

Value of Construction Put in Place: April 2003

Issued June 2003

C30/03-04

Monthly Value of Construction Put in Place

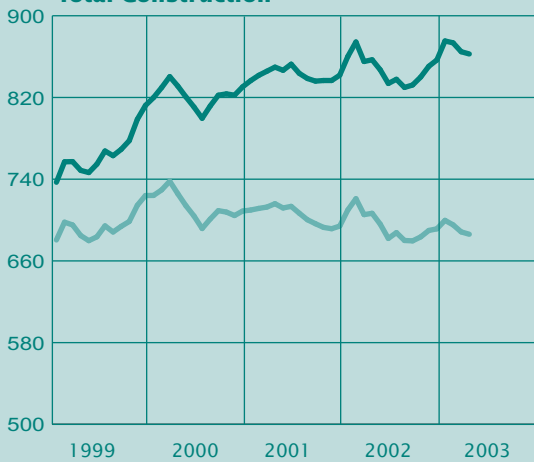
Seasonally adjusted annual rate in billions of dollars

— Current dollars
— 1996 dollars

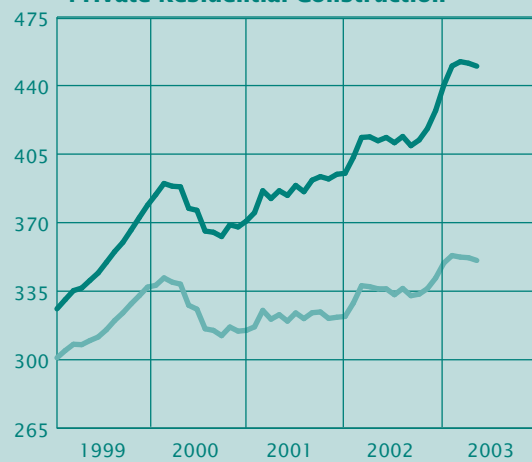
The May 2003 issue for "Value of Construction Put in Place" will be the last printed publication of this series. The current types of construction classifications and the current table formats will no longer be available. New monthly detailed types of construction will be presented in new table formats on the Internet only. Also, constant dollar series will be discontinued. For further details, see: <http://www.census.gov/const/C30/newtc.html>.

Current Construction Reports

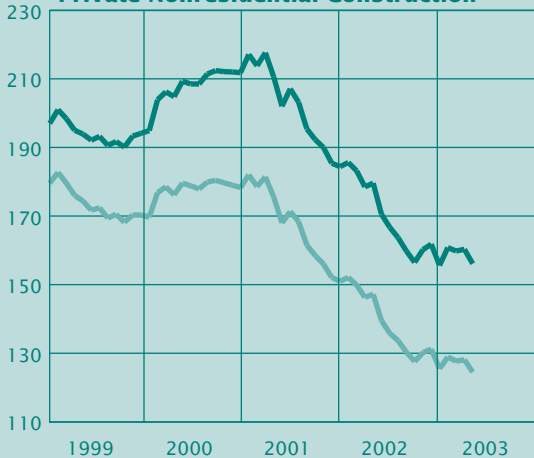
Total Construction



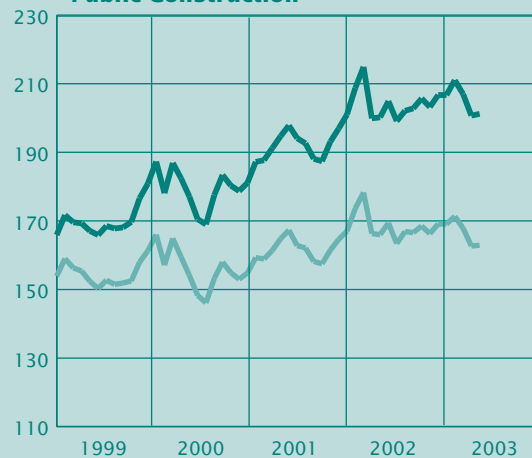
Private Residential Construction



Private Nonresidential Construction



Public Construction



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

Questions regarding these data may be directed to **Michael Davis**, Construction Expenditures Branch, Manufacturing and Construction Division, telephone: 301-763-1605.

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VALUE OF CONSTRUCTION PUT IN PLACE

Construction put in place during April 2003 was estimated at a seasonally adjusted annual rate of \$862.6 billion, 0.3 (± 4.8) percent below the revised March estimate of \$864.8 billion. The April figure is 0.7 (± 4.8) percent above April 2002.

During the first 4 months of this year \$249.6 billion of construction was put in place, 0.9 (± 4.8) percent above the \$247.4 billion for the same period in 2002.

In constant (1996) dollars, the April annual rate was \$686.1 billion, 0.3 (± 4.8) percent below the revised estimate of \$688.4 billion for March.

Spending on new residential housing units was at a seasonally adjusted annual rate of \$325.6 billion in April, 0.5 (± 1.6) percent below the revised March estimate of \$327.3 billion. Nonresidential building construction was at a rate of \$156.1 billion, 2.6 (± 3.1) percent below the revised March estimate of \$160.3 billion.

In April, the estimated seasonally adjusted annual rate of public construction put in place was \$201.2 billion, 0.2 (± 4.8) percent above the revised March estimate of \$200.7 billion.

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. Project owner’s overhead and office costs.
5. Cost of architectural and engineering work.
6. Miscellaneous costs chargeable to the project on the owner’s books.
7. Interest and taxes paid during construction.

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

ADDITIONAL DATA

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

- Current Construction Reports, *Value of Construction Put in Place: May 2002*, C30/02-5, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 2002; contains annual data for 1997 to 2001 and monthly data for 1998 to 2001.
- Current Construction Reports, *Value of Construction Put in Place: June 2002*, C30/02-6, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 2002; contains annual value of construction put in place for private nonresidential buildings by geographic area and detailed types of construction for 1995 to 2001.
- 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 1. Annual Value of Construction Put in Place: 1998-2002

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
Total construction	705,685	765,876	820,345	842,539	846,057	665,156	694,123	711,328	704,747	692,672
Private construction	551,383	596,331	641,783	650,030	642,189	519,859	540,220	556,426	542,782	524,776
Residential buildings	314,607	350,562	374,457	388,705	415,515	297,960	317,236	323,977	322,305	336,490
New housing units	223,983	251,272	265,047	279,772	296,861	212,068	227,467	229,324	232,008	240,402
1 unit	199,409	223,837	236,788	249,086	263,590	188,785	202,620	204,867	206,557	213,446
2 units or more	24,574	27,434	28,259	30,686	33,271	23,283	24,848	24,457	25,451	26,956
Improvements	90,624	99,290	109,410	108,933	(NA)	85,892	89,769	94,653	90,297	(NA)
Nonresidential buildings	190,710	193,935	208,241	201,094	167,850	177,644	173,429	178,074	166,587	136,919
Industrial	40,484	32,639	31,801	29,046	16,235	37,720	29,206	27,194	24,072	13,246
Office	42,226	47,582	55,605	52,020	37,950	39,333	42,552	47,534	43,112	30,961
Hotels, motels	14,816	15,951	16,293	14,421	10,198	13,794	14,274	13,944	11,948	8,322
Other commercial	53,598	56,915	60,381	60,297	55,934	49,915	50,870	51,635	49,933	45,624
Religious	6,594	7,371	8,019	8,310	8,303	6,139	6,590	6,858	6,880	6,772
Educational	9,698	9,645	11,375	12,629	13,562	9,039	8,621	9,726	10,454	11,062
Hospital and institutional	13,793	13,530	14,434	15,114	17,318	12,853	12,102	12,342	12,518	14,121
Miscellaneous ¹	9,501	10,301	10,332	9,259	8,350	8,850	9,214	8,841	7,670	6,811
Farm nonresidential	4,284	5,059	5,988	6,134	(NA)	3,989	4,519	5,115	5,076	(NA)
Public utilities	39,212	44,066	50,144	51,114	(NA)	37,818	42,534	46,641	46,230	(NA)
Telecommunications	12,458	18,404	18,799	18,538	16,793	12,188	18,305	18,272	17,440	15,621
Other public utilities	26,754	25,662	31,345	32,576	(NA)	25,631	24,229	28,370	28,789	(NA)
Railroads	5,736	4,670	4,263	4,149	(NA)	5,463	4,311	3,781	3,595	(NA)
Electric light and power	12,381	14,585	21,149	22,515	(NA)	11,883	13,892	19,280	19,990	(NA)
Gas	7,372	4,918	4,930	4,969	(NA)	7,072	4,625	4,411	4,374	(NA)
Petroleum pipelines	1,265	1,489	1,003	943	(NA)	1,213	1,401	897	830	(NA)
All other private ²	2,570	2,709	2,954	2,983	2,717	2,447	2,501	2,619	2,584	2,297
Public construction	154,302	169,545	178,561	192,509	203,868	145,297	153,904	154,902	161,965	167,895
Buildings	72,418	80,418	88,566	96,967	106,153	67,517	71,928	75,772	80,280	86,541
Housing and redevelopment ..	5,187	4,653	4,308	4,751	5,324	4,913	4,218	3,726	3,940	4,312
Industrial	1,010	925	1,157	1,556	1,863	941	827	990	1,288	1,519
Educational	35,001	42,427	49,814	55,752	63,059	32,589	37,904	42,588	46,148	51,425
Hospital	3,923	4,026	4,135	4,053	5,000	3,656	3,600	3,538	3,355	4,077
Other ³	27,297	28,387	29,151	30,855	30,908	25,418	25,378	24,930	25,549	25,208
Highways and streets	44,676	48,851	49,262	54,026	54,269	42,249	44,559	42,764	45,415	44,281
Military facilities	2,530	2,125	2,441	2,843	2,929	2,377	1,922	2,105	2,372	2,391
Conservation and development ..	5,466	6,088	6,063	7,122	7,805	5,237	5,682	5,494	6,371	6,832
Sewer systems	9,943	9,864	8,807	8,751	9,335	9,526	9,214	7,982	7,828	8,172
Water supply facilities	6,678	6,541	5,993	7,152	7,264	6,405	6,147	5,327	6,138	6,069
Miscellaneous public ⁴	12,591	15,658	17,429	15,648	16,112	11,985	14,453	15,459	13,561	13,610

NA Not available, but estimates are included in totals.

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

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

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

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

Table 2. Annual Value of Public Construction Put in Place: 1998-2002

[Millions of dollars]

Type of construction	Current dollars					Constant (1996) dollars				
	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
Total public construction	154,302	169,545	178,561	192,509	203,868	145,297	153,904	154,902	161,965	167,895
State and local construction	139,984	155,519	164,396	177,527	187,304	131,792	141,107	142,484	149,147	153,987
Total buildings	66,392	74,948	83,408	91,852	100,876	61,894	67,031	71,356	76,044	82,239
Housing and redevelopment	4,649	4,229	3,926	4,330	4,812	4,403	3,834	3,395	3,591	3,897
Educational	34,986	42,411	49,785	55,718	63,015	32,575	37,890	42,563	46,119	51,389
Hospital	2,914	3,175	3,413	3,389	4,207	2,715	2,838	2,920	2,805	3,431
Other ¹	23,844	25,133	26,284	28,415	28,842	22,200	22,469	22,478	23,528	23,523
Highways and streets	44,419	48,600	48,925	53,743	53,978	42,006	44,330	42,471	45,177	44,044
Conservation and development . .	1,930	2,053	2,003	2,427	2,461	1,849	1,916	1,815	2,172	2,157
Sewer systems	9,943	9,864	8,807	8,751	9,335	9,526	9,214	7,982	7,828	8,172
Water supply facilities	6,678	6,541	5,993	7,152	7,264	6,405	6,147	5,327	6,138	6,069
Miscellaneous nonbuilding ²	10,622	13,513	15,260	13,602	13,389	10,112	12,469	13,534	11,788	11,307
Federal construction	14,318	14,025	14,165	14,981	16,563	13,505	12,796	12,418	12,818	13,908
Total buildings	6,026	5,469	5,158	5,115	5,277	5,624	4,896	4,416	4,236	4,302
Housing	538	424	382	421	512	510	384	331	349	415
Industrial	1,010	925	1,157	1,556	1,863	941	827	990	1,288	1,519
Educational	15	15	29	35	44	14	14	25	29	36
Hospital	1,009	850	722	664	793	941	762	618	550	646
Other ³	3,454	3,255	2,867	2,440	2,066	3,217	2,909	2,452	2,021	1,685
Highways and streets	257	251	337	283	(NA)	243	229	292	238	(NA)
Military facilities	2,530	2,125	2,441	2,843	2,929	2,377	1,922	2,105	2,372	2,391
Conservation and development . .	3,536	4,035	4,061	4,695	5,343	3,387	3,766	3,679	4,200	4,676
Miscellaneous public ⁴	1,969	2,145	2,169	2,046	2,722	1,873	1,983	1,925	1,773	2,303

NA Not available, but estimates are included in totals.

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

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

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

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

Table 3. Monthly Value of Construction Put in Place—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																		
April 2002	247,361	191,610	117,104	85,849	75,083	10,767	56,238	5,887	13,402	3,815	18,280	2,679	4,229	5,184	2,763	(NA)	5,093	916
April 2003	249,638	193,973	129,142	96,183	85,165	11,018	49,366	4,265	10,629	3,154	16,455	2,538	4,039	5,958	2,329	(NA)	(NA)	615
Percent change	0.9	1.2	10.3	12.0	13.4	2.3	-12.2	-27.6	-20.7	-17.3	-10.0	-5.3	-4.5	14.9	-15.7	(NA)	(NA)	-32.9
MONTHLY DATA																		
2001: April	67,269	52,384	30,741	22,423	19,960	2,463	17,149	2,564	4,632	1,213	5,033	665	966	1,263	814	(NA)	1,527	200
May	73,402	56,612	34,051	24,133	21,437	2,696	17,210	2,446	4,582	1,235	5,116	682	1,031	1,301	818	(NA)	1,837	218
June	77,893	59,744	36,315	25,391	22,686	2,704	17,906	2,676	4,684	1,276	5,273	702	1,149	1,299	847	(NA)	1,596	246
July	78,176	59,659	36,265	26,138	23,511	2,627	17,597	2,601	4,369	1,286	5,443	734	1,146	1,239	780	(NA)	1,503	294
August	80,180	60,679	37,213	26,528	23,797	2,731	17,433	2,530	4,179	1,249	5,464	775	1,227	1,245	766	(NA)	1,697	310
September	77,939	59,252	36,844	25,978	23,380	2,598	16,972	2,527	4,010	1,193	5,393	751	1,146	1,253	698	(NA)	1,474	306
October	77,060	58,967	36,544	25,475	22,793	2,682	16,883	2,214	4,173	1,159	5,354	752	1,148	1,311	772	(NA)	1,639	283
November	71,783	55,295	34,215	24,456	21,761	2,694	15,846	1,924	3,889	1,120	5,058	738	1,114	1,247	758	(NA)	1,578	265
December	62,551	48,115	28,214	20,946	18,347	2,598	14,723	1,944	3,508	1,040	4,526	662	1,060	1,256	727	(NA)	1,553	270
2002: January	58,703	45,304	27,355	19,821	17,148	2,674	13,810	1,568	3,437	969	4,312	656	1,003	1,194	671	(NA)	1,190	208
February	57,051	43,613	25,681	19,279	16,768	2,511	13,636	1,439	3,216	954	4,395	643	1,022	1,275	692	(NA)	1,208	220
March	63,375	49,765	30,951	22,771	20,088	2,683	14,038	1,454	3,318	919	4,644	661	1,051	1,323	668	(NA)	1,274	234
April	68,232	52,928	33,118	23,978	21,080	2,899	14,755	1,426	3,431	973	4,929	720	1,153	1,393	731	(NA)	1,422	254
May	73,303	55,924	36,557	25,475	22,466	3,009	14,448	1,379	3,287	949	4,732	702	1,221	1,446	732	(NA)	1,473	234
June	76,250	57,829	38,506	26,519	23,639	2,881	14,368	1,435	3,177	853	4,761	694	1,202	1,499	748	(NA)	1,510	251
July	78,065	58,527	38,814	27,490	24,587	2,903	14,232	1,375	3,214	838	4,738	688	1,232	1,446	703	(NA)	1,513	206
August	79,383	58,525	38,842	27,451	24,508	2,943	14,237	1,263	3,157	777	4,876	728	1,218	1,477	740	(NA)	1,482	256
September	78,229	57,441	38,584	27,298	24,485	2,813	13,819	1,203	2,959	757	4,867	711	1,107	1,534	683	(NA)	1,273	244
October	77,189	58,161	38,623	27,091	24,310	2,782	14,247	1,265	2,980	760	4,956	735	1,190	1,626	736	(NA)	1,548	226
November	72,744	55,593	37,018	26,369	23,761	2,608	13,806	1,222	2,989	734	4,700	719	1,139	1,649	653	(NA)	1,392	212
December	63,533	48,579	31,466	23,318	20,752	2,567	12,455	1,207	2,786	715	4,025	647	1,025	1,457	593	(NA)	1,509	173
2003: January	59,978	46,136	30,661	22,714	19,995	2,719	11,920	1,045	2,631	757	3,963	626	958	1,392	549	(NA)	999	155
February	57,243	44,189	28,548	21,773	19,118	2,655	11,948	1,009	2,603	740	3,977	626	948	1,465	581	(NA)	993	130
March	63,773	50,258	33,620	25,279	22,544	2,736	12,706	1,123	2,759	825	4,199	642	1,046	1,515	596	(NA)	1,133	160
April ^a	68,644	53,390	36,313	26,418	23,509	2,909	12,792	1,088	2,635	832	4,317	644	1,087	1,586	603	(NA)	(NA)	170
PERCENT CHANGE																		
March 2003-April 2003	7.6	6.2	8.0	4.5	4.3	6.3	0.7	-3.1	-4.5	0.8	2.8	0.3	3.9	4.7	1.2	(NA)	(NA)	6.3

See footnotes at end of table.

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

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
YEAR TO DATE													
April 2002	55,750	31,149	1,545	611	17,635	1,595	9,763	12,018	807	2,482	2,739	2,061	4,494
April 2003	55,664	31,435	1,795	614	18,240	1,601	9,185	11,674	953	2,506	2,675	2,305	4,117
Percent change	-0.2	0.9	16.2	0.5	3.4	0.4	-5.9	-2.9	18.1	1.0	-2.3	11.8	-8.4
MONTHLY DATA													
2001: April	14,885	7,628	389	133	4,181	310	2,615	3,943	258	505	723	597	1,232
May	16,790	8,028	417	108	4,468	338	2,696	5,146	232	607	764	603	1,410
June	18,149	8,567	412	125	4,917	375	2,737	5,918	258	567	792	661	1,387
July	18,518	9,069	367	125	5,670	345	2,562	5,946	239	540	751	654	1,319
August	19,501	9,539	374	125	6,045	356	2,639	6,154	269	665	822	661	1,391
September	18,687	9,144	403	211	5,418	383	2,728	5,466	303	901	777	693	1,403
October	18,093	8,884	444	77	5,205	356	2,802	5,634	196	517	811	657	1,394
November	16,488	8,228	427	115	4,629	350	2,707	4,601	245	607	803	649	1,355
December	14,436	7,809	429	198	4,304	353	2,525	3,310	220	570	659	583	1,286
2002: January	13,399	7,523	375	112	4,228	421	2,386	2,978	188	577	656	491	986
February	13,439	7,646	378	174	4,311	383	2,402	2,767	183	613	661	494	1,074
March	13,610	7,632	377	154	4,287	393	2,421	2,761	222	665	691	503	1,136
April	15,303	8,348	415	171	4,809	398	2,554	3,512	214	628	731	573	1,298
May	17,379	8,924	431	165	5,329	400	2,599	4,652	264	619	835	655	1,430
June	18,421	9,417	488	164	5,682	395	2,689	5,226	260	611	853	664	1,391
July	19,538	9,791	475	155	6,203	409	2,549	5,973	283	599	840	629	1,424
August	20,858	10,456	512	187	6,606	429	2,723	6,390	246	689	895	651	1,532
September	20,787	10,060	509	152	6,177	485	2,737	6,312	334	920	863	687	1,613
October	19,028	9,531	453	115	5,704	429	2,830	5,672	182	589	846	711	1,497
November	17,151	8,815	461	159	5,104	432	2,659	4,523	256	647	796	632	1,483
December	14,954	8,011	451	155	4,621	428	2,357	3,504	299	649	668	575	1,248
2003: January	13,843	7,927	442	171	4,637	387	2,290	2,823	243	608	644	554	1,043
February ^f	13,054	7,554	420	138	4,314	416	2,266	2,508	232	587	645	572	957
March ^f	13,514	7,760	442	155	4,519	408	2,236	2,723	240	615	652	561	963
April ^p	15,253	8,194	490	151	4,769	390	2,393	3,621	238	695	733	617	1,154
PERCENT CHANGE													
March 2003- April 2003	12.9	5.6	10.9	-2.6	5.5	-4.4	7.0	33.0	-0.8	13.0	12.4	10.0	19.8

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

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

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

[Millions of dollars]

Period	Total construction	Private construction																All other private ⁵	
		Residential buildings						Nonresidential buildings								Public utilities ⁴			
		Total ¹	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													
2001: April	849,713	654,974	386,325	276,878	246,933	29,945	210,578	32,250	55,922	14,426	62,976	8,434	12,191	14,900	9,479	(NA)	19,573	2,660	
May	846,591	648,790	383,942	279,266	248,546	30,720	201,972	29,057	52,413	14,470	60,726	8,311	11,927	15,442	9,625	(NA)	21,483	2,746	
June	852,562	658,421	388,982	280,286	249,757	30,528	207,149	30,995	54,998	14,982	60,031	8,722	12,028	15,463	9,929	(NA)	18,578	2,922	
July	843,603	651,016	385,816	280,964	250,562	30,402	203,223	30,210	51,854	15,230	61,044	8,728	11,744	15,192	9,220	(NA)	17,987	3,283	
August	838,638	650,576	391,687	282,284	251,596	30,688	195,449	29,026	48,167	14,593	59,125	8,627	12,369	14,641	8,901	(NA)	18,098	3,166	
September	835,965	648,548	393,476	281,648	251,174	30,474	192,259	28,611	46,996	14,312	58,297	8,309	12,927	14,672	8,134	(NA)	18,064	3,256	
October	836,571	643,432	392,337	281,554	250,931	30,623	190,048	24,599	47,739	13,581	58,459	8,008	13,725	15,128	8,809	(NA)	17,280	2,969	
November	836,550	639,681	394,732	282,237	250,130	32,107	185,395	22,459	45,614	13,314	58,534	8,206	13,896	14,468	8,903	(NA)	17,071	3,019	
December	841,809	640,795	395,218	283,115	250,190	32,925	184,358	23,011	44,036	12,651	58,021	8,092	14,306	15,253	8,989	(NA)	18,249	3,143	
2002: January	860,238	651,536	403,277	286,931	251,555	35,376	185,613	20,883	44,158	12,261	61,311	8,406	14,223	15,358	9,012	(NA)	16,993	2,972	
February	874,310	659,372	413,482	293,819	259,961	33,858	183,208	19,552	41,677	12,177	61,473	8,678	14,427	16,184	9,040	(NA)	17,210	3,247	
March	855,224	655,341	413,815	295,407	261,730	33,677	178,545	18,463	40,963	11,440	60,838	8,792	13,951	15,998	8,098	(NA)	16,488	3,163	
April	856,914	656,682	411,828	295,645	260,509	35,136	179,575	17,548	40,800	11,285	61,416	8,919	14,539	16,520	8,549	(NA)	17,448	3,388	
May	847,098	642,165	413,524	294,897	260,473	34,424	170,498	16,613	37,890	11,202	56,160	8,822	14,107	17,114	8,589	(NA)	17,279	2,962	
June	833,700	634,564	410,802	292,801	260,004	32,797	166,684	16,738	37,853	10,070	54,408	8,454	12,651	17,770	8,741	(NA)	18,392	2,993	
July	837,774	635,706	414,047	295,159	261,793	33,367	163,740	15,830	37,809	9,825	53,336	8,171	12,775	17,656	8,338	(NA)	17,344	2,301	
August	829,808	627,052	409,257	292,725	259,348	33,377	159,775	14,618	36,713	9,100	52,999	8,031	12,355	17,394	8,567	(NA)	16,392	2,627	
September	832,156	626,450	412,172	296,721	263,757	32,965	156,543	13,785	34,542	8,999	52,753	7,903	12,611	17,956	7,994	(NA)	15,235	2,590	
October	840,020	636,786	418,002	299,727	267,877	31,850	160,232	14,213	34,189	8,892	54,012	7,711	14,203	18,616	8,395	(NA)	16,354	2,419	
November	850,516	643,770	427,174	304,768	273,380	31,388	161,785	14,308	35,229	8,984	54,180	8,198	14,094	19,083	7,709	(NA)	15,668	2,419	
December	856,684	649,985	440,229	314,709	282,014	32,696	155,589	13,954	34,504	8,771	51,659	7,884	13,758	17,682	7,377	(NA)	16,731	2,033	
2003: January	875,339	664,302	450,015	326,959	291,188	35,771	160,844	14,163	33,915	9,666	56,008	8,251	13,541	17,902	7,398	(NA)	14,388	2,218	
February ^f	873,526	666,509	452,172	327,106	291,505	35,600	159,835	13,693	33,691	9,422	55,102	8,384	13,385	18,584	7,576	(NA)	14,388	1,920	
March ^f	864,847	664,130	451,352	327,321	293,090	34,231	160,346	14,281	33,927	9,819	54,536	8,275	13,853	18,421	7,234	(NA)	14,975	2,176	
April ^p	862,560	661,366	449,906	325,564	290,833	34,731	156,133	13,257	31,435	9,821	53,904	8,087	13,687	18,848	7,093	(NA)	(NA)	2,230	
PERCENT CHANGE																			
March 2003-																			
April 2003	-0.3	-0.4	-0.3	-0.5	-0.8	1.5	-2.6	-7.2	-7.3	(Z)	-1.2	-2.3	-1.2	2.3	-1.9	(NA)	(NA)	2.5	

See footnotes at end of table.

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

[Millions of dollars]

Period		Public construction												
		Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
			Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
2001:	April	194,739	96,586	4,669	1,636	54,887	3,826	31,568	56,199	3,262	6,553	9,022	7,318	15,799
	May	197,802	97,062	4,867	1,365	55,444	4,017	31,369	57,932	2,754	7,384	8,952	6,960	16,757
	June	194,141	94,894	4,769	1,454	52,634	4,308	31,730	57,828	2,965	6,586	8,691	7,581	15,596
	July	192,587	96,819	4,418	1,469	56,614	4,087	30,230	56,181	2,802	6,432	8,469	7,233	14,652
	August	188,062	96,884	4,463	1,509	56,856	4,198	29,858	50,965	3,110	7,005	8,744	7,231	14,124
	September	187,417	97,807	4,473	1,896	56,727	4,184	30,527	49,432	2,900	7,564	8,235	7,546	13,932
	October	193,140	100,977	5,000	1,048	59,262	4,025	31,642	51,612	2,894	7,239	8,586	6,772	15,060
	November	196,869	100,295	5,008	1,417	58,347	4,145	31,377	54,183	2,838	7,115	9,218	7,381	15,840
	December	201,014	102,071	5,267	2,308	58,088	4,385	32,023	55,250	2,559	7,461	8,881	7,636	17,155
2002:	January	208,702	104,647	4,943	1,470	61,052	5,375	31,808	61,726	2,481	8,159	9,536	7,270	14,884
	February	214,938	108,858	5,172	2,321	63,861	5,068	32,435	61,726	2,533	8,661	9,884	7,197	16,078
	March	199,882	103,940	4,806	1,876	60,875	5,017	31,366	52,418	2,609	8,693	9,334	6,935	15,953
	April	200,232	105,468	5,096	2,097	62,789	4,845	30,641	51,456	2,720	7,885	9,192	7,091	16,419
	May	204,932	108,406	5,137	2,056	65,856	4,759	30,599	51,881	3,094	7,378	9,773	7,572	16,827
	June	199,136	104,528	5,672	1,896	61,156	4,657	31,148	51,401	2,962	7,343	9,376	7,570	15,957
	July	202,068	104,901	5,724	1,841	62,292	4,813	30,231	54,548	3,318	6,975	9,477	6,963	15,886
	August	202,757	106,320	6,017	2,231	62,423	5,093	30,554	53,806	2,845	7,505	9,487	7,080	15,715
	September	205,706	107,712	5,594	1,383	64,837	5,308	30,591	54,728	3,141	7,692	9,158	7,424	15,850
	October	203,234	107,652	5,070	1,557	65,000	4,841	31,183	52,036	2,721	8,347	8,987	7,340	16,151
	November	206,747	108,087	5,369	1,963	64,400	5,176	31,178	54,490	2,983	7,734	9,113	7,193	17,146
	December	206,699	105,382	5,507	1,830	63,438	5,165	29,442	56,668	3,428	8,191	9,050	7,477	16,502
2003:	January	211,037	110,011	5,784	2,234	66,480	4,894	30,620	56,360	3,210	8,303	9,315	8,143	15,695
	February	207,017	107,004	5,738	1,845	63,364	5,456	30,601	56,243	3,217	8,130	9,588	8,281	14,553
	March ^f	200,717	105,596	5,699	1,892	63,718	5,162	29,124	53,736	2,848	8,054	8,876	7,752	13,856
	April ^g	201,194	103,801	5,973	1,858	62,407	4,749	28,814	54,321	3,034	8,597	9,220	7,621	14,600
PERCENT CHANGE														
	March 2003- April 2003	0.2	-1.7	4.8	-1.8	-2.1	-8.0	-1.1	1.1	6.5	6.7	3.9	-1.7	5.4

NA Not available, but estimates are included in totals. ^PPreliminary. ^RRevised. Z Less than 0.05 percent.

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

Table 5. Monthly Value of Construction Put in Place—Seasonally Adjusted Annual Rate in 1996 Dollars

[Millions of dollars]

Period		Total construction	Private construction															All other private ⁵	
			Residential buildings						Nonresidential buildings								Public utilities ⁴		
			Total ¹	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												
2001:	April	716,029	551,191	323,015	231,503	206,466	25,038	175,628	26,898	46,640	12,032	52,523	7,034	10,167	12,427	7,906	(NA)	18,588	2,317
	May	711,763	544,487	319,685	232,528	206,949	25,579	168,030	24,174	43,605	12,039	50,521	6,914	9,923	12,847	8,007	(NA)	20,325	2,392
	June	713,399	550,625	323,882	233,377	207,958	25,419	171,339	25,637	45,491	12,392	49,653	7,214	9,949	12,790	8,213	(NA)	17,331	2,517
	July	706,674	544,590	320,979	233,747	208,455	25,292	168,370	25,029	42,961	12,618	50,575	7,231	9,730	12,586	7,639	(NA)	16,826	2,845
	August	700,283	542,067	323,976	233,485	208,103	25,383	161,528	23,988	39,808	12,060	48,863	7,130	10,222	12,100	7,356	(NA)	16,930	2,748
	September	696,376	538,850	324,383	232,191	207,068	25,123	158,499	23,587	38,743	11,799	48,060	6,850	10,657	12,095	6,706	(NA)	16,882	2,829
	October	692,794	531,338	321,061	230,405	205,345	25,060	156,033	20,196	39,195	11,150	47,996	6,575	11,268	12,420	7,232	(NA)	16,149	2,566
	November	691,484	526,856	321,705	230,022	203,855	26,167	152,088	18,424	37,419	10,922	48,018	6,732	11,400	11,869	7,304	(NA)	16,044	2,614
	December	694,083	527,116	322,101	230,738	203,904	26,833	150,989	18,846	36,066	10,361	47,519	6,627	11,716	12,492	7,362	(NA)	16,976	2,689
2002:	January	709,933	536,341	328,937	234,038	205,184	28,854	152,142	17,118	36,195	10,050	50,255	6,891	11,658	12,589	7,387	(NA)	15,837	2,549
	February	720,947	542,691	337,812	240,048	212,387	27,661	149,925	16,000	34,106	9,965	50,305	7,102	11,806	13,244	7,398	(NA)	15,936	2,773
	March	705,281	538,997	337,257	240,755	213,309	27,446	146,348	15,134	33,576	9,377	49,868	7,207	11,436	13,113	6,638	(NA)	15,338	2,710
	April	706,625	540,593	336,186	241,342	212,660	28,682	147,193	14,384	33,443	9,250	50,341	7,311	11,917	13,541	7,007	(NA)	16,231	2,886
	May	696,048	526,634	336,199	239,753	211,767	27,987	139,524	13,595	31,007	9,167	45,958	7,219	11,544	14,005	7,029	(NA)	16,088	2,512
	June	681,990	518,589	333,173	237,471	210,871	26,600	135,847	13,642	30,850	8,207	44,342	6,890	10,310	14,482	7,124	(NA)	16,983	2,511
	July	687,693	520,785	336,350	239,772	212,667	27,105	133,666	12,923	30,865	8,021	43,539	6,670	10,428	14,413	6,807	(NA)	16,271	1,955
	August	679,957	513,375	332,729	237,988	210,852	27,135	130,322	11,923	29,945	7,423	43,229	6,550	10,078	14,187	6,987	(NA)	15,234	2,208
	September	679,602	511,069	333,473	240,066	213,395	26,671	127,582	11,234	28,152	7,334	42,994	6,441	10,278	14,634	6,515	(NA)	14,185	2,166
	October	683,541	517,263	336,285	241,132	215,508	25,624	130,164	11,546	27,773	7,224	43,877	6,264	11,538	15,123	6,820	(NA)	15,242	2,023
	November	689,763	520,615	341,739	243,814	218,704	25,110	131,212	11,604	28,572	7,286	43,941	6,649	11,431	15,477	6,252	(NA)	14,629	2,028
	December	691,361	522,259	349,388	249,769	223,820	25,949	125,475	11,253	27,826	7,073	41,661	6,358	11,095	14,260	5,949	(NA)	15,478	1,707
2003:	January	699,706	528,432	353,230	256,640	228,562	28,078	128,882	11,348	27,175	7,745	44,879	6,611	10,850	14,345	5,928	(NA)	13,152	1,845
	February ^f	695,341	527,439	352,433	254,954	227,206	27,748	127,664	10,937	26,909	7,525	44,011	6,696	10,691	14,843	6,051	(NA)	13,164	1,601
	March ^f	688,398	525,733	352,069	255,320	228,619	26,701	128,072	11,406	27,098	7,843	43,559	6,609	11,065	14,713	5,778	(NA)	13,676	1,812
	April ^g	686,119	523,200	350,667	253,752	226,682	27,070	124,508	10,572	25,068	7,832	42,986	6,449	10,915	15,031	5,656	(NA)	(NA)	1,855
PERCENT CHANGE																			
	March 2003-																		
	April 2003	-0.3	-0.5	-0.4	-0.6	-0.8	1.4	-2.8	-7.3	-7.5	-0.1	-1.3	-2.4	-1.4	2.2	-2.1	(NA)	(NA)	2.4

See footnotes at end of table.

Table 5. **Monthly Value of Construction Put in Place—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
2001:	April	164,838	80,565	3,904	1,364	45,778	3,191	26,329	47,385	2,737	5,904	8,128	6,358	13,762
	May	167,276	80,754	4,053	1,136	46,126	3,342	26,097	48,929	2,309	6,634	8,043	6,010	14,597
	June	162,774	78,516	3,971	1,203	43,535	3,563	26,245	48,351	2,467	5,844	7,712	6,452	13,434
	July	162,084	80,229	3,676	1,217	46,905	3,386	25,046	47,370	2,340	5,732	7,548	6,166	12,697
	August	158,216	80,073	3,691	1,247	46,988	3,470	24,676	43,081	2,600	6,249	7,800	6,154	12,260
	September	157,526	80,632	3,687	1,563	46,766	3,449	25,167	41,856	2,423	6,748	7,346	6,417	12,104
	October	161,456	82,891	4,091	861	48,656	3,305	25,978	43,262	2,401	6,457	7,660	5,768	13,017
	November	164,629	82,249	4,082	1,163	47,865	3,400	25,740	45,341	2,352	6,381	8,267	6,325	13,714
	December	166,967	83,575	4,292	1,890	47,574	3,592	26,227	45,624	2,105	6,621	7,881	6,488	14,675
2002:	January	173,592	85,756	4,032	1,205	50,043	4,405	26,072	51,098	2,043	7,259	8,484	6,187	12,765
	February	178,255	89,075	4,226	1,899	52,259	4,147	26,543	50,845	2,080	7,671	8,755	6,099	13,730
	March	166,284	85,174	3,917	1,538	49,897	4,113	25,710	43,357	2,147	7,734	8,304	5,897	13,670
	April	166,032	86,432	4,160	1,719	51,467	3,971	25,115	42,316	2,233	6,965	8,121	5,979	13,986
	May	169,414	88,685	4,176	1,682	53,892	3,895	25,040	42,491	2,534	6,489	8,596	6,347	14,272
	June	163,401	85,167	4,600	1,545	49,842	3,795	25,385	41,654	2,406	6,379	8,146	6,261	13,387
	July	166,907	85,611	4,650	1,503	50,851	3,929	24,678	44,785	2,715	6,140	8,342	5,817	13,497
	August	166,582	86,705	4,892	1,820	50,916	4,154	24,922	43,709	2,315	6,537	8,264	5,847	13,206
	September	168,533	87,752	4,526	1,127	52,842	4,326	24,931	44,243	2,550	6,666	7,935	6,135	13,252
	October	166,278	87,411	4,079	1,265	52,803	3,933	25,332	42,066	2,205	7,233	7,788	6,071	13,504
	November	169,148	87,602	4,295	1,592	52,231	4,198	25,286	44,158	2,419	6,719	7,918	5,960	14,372
	December	169,102	84,915	4,370	1,476	51,159	4,166	23,744	46,450	2,787	7,049	7,788	6,257	13,856
2003:	January	171,274	88,055	4,540	1,790	53,269	3,921	24,535	45,784	2,588	7,079	7,941	6,769	13,057
	February ^f	167,902	85,356	4,472	1,474	50,610	4,358	24,442	45,763	2,594	6,949	8,195	6,907	12,138
	March ^f	162,665	84,235	4,445	1,511	50,893	4,123	23,262	43,687	2,295	6,872	7,574	6,466	11,537
	April ^p	162,920	82,668	4,656	1,482	49,767	3,787	22,977	44,128	2,443	7,329	7,860	6,346	12,146
PERCENT CHANGE														
	March 2003- April 2003	0.2	-1.9	4.7	-1.9	-2.2	-8.1	-1.2	1.0	6.4	6.7	3.8	-1.9	5.3

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

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

Table 6. Monthly Value of Construction Put in Place—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																		
April 2002	204,013	157,695	95,553	70,050	61,265	8,786	46,078	4,823	10,981	3,126	14,979	2,195	3,464	4,248	2,264	(NA)	4,735	784
April 2003	198,836	153,727	100,846	75,107	66,504	8,605	39,444	3,408	8,493	2,520	13,147	2,028	3,227	4,760	1,861	(NA)	(NA)	512
Percent change	-2.5	-2.5	5.5	7.2	8.6	-2.1	-14.4	-29.3	-22.7	-19.4	-12.2	-7.6	-6.8	12.1	-17.8	(NA)	(NA)	-34.7
MONTHLY DATA																		
2001: April	56,675	44,074	25,704	18,749	16,689	2,059	14,303	2,138	3,863	1,012	4,197	555	806	1,053	679	(NA)	1,450	174
May	61,705	47,504	28,352	20,094	17,849	2,245	14,318	2,035	3,812	1,027	4,256	567	857	1,082	681	(NA)	1,738	190
June	65,172	49,959	30,237	21,141	18,890	2,252	14,810	2,213	3,874	1,055	4,361	581	950	1,074	701	(NA)	1,489	212
July	65,487	49,908	30,171	21,746	19,560	2,186	14,579	2,155	3,619	1,065	4,510	608	949	1,027	646	(NA)	1,406	255
August	66,970	50,563	30,780	21,942	19,683	2,259	14,408	2,091	3,453	1,032	4,516	640	1,014	1,029	633	(NA)	1,587	269
September	64,926	49,201	30,374	21,416	19,275	2,142	13,992	2,084	3,306	983	4,446	619	945	1,033	576	(NA)	1,377	266
October	63,818	48,691	29,905	20,847	18,652	2,195	13,861	1,818	3,426	951	4,396	617	943	1,076	633	(NA)	1,531	245
November	59,346	45,552	27,885	19,931	17,735	2,196	13,000	1,578	3,190	918	4,150	605	914	1,023	621	(NA)	1,483	230
December	51,616	39,622	22,994	17,071	14,953	2,118	12,058	1,592	2,873	851	3,706	542	868	1,029	596	(NA)	1,444	231
2002: January	48,431	37,286	22,312	16,168	13,987	2,181	11,319	1,285	2,817	794	3,535	537	822	979	550	(NA)	1,109	179
February	47,060	35,909	20,981	15,750	13,699	2,052	11,158	1,177	2,632	781	3,597	526	836	1,043	567	(NA)	1,118	188
March	52,263	40,935	25,225	18,558	16,371	2,187	11,506	1,192	2,720	753	3,807	542	861	1,084	548	(NA)	1,185	200
April	56,259	43,565	27,035	19,574	17,208	2,366	12,095	1,169	2,812	798	4,040	590	945	1,142	599	(NA)	1,323	217
May	60,221	45,854	29,721	20,711	18,265	2,447	11,823	1,128	2,690	777	3,872	575	1,000	1,183	599	(NA)	1,372	198
June	62,343	47,237	31,230	21,508	19,172	2,336	11,710	1,170	2,589	696	3,880	566	979	1,221	610	(NA)	1,394	210
July	64,072	47,944	31,530	22,331	19,973	2,358	11,618	1,122	2,624	684	3,868	561	1,005	1,181	573	(NA)	1,420	175
August	65,031	47,909	31,579	22,318	19,926	2,392	11,613	1,030	2,575	634	3,977	594	993	1,205	604	(NA)	1,377	215
September	63,867	46,837	31,217	22,086	19,810	2,276	11,263	980	2,412	617	3,966	580	902	1,250	556	(NA)	1,186	204
October	62,798	47,242	31,073	21,795	19,557	2,238	11,573	1,028	2,421	618	4,026	597	966	1,321	598	(NA)	1,443	189
November	58,997	44,960	29,615	21,095	19,009	2,086	11,197	991	2,424	595	3,812	583	924	1,337	530	(NA)	1,300	177
December	51,330	39,098	24,973	18,506	16,469	2,037	10,044	973	2,247	576	3,246	521	827	1,175	478	(NA)	1,396	146
2003: January	47,929	36,700	24,067	17,828	15,695	2,134	9,551	837	2,108	607	3,175	501	768	1,115	440	(NA)	913	129
February	45,586	35,005	22,251	16,970	14,901	2,070	9,543	806	2,079	591	3,176	500	757	1,170	464	(NA)	908	108
March	50,744	39,796	26,225	19,718	17,585	2,134	10,149	897	2,204	659	3,354	513	835	1,210	476	(NA)	1,035	133
April ⁶	54,577	42,226	28,303	20,591	18,323	2,267	10,201	868	2,102	663	3,442	514	867	1,265	481	(NA)	(NA)	142
PERCENT CHANGE																		
March 2003-April 2003	7.6	6.1	7.9	4.4	4.2	6.2	0.5	-3.2	-4.6	0.6	2.6	0.2	3.8	4.5	1.1	(NA)	(NA)	6.8

See footnotes at end of table.

Table 6. **Monthly Value of Construction Put in Place—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													
April 2002	46,318	25,517	1,260	500	14,450	1,307	8,000	9,916	663	2,203	2,431	1,748	3,841
April 2003	45,110	25,085	1,402	491	14,574	1,279	7,339	9,488	768	2,139	2,282	1,919	3,428
Percent change	-2.6	-1.7	11.3	-1.8	0.9	-2.1	-8.3	-4.3	15.8	-2.9	-6.1	9.8	-10.8
MONTHLY DATA													
2001: April	12,601	6,363	326	111	3,487	258	2,181	3,325	216	455	651	519	1,073
May	14,201	6,679	347	90	3,717	282	2,243	4,347	194	546	686	521	1,228
June	15,213	7,088	343	104	4,067	311	2,264	4,948	214	503	702	563	1,195
July	15,579	7,515	305	103	4,698	286	2,123	5,013	199	481	669	558	1,143
August	16,407	7,884	310	103	4,996	294	2,181	5,202	225	593	733	563	1,207
September	15,725	7,538	333	174	4,467	316	2,249	4,629	253	804	693	589	1,219
October	15,127	7,292	363	63	4,273	293	2,300	4,723	162	461	723	560	1,205
November	13,794	6,747	348	95	3,797	287	2,220	3,850	203	545	720	556	1,173
December	11,993	6,394	350	162	3,525	289	2,068	2,734	181	506	584	495	1,100
2002: January	11,145	6,165	306	92	3,466	345	1,956	2,465	154	513	584	418	845
February	11,151	6,257	308	142	3,528	313	1,965	2,280	150	543	586	419	917
March	11,328	6,254	307	126	3,514	322	1,985	2,283	183	592	615	428	973
April	12,694	6,841	339	140	3,942	327	2,094	2,888	176	555	646	483	1,106
May	14,367	7,300	351	135	4,361	327	2,127	3,810	216	545	734	549	1,213
June	15,106	7,673	395	133	4,631	322	2,192	4,235	211	531	741	549	1,167
July	16,128	7,990	386	127	5,063	334	2,081	4,904	232	527	739	525	1,210
August	17,122	8,527	416	152	5,388	350	2,221	5,190	200	600	780	537	1,287
September	17,030	8,196	412	124	5,034	395	2,231	5,103	271	797	748	568	1,348
October	15,555	7,739	365	93	4,633	348	2,299	4,585	147	511	733	588	1,252
November	14,037	7,144	369	129	4,139	350	2,157	3,665	207	562	691	523	1,243
December	12,232	6,455	358	125	3,726	345	1,901	2,872	243	558	575	481	1,048
2003: January	11,230	6,345	347	137	3,716	310	1,835	2,293	196	519	549	460	868
February ^f	10,581	6,025	328	110	3,446	332	1,810	2,040	187	502	551	477	798
March ^f	10,948	6,190	345	124	3,609	326	1,786	2,213	193	525	557	468	802
April ^p	12,351	6,525	382	120	3,803	311	1,908	2,942	192	593	625	514	960
PERCENT CHANGE													
March 2003- April 2003	12.8	5.4	10.7	-3.2	5.4	-4.6	6.8	32.9	-0.5	13.0	12.2	9.8	19.7

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

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

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

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
2001:	April	13,719	7,231	364	4,177	267	2,423	3,922	196	723	597	1,051
	May	15,573	7,634	378	4,465	279	2,512	5,130	226	764	603	1,216
	June	16,865	8,108	376	4,915	290	2,527	5,888	200	792	661	1,216
	July	17,330	8,638	333	5,668	280	2,358	5,915	203	751	654	1,169
	August	18,181	9,108	341	6,042	297	2,428	6,119	232	822	661	1,239
	September	16,906	8,565	372	5,413	287	2,494	5,435	203	777	693	1,233
	October	17,015	8,507	400	5,202	313	2,592	5,603	189	811	657	1,248
	November	15,250	7,833	390	4,628	303	2,511	4,577	215	803	649	1,174
	December	13,167	7,346	390	4,301	318	2,338	3,293	179	659	583	1,108
2002:	January	12,222	7,124	341	4,224	346	2,214	2,964	195	656	491	791
	February	12,133	7,199	329	4,309	307	2,254	2,753	198	661	494	827
	March	12,247	7,212	337	4,285	338	2,252	2,745	211	691	503	886
	April	13,972	7,899	372	4,804	349	2,374	3,492	236	731	573	1,042
	May	15,973	8,460	399	5,323	336	2,403	4,626	226	835	655	1,171
	June	17,029	8,971	443	5,677	334	2,517	5,197	207	853	664	1,137
	July	18,163	9,336	439	6,199	335	2,364	5,941	220	840	629	1,198
	August	19,434	9,980	458	6,603	355	2,565	6,356	224	895	651	1,328
	September	18,988	9,575	458	6,171	400	2,548	6,279	221	863	687	1,363
	October	17,888	9,157	409	5,703	381	2,665	5,641	186	846	711	1,345
	November	15,764	8,369	416	5,101	358	2,493	4,499	179	796	632	1,290
	December	13,494	7,594	413	4,618	369	2,195	3,486	158	668	575	1,013
2003:	January	12,509	7,507	402	4,633	344	2,129	2,809	147	644	554	848
	February ^f	11,828	7,192	395	4,313	362	2,123	2,493	117	645	572	810
	March ^f	12,269	7,365	405	4,517	359	2,084	2,706	128	652	561	857
	April ^p	13,934	7,841	457	4,767	351	2,266	3,600	147	733	617	996
		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
2001:	April	1,166	397	26	133	4	43	193	(NA)	258	309	181
	May	1,217	394	40	108	2	59	184	(NA)	232	381	194
	June	1,284	459	37	125	2	85	210	(NA)	258	366	171
	July	1,187	431	34	125	3	65	204	(NA)	239	337	150
	August	1,320	431	33	125	3	59	211	(NA)	269	433	152
	September	1,781	579	32	211	5	97	234	(NA)	303	698	171
	October	1,078	377	44	77	3	44	210	(NA)	196	328	146
	November	1,237	395	37	115	1	46	196	(NA)	245	392	181
	December	1,269	463	40	198	3	36	187	(NA)	220	391	178
2002:	January	1,177	399	34	112	5	75	173	(NA)	188	382	195
	February	1,306	448	49	174	2	76	148	(NA)	183	415	247
	March	1,363	420	41	154	2	54	169	(NA)	222	454	250
	April	1,331	448	44	171	5	49	180	(NA)	214	392	257
	May	1,406	464	33	165	6	64	196	(NA)	264	393	259
	June	1,392	446	44	164	5	61	172	(NA)	260	404	253
	July	1,376	454	36	155	4	74	186	(NA)	283	379	227
	August	1,425	476	54	187	3	74	159	(NA)	246	465	204
	September	1,800	485	51	152	6	85	190	(NA)	334	699	250
	October	1,141	373	44	115	1	48	165	(NA)	182	403	152
	November	1,387	446	45	159	3	74	166	(NA)	256	468	193
	December	1,460	417	38	155	3	59	162	(NA)	299	491	235
2003:	January	1,334	420	40	171	5	43	162	(NA)	243	461	195
	February ^f	1,226	362	26	138	2	55	142	(NA)	232	470	148
	March ^f	1,245	396	37	155	2	49	152	(NA)	240	487	106
	April ^p	1,319	353	34	151	3	39	127	(NA)	238	549	158

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

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

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

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
2001:	April	179,850	91,681	4,349	54,844	3,296	29,192	55,900	2,500	9,022	7,318	13,430
	May	182,782	92,089	4,368	55,413	3,268	29,039	57,752	2,672	8,952	6,960	14,357
	June	179,180	89,573	4,342	52,612	3,322	29,297	57,535	2,235	8,691	7,581	13,566
	July	178,321	91,733	4,012	56,581	3,316	27,824	55,888	2,222	8,469	7,233	12,776
	August	173,149	91,680	4,064	56,819	3,487	27,309	50,675	2,338	8,744	7,231	12,483
	September	172,200	92,606	4,187	56,681	3,315	28,423	49,152	2,073	8,235	7,546	12,588
	October	177,164	95,866	4,404	59,226	3,434	28,801	51,328	1,926	8,586	6,772	12,686
	November	182,169	95,443	4,556	58,337	3,576	28,973	53,900	2,512	9,218	7,381	13,715
	December	185,409	96,669	4,804	58,051	3,971	29,843	54,966	2,399	8,881	7,636	14,857
2002:	January	192,959	99,431	4,494	60,992	4,396	29,549	61,436	3,026	9,536	7,270	12,260
	February	197,152	102,866	4,520	63,836	4,054	30,457	61,414	3,053	9,884	7,197	12,738
	March	183,124	98,830	4,313	60,848	4,357	29,311	52,115	3,060	9,334	6,935	12,850
	April	183,624	99,969	4,562	62,733	4,240	28,434	51,163	2,995	9,192	7,091	13,214
	May	187,926	102,634	4,730	65,778	3,970	28,157	51,591	2,649	9,773	7,572	13,706
	June	182,563	99,359	5,158	61,096	3,951	29,153	51,116	2,328	9,376	7,570	12,815
	July	185,778	99,508	5,301	62,248	3,931	28,027	54,256	2,413	9,477	6,963	13,162
	August	186,393	100,626	5,371	62,389	4,209	28,657	53,520	2,264	9,487	7,080	13,416
	September	190,496	103,313	5,128	64,782	4,535	28,867	54,442	2,255	9,158	7,424	13,904
	October	186,281	102,588	4,468	64,989	4,188	28,942	51,751	1,900	8,987	7,340	13,714
	November	189,940	102,581	4,819	64,367	4,269	29,127	54,201	2,054	9,113	7,193	14,797
	December	189,070	100,450	5,056	63,402	4,468	27,524	56,377	2,117	9,050	7,477	13,599
2003:	January	193,482	104,512	5,256	66,417	4,332	28,507	56,081	2,284	9,315	8,143	13,147
	February ^F	190,320	102,155	5,396	63,341	4,725	28,692	55,907	1,819	9,588	8,281	12,570
	March ^F	185,179	100,775	5,247	63,692	4,569	27,268	53,400	1,866	8,876	7,752	12,509
	April ^P	184,825	99,450	5,558	62,376	4,268	27,248	54,006	1,866	9,220	7,621	12,661
		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
2001:	April	14,889	4,905	320	1,636	43	530	2,377	(NA)	3,262	4,054	2,369
	May	15,020	4,973	499	1,365	30	749	2,329	(NA)	2,754	4,712	2,400
	June	14,961	5,321	427	1,454	22	986	2,432	(NA)	2,965	4,351	2,030
	July	14,266	5,086	406	1,469	33	772	2,406	(NA)	2,802	4,210	1,876
	August	14,913	5,204	398	1,509	36	711	2,550	(NA)	3,110	4,667	1,641
	September	15,217	5,201	286	1,896	47	868	2,104	(NA)	2,900	5,491	1,344
	October	15,976	5,112	595	1,048	37	591	2,841	(NA)	2,894	5,312	2,374
	November	14,700	4,852	452	1,417	10	569	2,404	(NA)	2,838	4,603	2,124
	December	15,605	5,402	463	2,308	37	414	2,180	(NA)	2,559	5,063	2,298
2002:	January	15,743	5,216	449	1,470	60	979	2,259	(NA)	2,481	5,132	2,623
	February	17,785	5,992	653	2,321	25	1,014	1,979	(NA)	2,533	5,608	3,340
	March	16,759	5,110	492	1,876	27	660	2,055	(NA)	2,609	5,633	3,103
	April	16,608	5,499	534	2,097	56	605	2,207	(NA)	2,720	4,890	3,205
	May	17,007	5,772	407	2,056	78	790	2,442	(NA)	3,094	4,729	3,121
	June	16,574	5,169	513	1,896	60	705	1,995	(NA)	2,962	5,015	3,142
	July	16,290	5,393	423	1,841	44	882	2,204	(NA)	3,318	4,562	2,725
	August	16,364	5,694	646	2,231	35	884	1,898	(NA)	2,845	5,241	2,298
	September	15,210	4,400	466	1,383	54	772	1,724	(NA)	3,141	5,437	1,946
	October	16,953	5,065	603	1,557	11	653	2,241	(NA)	2,721	6,446	2,437
	November	16,807	5,505	550	1,963	33	908	2,051	(NA)	2,983	5,681	2,349
	December	17,629	4,932	450	1,830	35	698	1,919	(NA)	3,428	6,074	2,904
2003:	January	17,555	5,499	527	2,234	63	561	2,113	(NA)	3,210	6,020	2,548
	February ^F	16,697	4,850	342	1,845	23	731	1,909	(NA)	3,217	6,310	1,983
	March ^F	15,539	4,821	452	1,892	27	593	1,857	(NA)	2,848	6,188	1,346
	April ^P	16,369	4,350	415	1,858	31	480	1,566	(NA)	3,034	6,731	1,939

NA Not available, but estimates are included in totals. ^FPreliminary. ^PRevised.

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

Table 9. Monthly Value of Public Construction Put in Place—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					
2001:	April	152,043	76,474	3,636	45,742	2,749	24,347	47,133	2,252	8,128	6,358	11,699
	May	154,353	76,616	3,637	46,101	2,718	24,159	48,777	2,400	8,043	6,010	12,507
	June	150,049	74,113	3,615	43,517	2,748	24,233	48,106	1,983	7,712	6,452	11,685
	July	149,903	76,015	3,338	46,877	2,747	23,052	47,123	1,980	7,548	6,166	11,071
	August	145,481	75,771	3,362	46,958	2,882	22,569	42,836	2,085	7,800	6,154	10,836
	September	144,512	76,344	3,452	46,728	2,733	23,432	41,619	1,849	7,346	6,417	10,937
	October	147,830	78,696	3,604	48,625	2,820	23,646	43,024	1,718	7,660	5,768	10,965
	November	152,096	78,272	3,713	47,857	2,934	23,768	45,105	2,253	8,267	6,325	11,875
	December	153,748	79,153	3,915	47,544	3,252	24,441	45,389	2,128	7,881	6,488	12,709
2002:	January	160,219	81,483	3,666	49,993	3,603	24,220	50,858	2,692	8,484	6,187	10,515
	February	163,196	84,172	3,692	52,239	3,318	24,924	50,588	2,704	8,755	6,099	10,878
	March	152,029	80,988	3,515	49,875	3,571	24,026	43,106	2,723	8,304	5,897	11,011
	April	152,002	81,926	3,724	51,420	3,475	23,306	42,075	2,646	8,121	5,979	11,255
	May	155,114	83,963	3,846	53,828	3,249	23,041	42,253	2,330	8,596	6,347	11,625
	June	149,559	80,956	4,184	49,793	3,220	23,760	41,423	2,022	8,146	6,261	10,751
	July	153,221	81,210	4,306	50,815	3,209	22,879	44,545	2,124	8,342	5,817	11,182
	August	152,895	82,062	4,367	50,888	3,433	23,374	43,477	1,972	8,264	5,847	11,274
	September	155,831	84,169	4,149	52,797	3,696	23,526	44,011	1,954	7,935	6,135	11,625
	October	152,111	83,302	3,594	52,794	3,402	23,511	41,836	1,647	7,788	6,071	11,466
	November	155,131	83,143	3,855	52,204	3,462	23,623	43,923	1,784	7,918	5,960	12,403
	December	154,439	80,943	4,013	51,131	3,603	22,196	46,211	1,822	7,788	6,257	11,418
2003:	January	156,810	83,658	4,126	53,219	3,471	22,842	45,557	1,947	7,941	6,769	10,938
	February ^f	154,119	81,489	4,206	50,592	3,774	22,917	45,489	1,555	8,195	6,907	10,484
	March ^f	149,855	80,393	4,093	50,872	3,649	21,779	43,415	1,592	7,574	6,466	10,416
	April ^P	149,408	79,206	4,332	49,742	3,404	21,729	43,872	1,591	7,860	6,346	10,533
		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
2001:	April	12,796	4,092	267	1,364	36	442	1,982	(NA)	2,737	3,652	2,063
	May	12,923	4,138	415	1,136	25	623	1,938	(NA)	2,309	4,234	2,091
	June	12,725	4,403	355	1,203	18	815	2,012	(NA)	2,467	3,861	1,749
	July	12,180	4,215	338	1,217	27	639	1,993	(NA)	2,340	3,752	1,626
	August	12,735	4,301	330	1,247	30	588	2,107	(NA)	2,600	4,163	1,425
	September	13,014	4,288	236	1,563	39	716	1,735	(NA)	2,423	4,898	1,168
	October	13,626	4,195	487	861	30	485	2,332	(NA)	2,401	4,739	2,052
	November	12,533	3,978	368	1,163	8	467	1,972	(NA)	2,352	4,128	1,839
	December	13,219	4,422	377	1,890	31	339	1,785	(NA)	2,105	4,492	1,966
2002:	January	13,373	4,274	366	1,205	49	802	1,851	(NA)	2,043	4,566	2,250
	February	15,059	4,903	533	1,899	21	830	1,619	(NA)	2,080	4,967	2,852
	March	14,255	4,186	401	1,538	22	541	1,684	(NA)	2,147	5,012	2,659
	April	14,030	4,506	436	1,719	46	496	1,809	(NA)	2,233	4,320	2,730
	May	14,300	4,722	331	1,682	64	646	1,999	(NA)	2,534	4,159	2,647
	June	13,841	4,211	416	1,545	49	575	1,626	(NA)	2,406	4,357	2,636
	July	13,687	4,401	343	1,503	36	720	1,799	(NA)	2,715	4,016	2,315
	August	13,686	4,642	525	1,820	28	721	1,548	(NA)	2,315	4,565	1,932
	September	12,702	3,583	377	1,127	44	630	1,405	(NA)	2,550	4,712	1,627
	October	14,168	4,110	485	1,265	9	530	1,821	(NA)	2,205	5,586	2,037
	November	14,017	4,459	440	1,592	27	736	1,663	(NA)	2,419	4,935	1,969
	December	14,663	3,972	357	1,476	29	563	1,547	(NA)	2,787	5,227	2,438
2003:	January	14,464	4,397	414	1,790	50	450	1,693	(NA)	2,588	5,132	2,119
	February ^f	13,783	3,867	266	1,474	18	584	1,525	(NA)	2,594	5,394	1,654
	March ^f	12,811	3,842	353	1,511	21	474	1,483	(NA)	2,295	5,280	1,121
	April ^P	13,512	3,462	324	1,482	25	383	1,249	(NA)	2,443	5,739	1,613

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

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

Table 10. Monthly Value of Public Construction Put in Place—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					
2001:	April	11,600	6,031	304	3,484	223	2,021	3,307	176	651	519	915
	May	13,154	6,351	314	3,715	232	2,090	4,333	203	686	521	1,059
	June	14,122	6,708	313	4,065	240	2,090	4,923	178	702	563	1,048
	July	14,566	7,158	277	4,696	232	1,954	4,987	181	669	558	1,013
	August	15,278	7,528	282	4,993	245	2,007	5,172	207	733	563	1,075
	September	14,198	7,061	306	4,462	236	2,056	4,602	181	693	589	1,071
	October	14,210	6,983	327	4,271	257	2,128	4,697	169	723	560	1,078
	November	12,739	6,424	318	3,797	249	2,060	3,830	193	720	556	1,016
	December	10,920	6,014	317	3,522	260	1,915	2,720	159	584	495	948
2002:	January	10,146	5,838	278	3,462	283	1,815	2,454	174	584	418	678
	February	10,045	5,890	269	3,526	251	1,844	2,268	176	586	419	706
	March	10,169	5,910	274	3,512	277	1,846	2,270	188	615	428	759
	April	11,570	6,474	304	3,938	286	1,946	2,872	209	646	483	887
	May	13,185	6,921	324	4,356	275	1,966	3,789	199	734	549	993
	June	13,945	7,310	359	4,627	272	2,051	4,211	179	741	549	954
	July	14,973	7,620	357	5,060	273	1,929	4,878	193	739	525	1,018
	August	15,930	8,139	372	5,386	289	2,092	5,163	195	780	537	1,116
	September	15,523	7,801	370	5,029	326	2,076	5,076	192	748	568	1,139
	October	14,604	7,436	329	4,633	309	2,165	4,560	162	733	588	1,125
	November	12,880	6,783	333	4,137	291	2,022	3,646	156	691	523	1,081
	December	11,019	6,119	327	3,724	297	1,770	2,857	136	575	481	851
2003:	January	10,131	6,009	316	3,712	275	1,706	2,282	126	549	460	705
	February ^f	9,569	5,737	308	3,444	289	1,696	2,028	100	551	477	675
	March ^f	9,922	5,875	316	3,608	287	1,664	2,200	109	557	468	713
	April ^P	11,262	6,244	356	3,801	280	1,807	2,925	125	625	514	829
		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
2001:	April	1,001	331	22	111	3	36	161	(NA)	216	278	157
	May	1,047	328	33	90	2	49	153	(NA)	194	343	169
	June	1,091	380	31	104	2	70	174	(NA)	214	325	147
	July	1,013	357	29	103	2	54	169	(NA)	199	300	130
	August	1,129	356	27	103	2	49	175	(NA)	225	386	132
	September	1,527	477	26	174	4	80	193	(NA)	253	622	148
	October	917	309	36	63	2	36	172	(NA)	162	292	127
	November	1,055	324	30	95	1	38	161	(NA)	203	352	157
	December	1,073	379	32	162	3	29	153	(NA)	181	347	152
2002:	January	999	327	28	92	4	61	141	(NA)	154	339	167
	February	1,106	366	40	142	2	62	121	(NA)	150	367	211
	March	1,159	344	33	126	2	45	139	(NA)	183	404	214
	April	1,124	367	36	140	4	40	147	(NA)	176	346	219
	May	1,183	380	27	135	5	52	161	(NA)	216	346	220
	June	1,162	364	36	133	4	50	140	(NA)	211	351	212
	July	1,155	371	29	127	3	61	152	(NA)	232	334	193
	August	1,192	388	44	152	2	60	129	(NA)	200	405	171
	September	1,507	395	42	124	5	69	155	(NA)	271	605	209
	October	951	303	36	93	1	39	134	(NA)	147	349	127
	November	1,157	362	36	129	2	60	135	(NA)	207	406	162
	December	1,213	336	30	125	2	48	131	(NA)	243	423	197
2003:	January	1,099	336	32	137	4	34	129	(NA)	196	393	162
	February ^f	1,012	288	20	110	1	44	114	(NA)	187	401	123
	March ^f	1,026	315	29	124	2	39	122	(NA)	193	416	88
	April ^P	1,089	281	26	120	2	31	101	(NA)	192	468	131

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

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

Table 11. Indexes Used in Deriving Estimates of the Value of 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
	Compos-ite fixed-weighted	Implicit price deflator	Buildings	Construc-tion	Fixed-weighted	Price deflator				Buildings	Electric	Gas	Water	
Annual indexes														
1998.....	106.0	106.1	105.8	105.3	105.6	105.6	105.2	105	109	104	104	104	104	102
1999.....	110.3	110.4	107.9	107.8	110.4	110.4	111.9	107	113	107	105	107	107	101
2000.....	115.3	115.4	110.5	110.7	115.4	115.5	119.3	111	118	110	109	111	112	103
2001.....	119.6	119.6	111.6	112.8	120.6	120.5	118.7	112	121	113	113	114	116	106
2002.....	122.2	122.1	113.1	116.2	124.1	124.2	121.2	114	123	116	115	116	120	108
Monthly indexes							Quarterly indexes			Semiannual indexes				
2001: January	117.8	117.9	110.7	111.7	118.2	118.4								
February	118.3	118.3	110.4	111.6	118.7	118.8	123.9	112	121					
March.....	118.7	118.6	110.5	111.7	119.2	119.2				112	111	113	115	105
April.....	118.8	118.7	110.5	111.8	119.7	119.6								
May.....	119.2	119.0	110.7	111.8	120.3	120.1	111.9	112	121					
June.....	119.7	119.5	111.5	112.4	120.3	120.1								
July.....	119.6	119.4	113.2	113.9	120.5	120.2								
August.....	119.9	119.7	112.6	113.6	121.1	120.9	115.2	112	122					
September	120.2	120.0	112.3	113.7	121.4	121.3				114	112	114	117	106
October.....	120.9	120.8	112.4	113.8	122.3	122.2								
November.....	121.1	121.0	112.3	114.0	122.8	122.7	127.1	113	122					
December.....	121.5	121.2	111.7	113.7	122.9	122.7								
2002: January	121.5	121.2	111.8	114.9	123.0	122.6								
February	121.5	121.2	111.8	114.9	122.7	122.4	121.6	113	122					
March.....	121.3	121.3	112.3	115.6	122.6	122.7				114	114	115	117	107
April.....	121.2	121.3	111.8	115.3	122.2	122.5								
May.....	121.6	121.7	112.8	115.8	122.7	123.0	129.1	113	122					
June.....	122.2	122.3	113.1	116.2	123.2	123.3								
July.....	121.9	121.8	114.0	117.5	123.2	123.1								
August.....	122.2	122.1	113.9	116.0	123.2	123.0	121.8	115	123					
September	122.6	122.5	114.1	117.2	123.8	123.6				117	117	117	120	107
October.....	123.1	122.9	114.0	117.0	124.5	124.3								
November.....	123.3	123.3	114.1	117.0	125.1	125.0	112.8	116	123					
December.....	124.0	123.8	113.6	116.7	126.2	126.0								
2003: January	125.0	125.1	113.9	117.0	127.4	127.4								
February	^r 125.4	^r 125.6	114.1	118.1	^r 128.2	^r 128.3	(NA)	117	123					
March.....	^r 125.3	^r 125.7	113.9	117.9	^r 128.0	^r 128.2				116	115	116	120	109
April.....	^p 125.6	^p 125.8	114.0	118.0	^p 128.3	^p 128.3								
May.....			114.3	118.1			(NA)	(NA)	(NA)					

NA Not available. ^pPreliminary. ^rRevised.

Table 12. **Factors Used to Seasonally Adjust Estimates of the Value of Construction Put in Place**
[Percent]

Type of construction	Apr. 2003 ^p	Mar. 2003 ^r	Feb. 2003 ^r	Jan. 2003	Dec. 2002	Nov. 2002	Oct. 2002	Sep. 2002	Aug. 2002	July 2002	June 2002	Apr. 2002
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	97.0	92.3	78.7	82.4	88.3	104.3	108.9	111.4	113.4	112.7	109.1	97.1
2 units or more	100.5	95.9	89.5	91.2	94.2	99.7	104.8	102.4	105.8	104.4	105.4	99.0
Nonresidential buildings:												
Industrial	98.5	94.4	88.4	88.5	103.8	102.5	106.8	104.7	103.7	104.2	102.9	97.5
Office	100.6	97.6	92.7	93.1	96.9	101.8	104.6	102.8	103.2	102.0	100.7	100.9
Hotels, motels	101.6	100.8	94.3	94.0	97.8	98.0	102.6	100.9	102.5	102.3	101.7	103.5
Other commercial	96.1	92.4	86.6	84.9	93.5	104.1	110.1	110.7	110.4	106.6	105.0	96.3
Religious	95.6	93.1	89.6	91.0	98.4	105.3	114.3	108.0	108.8	101.0	98.5	96.8
Educational	95.3	90.6	85.0	84.9	89.4	97.0	100.5	105.3	118.3	115.7	114.0	95.2
Hospital and institutional	101.0	98.7	94.6	93.3	98.9	103.7	104.8	102.5	101.9	98.3	101.2	101.2
Miscellaneous nonresidential	102.0	98.9	92.0	89.0	96.4	101.7	105.2	102.5	103.7	101.1	102.7	102.6
Telecommunications	97.7	90.8	82.8	83.3	108.2	106.6	113.6	100.3	108.5	104.7	98.5	97.8
All other private	91.7	88.4	81.0	83.6	102.3	105.0	112.2	112.9	116.7	107.5	100.5	90.1
PUBLIC CONSTRUCTION												
State and Local												
Buildings:												
Housing and redevelopment	98.6	92.6	87.8	91.8	97.9	103.7	109.8	107.1	102.3	99.4	103.1	97.8
Educational	91.7	85.1	81.7	83.7	87.4	95.1	105.3	114.3	127.0	119.5	111.5	91.9
Hospital	98.8	94.4	91.8	95.2	99.0	100.7	109.1	105.7	101.1	102.1	101.5	98.8
Other buildings	99.8	91.7	88.8	89.6	95.7	102.7	110.5	105.9	107.4	101.2	103.6	100.2
Highways and streets	80.0	60.8	53.5	60.1	74.2	99.6	130.8	138.4	142.5	131.4	122.0	81.9
Conservation and development	94.4	82.2	77.3	77.4	89.4	104.6	117.7	117.6	118.8	109.2	106.5	94.6
Sewer systems	95.4	88.2	80.7	83.0	88.6	104.8	113.0	113.1	113.2	106.3	109.2	95.4
Water supply facilities	97.2	86.9	82.9	81.6	92.3	105.4	116.3	111.0	110.3	108.4	105.2	96.9
Miscellaneous construction	94.4	82.2	77.3	77.4	89.4	104.6	117.7	117.6	118.8	109.2	106.5	94.6
Federal												
Buildings:												
Housing and redevelopment	97.4	98.5	89.5	91.7	101.5	97.3	88.4	132.2	100.3	101.1	103.6	97.8
Industrial	97.4	98.5	89.5	91.7	101.5	97.3	88.4	132.2	100.3	101.1	103.6	97.8
Educational	97.4	98.5	89.5	91.7	101.5	97.3	88.4	132.2	100.3	101.1	103.6	97.8
Hospital	97.4	98.5	89.5	91.7	101.5	97.3	88.4	132.2	100.3	101.1	103.6	97.8
Other buildings	97.4	98.5	89.5	91.7	101.5	97.3	88.4	132.2	100.3	101.1	103.6	97.8
Military	94.3	100.9	86.5	91.0	104.6	102.9	80.1	127.4	103.9	102.4	105.2	94.5
Conservation and development	97.8	94.5	89.3	91.9	97.0	98.8	75.0	154.2	106.4	99.8	96.7	96.1
Miscellaneous construction	97.8	94.5	89.3	91.9	97.0	98.8	75.0	154.2	106.4	99.8	96.7	96.1

^pPreliminary. ^rRevised.

Appendix A.

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 70 percent of total construction in 2001 (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 the following table. The relative standard error equals the standard error divided by the estimated value to which it refers.

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

The following table also presents coefficients necessary to compute standard errors for the month-to-month and year-to-date changes. To derive a specific standard error of a change, look up an appropriate coefficient (k1 or k2) 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 complete censuses. Although no direct measures of these errors have been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data to minimize their influence.

A major source of nonsampling error in the published estimates is due to the need to impute data for nonrespondents and for late and inconsistent reports. For preliminary value-in-place estimates, the average imputation rates for major components are as follows: private nonresidential construction, 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 25 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 1999. (Outlays are

included if a government agency's fiscal year ending date falls within July 1998 to June 1999 inclusive, and for three state agencies with fiscal years ending in August or September 1999.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for 4 years from 1999 through April 2003. 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 effects of these procedures are available.

MONTHLY REVISIONS TO ESTIMATES

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

For total construction, the range of the difference between the last 12 preliminary and second revision estimates for the same months was from -1.5 percent to 1.0 percent with a median of -0.1 percent. The range of the difference between first revision and second revision was from -1.2 to 0.8 percent, with a median of 0.1 percent.

Relative Standard Errors and Coefficients for Standard Errors of Changes

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

NA Not available.

Note: All statistics are based upon 2002 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.