	3,479	3,497	3,611	3,619	3,536	3,709	3,848	3,702	3,535	3,326
Hotels, motels	14,273	1,188	1,281	1,296	1,248	1,217	1,158	1,201	1,136	1,127	1,107	1,167	1,147
Other commercial	50,867	3,487	3,624	3,943	4,094	4,353	4,449	4,523	4,561	4,625	4,551	4,600	4,056
Religious	6,590	520	505	519	542	539	561	560	595	568	602	564	514
Educational	8,621	559	588	654	746	718	845	851	827	737	708	707	680
Hospital and institutional	12,101	962	1,007	1,029	1,034	1,033	991	966	1,012	1,035	1,044	1,023	965
Miscellaneous ¹	9,214	716	744	802	825	810	757	755	748	772	757	765	764
Farm nonresidential	4,474	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	42,534	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	18,305	863	976	1,429	1,464	1,288	1,467	1,639	1,744	1,692	1,818	1,934	1,992
Railroads	4,311	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	13,892	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	4,625	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	1,401	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,501	159	158	196	229	221	223	231	220	213	206	216	230
Public construction	152,121	9,413	9,737	10,632	11,874	12,495	13,879	14,393	15,386	15,455	14,101	13,128	11,628
Buildings	68,474	4,826	4,919	5,203	5,487	5,512	6,127	6,269	6,625	6,459	6,002	5,695	5,348
Housing and redevelopment	4,653	328	322	374	395	425	392	393	417	442	413	375	377
Industrial	827	58	63	77	68	75	65	80	62	99	40	63	77
Educational	34,821	2,351	2,323	2,433	2,712	2,748	3,313	3,421	3,689	3,366	3,065	2,822	2,577
Hospital	3,516	274	321	283	259	287	308	303	283	327	296	291	285
Other ³	24,657	1,814	1,891	2,037	2,053	1,979	2,049	2,073	2,174	2,225	2,188	2,143	2,033
Highways and streets	46,858	2,140	2,275	2,684	3,399	3,990	4,539	4,830	5,289	5,384	4,837	4,175	3,316
Military facilities	1,926	136	161	172	163	163	168	176	127	186	135	153	186
Conservation and development	5,594	374	408	439	420	387	460	452	543	713	380	511	505
Other public construction	29,269	1,938	1,974	2,134	2,404	2,443	2,585	2,665	2,801	2,713	2,746	2,594	2,273
Sewer systems	9,653	661	622	733	754	819	884	871	895	890	899	843	784
Water supply facilities	6,431	423	454	485	515	548	571	626	616	594	588	546	465
Miscellaneous public ⁴	13,185	853	899	916	1,135	1,076	1,130	1,168	1,290	1,229	1,260	1,205	1,025

See footnotes at end of table.

Table 6b. **Annual and Monthly Value of Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996 Dollars—Con.**

[Millions of dollars]

Type of construction	2000												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total construction	706,899	48,634	47,684	54,746	56,530	61,208	63,419	62,592	66,447	66,442	64,772	60,882	53,543
Private construction	555,089	38,517	37,912	43,567	44,640	48,454	49,795	49,051	50,821	50,886	50,608	48,236	42,602
Residential buildings	323,708	22,724	20,954	25,281	26,351	28,975	29,979	29,558	29,897	29,520	29,442	27,935	23,091
New housing units	229,103	16,238	15,589	18,484	19,245	20,232	20,881	20,887	20,940	20,472	20,035	19,377	16,724
1 unit	204,812	14,378	13,751	16,375	17,105	18,053	18,676	18,896	18,898	18,495	18,008	17,368	14,808
2 units or more	24,292	1,859	1,838	2,109	2,141	2,179	2,205	1,991	2,042	1,977	2,027	2,009	1,915
Improvements	94,605	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonresidential buildings	179,654	12,516	13,408	14,086	14,307	15,305	15,549	15,439	16,275	16,189	16,235	15,598	14,748
Industrial	27,419	1,855	2,003	2,130	2,179	2,412	2,488	2,383	2,432	2,375	2,466	2,409	2,288
Office	47,594	3,132	3,382	3,654	3,761	4,110	3,991	3,968	4,263	4,381	4,324	4,376	4,253
Hotels, motels	14,027	1,146	1,137	1,235	1,210	1,209	1,223	1,189	1,186	1,157	1,156	1,122	1,058
Other commercial	52,539	3,659	4,019	4,018	4,120	4,353	4,584	4,581	4,882	4,927	4,898	4,402	4,094
Religious	6,898	500	536	544	539	547	592	613	630	614	659	596	527
Educational	9,707	638	677	730	733	865	871	913	1,006	868	852	813	742
Hospital and institutional	12,459	896	918	982	1,010	1,025	1,029	1,044	1,086	1,100	1,121	1,134	1,114
Miscellaneous ¹	9,010	690	736	793	756	785	771	748	790	767	758	745	671
Farm nonresidential	4,407	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public utilities	44,749	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Telecommunications	17,497	1,158	1,096	1,463	1,186	1,407	1,556	1,294	1,408	1,766	1,570	1,679	1,913
Railroads	3,750	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electric light and power	19,251	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gas	3,354	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum pipelines	897	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
All other private ²	2,570	157	177	194	182	191	208	213	268	266	263	243	209
Public construction	151,810	10,117	9,772	11,180	11,890	12,754	13,623	13,541	15,626	15,556	14,164	12,645	10,940
Buildings	70,390	5,047	5,090	5,324	5,540	5,803	6,280	6,262	6,778	6,555	6,275	5,863	5,573
Housing and redevelopment	4,521	314	299	357	376	380	390	368	394	413	427	417	385
Industrial	991	80	83	80	78	77	84	83	93	106	64	79	84
Educational	37,237	2,593	2,609	2,728	2,788	3,014	3,438	3,567	3,870	3,532	3,218	2,978	2,904
Hospital	3,427	265	259	267	296	315	308	285	291	318	285	288	249
Other ³	24,214	1,795	1,840	1,892	2,001	2,017	2,060	1,958	2,130	2,186	2,282	2,102	1,952
Highways and streets	45,230	2,613	2,090	2,957	3,446	3,907	4,218	4,404	5,591	5,326	4,516	3,574	2,587
Military facilities	2,016	123	186	186	156	171	169	161	177	230	110	192	155
Conservation and development	5,449	389	435	453	419	400	458	387	468	718	451	431	440
Other public construction	28,725	1,945	1,972	2,259	2,328	2,472	2,498	2,328	2,612	2,727	2,812	2,586	2,185
Sewer systems	9,324	659	648	722	845	822	897	791	837	827	833	779	664
Water supply facilities	6,160	463	470	457	509	541	501	477	573	573	592	539	466
Miscellaneous public ⁴	13,241	824	854	1,080	975	1,109	1,101	1,060	1,203	1,327	1,386	1,268	1,056

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 1999-May 2001—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					
1999:	May ^f	12,657	5,704	434	3,055	251	1,964	4,332	143	875	581	1,022
	June ^f	14,132	6,397	394	3,706	274	2,023	4,968	157	953	606	1,052
	July ^f	14,669	6,544	397	3,833	254	2,061	5,273	154	937	664	1,097
	August ^f	15,849	7,025	429	4,143	273	2,181	5,788	190	967	656	1,224
	September ^f	15,497	6,663	446	3,782	294	2,140	5,888	189	960	632	1,165
	October ^f	14,705	6,356	429	3,464	285	2,178	5,332	179	971	627	1,239
	November ^f	13,428	6,011	382	3,206	288	2,134	4,629	216	913	584	1,076
	December ^f	11,811	5,615	391	2,937	256	2,031	3,691	193	850	499	963
2000:	January ^f	10,486	5,432	336	2,992	247	1,857	2,911	146	720	500	777
	February ^f	10,035	5,490	315	3,015	245	1,915	2,336	172	713	512	813
	March ^f	11,426	5,719	377	3,151	265	1,927	3,302	151	794	498	962
	April ^f	12,516	6,011	402	3,230	275	2,104	3,908	148	930	564	955
	May ^f	13,543	6,351	406	3,508	325	2,113	4,465	149	903	607	1,068
	June ^f	14,430	6,875	418	4,006	298	2,154	4,825	146	981	565	1,038
	July ^f	14,610	6,952	395	4,179	290	2,088	5,064	150	873	542	1,030
	August ^f	16,832	7,504	426	4,545	288	2,246	6,436	150	927	652	1,163
	September ^f	16,371	7,159	446	4,152	303	2,257	6,144	195	918	654	1,302
	October ^f	15,518	6,982	466	3,797	296	2,424	5,238	232	927	679	1,460
	November ^f	13,623	6,534	453	3,517	289	2,275	4,155	180	867	619	1,268
	December ^f	11,663	6,193	406	3,440	253	2,095	3,006	167	737	535	1,025
2001:	January ^f	11,111	5,966	448	3,256	267	1,995	2,723	173	782	543	924
	February ^f	10,976	5,827	403	3,141	258	2,026	2,705	186	753	576	930
	March ^f	12,150	6,180	422	3,332	258	2,169	3,379	197	825	640	928
	April ^f	14,760	7,277	516	3,885	291	2,586	4,446	212	987	836	1,003
	May ^p	17,049	8,173	561	4,573	327	2,712	5,477	206	1,106	822	1,265
		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
1999:	May ^f	1,032	420	32	83	1	67	237	(NA)	179	271	140
	June ^f	1,183	453	39	73	1	71	270	(NA)	186	339	180
	July ^f	1,205	479	39	89	3	86	263	(NA)	195	333	172
	August ^f	1,167	416	34	70	4	46	263	(NA)	142	397	182
	September ^f	1,581	592	46	112	1	73	360	(NA)	207	580	173
	October ^f	969	421	32	45	-	49	295	(NA)	151	232	139
	November ^f	1,234	453	38	72	-	43	301	(NA)	172	338	248
	December ^f	1,224	476	33	88	1	68	287	(NA)	210	355	167
2000:	January ^f	955	390	25	93	-	59	214	(NA)	139	279	134
	February ^f	1,060	392	27	96	-	55	213	(NA)	212	307	137
	March ^f	1,241	426	32	92	-	44	259	(NA)	212	348	238
	April ^f	1,065	414	29	91	7	69	218	(NA)	180	314	137
	May ^f	1,090	397	30	89	1	43	235	(NA)	198	291	179
	June ^f	1,221	442	32	98	3	62	249	(NA)	196	355	197
	July ^f	1,045	382	32	98	1	45	207	(NA)	188	277	167
	August ^f	1,265	454	31	109	2	55	256	(NA)	206	368	200
	September ^f	1,661	550	34	125	5	71	316	(NA)	269	602	205
	October ^f	968	416	31	76	-	40	269	(NA)	129	270	120
	November ^f	1,125	396	35	93	5	52	211	(NA)	225	299	179
	December ^f	1,112	412	46	99	4	43	220	(NA)	183	321	178
2001:	January ^f	1,095	403	36	124	2	42	200	(NA)	171	336	169
	February ^f	1,063	365	33	103	2	37	190	(NA)	161	350	173
	March ^f	1,165	426	36	114	5	49	222	(NA)	184	371	168
	April ^f	1,084	387	26	130	4	36	193	(NA)	200	306	170
	May ^p	1,141	378	36	108	2	47	184	(NA)	192	376	169

- Less than \$0.5 million. NA Not available, but estimates are included in totals. ^pPreliminary. ^fRevised.

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

Table 7b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars**

[Millions of dollars]

Type of construction	1998												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	139,023	8,180	7,997	8,739	10,191	10,991	13,322	13,844	14,641	14,572	14,057	11,989	10,500
Total buildings	65,750	4,453	4,394	4,573	5,009	5,229	6,102	6,406	6,490	6,251	5,954	5,551	5,337
Housing and redevelopment	4,384	321	306	354	375	351	405	431	354	372	384	370	361
Educational	34,813	2,298	2,249	2,292	2,586	2,745	3,371	3,631	3,673	3,387	3,034	2,787	2,761
Hospital	2,897	240	226	255	227	241	253	226	225	251	257	244	253
Other ¹	23,656	1,593	1,614	1,672	1,821	1,892	2,074	2,119	2,239	2,241	2,279	2,151	1,962
Highways and streets	45,308	1,912	1,878	2,284	3,066	3,532	4,657	4,833	5,435	5,502	5,360	3,937	2,914
Conservation and development	1,915	145	132	145	136	161	200	164	183	177	185	152	136
Other state and local construction	26,050	1,670	1,593	1,737	1,979	2,069	2,363	2,441	2,533	2,642	2,559	2,349	2,113
Sewer systems	9,367	637	599	675	712	727	824	856	867	906	918	878	767
Water supply facilities	6,290	418	421	426	499	520	504	550	553	602	651	598	550
Miscellaneous nonbuilding ²	10,393	616	572	636	768	823	1,036	1,036	1,114	1,135	990	873	796
Federal construction	14,318	1,006	1,035	1,134	1,069	1,081	1,197	1,347	1,233	1,823	921	1,243	1,230
Total buildings	6,026	429	447	504	488	483	494	580	506	690	435	478	491
Housing	538	40	50	32	39	42	44	61	57	57	34	48	36
Industrial	1,010	76	79	95	84	81	78	93	88	108	58	91	79
Educational	15	-	1	-	1	1	2	2	3	3	-	1	1
Hospital	1,009	71	66	105	63	90	82	95	87	148	90	64	50
Other federal buildings ³	3,454	243	253	272	301	269	289	329	271	375	253	275	325
Highways and streets	257	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,530	188	187	237	204	199	225	279	241	225	157	189	198
Conservation and development	3,536	190	279	258	244	254	294	312	316	592	193	313	292
Miscellaneous nonbuilding ⁴	1,969	188	111	122	115	123	158	148	139	285	107	241	233

See footnotes at end of table.

Table 7b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars—Con.**

[Millions of dollars]

Type of construction	1999												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	153,505	9,177	9,400	10,398	11,783	12,657	14,132	14,669	15,849	15,497	14,705	13,428	11,811
Total buildings	71,073	4,894	4,941	5,278	5,646	5,704	6,397	6,544	7,025	6,663	6,356	6,011	5,615
Housing and redevelopment	4,714	329	323	370	390	434	394	397	429	446	429	382	391
Educational	38,950	2,579	2,555	2,688	3,004	3,055	3,706	3,833	4,143	3,782	3,464	3,206	2,937
Hospital	3,081	219	230	230	226	251	274	254	273	294	285	288	256
Other ¹	24,327	1,767	1,833	1,990	2,026	1,964	2,023	2,061	2,181	2,140	2,178	2,134	2,031
Highways and streets	51,123	2,277	2,421	2,869	3,656	4,332	4,968	5,273	5,788	5,888	5,332	4,629	3,691
Conservation and development	1,988	149	134	131	154	143	157	154	190	189	179	216	193
Other state and local construction	29,322	1,858	1,905	2,121	2,327	2,478	2,610	2,698	2,846	2,758	2,838	2,573	2,312
Sewer systems	10,343	692	652	773	799	875	953	937	967	960	971	913	850
Water supply facilities	6,844	449	482	518	546	581	606	664	656	632	627	584	499
Miscellaneous nonbuilding ²	12,135	716	770	830	982	1,022	1,052	1,097	1,224	1,165	1,239	1,076	963
Federal construction	14,002	988	1,127	1,142	1,150	1,032	1,183	1,205	1,167	1,581	969	1,234	1,224
Total buildings	5,470	400	466	465	428	420	453	479	416	592	421	453	476
Housing	424	27	26	37	42	32	39	39	34	46	32	38	33
Industrial	925	64	69	85	76	83	73	89	70	112	45	72	88
Educational	15	3	1	1	1	1	1	3	4	1	-	-	1
Hospital	850	82	123	82	60	67	71	86	46	73	49	43	68
Other federal buildings ³	3,255	225	247	260	248	237	270	263	263	360	295	301	287
Highways and streets	251	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,130	147	175	188	179	179	186	195	142	207	151	172	210
Conservation and development	4,005	243	294	332	292	271	339	333	397	580	232	338	355
Miscellaneous nonbuilding ⁴	2,145	187	181	144	233	140	180	172	182	173	139	248	167

See footnotes at end of table.

Table 7b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in Current Dollars—Con.**

[Millions of dollars]

Type of construction	2000												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	161,053	10,486	10,035	11,426	12,516	13,543	14,430	14,610	16,832	16,371	15,518	13,623	11,663
Total buildings	77,203	5,432	5,490	5,719	6,011	6,351	6,875	6,952	7,504	7,159	6,982	6,534	6,193
Housing and redevelopment	4,846	336	315	377	402	406	418	395	426	446	466	453	406
Educational	43,531	2,992	3,015	3,151	3,230	3,508	4,006	4,179	4,545	4,152	3,797	3,517	3,440
Hospital	3,372	247	245	265	275	325	298	290	288	303	296	289	253
Other ¹	25,454	1,857	1,915	1,927	2,104	2,113	2,154	2,088	2,246	2,257	2,424	2,275	2,095
Highways and streets	51,790	2,911	2,336	3,302	3,908	4,465	4,825	5,064	6,436	6,144	5,238	4,155	3,006
Conservation and development	1,985	146	172	151	148	149	146	150	150	195	232	180	167
Other state and local construction	30,074	1,997	2,038	2,254	2,449	2,578	2,583	2,444	2,742	2,873	3,066	2,754	2,297
Sewer systems	10,287	720	713	794	930	903	981	873	927	918	927	867	737
Water supply facilities	6,928	500	512	498	564	607	565	542	652	654	679	619	535
Miscellaneous nonbuilding ²	12,859	777	813	962	955	1,068	1,038	1,030	1,163	1,302	1,460	1,268	1,025
Federal construction	13,807	955	1,060	1,241	1,065	1,090	1,221	1,045	1,265	1,661	968	1,125	1,112
Total buildings	5,072	390	392	426	414	397	442	382	454	550	416	396	412
Housing	382	25	27	32	29	30	32	32	31	34	31	35	46
Industrial	1,159	93	96	92	91	89	98	98	109	125	76	93	99
Educational	29	-	-	-	7	1	3	1	2	5	-	5	4
Hospital	634	59	55	44	69	43	62	45	55	71	40	52	43
Other federal buildings ³	2,867	214	213	259	218	235	249	207	256	316	269	211	220
Highways and streets	298	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,337	139	212	212	180	198	196	188	206	269	129	225	183
Conservation and development	4,029	279	307	348	314	291	355	277	368	602	270	299	321
Miscellaneous nonbuilding ⁴	2,071	134	137	238	137	179	197	167	200	205	120	179	178

- 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 1999-May 2001—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					
1999:	May ^f	151,891	69,133	5,220	37,948	3,087	22,879	51,779	1,696	10,450	6,716	12,117
	June ^f	150,191	70,005	4,581	39,322	2,986	23,115	49,269	1,748	10,506	6,969	11,694
	July ^f	151,810	70,337	4,743	38,390	3,079	24,125	50,338	1,633	10,568	7,296	11,639
	August ^f	151,402	71,990	5,084	39,265	3,231	24,409	47,933	1,882	10,256	7,191	12,151
	September ^f	152,260	71,959	4,879	39,780	3,296	24,004	49,754	1,908	9,952	6,910	11,777
	October ^f	152,739	72,008	4,700	40,042	3,200	24,066	49,758	1,800	10,298	6,442	12,433
	November ^f	159,949	73,179	4,346	40,843	3,389	24,601	54,886	2,494	10,358	6,585	12,448
	December ^f	165,580	73,143	4,748	39,689	3,138	25,568	59,050	2,611	11,235	6,497	13,044
2000:	January ^f	174,229	76,136	4,481	42,946	3,270	25,438	65,420	2,336	10,532	7,410	12,394
	February ^f	160,106	77,390	4,132	44,234	3,063	25,961	49,261	2,700	10,495	7,468	12,791
	March ^f	169,233	77,221	4,796	44,120	3,310	24,995	58,020	2,226	10,643	6,914	14,209
	April ^f	164,802	75,862	4,982	41,990	3,434	25,456	55,899	1,891	12,013	6,920	12,216
	May ^f	160,332	76,751	4,780	43,526	3,750	24,694	51,614	1,774	10,515	6,979	12,699
	June ^f	154,205	75,610	4,863	42,614	3,452	24,682	48,132	1,625	10,809	6,491	11,538
	July ^f	152,295	74,536	4,755	41,897	3,464	24,420	49,326	1,589	9,945	5,961	10,938
	August ^f	158,889	76,544	4,967	43,011	3,399	25,168	52,467	1,490	9,719	7,137	11,533
	September ^f	162,936	77,393	4,976	43,708	3,422	25,286	53,618	1,972	9,617	7,156	13,181
	October ^f	161,188	79,062	5,070	44,017	3,220	26,755	48,459	2,328	9,703	7,000	14,637
	November ^f	161,829	79,674	5,136	44,711	3,499	26,327	48,554	2,081	9,831	6,989	14,700
	December ^f	164,146	81,197	5,025	46,693	3,128	26,351	49,890	2,260	10,009	6,950	13,840
2001:	January ^f	178,584	83,775	5,899	47,126	3,335	27,416	58,138	2,723	11,333	8,060	14,554
	February ^f	179,397	83,567	5,503	47,058	3,411	27,596	58,491	2,898	11,521	8,416	14,505
	March ^f	180,699	84,131	5,423	47,144	3,365	28,199	59,988	2,894	11,237	8,832	13,617
	April ^f	191,588	92,404	6,308	51,282	3,600	31,214	60,829	2,708	12,545	10,287	12,814
	May ^p	200,325	98,452	6,502	56,452	3,846	31,653	62,126	2,455	12,808	9,411	15,073
		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
1999:	May ^f	12,575	5,200	401	1,028	9	833	2,929	(NA)	2,109	3,304	1,710
	June ^f	13,690	5,183	448	832	13	806	3,085	(NA)	2,147	3,994	2,118
	July ^f	13,861	5,451	438	1,016	30	978	2,989	(NA)	2,280	3,881	2,001
	August ^f	13,407	5,096	411	853	47	563	3,222	(NA)	1,643	4,405	2,014
	September ^f	13,101	5,351	411	1,009	8	664	3,258	(NA)	1,932	4,293	1,280
	October ^f	14,625	5,996	449	643	1	704	4,199	(NA)	2,213	3,856	2,308
	November ^f	15,264	5,732	481	910	1	540	3,800	(NA)	2,010	4,188	3,072
	December ^f	14,794	5,476	378	1,011	7	785	3,294	(NA)	2,410	4,516	2,120
2000:	January ^f	13,049	5,213	329	1,240	1	784	2,858	(NA)	1,849	3,846	1,850
	February ^f	14,849	5,228	363	1,287	4	734	2,840	(NA)	3,100	4,322	1,925
	March ^f	15,041	4,939	372	1,064	2	504	2,997	(NA)	2,467	4,364	2,989
	April ^f	13,549	5,297	371	1,163	93	879	2,791	(NA)	2,289	3,954	1,723
	May ^f	13,062	4,723	359	1,059	12	505	2,789	(NA)	2,329	3,539	2,182
	June ^f	13,957	4,878	347	1,078	28	679	2,746	(NA)	2,262	4,189	2,329
	July ^f	12,225	4,546	376	1,161	14	535	2,461	(NA)	2,196	3,229	1,952
	August ^f	14,422	5,435	375	1,308	28	656	3,068	(NA)	2,386	4,078	2,214
	September ^f	13,623	4,840	298	1,099	42	621	2,780	(NA)	2,509	4,454	1,514
	October ^f	14,781	6,101	447	1,116	3	585	3,949	(NA)	1,883	4,487	2,004
	November ^f	13,850	5,000	440	1,177	64	652	2,667	(NA)	2,629	3,708	2,211
	December ^f	13,737	4,986	553	1,201	52	515	2,665	(NA)	2,107	4,080	2,265
2001:	January ^f	14,756	5,184	466	1,587	27	536	2,568	(NA)	2,270	4,641	2,341
	February ^f	14,949	4,946	440	1,392	31	505	2,577	(NA)	2,342	4,928	2,430
	March ^f	14,236	5,034	420	1,351	58	583	2,622	(NA)	2,131	4,663	2,107
	April ^f	13,601	4,784	320	1,603	43	439	2,379	(NA)	2,534	3,856	2,139
	May ^p	13,793	4,630	444	1,323	29	574	2,260	(NA)	2,273	4,550	2,046

NA Not available, but estimates are included in totals. ^PPreliminary. ^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 8b. **Monthly Value of Public Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars**

[Millions of dollars]

Type of construction	1998											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	133,939	131,022	131,488	133,345	132,061	141,588	141,531	140,451	143,640	144,181	142,828	146,092
Total buildings	62,584	62,410	61,583	63,448	63,398	66,908	68,912	66,802	67,394	67,212	67,371	69,421
Housing and redevelopment	4,205	4,179	4,557	4,560	4,230	4,697	5,113	4,264	4,037	4,150	4,272	4,378
Educational	33,269	33,313	32,171	33,992	34,173	35,734	36,339	34,756	35,559	34,940	35,388	37,265
Hospital	3,241	2,991	3,116	2,798	2,952	2,799	2,653	2,770	2,665	2,940	2,963	3,046
Other ¹	21,869	21,928	21,739	22,097	22,044	23,678	24,807	25,011	25,133	25,181	24,748	24,732
Highways and streets	43,608	42,204	43,157	43,334	42,251	46,068	44,305	45,451	47,022	48,916	46,819	46,805
Conservation and development	2,342	2,076	2,174	1,722	1,911	2,222	1,741	1,804	1,791	1,854	1,764	1,836
Other state and local construction	25,405	24,333	24,574	24,840	24,501	26,391	26,573	26,394	27,432	26,199	26,875	28,029
Sewer systems	9,342	9,186	9,107	8,980	8,712	9,072	9,542	9,316	9,371	9,596	10,062	10,128
Water supply facilities	6,131	6,137	5,953	6,133	6,026	5,798	6,033	6,071	6,592	6,665	6,708	7,143
Miscellaneous nonbuilding ²	9,932	9,009	9,515	9,728	9,764	11,521	10,999	11,007	11,469	9,938	10,105	10,758
Federal construction	13,439	14,548	14,089	13,288	13,079	13,778	15,331	14,211	15,160	13,567	15,490	15,201
Total buildings	5,483	6,065	6,329	5,921	5,887	5,590	6,455	6,112	6,309	6,017	6,163	5,987
Housing	507	673	405	468	515	495	679	690	517	467	617	436
Industrial	964	1,067	1,194	1,022	986	884	1,039	1,067	987	796	1,172	967
Educational	3	11	4	17	17	20	18	30	27	3	8	15
Hospital	911	888	1,313	761	1,093	924	1,062	1,048	1,348	1,250	823	610
Other federal buildings ³	3,098	3,426	3,413	3,653	3,276	3,267	3,658	3,277	3,430	3,500	3,543	3,958
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,501	2,741	2,755	2,594	2,346	2,595	3,256	2,792	2,100	2,298	2,203	2,281
Conservation and development	2,614	3,930	3,229	3,072	3,097	3,474	3,642	3,508	4,378	3,212	3,879	3,711
Miscellaneous nonbuilding ⁴	2,590	1,565	1,531	1,446	1,498	1,862	1,721	1,539	2,109	1,776	2,985	2,965

See footnotes at end of table.

Table 8b. **Monthly Value of Public Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars—Con.**

[Millions of dollars]

Type of construction	1999											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	151,369	154,626	154,752	153,721	151,891	150,191	151,810	151,402	152,260	152,739	159,949	165,580
Total buildings	68,656	69,947	71,015	71,350	69,133	70,005	70,337	71,990	71,959	72,008	73,179	73,143
Housing and redevelopment	4,373	4,403	4,712	4,737	5,220	4,581	4,743	5,084	4,879	4,700	4,346	4,748
Educational	37,152	37,617	37,678	39,219	37,948	39,322	38,390	39,265	39,780	40,042	40,843	39,689
Hospital	2,892	3,049	2,749	2,833	3,087	2,986	3,079	3,231	3,296	3,200	3,389	3,138
Other ¹	24,239	24,878	25,876	24,561	22,879	23,115	24,125	24,409	24,004	24,066	24,601	25,568
Highways and streets	52,034	53,404	51,919	51,136	51,779	49,269	50,338	47,933	49,754	49,758	54,886	59,050
Conservation and development	2,381	2,111	1,950	1,959	1,696	1,748	1,633	1,882	1,908	1,800	2,494	2,611
Other state and local construction	28,298	29,163	29,869	29,277	29,283	29,168	29,503	29,598	28,639	29,173	29,390	30,776
Sewer systems	10,193	9,994	10,326	10,062	10,450	10,506	10,568	10,256	9,952	10,298	10,358	11,235
Water supply facilities	6,632	7,022	7,218	6,698	6,716	6,969	7,296	7,191	6,910	6,442	6,585	6,497
Miscellaneous nonbuilding ²	11,473	12,147	12,325	12,516	12,117	11,694	11,639	12,151	11,777	12,433	12,448	13,044
Federal construction	13,391	15,827	13,930	14,204	12,575	13,690	13,861	13,407	13,101	14,625	15,264	14,794
Total buildings	5,262	6,321	5,529	5,069	5,200	5,183	5,451	5,096	5,351	5,996	5,732	5,476
Housing	349	357	444	501	401	448	438	411	411	449	481	378
Industrial	845	938	1,006	898	1,028	832	1,016	853	1,009	643	910	1,011
Educational	38	9	10	13	9	13	30	47	8	1	1	7
Hospital	1,075	1,664	976	714	833	806	978	563	664	704	540	785
Other federal buildings ³	2,955	3,353	3,093	2,943	2,929	3,085	2,989	3,222	3,258	4,199	3,800	3,294
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	1,951	2,555	2,180	2,273	2,109	2,147	2,280	1,643	1,932	2,213	2,010	2,410
Conservation and development	3,350	4,150	4,157	3,676	3,304	3,994	3,881	4,405	4,293	3,856	4,188	4,516
Miscellaneous nonbuilding ⁴	2,577	2,558	1,811	2,935	1,710	2,118	2,001	2,014	1,280	2,308	3,072	2,120

See footnotes at end of table.

Table 8b. **Monthly Value of Public Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in Current Dollars—Con.**

[Millions of dollars]

Type of construction	2000											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	174,229	160,106	169,233	164,802	160,332	154,205	152,295	158,889	162,936	161,188	161,829	164,146
Total buildings	76,136	77,390	77,221	75,862	76,751	75,610	74,536	76,544	77,393	79,062	79,674	81,197
Housing and redevelopment	4,481	4,132	4,796	4,982	4,780	4,863	4,755	4,967	4,976	5,070	5,136	5,025
Educational	42,946	44,234	44,120	41,990	43,526	42,614	41,897	43,011	43,708	44,017	44,711	46,693
Hospital	3,270	3,063	3,310	3,434	3,750	3,452	3,464	3,399	3,422	3,220	3,499	3,128
Other ¹	25,438	25,961	24,995	25,456	24,694	24,682	24,420	25,168	25,286	26,755	26,327	26,351
Highways and streets	65,420	49,261	58,020	55,899	51,614	48,132	49,326	52,467	53,618	48,459	48,554	49,890
Conservation and development	2,336	2,700	2,226	1,891	1,774	1,625	1,589	1,490	1,972	2,328	2,081	2,260
Other state and local construction	30,337	30,755	31,767	31,149	30,193	28,838	26,845	28,388	29,954	31,339	31,521	30,799
Sewer systems	10,532	10,495	10,643	12,013	10,515	10,809	9,945	9,719	9,617	9,703	9,831	10,009
Water supply facilities	7,410	7,468	6,914	6,920	6,979	6,491	5,961	7,137	7,156	7,000	6,989	6,950
Miscellaneous nonbuilding ²	12,394	12,791	14,209	12,216	12,699	11,538	10,938	11,533	13,181	14,637	14,700	13,840
Federal construction	13,049	14,849	15,041	13,549	13,062	13,957	12,225	14,422	13,623	14,781	13,850	13,737
Total buildings	5,213	5,228	4,939	5,297	4,723	4,878	4,546	5,435	4,840	6,101	5,000	4,986
Housing	329	363	372	371	359	347	376	375	298	447	440	553
Industrial	1,240	1,287	1,064	1,163	1,059	1,078	1,161	1,308	1,099	1,116	1,177	1,201
Educational	1	4	2	93	12	28	14	28	42	3	64	52
Hospital	784	734	504	879	505	679	535	656	621	585	652	515
Other federal buildings ³	2,858	2,840	2,997	2,791	2,789	2,746	2,461	3,068	2,780	3,949	2,667	2,665
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	1,849	3,100	2,467	2,289	2,329	2,262	2,196	2,386	2,509	1,883	2,629	2,107
Conservation and development	3,846	4,322	4,364	3,954	3,539	4,189	3,229	4,078	4,454	4,487	3,708	4,080
Miscellaneous nonbuilding ⁴	1,850	1,925	2,989	1,723	2,182	2,329	1,952	2,214	1,514	2,004	2,211	2,265

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 1999-May 2001—Seasonally Adjusted Annual Rate in 1996 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					
1999:	May ^f	138,608	62,230	4,754	34,126	2,776	20,575	47,460	1,586	9,776	6,335	11,220
	June ^f	136,080	62,616	4,150	35,140	2,668	20,657	44,790	1,622	9,745	6,568	10,738
	July ^f	137,616	62,790	4,276	34,246	2,746	21,521	45,887	1,518	9,821	6,883	10,718
	August ^f	136,825	64,105	4,580	34,934	2,875	21,716	43,575	1,742	9,496	6,759	11,148
	September ^f	137,644	64,071	4,391	35,391	2,932	21,356	45,272	1,768	9,224	6,495	10,814
	October ^f	137,281	63,780	4,215	35,435	2,832	21,298	44,908	1,665	9,526	6,037	11,365
	November ^f	143,089	64,473	3,881	35,954	2,984	21,655	49,269	2,303	9,564	6,154	11,327
	December ^f	147,685	64,220	4,224	34,815	2,753	22,428	52,817	2,407	10,355	6,050	11,837
2000:	January ^f	154,308	65,999	3,907	37,215	2,834	22,044	58,463	2,139	9,645	6,855	11,206
	February ^f	141,155	66,978	3,606	38,265	2,649	22,457	43,827	2,455	9,541	6,852	11,503
	March ^f	149,437	66,894	4,189	38,199	2,866	21,641	51,711	2,023	9,676	6,343	12,790
	April ^f	144,212	65,402	4,351	36,167	2,958	21,926	49,035	1,717	10,911	6,240	10,907
	May ^f	139,622	65,991	4,160	37,394	3,222	21,215	44,921	1,616	9,576	6,220	11,298
	June ^f	134,110	64,889	4,214	36,547	2,960	21,168	41,817	1,485	9,880	5,754	10,284
	July ^f	131,663	63,646	4,107	35,748	2,955	20,836	42,632	1,440	9,017	5,248	9,680
	August ^f	137,080	65,202	4,285	36,605	2,893	21,419	45,309	1,346	8,779	6,266	10,179
	September ^f	140,356	65,809	4,282	37,135	2,907	21,484	46,222	1,776	8,664	6,272	11,613
	October ^f	138,346	67,061	4,356	37,303	2,728	22,674	41,524	2,093	8,725	6,103	12,839
	November ^f	138,583	67,405	4,397	37,795	2,958	22,255	41,499	1,872	8,841	6,083	12,884
	December ^f	140,431	68,506	4,281	39,370	2,638	22,218	42,678	2,036	9,017	6,054	12,140
2001:	January ^f	152,863	70,547	4,995	39,668	2,807	23,077	49,818	2,455	10,219	7,033	12,789
	February ^f	153,226	70,130	4,640	39,478	2,861	23,151	50,035	2,611	10,379	7,337	12,734
	March ^f	152,476	70,140	4,550	39,287	2,804	23,499	50,157	2,601	10,096	7,693	11,789
	April ^f	161,480	76,915	5,287	42,664	2,995	25,969	50,818	2,431	11,262	8,961	11,094
	May ^p	168,121	81,694	5,450	46,809	3,189	26,246	51,642	2,194	11,446	8,162	12,983
		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
1999:	May ^f	11,499	4,681	365	924	8	749	2,634	(NA)	1,914	3,091	1,584
	June ^f	12,447	4,637	406	744	11	720	2,757	(NA)	1,935	3,705	1,945
	July ^f	12,598	4,867	395	906	26	873	2,667	(NA)	2,056	3,607	1,843
	August ^f	12,169	4,539	371	759	41	501	2,866	(NA)	1,477	4,079	1,848
	September ^f	11,881	4,765	370	898	7	591	2,899	(NA)	1,739	3,979	1,175
	October ^f	13,194	5,311	403	569	1	623	3,716	(NA)	1,977	3,567	2,110
	November ^f	13,736	5,052	429	801	1	475	3,345	(NA)	1,787	3,867	2,796
	December ^f	13,273	4,808	336	887	6	689	2,890	(NA)	2,135	4,162	1,924
2000:	January ^f	11,600	4,519	287	1,075	1	680	2,477	(NA)	1,626	3,522	1,672
	February ^f	13,148	4,526	317	1,113	3	635	2,457	(NA)	2,719	3,929	1,731
	March ^f	13,353	4,279	325	922	2	436	2,594	(NA)	2,166	3,967	2,691
	April ^f	11,936	4,567	324	1,002	80	757	2,404	(NA)	1,989	3,591	1,538
	May ^f	11,491	4,061	312	909	10	434	2,396	(NA)	2,013	3,223	1,941
	June ^f	12,305	4,187	301	924	24	583	2,355	(NA)	1,953	3,829	2,076
	July ^f	10,684	3,883	325	990	12	456	2,100	(NA)	1,885	2,928	1,728
	August ^f	12,581	4,630	323	1,113	23	559	2,611	(NA)	2,046	3,684	1,954
	September ^f	11,872	4,116	257	934	36	527	2,362	(NA)	2,146	4,012	1,334
	October ^f	12,836	5,176	384	946	2	496	3,347	(NA)	1,606	4,035	1,758
	November ^f	11,997	4,231	376	995	54	551	2,254	(NA)	2,235	3,334	1,937
	December ^f	11,915	4,209	471	1,013	44	435	2,247	(NA)	1,788	3,675	1,987
2001:	January ^f	12,809	4,366	395	1,336	23	451	2,162	(NA)	1,927	4,185	2,057
	February ^f	12,968	4,151	371	1,168	26	424	2,162	(NA)	1,985	4,440	2,133
	March ^f	12,242	4,197	352	1,126	48	486	2,185	(NA)	1,779	4,189	1,824
	April ^f	11,649	3,982	268	1,334	36	365	1,979	(NA)	2,114	3,461	1,852
	May ^p	11,804	3,843	372	1,097	24	476	1,874	(NA)	1,888	4,066	1,762

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: 1998-2000—Seasonally Adjusted Annual Rate in 1996 Dollars**

[Millions of dollars]

Type of construction	1998											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	127,262	124,744	125,203	126,855	125,298	133,758	133,354	131,664	134,242	134,517	133,174	135,895
Total buildings	59,207	59,049	58,223	59,766	59,497	62,435	64,181	61,985	62,418	62,072	62,037	63,679
Housing and redevelopment	4,028	4,010	4,373	4,368	4,044	4,456	4,833	4,026	3,809	3,897	3,989	4,061
Educational	31,445	31,486	30,379	31,977	32,027	33,303	33,804	32,212	32,895	32,233	32,556	34,157
Hospital	3,064	2,827	2,943	2,633	2,766	2,608	2,468	2,567	2,466	2,713	2,726	2,792
Other ¹	20,670	20,725	20,528	20,788	20,660	22,067	23,076	23,180	23,250	23,230	22,767	22,669
Highways and streets	41,374	40,233	41,180	41,468	40,393	43,916	42,075	42,838	44,111	45,802	43,879	43,825
Conservation and development	2,254	2,005	2,103	1,662	1,837	2,126	1,666	1,718	1,700	1,767	1,689	1,761
Other state and local construction	24,427	23,457	23,698	23,958	23,571	25,281	25,434	25,122	26,013	24,876	25,568	26,630
Sewer systems	8,991	8,876	8,807	8,668	8,377	8,681	9,131	8,873	8,891	9,148	9,638	9,711
Water supply facilities	5,940	5,935	5,751	5,937	5,833	5,597	5,818	5,827	6,302	6,335	6,353	6,732
Miscellaneous nonbuilding ²	9,495	8,646	9,140	9,354	9,361	11,004	10,485	10,423	10,820	9,394	9,578	10,188
Federal construction	12,787	13,880	13,426	12,639	12,403	13,012	14,445	13,329	14,194	12,682	14,513	14,211
Total buildings	5,189	5,742	5,983	5,578	5,527	5,218	6,015	5,677	5,846	5,558	5,678	5,492
Housing	485	645	389	449	493	469	642	652	488	439	576	405
Industrial	911	1,009	1,127	961	924	824	966	989	913	735	1,078	887
Educational	2	10	4	16	16	19	17	28	25	3	7	13
Hospital	862	839	1,240	716	1,024	861	988	971	1,247	1,153	757	559
Other federal buildings ³	2,928	3,239	3,223	3,437	3,070	3,045	3,403	3,037	3,173	3,229	3,260	3,628
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,368	2,603	2,616	2,462	2,221	2,446	3,060	2,609	1,957	2,135	2,045	2,112
Conservation and development	2,516	3,797	3,123	2,966	2,978	3,324	3,485	3,341	4,153	3,062	3,715	3,558
Miscellaneous nonbuilding ⁴	2,476	1,502	1,471	1,390	1,437	1,778	1,641	1,458	1,990	1,679	2,829	2,808

See footnotes at end of table.

Table 9b. **Monthly Value of Public Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in 1996**
Dollars—Con.

[Millions of dollars]

Type of construction	1999											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	140,350	143,213	142,660	141,111	138,608	136,080	137,616	136,825	137,644	137,281	143,089	147,685
Total buildings	62,576	63,640	64,329	64,450	62,230	62,616	62,790	64,105	64,071	63,780	64,473	64,220
Housing and redevelopment	4,031	4,054	4,327	4,330	4,754	4,150	4,276	4,580	4,391	4,215	3,881	4,224
Educational	33,836	34,197	34,098	35,396	34,126	35,140	34,246	34,934	35,391	35,435	35,954	34,815
Hospital	2,634	2,772	2,487	2,557	2,776	2,668	2,746	2,875	2,932	2,832	2,984	2,753
Other ¹	22,075	22,617	23,417	22,167	20,575	20,657	21,521	21,716	21,356	21,298	21,655	22,428
Highways and streets	48,676	49,957	48,341	47,304	47,460	44,790	45,887	43,575	45,272	44,908	49,269	52,817
Conservation and development	2,274	2,013	1,850	1,848	1,586	1,622	1,518	1,742	1,768	1,665	2,303	2,407
Other state and local construction	26,824	27,603	28,139	27,509	27,331	27,052	27,421	27,402	26,533	26,928	27,044	28,241
Sewer systems	9,736	9,527	9,797	9,493	9,776	9,745	9,821	9,496	9,224	9,526	9,564	10,355
Water supply facilities	6,245	6,606	6,759	6,319	6,335	6,568	6,883	6,759	6,495	6,037	6,154	6,050
Miscellaneous nonbuilding ²	10,844	11,470	11,584	11,698	11,220	10,738	10,718	11,148	10,814	11,365	11,327	11,837
Federal construction	12,468	14,704	12,893	13,102	11,499	12,447	12,598	12,169	11,881	13,194	13,736	13,273
Total buildings	4,796	5,751	5,010	4,581	4,681	4,637	4,867	4,539	4,765	5,311	5,052	4,808
Housing	321	328	407	458	365	406	395	371	370	403	429	336
Industrial	769	853	911	810	924	744	906	759	898	569	801	887
Educational	35	9	9	12	8	11	26	41	7	1	1	6
Hospital	979	1,512	884	645	749	720	873	501	591	623	475	689
Other federal buildings ³	2,691	3,048	2,799	2,656	2,634	2,757	2,667	2,866	2,899	3,716	3,345	2,890
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	1,802	2,355	2,002	2,078	1,914	1,935	2,056	1,477	1,739	1,977	1,787	2,135
Conservation and development	3,200	3,956	3,944	3,468	3,091	3,705	3,607	4,079	3,979	3,567	3,867	4,162
Miscellaneous nonbuilding ⁴	2,435	2,415	1,702	2,743	1,584	1,945	1,843	1,848	1,175	2,110	2,796	1,924

See footnotes at end of table.

Table 9b. **Monthly Value of Public Construction Put in Place: 1998-2000—Seasonally Adjusted Annual Rate in 1996 Dollars—Con.**

[Millions of dollars]

Type of construction	2000											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction	154,308	141,155	149,437	144,212	139,622	134,110	131,663	137,080	140,356	138,346	138,583	140,431
Total buildings	65,999	66,978	66,894	65,402	65,991	64,889	63,646	65,202	65,809	67,061	67,405	68,506
Housing and redevelopment	3,907	3,606	4,189	4,351	4,160	4,214	4,107	4,285	4,282	4,356	4,397	4,281
Educational	37,215	38,265	38,199	36,167	37,394	36,547	35,748	36,605	37,135	37,303	37,795	39,370
Hospital	2,834	2,649	2,866	2,958	3,222	2,960	2,955	2,893	2,907	2,728	2,958	2,638
Other ¹	22,044	22,457	21,641	21,926	21,215	21,168	20,836	21,419	21,484	22,674	22,255	22,218
Highways and streets	58,463	43,827	51,711	49,035	44,921	41,817	42,632	45,309	46,222	41,524	41,499	42,678
Conservation and development	2,139	2,455	2,023	1,717	1,616	1,485	1,440	1,346	1,776	2,093	1,872	2,036
Other state and local construction	27,706	27,896	28,809	28,058	27,095	25,918	23,944	25,224	26,549	27,667	27,807	27,211
Sewer systems	9,645	9,541	9,676	10,911	9,576	9,880	9,017	8,779	8,664	8,725	8,841	9,017
Water supply facilities	6,855	6,852	6,343	6,240	6,220	5,754	5,248	6,266	6,272	6,103	6,083	6,054
Miscellaneous nonbuilding ²	11,206	11,503	12,790	10,907	11,298	10,284	9,680	10,179	11,613	12,839	12,884	12,140
Federal construction	11,600	13,148	13,353	11,936	11,491	12,305	10,684	12,581	11,872	12,836	11,997	11,915
Total buildings	4,519	4,526	4,279	4,567	4,061	4,187	3,883	4,630	4,116	5,176	4,231	4,209
Housing	287	317	325	324	312	301	325	323	257	384	376	471
Industrial	1,075	1,113	922	1,002	909	924	990	1,113	934	946	995	1,013
Educational	1	3	2	80	10	24	12	23	36	2	54	44
Hospital	680	635	436	757	434	583	456	559	527	496	551	435
Other federal buildings ³	2,477	2,457	2,594	2,404	2,396	2,355	2,100	2,611	2,362	3,347	2,254	2,247
Highways and streets	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	1,626	2,719	2,166	1,989	2,013	1,953	1,885	2,046	2,146	1,606	2,235	1,788
Conservation and development	3,522	3,929	3,967	3,591	3,223	3,829	2,928	3,684	4,012	4,035	3,334	3,675
Miscellaneous nonbuilding ⁴	1,672	1,731	2,691	1,538	1,941	2,076	1,728	1,954	1,334	1,758	1,937	1,987

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 1999-May 2001—Not Seasonally Adjusted in 1996 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					
1999:	May ^f	11,552	5,134	395	2,747	226	1,766	3,971	134	819	548	946
	June ^f	12,804	5,721	357	3,312	245	1,808	4,516	146	884	571	966
	July ^f	13,299	5,842	358	3,419	227	1,838	4,807	143	871	626	1,010
	August ^f	14,326	6,255	387	3,685	242	1,940	5,262	176	895	616	1,123
	September ^f	14,018	5,932	401	3,365	261	1,904	5,357	175	890	594	1,070
	October ^f	13,227	5,630	385	3,065	252	1,927	4,813	166	899	588	1,133
	November ^f	12,018	5,296	341	2,822	254	1,879	4,155	199	843	546	979
	December ^f	10,531	4,930	348	2,576	225	1,781	3,301	178	784	465	874
2000:	January ^f	9,269	4,709	293	2,593	214	1,609	2,602	134	659	463	702
	February ^f	8,835	4,751	275	2,608	212	1,656	2,078	156	648	470	731
	March ^f	10,079	4,954	329	2,728	229	1,668	2,943	137	722	457	865
	April ^f	10,951	5,183	351	2,782	237	1,813	3,428	134	845	509	853
	May ^f	11,796	5,461	353	3,013	279	1,816	3,886	136	822	541	950
	June ^f	12,548	5,900	362	3,435	256	1,847	4,192	134	897	501	925
	July ^f	12,627	5,936	341	3,566	247	1,781	4,377	136	791	477	912
	August ^f	14,521	6,392	367	3,868	245	1,912	5,558	136	837	573	1,026
	September ^f	14,106	6,087	384	3,528	258	1,917	5,296	175	827	573	1,147
	October ^f	13,325	5,923	400	3,217	251	2,054	4,488	209	833	592	1,281
	November ^f	11,671	5,528	388	2,973	244	1,923	3,552	161	779	539	1,111
	December ^f	9,977	5,225	346	2,900	213	1,766	2,571	151	664	466	899
2001:	January ^f	9,504	5,024	380	2,740	225	1,679	2,333	156	705	474	812
	February ^f	9,368	4,890	339	2,635	216	1,700	2,314	167	678	502	816
	March ^f	10,258	5,153	354	2,776	215	1,807	2,826	177	741	558	804
	April ^f	12,444	6,057	433	3,232	242	2,151	3,714	190	886	728	868
	May ^p	14,310	6,782	470	3,792	271	2,248	4,553	184	988	713	1,089
		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
1999:	May ^f	943	378	30	75	1	61	213	(NA)	163	254	130
	June ^f	1,075	406	36	65	1	63	241	(NA)	168	314	165
	July ^f	1,095	428	35	80	2	77	234	(NA)	176	309	158
	August ^f	1,060	371	30	62	3	41	234	(NA)	127	368	167
	September ^f	1,436	527	41	99	1	65	321	(NA)	186	538	159
	October ^f	873	373	28	40	-	44	261	(NA)	135	214	127
	November ^f	1,111	400	34	63	-	38	265	(NA)	153	312	226
	December ^f	1,097	418	29	77	1	60	251	(NA)	186	327	151
2000:	January ^f	849	338	21	80	-	51	185	(NA)	123	255	121
	February ^f	938	339	24	83	-	48	184	(NA)	186	279	123
	March ^f	1,101	369	28	80	-	38	224	(NA)	186	316	215
	April ^f	939	357	25	78	6	59	188	(NA)	156	285	122
	May ^f	958	342	26	77	1	37	202	(NA)	171	265	159
	June ^f	1,075	380	27	84	2	53	214	(NA)	169	324	176
	July ^f	914	326	27	83	1	38	176	(NA)	161	251	148
	August ^f	1,104	387	27	93	2	47	218	(NA)	177	332	176
	September ^f	1,451	467	29	106	4	60	268	(NA)	230	542	180
	October ^f	839	353	26	64	-	34	228	(NA)	110	242	106
	November ^f	975	335	30	79	4	44	178	(NA)	192	269	156
	December ^f	964	348	39	84	4	36	186	(NA)	155	289	156
2001:	January ^f	949	340	31	104	2	35	168	(NA)	145	303	149
	February ^f	922	307	27	86	2	31	160	(NA)	136	315	151
	March ^f	1,001	355	30	95	4	41	185	(NA)	153	333	145
	April ^f	928	322	22	108	3	30	160	(NA)	167	275	147
	May ^p	976	314	30	89	2	39	153	(NA)	160	336	146

- Less than \$0.5 million. NA Not available, but estimates are included in totals. ^pPreliminary. ^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 10b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996 Dollars**

[Millions of dollars]

Type of construction	1998												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	130,880	7,772	7,611	8,319	9,693	10,429	12,588	13,049	13,728	13,624	13,123	11,182	9,762
Total buildings	61,297	4,212	4,158	4,323	4,719	4,907	5,694	5,966	6,021	5,790	5,499	5,112	4,896
Housing and redevelopment	4,153	307	294	340	359	336	384	407	334	351	360	345	335
Educational	32,417	2,172	2,125	2,164	2,433	2,573	3,142	3,378	3,404	3,133	2,799	2,564	2,530
Hospital	2,700	227	213	240	213	226	235	210	209	232	237	224	232
Other ¹	22,027	1,505	1,525	1,579	1,713	1,773	1,933	1,971	2,075	2,073	2,102	1,979	1,798
Highways and streets	42,842	1,814	1,790	2,179	2,934	3,376	4,439	4,590	5,123	5,161	5,019	3,690	2,728
Conservation and development	1,836	140	127	141	131	155	191	157	174	168	176	146	130
Other state and local construction	24,905	1,607	1,536	1,676	1,909	1,991	2,264	2,336	2,411	2,505	2,429	2,234	2,008
Sewer systems	8,976	613	579	653	688	699	789	819	826	859	875	841	736
Water supply facilities	6,035	405	408	412	483	503	486	530	530	575	619	566	518
Miscellaneous nonbuilding ²	9,894	589	549	611	738	789	989	987	1,054	1,070	935	828	754
Federal construction	13,505	957	988	1,080	1,017	1,025	1,130	1,269	1,157	1,709	860	1,164	1,150
Total buildings	5,624	406	423	477	460	454	461	540	470	640	402	440	451
Housing	510	38	48	31	37	40	41	58	54	53	32	45	33
Industrial	941	71	74	90	79	76	73	87	82	100	53	84	73
Educational	14	-	1	-	1	1	2	1	2	3	-	1	1
Hospital	941	67	62	99	59	84	76	89	80	136	83	59	46
Other federal buildings ³	3,217	229	239	257	283	252	269	306	251	347	234	253	298
Highways and streets	243	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,377	178	178	225	194	189	212	262	225	210	146	175	184
Conservation and development	3,387	182	269	249	236	244	282	299	301	561	184	300	280
Miscellaneous nonbuilding ⁴	1,873	180	107	117	110	118	151	141	131	269	101	228	221

See footnotes at end of table.

Table 10b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996 Dollars—Con.**

[Millions of dollars]

Type of construction	1999												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	139,348	8,494	8,690	9,575	10,814	11,552	12,804	13,299	14,326	14,018	13,227	12,018	10,531
Total buildings	63,578	4,461	4,495	4,781	5,100	5,134	5,721	5,842	6,255	5,932	5,630	5,296	4,930
Housing and redevelopment	4,269	303	297	340	356	395	357	358	387	401	385	341	348
Educational	34,807	2,349	2,323	2,432	2,711	2,747	3,312	3,419	3,685	3,365	3,065	2,822	2,576
Hospital	2,754	199	209	208	204	226	245	227	242	261	252	254	225
Other ¹	21,749	1,610	1,666	1,801	1,829	1,766	1,808	1,838	1,940	1,904	1,927	1,879	1,781
Highways and streets	46,629	2,130	2,265	2,671	3,382	3,971	4,516	4,807	5,262	5,357	4,813	4,155	3,301
Conservation and development	1,855	142	128	125	145	134	146	143	176	175	166	199	178
Other state and local construction	27,286	1,761	1,803	1,998	2,186	2,313	2,420	2,507	2,634	2,554	2,619	2,368	2,122
Sewer systems	9,653	661	622	733	754	819	884	871	895	890	899	843	784
Water supply facilities	6,431	423	454	485	515	548	571	626	616	594	588	546	465
Miscellaneous nonbuilding ²	11,202	677	727	780	917	946	966	1,010	1,123	1,070	1,133	979	874
Federal construction	12,774	919	1,047	1,057	1,060	943	1,075	1,095	1,060	1,436	873	1,111	1,097
Total buildings	4,896	364	424	421	387	378	406	428	371	527	373	400	418
Housing	384	24	24	34	39	30	36	35	30	41	28	34	29
Industrial	827	58	63	77	68	75	65	80	62	99	40	63	77
Educational	14	3	1	1	1	1	1	2	3	1	-	-	1
Hospital	762	74	112	74	54	61	63	77	41	65	44	38	60
Other federal buildings ³	2,909	205	225	235	224	213	241	234	234	321	261	265	251
Highways and streets	229	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	1,926	136	161	172	163	163	168	176	127	186	135	153	186
Conservation and development	3,739	232	281	315	275	254	314	309	368	538	214	312	327
Miscellaneous nonbuilding ⁴	1,983	177	171	136	218	130	165	158	167	159	127	226	151

See footnotes at end of table.

Table 10b. **Annual and Monthly Value of Public Construction Put in Place: 1998-2000—Not Seasonally Adjusted in 1996 Dollars—Con.**

[Millions of dollars]

Type of construction	2000												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State and local construction . . .	139,704	9,269	8,835	10,079	10,951	11,796	12,548	12,627	14,521	14,106	13,325	11,671	9,977
Total buildings	66,049	4,709	4,751	4,954	5,183	5,461	5,900	5,936	6,392	6,087	5,923	5,528	5,225
Housing and redevelopment	4,190	293	275	329	351	353	362	341	367	384	400	388	346
Educational	37,212	2,593	2,608	2,728	2,782	3,013	3,435	3,566	3,868	3,528	3,217	2,973	2,900
Hospital	2,884	214	212	229	237	279	256	247	245	258	251	244	213
Other ¹	21,763	1,609	1,656	1,668	1,813	1,816	1,847	1,781	1,912	1,917	2,054	1,923	1,766
Highways and streets	44,971	2,602	2,078	2,943	3,428	3,886	4,192	4,377	5,558	5,296	4,488	3,552	2,571
Conservation and development	1,798	134	156	137	134	136	134	136	136	175	209	161	151
Other state and local construction	26,886	1,824	1,849	2,044	2,206	2,313	2,322	2,179	2,436	2,547	2,706	2,430	2,029
Sewer systems	9,324	659	648	722	845	822	897	791	837	827	833	779	664
Water supply facilities	6,160	463	470	457	509	541	501	477	573	573	592	539	466
Miscellaneous nonbuilding ²	11,402	702	731	865	853	950	925	912	1,026	1,147	1,281	1,111	899
Federal construction	12,106	849	938	1,101	939	958	1,075	914	1,104	1,451	839	975	964
Total buildings	4,341	338	339	369	357	342	380	326	387	467	353	335	348
Housing	331	21	24	28	25	26	27	27	27	29	26	30	39
Industrial	991	80	83	80	78	77	84	83	93	106	64	79	84
Educational	25	-	-	-	6	1	2	1	2	4	-	4	4
Hospital	543	51	48	38	59	37	53	38	47	60	34	44	36
Other federal buildings ³	2,452	185	184	224	188	202	214	176	218	268	228	178	186
Highways and streets	258	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Military facilities	2,016	123	186	186	156	171	169	161	177	230	110	192	155
Conservation and development	3,651	255	279	316	285	265	324	251	332	542	242	269	289
Miscellaneous nonbuilding ⁴	1,839	121	123	215	122	159	176	148	176	180	106	156	156

- 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 that 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 that 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 town houses. The classification excludes residential units in buildings that are primarily nonresidential. It also excludes manufactured 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 that 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 that are used primarily for doctors’ offices are classified as “office.”

Miscellaneous nonresidential includes nonresidential buildings that are not classified in any of the above categories. Motion picture studios, theatres, casinos, health clubs, and buildings that 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 utilities” categories, respectively.

Farm Nonresidential

Farm nonresidential construction includes buildings and structures such as barns, storage houses, smokehouses, and fences that 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) that 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 that 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 that are classified as “hospitals.”

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

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

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

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

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

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

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

Federal Construction

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

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

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

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

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

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

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

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

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

Conservation and development includes construction work done by agencies that 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 U.S. 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 .8424. 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 1.102 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, C20/01-1 *Housing Starts*, issued March 2001.

Once a project is selected, monthly construction progress reports are requested from the owner until the project is completed. About 2,500 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) × (unit adjustment factor) × (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 area 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 Census 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 Survey (CES) conducted by the Census Bureau 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 due to the necessity of forecasting. For estimates beginning in 1993, time series techniques with the X-12-ARIMA Program have been used to remove the irregular effect.

PRIVATE NONRESIDENTIAL BUILDINGS

The Census Bureau 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 \$75,000 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 noncertainty 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 8,500 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:

Final weight=(basic weight) x (outlier adjustment factor) x (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.

a. **Outlier adjustment factor.** This factor reduces the influence on the VIP of an extreme noncertainty observation that reports an extremely large total construction value.

b. **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 that 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 overall sample projects by type of construction. The results are increased by 27 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, 1994, and 1998 levels for industrial buildings are based upon actual ACES data. Estimates for other years are extrapolations from the 1992, 1994, and 1998 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 electric light and power, gas, railroad, petroleum pipeline categories, and the TV cable component of telecommunications, 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 27 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 8,500. These include newly selected projects, as well as projects carried over from previous months.

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

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

Federal

Monthly value-in-place estimates for federally owned construction are based on monthly data, which, with few exceptions, are supplied to the Census Bureau by each federal agency involved in construction activities.

Information is obtained from federal budget documents for a small number of agencies where information cannot be directly supplied. These budget totals are prorated over the fiscal year to derive monthly estimates.

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

[Percent of the value of units started monthly]

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

¹Month of start is first month of activity.

Appendix C.

Reliability of the Estimates

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

On an annual basis, the estimates for series directly measured monthly, quarterly, or annually accounted for about 71 percent of total construction in 2000 (private multifamily 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 51 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 that 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:

$$\text{Standard error of a change} = k (100 + (\text{percent change shown in Tables 3 through 6}))$$

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. Nonsampling 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 incomplete 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, 49 percent; state and locally owned public construction, 33 percent; private residential construction of 2 units or more, 42 percent; and private residential improvements, 15 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 27 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 1998. (Outlays

are included if a government agency's fiscal year ending date falls within July 1997 to June 1998 inclusive, and for three state agencies with fiscal years ending in August or September 1998.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for 4 years from 1998 through April 2002. 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 that 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 -2.4 percent to 1.1 percent with a median of -0.1 percent (see Table C-2). The range of the difference between first revision and second revision was from -1.8 to 0.9 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	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 2000 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	-2.4	1.1	-0.1	-1.8	0.9	0.1
Private construction	-3.0	0.4	-0.5	-2.0	0.6	-0.3
Residential buildings	-3.2	1.5	-0.1	-2.8	1.1	0.2
New housing units	-0.4	0.3	0.2	-0.3	0.4	0.2
1 unit	-0.2	0.6	0.2	-0.5	0.8	0.0
2 units or more	-2.7	4.5	-1.5	-3.0	2.4	0.3
Nonresidential buildings	-4.6	1.3	-1.9	-2.3	0.1	-1.0
Industrial	-9.5	8.1	-3.7	-5.2	2.2	-1.1
Office	-2.6	4.7	0.6	-1.9	2.5	1.2
Hotel, motel	-8.4	3.4	-3.7	-5.9	0.6	-2.3
Other commercial	-5.9	0.1	-3.5	-3.5	0.3	-1.8
Religious	-4.7	3.7	-0.4	-2.8	1.6	-0.4
Educational	-8.0	3.1	-3.8	-5.3	2.3	-2.1
Hospital and institutional	-6.9	4.8	-0.4	-4.5	2.8	-1.5
Miscellaneous buildings	-4.7	2.7	-1.4	-4.2	1.6	-1.5
Telecommunications	-12.1	29.2	4.4	-2.3	38.6	-0.1
All other private	-17.7	15.9	-1.9	-3.4	13.1	-0.5
Public construction	-0.2	7.0	1.3	-1.0	7.2	0.8
Housing and redevelopment	-6.5	10.3	3.9	-4.6	6.8	1.8
Industrial	-1.2	101.2	0.1	-0.4	47.4	-0.1
Educational	-1.8	37.2	2.9	-2.0	34.5	0.1
Hospital	-13.7	3.4	-2.9	-6.8	1.8	-1.8
Other public buildings	-2.3	2.5	-0.4	-0.8	1.3	-0.1
Highways and streets	-2.8	9.0	0.8	-2.0	3.4	1.2
Military facilities	-1.7	10.7	-0.7	-0.6	1.1	0.0
Conservation and development	-2.1	8.8	1.4	-1.4	3.3	-0.2
Sewer systems	-3.4	6.3	0.0	-3.6	2.4	1.0
Water supply facilities	-6.5	8.4	1.7	-4.0	3.2	0.6
Miscellaneous public	-4.6	31.5	2.8	-7.7	21.0	2.1

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. The relationship between unadjusted estimates and seasonally adjusted estimates can best be explained with the following scenario. 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.

The seasonally adjusted estimates or seasonal factors are obtained by running the unadjusted data through X-12-ARIMA. The X-12-ARIMA is a seasonal adjustment program developed at the U.S. Census Bureau. The program is based on the Bureau's earlier X-11 program and the X-11-ARIMA/88 program developed at Statistics Canada. Table D-1 provides a description of the components found in seasonally adjusted series. Further information on X-12-ARIMA is available on the Internet at www.census.gov/pub/ts. Also, a list of frequently asked questions (FAQ) on seasonal adjustment may be seen at www.census.gov/const/www/faq2.html.

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. Seasonal factors that are shown in this table are the combined factors of the seasonal and trading data where appropriate.

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 1996 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 Census Bureau.¹

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

Since most of the indexes were originally compiled for different base years, all indexes were converted to the 1996 dollar base (1996=100).

Indexes that are available quarterly or semiannually are linked with a "monthly trend index" shown in Table D-3. The results are monthly indexes that 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:

U.S. Census Bureau Composite Fixed-Weighted Price Index (Source: U.S. Census Bureau, 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 1996, by category of construction) are held constant. Consequently, the index reflects only changes in prices. The composite index is calculated using the U.S. Census Bureau 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.

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

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

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

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

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

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

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

Annual indexes are averages of the monthly indexes.

More information about the indexes can be found on the ENR Internet site at www.enr.com.

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.

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.

U.S. Census Bureau Single-Family Houses Under Construction Fixed-Weighted Price Index (Source: U.S. Census Bureau, 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 (1996) to the actual houses built in 1996. 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.

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

The index is calculated based on the same data and regression analysis described above under the U.S. Census Bureau Single-Family Houses Under Construction Fixed-Weighted Price Index. In the calculation of the deflator index series, however, the Fisher ideal index is employed in place of the Laspeyres. The Fisher ideal index is the geometric mean of a Laspeyres index and a Paasche index.

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.

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

The index is compiled quarterly with 1977 as the base period. The Bureau of Reclamation composite index for dams and reclamation projects reflects the Bureau of Reclamation’s cost of constructing these projects in 17 Western States. The index is a weighted average of costs of labor, materials, and equipment furnished by contractors and the government. When possible, labor and materials costs are based on unit bid

prices from contracts let by the Bureau of Reclamation. These data are supplemented by components of the Federal Highway Administration index, Bureau of Labor Statistics wholesale indexes, quotations of wage rates published in *Engineering News-Record* and judgment of Bureau of Reclamation analysts.

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

The major categories of work that 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.

This index is available on the Internet at www.usbr.gov/tsc/costtrend.html.

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, and the competitive condition of the market place.

The annual index is an average of the quarterly indexes.

This index is available on the Internet at www.turnerconstruction.com.

Handy-Whitman Indexes (Source: Computed by the U.S. Census Bureau 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 U.S. Census Bureau from data compiled by AUS Consultants Inc., Harrisburg, PA)

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

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

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

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

Type of construction	Average percentage change				\bar{I}/\bar{C}	MCD
	\bar{O}	\bar{C}	\bar{I}	\bar{C}		
Total construction	5.93	1.18	0.96	0.65	1.49	2
Private construction.....	4.92	1.23	0.94	0.70	1.34	2
Residential buildings.....	6.48	1.26	0.67	0.95	0.71	1
Nonresidential buildings.....	4.04	2.07	1.78	0.94	1.88	3
Public construction.....	9.10	2.26	2.08	0.78	2.68	4
Buildings.....	5.38	2.51	2.31	0.91	2.54	3
Military facilities.....	18.13	11.68	11.29	2.26	5.01	6
Highways.....	18.76	4.11	3.83	1.13	3.40	4
Conservation and development.....	15.91	9.25	9.11	1.75	5.19	8
All other public.....	7.97	4.51	4.27	1.14	3.74	4

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 for cyclical dominance) gives an estimate of the appropriate time span over which to observe cyclical movements in a monthly series. In deriving MCD, the average percentage changes (without regard to sign) in the irregular and in the cyclical component are computed for 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 12-month spans. MCD is the shortest span for which the average percentage change (without regard to sign) in the cyclical component is larger than the average percentage change (without regard to sign) in the irregular component; thus, it indicates the point at which fluctuations begin to be more attributable to cyclical than to irregular movements.

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

[Percent]

Type of construction	May 2001 ^P	Apr. 2001 ^r	Mar. 2001 ^r	Feb. 2001 ^r	Jan. 2001 ^r	Dec. 2000 ^r	Nov. 2000 ^r	Oct. 2000 ^r	Sep. 2000 ^r	Aug. 2000 ^r	July 2000 ^r	May 2000 ^r
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	102.8	96.4	91.7	77.2	82.2	88.8	104.9	109.2	111.8	113.3	112.5	102.9
2 units or more	105.4	99.2	96.5	89.1	89.1	94.3	101.0	104.4	103.3	106.5	103.0	105.0
Nonresidential buildings:												
Industrial	101.2	95.2	94.4	89.0	90.8	103.7	102.8	108.7	106.9	105.1	98.6	101.1
Office	104.2	99.3	97.1	93.1	93.1	95.9	102.6	103.8	104.2	104.6	100.0	104.6
Hotels, motels	102.8	100.6	101.0	93.4	93.1	96.2	100.4	102.3	100.4	104.8	101.8	101.7
Other commercial	100.5	95.3	90.9	85.2	84.4	93.8	104.1	110.5	112.3	111.6	106.7	100.6
Religious	98.7	94.3	92.6	88.7	91.7	96.3	110.4	114.3	107.5	111.1	98.9	97.7
Educational	103.4	95.0	90.4	84.3	83.6	87.6	95.3	99.6	106.9	119.9	118.3	103.3
Hospital and institutional	100.8	100.7	99.1	94.2	93.8	99.1	103.7	104.3	103.2	102.6	97.6	100.8
Miscellaneous nonresidential	101.5	103.1	98.8	91.4	89.2	96.9	102.4	105.8	103.8	103.3	101.8	101.5
Telecommunications	101.9	93.9	98.6	84.0	82.8	104.1	106.8	109.0	103.5	111.0	95.7	101.8
All other private	96.1	90.9	90.1	80.5	86.4	101.0	104.9	115.2	110.6	115.3	106.2	96.4
PUBLIC CONSTRUCTION												
State and Local												
Buildings:												
Housing and redevelopment	103.6	98.2	93.4	87.8	91.2	96.9	105.8	110.3	107.6	102.9	99.7	101.9
Educational	97.2	90.9	84.8	80.1	82.9	88.4	94.4	103.5	114.0	126.8	119.7	96.7
Hospital	102.1	96.9	91.9	90.6	96.1	96.9	99.1	110.4	106.4	101.5	100.3	103.9
Other buildings	102.8	99.4	92.3	88.1	87.3	95.4	103.7	108.7	107.1	107.1	102.6	102.7
Highways and streets	105.8	87.7	67.6	55.5	56.2	72.3	102.7	129.7	137.5	147.2	123.2	103.8
Conservation and development	100.7	93.9	81.8	76.9	76.2	88.9	103.5	119.7	118.5	121.0	113.0	100.9
Sewer systems	103.6	94.4	88.1	78.4	82.8	88.4	105.8	114.6	114.5	114.4	105.3	103.0
Water supply facilities	104.8	97.5	87.0	82.1	80.9	92.3	106.3	116.4	109.7	109.7	109.0	104.4
Miscellaneous construction	100.7	93.9	81.8	76.9	76.2	88.9	103.5	119.7	118.5	121.0	113.0	100.9
Federal												
Buildings:												
Housing and redevelopment	97.9	97.1	101.5	88.6	93.4	99.2	95.0	81.8	136.3	100.2	100.8	101.0
Industrial	97.9	97.1	101.5	88.6	93.4	99.2	95.0	81.8	136.3	100.2	100.8	101.0
Educational	97.9	97.1	101.5	88.6	93.4	99.2	95.0	81.8	136.3	100.2	100.8	101.0
Hospital	97.9	97.1	101.5	88.6	93.4	99.2	95.0	81.8	136.3	100.2	100.8	101.0
Other buildings	97.9	97.1	101.5	88.6	93.4	99.2	95.0	81.8	136.3	100.2	100.8	101.0
Military	101.4	94.7	103.4	82.5	90.5	104.3	102.9	82.0	128.7	103.5	102.8	101.9
Conservation and development	99.2	95.2	95.4	85.2	86.8	94.3	96.9	72.1	162.2	108.2	102.9	98.5
Miscellaneous construction	99.2	95.2	95.4	85.2	86.8	94.3	96.9	72.1	162.2	108.2	102.9	98.5

^PPreliminary. ^rRevised.

Table D-3. Sources of Cost Indexes Used to Derive Estimates of the Value of Construction Put in Place in 1996 Dollars

Type of construction	Applicable deflating index		Monthly trend index
	Name of index	Availability	
Residential buildings	U.S. Census Bureau Single-Family Houses Under Construction	Monthly	
Industrial buildings	Unweighted average of— Turner Construction Company U.S. Census Bureau Single-Family Houses Under Construction Educational buildings Hospital and institutional buildings Religious buildings Miscellaneous nonresidential buildings Farm nonresidential	Quarterly	Engineering News-Record—buildings
Office buildings		Monthly	
Hotels and motels		Quarterly	
Other commercial buildings		Monthly	
Educational buildings			
Hospital and institutional buildings			
Religious buildings			
Miscellaneous nonresidential buildings			
Farm nonresidential			
Railroads	Unweighted average of— Federal Highway Admin.-composite Bureau of Reclamation	Quarterly	Engineering News-Record—construction
		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) Handy-Whitman—utility building (weight 1)	Semiannually	Engineering News-Record—construction
		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) U.S. Census Bureau Single-Family Houses Under Construction (weight 1) Turner Construction Company (weight 1)	Quarterly	Engineering News-Record—construction
		Monthly	
		Quarterly	Engineering News-Record—construction
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 Bureau of Reclamation	Quarterly	Engineering News-Record—construction
		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**

[1996 = 100]

Period	U.S. Census Bureau		Engineering news-record		U.S. Census Bureau 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													
1996.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100	100	100	100	100	100
1997.....	103.2	103.3	105.0	103.6	102.9	102.9	107.5	103	104	103	102	102	102	102
1998.....	106.0	106.1	105.8	105.3	105.6	105.6	105.2	105	109	104	104	104	104	102
1999 ^r	110.3	110.4	107.9	107.8	110.4	110.4	112.7	107	113	107	105	107	107	101
2000 ^r	115.3	115.4	110.5	110.6	115.5	115.6	119.3	111	118	110	109	111	112	103
	Monthly indexes						Quarterly indexes			Semiannual indexes				
1999: January.....	^r 108.4	^r 108.5	106.9	106.7	108.5	108.5								
February.....	^r 108.6	^r 108.6	106.7	106.6	108.7	108.6	107.1	105	111					
March.....	^r 109.0	^r 109.0	106.5	106.5	109.0	108.9				105	105	105	106	102
April.....	^r 109.3	^r 109.3	106.8	106.9	109.5	109.4								
May.....	^r 109.7	^r 109.8	106.8	106.8	109.8	109.8	117.5	106	112					
June.....	^r 110.4	^r 110.3	107.2	107.4	110.4	110.4								
July.....	^r 110.6	^r 110.5	108.0	108.1	110.8	110.9								
August.....	^r 110.8	^r 110.8	108.5	108.3	110.9	111.0	108.0	108	114					
September.....	^r 110.9	^r 110.8	109.4	109.0	111.0	111.1				106	105	106	106	100
October.....	^r 111.4	^r 111.3	109.4	109.1	111.5	111.5								
November.....	^r 112.0	^r 111.8	109.2	109.0	112.1	112.0	118.1	109	115					
December.....	^r 112.3	^r 112.1	109.2	109.0	112.3	112.4								
2000: January.....	^r 113.9	^r 114.0	109.4	109.0	^r 114.5	^r 114.7								
February.....	^r 114.1	^r 114.1	110.0	109.6	^r 114.5	^r 114.6	113.2	109	116					
March.....	^r 114.0	^r 113.9	110.4	110.3	^r 114.4	^r 114.5				109	106	110	108	101
April.....	^r 114.5	^r 114.4	110.3	110.3	^r 114.5	^r 114.5								
May.....	^r 114.8	^r 114.8	111.1	110.9	^r 114.8	^r 114.9	128.4	111	117					
June.....	^r 115.0	^r 115.1	110.9	111.0	^r 115.2	^r 115.4								
July.....	^r 115.6	^r 115.7	110.7	110.7	^r 115.7	^r 115.8								
August.....	^r 115.7	^r 115.8	110.7	110.9	^r 115.8	^r 115.9	113.0	111	119					
September.....	^r 116.1	^r 115.9	110.5	110.7	^r 116.2	^r 116.2				111	110	111	113	103
October.....	^r 116.4	^r 116.3	110.5	110.7	^r 116.5	^r 116.4								
November.....	^r 116.7	^r 116.6	110.6	111.4	^r 116.8	^r 116.8	122.9	111	120					
December.....	^r 117.1	^r 116.9	110.8	111.7	^r 117.4	^r 117.4								
2001: January.....	^r 117.8	^r 117.3	110.7	111.7	^r 118.2	^r 118.1								
February.....	^r 118.3	^r 117.7	110.4	111.6	^r 118.7	^r 118.6	123.9	112	121					
March.....	^r 118.8	^r 118.5	110.5	111.7	^r 119.4	^r 119.2				112	111	113	115	104
April.....	^r 118.9	^r 118.6	110.5	111.8	^r 119.5	^r 119.3								
May.....	^p 119.2	^p 118.9	110.7	111.8	^p 119.6	^p 119.3	(NA)	112	121					
June.....			111.5	112.4										

NA Not available. ^pPreliminary. ^rRevised.

Table D-5. Monthly U.S. Census Bureau Composite Fixed-Weighted Price Index: 1964 to 2001
 [1996=100]

Year	Month												Annual composite index
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	
1964	18.7	18.3	18.0	18.3	18.5	18.6	18.5	18.4	18.4	18.7	18.8	18.9	18.5
1965	18.9	18.8	18.8	18.8	19.0	19.1	19.0	19.0	19.0	19.4	19.6	19.7	19.1
1966	19.5	19.3	19.3	19.8	20.2	20.2	20.1	20.0	19.9	20.2	20.3	20.5	19.9
1967	20.3	20.2	20.3	20.3	20.4	20.4	20.5	20.6	20.7	20.8	20.9	21.1	20.5
1968	21.2	21.3	21.4	21.5	21.6	21.6	21.5	21.6	21.7	22.0	22.4	22.8	21.7
1969	22.6	22.7	22.9	23.0	23.3	23.1	23.3	23.2	23.2	23.5	23.7	23.8	23.2
1970	23.7	23.8	24.0	24.5	24.8	25.2	24.7	24.4	24.4	24.6	24.7	25.1	24.5
1971	25.0	25.6	25.8	25.9	25.9	26.1	26.2	26.7	26.6	26.8	27.0	27.2	26.2
1972	27.3	27.3	27.5	27.5	27.5	27.6	27.8	28.1	28.3	28.6	28.8	29.2	28.0
1973	29.2	29.2	29.5	29.8	30.0	30.1	30.5	30.9	31.1	31.4	31.6	31.7	30.4
1974	32.3	32.5	33.3	33.1	33.5	34.5	34.9	34.9	35.1	35.4	35.8	36.0	34.3
1975	36.4	36.3	36.4	36.7	37.1	37.4	37.4	37.1	37.5	37.6	37.8	38.1	37.2
1976	38.0	38.0	38.1	38.5	39.1	39.4	39.5	39.4	39.5	39.8	40.0	40.2	39.1
1977	40.8	41.0	41.2	41.4	41.9	42.5	42.6	42.9	43.3	43.5	43.9	44.4	42.5
1978	44.8	45.1	45.4	45.9	46.2	46.7	47.1	47.6	48.1	48.7	49.3	49.7	47.1
1979	50.2	50.7	50.9	51.3	52.2	53.0	53.4	54.1	54.4	54.9	55.5	55.9	53.0
1980	56.7	57.2	57.5	57.8	58.5	59.3	59.9	60.2	60.4	60.9	61.4	61.7	59.3
1981	62.1	62.4	63.1	63.4	63.6	63.9	64.2	64.4	64.4	65.0	65.2	65.3	63.9
1982	65.4	65.3	65.4	65.4	65.6	65.9	65.6	65.7	65.8	65.7	66.1	66.2	65.7
1983	66.6	66.5	66.4	66.2	66.8	67.2	67.3	67.4	67.4	67.9	68.1	68.3	67.2
1984	68.5	68.8	69.0	69.0	69.3	69.5	69.7	70.2	70.5	70.9	71.0	71.0	69.8
1985	71.3	71.2	71.3	71.2	71.4	71.6	71.7	71.8	72.1	72.4	72.6	73.0	71.8
1986	73.4	73.5	73.7	73.9	74.3	74.7	75.0	75.1	75.4	75.8	76.1	76.5	74.8
1987	76.7	76.9	77.0	77.2	77.3	77.6	77.8	77.9	78.0	78.1	78.7	79.0	77.7
1988	79.5	79.7	79.7	79.7	80.0	80.1	80.3	80.5	80.8	81.1	81.4	81.5	80.4
1989	81.7	82.2	82.3	82.7	83.0	83.1	83.4	83.7	83.9	84.0	84.1	84.2	83.2
1990	84.5	84.6	84.8	84.9	85.1	85.4	85.8	86.0	86.0	86.0	86.3	86.3	85.5
1991	86.3	86.2	85.9	85.8	86.0	86.4	86.5	86.5	86.4	86.2	86.1	86.0	86.2
1992	86.0	86.2	86.2	86.4	86.3	86.4	86.5	86.7	86.9	87.4	87.7	88.2	86.7
1993	88.4	88.8	89.4	89.8	89.5	89.4	89.9	90.4	90.7	91.0	91.5	91.9	90.1
1994	92.2	92.4	92.5	92.6	93.0	93.4	93.8	94.2	94.7	95.2	95.9	96.6	93.9
1995	97.1	97.1	97.1	97.1	97.4	97.8	97.8	97.9	98.2	98.5	98.4	98.4	97.7
1996	98.8	99.0	99.1	99.0	99.2	99.6	100.2	100.4	100.7	100.9	100.9	101.3	100.0
1997	101.7	101.8	102.2	102.5	102.7	102.9	103.3	103.5	103.9	104.2	104.7	104.8	103.2
1998	104.9	104.7	104.8	105.0	105.3	105.9	106.2	106.5	106.6	106.9	107.3	107.9	106.0
1999 ^p	108.4	108.6	109.0	109.3	109.7	110.4	110.6	110.8	110.9	111.4	112.0	112.3	110.3
2000 ^r	113.9	114.1	114.0	114.5	114.8	115.0	115.6	115.7	116.1	116.4	116.7	117.1	115.3
2001	^p 117.8	^r 118.3	^r 118.8	^r 118.9	^p 119.2								

^pPreliminary. ^rRevised.

Table D-6. Monthly U.S. Census Bureau Implicit Price Deflator: 1964 to 2001

[1996=100]

Year	Month												Annual deflator
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	
1964	18.6	18.2	17.9	18.3	18.5	18.6	18.6	18.5	18.5	18.6	18.8	18.8	18.5
1965	18.9	18.8	18.8	18.8	19.0	19.1	19.1	19.0	19.0	19.3	19.6	19.6	19.1
1966	19.4	19.2	19.3	19.7	20.2	20.2	20.0	19.9	19.9	20.2	20.3	20.4	19.9
1967	20.3	20.2	20.3	20.3	20.4	20.4	20.6	20.6	20.7	20.8	20.9	21.1	20.6
1968	21.1	21.3	21.4	21.4	21.6	21.6	21.5	21.6	21.7	22.0	22.4	22.7	21.7
1969	22.6	22.6	22.8	22.9	23.2	23.1	23.3	23.2	23.2	23.6	23.8	24.0	23.2
1970	23.8	23.8	24.1	24.6	24.9	25.3	24.9	24.7	24.7	24.9	24.9	25.2	24.7
1971	25.0	25.7	25.8	25.9	25.9	26.1	26.2	26.7	26.7	26.8	27.0	27.2	26.3
1972	27.2	27.3	27.5	27.5	27.5	27.5	27.7	28.1	28.1	28.5	28.7	29.1	27.9
1973	29.0	29.1	29.3	29.8	29.9	30.0	30.4	30.8	31.0	31.3	31.6	31.7	30.4
1974	32.2	32.7	33.4	33.2	33.7	34.7	35.0	35.1	35.3	35.8	36.2	36.5	34.5
1975	36.9	36.9	36.9	37.2	37.6	38.0	38.0	37.8	38.1	38.2	38.4	38.6	37.8
1976	38.3	38.3	38.4	38.9	39.5	39.8	39.9	39.9	40.0	40.1	40.2	40.4	39.5
1977	40.7	41.0	41.1	41.2	41.8	42.6	42.7	43.2	43.5	43.7	44.0	44.3	42.6
1978	44.7	45.1	45.6	46.2	46.4	47.3	47.6	48.2	48.3	48.9	49.2	49.5	47.5
1979	49.7	50.1	50.4	50.9	52.2	53.1	53.5	54.4	54.4	55.2	55.4	55.6	53.1
1980	56.1	56.7	57.0	57.4	58.2	59.1	59.7	59.7	60.1	60.8	61.0	61.1	59.0
1981	61.5	61.8	62.6	62.7	63.0	63.5	63.9	64.1	64.2	64.7	64.6	64.6	63.5
1982	64.8	64.8	65.2	65.1	65.7	66.2	66.1	66.5	66.6	66.3	66.4	66.4	65.9
1983	66.8	66.7	66.6	66.4	66.7	67.0	67.1	67.1	67.1	67.6	67.6	67.7	67.1
1984	68.1	68.5	68.6	68.6	68.7	68.8	69.2	69.7	69.8	70.0	70.0	70.1	69.3
1985	70.5	70.6	70.8	70.6	70.7	70.8	70.9	71.1	71.3	71.6	71.7	71.8	71.1
1986	72.3	72.4	72.6	72.8	73.1	73.4	73.7	73.9	74.2	74.5	74.7	75.0	73.6
1987	75.3	75.4	75.4	75.7	75.8	76.2	76.5	76.6	76.7	76.9	77.3	77.5	76.3
1988	78.1	78.4	78.5	78.6	78.8	78.9	79.1	79.3	79.6	79.9	80.1	80.3	79.2
1989	80.7	81.1	81.3	81.8	82.3	82.4	82.6	82.8	83.0	83.1	83.2	83.5	82.4
1990	84.0	84.1	84.2	84.4	84.6	84.9	85.3	85.6	85.5	85.7	85.7	85.7	85.0
1991	85.6	85.6	85.2	85.4	85.6	86.0	86.2	86.3	86.3	86.2	85.9	85.9	85.9
1992	86.0	86.3	86.3	86.4	86.4	86.6	86.8	86.9	87.2	87.6	88.0	88.4	86.9
1993	88.7	89.0	89.6	89.9	89.6	89.5	90.0	90.5	90.8	91.0	91.5	91.8	90.2
1994	92.2	92.4	92.5	92.7	92.9	93.3	93.6	94.1	94.6	95.2	95.8	96.4	93.9
1995	96.9	97.0	97.0	97.2	97.4	97.8	97.9	98.0	98.4	98.5	98.6	98.7	97.8
1996	98.8	99.0	99.1	99.0	99.2	99.6	100.2	100.4	100.7	100.9	101.0	101.3	100.0
1997	101.8	101.8	102.3	102.5	102.7	102.9	103.3	103.6	103.9	104.2	104.7	104.8	103.3
1998	105.0	104.9	104.9	105.0	105.2	105.9	106.1	106.4	106.6	107.0	107.4	107.9	106.1
1999 [†]	108.5	108.6	109.0	109.3	109.8	110.3	110.5	110.8	110.8	111.3	111.8	112.1	110.4
2000 [†]	114.0	114.1	113.9	114.4	114.8	115.1	115.7	115.8	115.9	116.3	116.6	116.9	115.4
2001	[†] 117.3	[†] 117.7	[†] 118.5	[†] 118.6	[†] 118.9								

[†]Preliminary. [†]Revised.