

Value of Construction Put in Place

January

2000

Issued March 2000

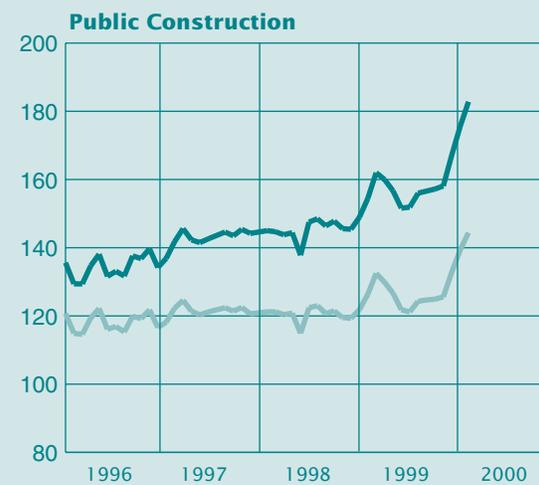
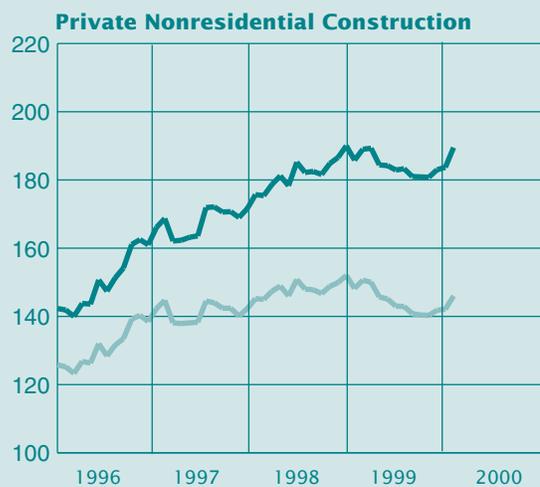
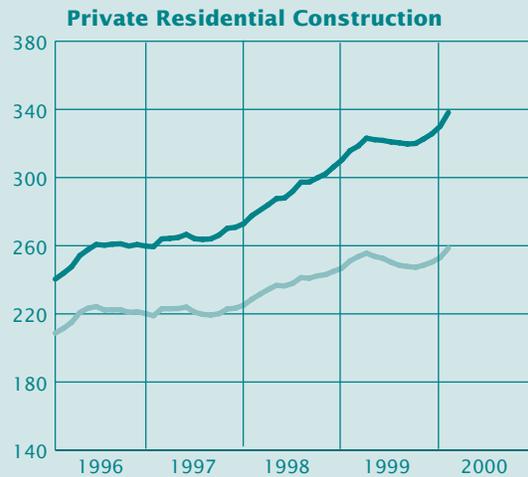
C30/00-1

Current Construction Reports

Monthly Value of Construction Put in Place

Seasonally adjusted annual rate in billions of dollars

— Current dollars
— 1992 dollars



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: 301-457-1605.

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VALUE OF CONSTRUCTION PUT IN PLACE

Construction put in place during January 2000 was estimated at a seasonally adjusted annual rate of \$751.8 billion, 3 (\pm 5) percent above the revised December 1999 estimate of \$731.8 billion. The January figure represents an 8 percent increase over January 1999.

In constant (1992) dollars, the January annual rate was \$582.8 billion, 2 (\pm 5) percent above the revised estimate of \$569.4 billion for December.

Spending on new residential housing units was at a seasonally adjusted annual rate of \$257.2 billion in January, 2 (\pm 2) percent above the revised December estimate of \$251.3 billion. Nonresidential building construction was at a rate of \$189.5 billion, 3 (\pm 3) percent above the revised December estimate of \$183.7 billion.

In January, the estimated seasonally adjusted annual rate of public construction put in place was \$182.8 billion, 4 (\pm 5) percent above the revised December estimate of \$175.5 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 1999*, C30/99-5, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 1999; contains annual data for 1994 to 1998 and monthly data for 1996 to 1998.
- Current Construction Reports, *Value of Construction Put in Place: June 1999*, C30/99-6, U.S. Department of Commerce, U.S. Census Bureau, Washington, DC, 1999; contains annual value of construction put in place for private nonresidential buildings by geographic area and detailed types of construction for 1994 to 1998.
- 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: 1995-1999

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1995	1996	1997	1998	1999 ^f	1995	1996	1997	1998	1999 ^f
Total construction	537,409	583,445	618,225	665,446	705,132	477,386	506,485	520,123	544,729	555,798
Private construction	407,477	448,969	475,123	520,073	547,029	360,040	388,324	398,699	424,345	429,193
Residential buildings	230,688	256,460	265,863	294,326	321,668	201,677	220,017	221,756	239,201	250,704
New housing units	162,898	179,448	187,328	213,909	240,386	142,413	153,966	156,248	173,828	187,367
1 unit	145,009	159,124	164,444	189,453	212,666	126,773	136,516	137,156	153,937	165,748
2 units or more	17,889	20,324	22,883	24,457	27,720	15,640	17,450	19,092	19,891	21,619
Improvements	67,790	77,012	78,535	80,417	(NA)	59,264	66,052	65,509	65,372	(NA)
Nonresidential buildings	135,022	150,350	167,610	181,915	183,822	120,627	131,188	141,129	148,017	143,996
Industrial	32,505	32,657	31,359	32,270	26,643	29,043	28,503	26,405	26,269	20,877
Office	25,613	27,886	34,305	41,541	47,239	22,891	24,329	28,876	33,803	37,003
Hotels, motels	7,112	10,912	12,898	14,904	15,581	6,351	9,521	10,864	12,121	12,214
Other commercial	42,654	48,188	51,809	53,783	55,701	38,098	42,042	43,628	43,749	43,617
Religious	4,326	4,534	5,777	6,729	7,094	3,864	3,955	4,861	5,472	5,557
Educational	5,493	6,742	8,693	9,629	9,359	4,908	5,880	7,316	7,840	7,327
Hospital and institutional	11,248	11,780	13,546	13,663	12,294	10,051	10,280	11,413	11,121	9,634
Miscellaneous ¹	6,071	7,650	9,223	9,395	9,911	5,421	6,677	7,767	7,643	7,767
Farm nonresidential	3,014	3,658	3,815	3,891	(NA)	2,692	3,192	3,210	3,165	(NA)
Public utilities	35,859	36,070	35,544	37,267	(NA)	32,401	31,771	30,644	31,705	(NA)
Telecommunications	11,093	11,772	11,698	12,441	13,368	10,073	10,245	9,985	10,612	11,295
Other public utilities	24,766	24,298	23,846	24,826	(NA)	22,328	21,525	20,659	21,093	(NA)
Railroads	3,509	4,398	4,922	5,320	(NA)	3,201	3,894	4,204	4,489	(NA)
Electric light and power	14,049	11,211	11,260	11,574	(NA)	12,656	9,914	9,783	9,827	(NA)
Gas	6,279	7,674	6,695	6,667	(NA)	5,637	6,814	5,828	5,697	(NA)
Petroleum pipelines	929	1,015	969	1,265	(NA)	834	903	843	1,080	(NA)
All other private ²	2,893	2,431	2,292	2,674	3,011	2,643	2,156	1,960	2,256	2,471
Public construction	129,933	134,476	143,102	145,373	158,104	117,346	118,161	121,424	120,384	126,605
Buildings	57,754	60,047	63,489	66,137	70,406	51,506	52,348	53,424	53,810	55,104
Housing and redevelopment ..	4,698	4,113	3,795	4,047	3,816	4,108	3,532	3,165	3,291	2,975
Industrial	1,508	1,389	999	1,012	925	1,348	1,214	843	824	725
Educational	25,783	27,148	28,915	29,916	33,915	23,027	23,693	24,340	24,336	26,542
Hospital	4,236	4,472	4,934	3,978	4,043	3,785	3,905	4,157	3,239	3,167
Other ³	21,528	22,924	24,846	27,183	27,706	19,238	20,004	20,919	22,119	21,694
Highways and streets	37,616	39,860	44,292	44,792	49,914	34,501	35,258	37,833	37,525	40,459
Military facilities	3,011	2,591	2,556	2,578	2,127	2,728	2,280	2,169	2,131	1,697
Conservation and development ..	6,308	5,910	5,612	5,511	6,193	5,724	5,245	4,801	4,681	5,140
Sewer systems	8,420	9,142	9,166	8,707	9,589	7,640	8,110	7,842	7,398	7,961
Water supply facilities	4,709	5,234	5,662	5,871	6,579	4,186	4,550	4,817	4,903	5,332
Miscellaneous public ⁴	12,116	11,691	12,325	11,777	13,296	11,060	10,370	10,537	9,936	10,913

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

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: 1995-1999

[Millions of dollars]

Type of construction	Current dollars					Constant (1992) dollars				
	1995	1996	1997	1998	1999 ^r	1995	1996	1997	1998	1999 ^r
Total public construction	129,933	134,476	143,102	145,373	158,104	117,346	118,161	121,424	120,384	126,605
State and local construction	114,181	119,151	129,009	130,950	144,314	103,132	104,680	109,475	108,422	115,503
Total buildings	51,711	53,817	57,382	60,109	64,967	46,117	46,917	48,287	48,904	50,844
Housing and redevelopment	4,122	3,432	3,118	3,504	3,386	3,605	2,947	2,600	2,849	2,640
Educational	25,757	27,135	28,895	29,901	33,900	23,003	23,683	24,324	24,324	26,530
Hospital	3,195	3,313	3,683	2,968	3,180	2,854	2,892	3,103	2,417	2,489
Other ¹	18,638	19,936	21,685	23,736	24,502	16,654	17,395	18,260	19,313	19,185
Highways and streets	37,308	39,492	44,031	44,440	49,530	34,218	34,933	37,610	37,230	40,148
Conservation and development	2,140	2,066	2,244	1,939	2,119	1,943	1,833	1,919	1,648	1,759
Sewer systems	8,420	9,142	9,166	8,707	9,589	7,640	8,110	7,842	7,398	7,961
Water supply facilities	4,709	5,234	5,662	5,871	6,579	4,186	4,550	4,817	4,903	5,332
Miscellaneous nonbuilding ²	9,893	9,401	10,525	9,884	11,529	9,029	8,336	8,999	8,339	9,460
Federal construction	15,751	15,325	14,093	14,423	13,790	14,214	13,482	11,949	11,962	11,103
Total buildings	6,043	6,230	6,107	6,028	5,439	5,390	5,430	5,137	4,906	4,260
Housing	576	681	677	543	430	503	585	565	442	336
Industrial	1,508	1,389	999	1,012	925	1,348	1,214	843	824	725
Educational	27	12	19	15	15	24	11	16	12	12
Hospital	1,041	1,159	1,251	1,010	863	931	1,013	1,053	823	678
Other ³	2,891	2,989	3,161	3,448	3,205	2,584	2,608	2,659	2,806	2,509
Highways and streets	308	368	261	352	(NA)	283	326	223	295	(NA)
Military facilities	3,011	2,591	2,556	2,578	2,127	2,728	2,280	2,169	2,131	1,697
Conservation and development	4,167	3,845	3,368	3,572	4,074	3,781	3,412	2,882	3,034	3,381
Miscellaneous public ⁴	2,223	2,291	1,800	1,893	1,767	2,032	2,034	1,538	1,596	1,453

NA Not available, but estimates are included in totals. ^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 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																			
January 1999.....	46,432	37,053	20,871	16,050	14,125	1,925	13,643	2,242	3,489	1,238	3,802	560	592	952	768	(NA)	877	178	
January 2000.....	50,036	38,973	22,506	17,662	15,481	2,182	13,989	1,957	3,735	1,266	4,134	568	687	941	701	(NA)	(NA)	194	
Percent change.....	8	5	8	10	10	13	3	-13	7	2	9	1	16	-1	-9	(NA)	(NA)	9	
MONTHLY DATA																			
1998: January.....	42,730	33,872	18,300	13,531	11,694	1,838	12,944	2,404	3,109	1,002	3,572	485	679	1,040	653	(NA)	804	183	
February.....	41,735	32,988	17,496	13,037	11,188	1,848	12,988	2,425	3,053	989	3,587	491	726	1,059	658	(NA)	889	173	
March.....	47,319	37,790	20,886	15,521	13,553	1,968	14,042	2,806	3,147	1,073	3,959	489	783	1,108	678	(NA)	1,105	192	
April.....	52,069	41,205	23,129	16,629	14,573	2,056	14,780	2,691	3,374	1,158	4,211	497	848	1,177	824	(NA)	1,001	195	
May.....	55,171	43,601	25,110	17,564	15,513	2,051	14,857	2,651	3,481	1,105	4,392	466	876	1,135	751	(NA)	1,031	210	
June.....	61,912	48,111	27,123	18,965	16,864	2,101	16,074	2,792	3,704	1,336	4,841	525	908	1,147	821	(NA)	1,100	276	
July.....	63,150	48,683	28,197	20,126	17,965	2,162	15,692	2,630	3,498	1,299	4,915	546	857	1,116	830	(NA)	1,050	227	
August.....	64,367	49,363	28,703	20,449	18,376	2,073	16,232	2,881	3,455	1,371	4,976	615	903	1,188	844	(NA)	1,059	246	
September.....	63,973	48,479	28,062	20,575	18,443	2,132	16,291	2,907	3,555	1,416	4,950	633	822	1,186	822	(NA)	1,085	246	
October.....	62,127	48,132	27,865	20,408	18,213	2,196	16,441	2,766	3,761	1,466	5,034	659	745	1,159	852	(NA)	1,186	246	
November.....	58,458	46,219	26,609	19,855	17,784	2,071	16,070	2,666	3,746	1,362	4,886	678	741	1,163	829	(NA)	1,046	252	
December.....	52,435	41,630	22,846	17,249	15,287	1,962	15,504	2,654	3,658	1,328	4,463	645	740	1,184	833	(NA)	1,085	229	
1999: January.....	46,432	37,053	20,871	16,050	14,125	1,925	13,643	2,242	3,489	1,238	3,802	560	592	952	768	(NA)	877	178	
February.....	46,034	36,329	19,899	15,447	13,391	2,056	14,069	2,199	3,638	1,307	3,916	537	632	1,045	796	(NA)	873	182	
March.....	52,392	41,734	23,941	18,480	16,161	2,319	14,950	2,281	3,772	1,426	4,297	553	684	1,055	882	(NA)	1,187	231	
April.....	55,951	44,125	25,875	19,306	16,945	2,361	15,080	2,130	3,840	1,409	4,442	575	772	1,023	890	(NA)	1,104	263	
May.....	59,622	46,873	28,114	20,430	18,034	2,396	15,461	2,069	3,964	1,383	4,797	573	770	1,037	868	(NA)	973	271	
June.....	64,500	50,119	29,867	21,514	19,097	2,417	15,847	2,179	4,017	1,239	5,058	610	910	1,018	815	(NA)	1,108	277	
July.....	65,584	50,543	30,367	22,200	19,805	2,395	15,774	2,196	3,979	1,282	4,989	580	923	987	838	(NA)	1,177	270	
August.....	67,293	51,121	30,756	22,499	20,014	2,485	16,194	2,236	4,279	1,287	4,976	652	922	1,015	827	(NA)	1,225	290	
September.....	66,145	49,828	29,815	22,318	19,872	2,446	16,225	2,301	4,317	1,278	4,979	623	827	1,064	837	(NA)	1,099	263	
October.....	64,118	49,093	29,533	21,880	19,535	2,345	15,975	2,259	4,161	1,169	5,028	660	809	1,073	815	(NA)	1,202	256	
November ^r	61,644	47,542	28,288	21,437	19,118	2,319	15,746	2,261	3,977	1,282	4,991	610	774	1,046	805	(NA)	1,190	267	
December ^r	55,417	42,669	24,343	18,826	16,571	2,256	14,859	2,289	3,806	1,280	4,427	561	746	980	770	(NA)	1,352	261	
2000: January ^p	50,036	38,973	22,506	17,662	15,481	2,182	13,989	1,957	3,735	1,266	4,134	568	687	941	701	(NA)	(NA)	194	
PERCENT CHANGE																			
December 1999- January 2000.....	-10	-9	-8	-6	-7	-3	-6	-15	-2	-1	-7	1	-8	-4	-9	(NA)	(NA)	-26	

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													
January 1999	9,379	4,751	278	64	2,162	310	1,936	2,161	147	400	652	431	839
January 2000	11,063	5,549	268	82	2,723	297	2,180	2,931	142	432	628	464	918
Percent change	18	17	-4	28	26	-4	13	36	-3	8	-4	8	9
MONTHLY DATA													
1998: January	8,858	4,646	292	76	2,009	326	1,943	1,943	188	345	567	376	793
February	8,747	4,617	293	79	1,970	306	1,969	1,904	196	419	541	384	685
March	9,529	4,813	314	95	2,000	372	2,033	2,317	237	411	603	392	756
April	10,864	5,175	338	84	2,255	299	2,199	3,113	216	387	640	464	867
May	11,570	5,327	324	81	2,384	337	2,201	3,549	215	421	647	488	922
June	13,801	6,067	368	78	2,910	338	2,374	4,633	225	498	759	476	1,143
July	14,467	6,390	406	93	3,130	322	2,439	4,872	279	478	790	529	1,130
August	15,004	6,386	341	88	3,161	312	2,484	5,342	241	501	819	523	1,192
September	15,494	6,323	350	108	2,886	400	2,579	5,411	225	771	859	562	1,342
October	13,995	5,721	338	58	2,548	345	2,433	5,228	162	379	889	600	1,017
November	12,239	5,426	346	92	2,325	310	2,353	3,734	194	467	847	565	1,006
December	10,805	5,246	336	80	2,339	312	2,179	2,746	199	433	746	512	923
1999: January	9,379	4,751	278	64	2,162	310	1,936	2,161	147	400	652	431	839
February	9,705	4,889	273	70	2,166	363	2,018	2,282	182	436	607	447	862
March	10,658	5,185	286	85	2,299	327	2,187	2,735	187	472	723	475	882
April	11,826	5,432	327	76	2,548	290	2,192	3,453	181	475	732	510	1,044
May	12,749	5,511	328	83	2,616	316	2,168	4,167	181	419	812	542	1,117
June	14,381	6,248	320	72	3,266	336	2,254	4,791	188	511	890	579	1,175
July	15,041	6,481	307	89	3,343	341	2,401	5,081	197	507	940	624	1,211
August	16,172	6,815	338	70	3,598	323	2,487	5,782	145	616	867	640	1,306
September	16,317	6,754	354	112	3,301	386	2,602	5,802	207	802	884	608	1,261
October	15,025	6,394	335	45	3,084	356	2,575	5,251	141	438	881	643	1,278
November ^r	14,102	6,128	323	71	2,848	348	2,537	4,618	164	564	829	576	1,223
December ^r	12,748	5,818	347	89	2,685	347	2,350	3,794	207	554	773	505	1,098
2000: January ^p	11,063	5,549	268	82	2,723	297	2,180	2,931	142	432	628	464	918
PERCENT CHANGE													
December 1999- January 2000	-13	-5	-23	-8	1	-14	-7	-23	-31	-22	-19	-8	-16

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	
		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													
1998: January	639,962	494,992	277,551	197,735	172,389	25,346	175,724	32,302	40,909	13,032	51,027	6,430	9,879	13,246	8,899	(NA)	11,680	2,561	
February	644,643	499,944	280,843	200,621	175,503	25,118	175,430	32,260	39,387	12,712	51,489	6,826	10,365	13,477	8,913	(NA)	12,819	2,584	
March	650,509	506,741	284,013	203,838	179,113	24,725	178,700	35,976	38,688	12,429	53,016	6,371	10,368	13,511	8,342	(NA)	13,670	2,559	
April	656,271	511,838	287,556	207,391	182,540	24,851	181,214	33,182	40,370	13,294	53,639	6,229	10,748	14,196	9,555	(NA)	12,185	2,510	
May	648,673	510,851	287,972	207,482	184,134	23,348	178,315	31,967	40,955	13,669	52,860	5,971	10,317	13,540	9,036	(NA)	12,780	2,614	
June	672,757	525,287	291,887	211,247	187,730	23,518	185,215	32,814	43,366	14,980	55,014	6,492	9,326	13,673	9,550	(NA)	12,201	3,298	
July	673,703	525,240	297,318	216,810	191,965	24,845	182,172	31,495	40,835	15,764	55,275	6,774	8,567	13,746	9,717	(NA)	12,000	2,506	
August	670,007	523,652	297,314	216,194	193,095	23,099	182,487	33,177	40,450	16,219	53,315	6,809	8,979	13,764	9,774	(NA)	12,334	2,568	
September	672,053	524,270	299,752	218,957	194,476	24,481	181,554	32,423	41,138	16,827	52,148	6,749	9,131	13,755	9,382	(NA)	12,252	2,677	
October	674,253	528,694	302,056	221,585	196,539	25,046	184,778	30,928	43,775	17,396	53,930	6,977	9,005	13,247	9,520	(NA)	12,928	2,509	
November	680,117	534,743	306,299	226,053	201,327	24,726	186,605	30,845	43,730	16,185	56,101	7,364	9,333	13,440	9,607	(NA)	12,327	2,877	
December	690,462	541,591	310,261	230,494	205,655	24,839	190,044	30,327	44,697	15,758	56,908	7,357	10,345	14,353	10,299	(NA)	12,090	2,786	
1999: January	697,858	543,471	315,828	235,142	208,739	26,403	185,816	29,895	45,658	16,923	54,506	7,702	8,538	12,131	10,462	(NA)	13,326	2,509	
February	710,657	548,682	318,483	238,146	210,328	27,818	189,040	28,967	46,788	16,822	56,014	7,466	8,962	13,307	10,714	(NA)	12,539	2,727	
March	715,396	555,362	323,133	241,524	212,412	29,113	189,297	29,052	46,430	16,422	57,553	7,210	8,985	12,835	10,810	(NA)	14,158	3,073	
April	704,582	547,885	322,213	241,193	212,924	28,269	184,411	26,217	45,890	16,277	56,290	7,374	9,766	12,356	10,241	(NA)	13,105	3,376	
May	698,461	546,880	321,803	239,910	212,582	27,329	184,245	24,975	46,912	16,259	57,222	7,092	9,031	12,369	10,384	(NA)	12,371	3,307	
June	698,852	546,931	320,913	238,490	211,410	27,080	182,945	25,465	47,304	14,430	57,153	7,575	9,309	12,182	9,526	(NA)	12,393	3,280	
July	701,961	545,992	320,350	238,886	211,253	27,632	183,307	26,246	47,514	15,293	55,841	7,135	9,295	12,181	9,801	(NA)	13,690	2,998	
August	698,439	541,793	319,656	238,566	210,669	27,896	180,987	25,703	48,905	15,086	53,502	7,157	9,195	11,813	9,626	(NA)	13,527	2,998	
September	698,168	540,939	320,048	239,145	211,029	28,116	180,878	25,566	49,710	14,857	53,018	6,585	9,200	12,317	9,625	(NA)	12,682	2,860	
October	701,933	543,796	322,658	240,072	213,298	26,775	180,821	25,268	48,247	14,663	54,207	7,202	9,756	12,241	9,237	(NA)	13,533	2,715	
November ^f	716,458	549,331	325,734	244,255	216,426	27,829	182,983	26,036	46,927	15,039	57,255	6,522	9,713	12,081	9,410	(NA)	13,295	2,984	
December ^f	731,832	556,327	330,133	251,318	222,673	28,645	183,682	26,063	47,035	15,741	56,450	6,740	10,263	11,878	9,512	(NA)	15,065	3,128	
2000: January ^p	751,764	569,007	338,234	257,163	227,379	29,784	189,473	26,116	48,873	16,482	59,056	7,520	9,928	11,990	9,508	(NA)	(NA)	2,753	
PERCENT CHANGE																			
December 1999- January 2000	3	2	2	2	2	4	3	(Z)	4	5	5	12	-3	1	(Z)	(NA)	(NA)	-12	

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						
1998: January	144,971	64,799	3,763	1,001	29,403	4,262	26,371	46,084	2,423	5,234	8,391	5,579	12,460
February	144,699	64,777	3,906	1,033	29,152	4,020	26,665	46,162	2,845	6,121	8,264	5,770	10,759
March	143,768	63,841	4,027	1,170	27,740	4,540	26,363	46,497	2,820	5,640	8,241	5,583	11,145
April	144,433	65,250	4,094	1,042	29,480	3,628	27,006	46,527	2,725	4,898	8,277	5,834	10,922
May	137,822	64,081	3,864	1,007	29,310	4,177	25,723	41,588	2,530	5,129	7,820	5,711	10,962
June	147,470	67,247	4,197	899	31,038	3,891	27,221	45,346	2,610	5,710	8,505	5,448	12,603
July	148,463	69,109	4,778	1,104	30,913	3,812	28,501	44,026	3,231	5,358	8,932	5,809	12,000
August	146,355	67,191	4,203	1,106	29,760	3,886	28,236	44,700	2,760	5,470	8,623	5,732	11,880
September	147,783	67,080	3,784	947	30,342	4,051	27,957	45,057	2,103	5,920	8,822	6,158	12,643
October	145,559	65,405	3,802	799	29,366	4,029	27,409	46,301	2,407	5,321	9,121	5,989	11,015
November	145,374	65,831	4,034	1,114	29,650	3,763	27,271	43,929	2,296	5,639	9,537	6,236	11,905
December	148,871	67,875	4,093	920	32,002	3,674	27,185	44,583	2,306	5,406	9,770	6,532	12,398
1999: January	154,387	66,634	3,666	886	31,445	4,099	26,539	50,538	1,881	6,018	9,658	6,465	13,192
February	161,975	68,570	3,650	919	32,001	4,772	27,227	54,880	2,636	6,271	9,394	6,739	13,486
March	160,033	68,786	3,623	1,012	32,080	3,982	28,089	53,099	2,223	6,194	10,017	6,767	12,947
April	156,697	68,268	3,935	920	33,016	3,625	26,773	50,897	2,268	6,016	9,553	6,453	13,242
May	151,581	66,449	3,910	1,042	32,266	3,895	25,335	48,542	2,128	5,101	9,775	6,379	13,207
June	151,921	68,932	3,709	821	34,588	3,868	25,946	45,518	2,137	5,845	9,921	6,649	12,919
July	155,969	69,840	3,671	1,044	33,209	4,052	27,863	47,822	2,275	5,820	10,443	6,820	12,947
August	156,646	71,009	4,051	848	34,113	3,924	28,073	48,182	1,682	6,598	9,190	6,953	13,031
September	157,229	71,942	3,853	975	34,868	4,026	28,220	49,031	1,947	6,268	9,100	6,614	12,327
October	158,137	73,276	3,810	635	35,718	4,023	29,092	46,988	2,092	6,305	9,105	6,434	13,937
November ^r	167,128	74,532	3,692	840	36,479	4,117	29,404	54,061	1,946	6,683	9,259	6,362	14,284
December ^r	175,505	75,485	4,173	1,012	36,824	4,078	29,398	59,434	2,380	6,970	9,942	6,455	14,837
2000: January ^p	182,757	77,560	3,577	1,119	39,089	3,945	29,829	66,242	1,848	6,465	9,286	6,914	14,442
PERCENT CHANGE													
December 1999-January 2000	4	3	-14	11	6	-3	1	11	-22	-7	-7	7	-3

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 5. Monthly Value of Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period	Total construction	Private construction																All other private ⁵	
		Total ¹	Residential buildings					Nonresidential buildings									Public utilities ⁴		
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total	Telecommunications		
				Total	1 unit	2 units or more													
1998: January	530,358	409,157	228,625	162,879	142,001	20,878	145,226	26,696	33,809	10,770	42,171	5,314	8,165	10,947	7,354	(NA)	9,824	2,169	
February	534,648	413,458	231,528	165,393	144,685	20,708	144,984	26,661	32,551	10,506	42,553	5,641	8,566	11,138	7,366	(NA)	10,763	2,195	
March	539,315	418,962	234,334	168,183	147,783	20,400	147,442	29,683	31,921	10,255	43,742	5,257	8,555	11,148	6,883	(NA)	11,459	2,174	
April	542,912	422,142	236,671	170,692	150,239	20,453	148,902	27,265	33,172	10,924	44,075	5,119	8,832	11,665	7,851	(NA)	10,335	2,134	
May	535,326	420,387	236,431	170,346	151,177	19,169	146,040	26,181	33,542	11,195	43,293	4,890	8,450	11,089	7,400	(NA)	10,923	2,219	
June	552,098	429,648	237,886	172,166	152,999	19,167	150,826	26,721	35,315	12,199	44,799	5,287	7,594	11,134	7,777	(NA)	10,473	2,787	
July	551,246	428,270	241,330	175,982	155,816	20,166	147,987	25,585	33,172	12,806	44,903	5,502	6,959	11,166	7,894	(NA)	10,345	2,116	
August	546,564	425,881	240,935	175,197	156,479	18,718	147,763	26,864	32,753	13,133	43,170	5,513	7,270	11,145	7,914	(NA)	10,615	2,158	
September	546,822	425,302	242,322	177,007	157,216	19,791	146,651	26,190	33,229	13,592	42,123	5,451	7,376	11,111	7,578	(NA)	10,526	2,242	
October	546,608	427,133	243,006	178,266	158,117	20,150	148,775	24,902	35,246	14,006	43,422	5,617	7,251	10,666	7,665	(NA)	11,078	2,103	
November	549,530	430,245	245,039	180,843	161,062	19,781	149,884	24,775	35,124	13,000	45,061	5,915	7,496	10,796	7,716	(NA)	10,563	2,418	
December	555,484	433,652	246,827	183,368	163,608	19,761	152,035	24,261	35,758	12,606	45,526	5,886	8,276	11,482	8,240	(NA)	10,334	2,341	
1999: January	560,780	434,508	251,056	186,917	165,930	20,988	148,178	23,839	36,410	13,495	43,466	6,142	6,809	9,674	8,343	(NA)	11,400	2,108	
February	571,380	438,922	253,569	189,607	167,459	22,148	150,629	23,082	37,282	13,404	44,633	5,949	7,141	10,603	8,537	(NA)	10,735	2,292	
March	571,609	441,683	255,643	191,079	168,047	23,032	149,998	23,021	36,790	13,013	45,605	5,713	7,120	10,170	8,566	(NA)	12,070	2,555	
April	560,726	434,006	253,711	189,916	167,657	22,259	145,664	20,708	36,248	12,857	44,463	5,825	7,714	9,760	8,089	(NA)	11,191	2,794	
May	553,552	431,734	252,593	188,312	166,861	21,451	145,075	19,666	36,939	12,803	45,057	5,585	7,111	9,739	8,176	(NA)	10,511	2,715	
June	550,207	429,039	250,323	186,030	164,907	21,123	143,037	19,910	36,985	11,282	44,685	5,922	7,279	9,525	7,448	(NA)	10,476	2,673	
July	550,828	426,483	248,526	185,326	163,889	21,437	142,874	20,457	37,034	11,920	43,524	5,561	7,245	9,495	7,639	(NA)	11,543	2,448	
August	547,284	422,614	247,795	184,935	163,310	21,625	140,846	20,003	38,058	11,740	41,636	5,570	7,156	9,193	7,491	(NA)	11,357	2,443	
September	545,563	420,694	247,332	184,811	163,083	21,728	140,434	19,849	38,595	11,535	41,163	5,112	7,143	9,563	7,473	(NA)	10,621	2,327	
October	547,698	422,096	248,581	184,955	164,328	20,628	140,280	19,603	37,430	11,376	42,054	5,587	7,568	9,496	7,166	(NA)	11,344	2,212	
November ^f	558,453	425,675	250,372	187,744	166,353	21,391	141,847	20,183	36,378	11,658	44,383	5,056	7,529	9,365	7,294	(NA)	11,144	2,432	
December ^f	569,355	430,046	252,975	192,581	170,631	21,950	142,059	20,157	36,376	12,174	43,658	5,213	7,938	9,186	7,357	(NA)	12,617	2,547	
2000: January ^p	582,823	438,384	258,589	196,608	173,837	22,771	145,973	20,120	37,652	12,698	45,497	5,794	7,649	9,237	7,325	(NA)	(NA)	2,231	
PERCENT CHANGE																			
December 1999-																			
January 2000	2	2	2	2	2	4	3	(Z)	4	4	4	11	-4	1	(Z)	(NA)	(NA)	-12	

See footnotes at end of table.

Table 5. Monthly Value of Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars—Con.

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
1998: January	121,201	53,543	3,099	827	24,300	3,522	21,794	38,758	2,019	4,466	7,160	4,704	10,551
February	121,189	53,527	3,220	854	24,093	3,323	22,037	38,989	2,377	5,232	7,063	4,861	9,141
March	120,354	52,674	3,323	966	22,887	3,746	21,752	39,304	2,356	4,817	7,038	4,695	9,469
April	120,769	53,621	3,370	856	24,224	2,981	22,191	39,429	2,275	4,179	7,062	4,915	9,288
May	114,939	52,490	3,172	825	24,005	3,421	21,067	35,214	2,107	4,362	6,650	4,811	9,306
June	122,450	54,764	3,420	732	25,276	3,169	22,167	38,267	2,164	4,831	7,196	4,574	10,654
July	122,977	56,137	3,879	897	25,112	3,097	23,153	37,028	2,670	4,548	7,582	4,877	10,135
August	120,682	54,408	3,406	896	24,097	3,146	22,863	37,312	2,268	4,627	7,295	4,788	9,983
September	121,520	54,187	3,059	765	24,509	3,272	22,582	37,454	1,722	4,996	7,445	5,127	10,589
October	119,475	52,659	3,059	643	23,644	3,244	22,068	38,424	1,967	4,509	7,729	4,954	9,233
November	119,285	52,863	3,227	895	23,815	3,022	21,904	36,486	1,874	4,799	8,117	5,141	10,004
December	121,832	54,282	3,256	736	25,602	2,939	21,748	36,968	1,878	4,605	8,322	5,359	10,418
1999: January	126,272	53,128	2,914	707	25,076	3,268	21,163	41,871	1,528	5,131	8,233	5,295	11,086
February	132,457	54,635	2,906	732	25,499	3,803	21,695	45,468	2,141	5,351	8,015	5,514	11,332
March	129,926	54,501	2,866	802	25,420	3,155	22,258	43,775	1,796	5,187	8,390	5,515	10,762
April	126,720	53,915	3,099	726	26,079	2,863	21,148	41,719	1,825	5,035	7,994	5,272	10,962
May	121,818	52,312	3,069	821	25,406	3,067	19,949	39,401	1,701	4,241	8,125	5,195	10,843
June	121,168	53,888	2,893	642	27,043	3,024	20,286	36,649	1,694	4,827	8,192	5,388	10,529
July	124,345	54,422	2,848	814	25,884	3,159	21,717	38,597	1,804	4,806	8,624	5,523	10,569
August	124,670	55,248	3,140	660	26,547	3,054	21,847	38,856	1,333	5,435	7,570	5,607	10,620
September	124,869	55,842	2,978	757	27,071	3,126	21,910	39,509	1,539	5,150	7,478	5,321	10,030
October	125,602	56,827	2,935	492	27,710	3,121	22,569	37,893	1,655	5,189	7,494	5,185	11,358
November ^f	132,778	57,753	2,838	651	28,278	3,192	22,794	43,597	1,538	5,500	7,621	5,127	11,641
December ^f	139,310	58,350	3,197	783	28,480	3,154	22,736	47,892	1,879	5,732	8,176	5,198	12,083
2000: January ^p	144,439	59,732	2,735	862	30,115	3,040	22,981	53,121	1,453	5,291	7,599	5,540	11,704
PERCENT CHANGE													
December 1999- January 2000	4	2	-14	10	6	-4	1	11	-23	-8	-7	7	-3

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 6. Monthly Value of Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period	Total construction	Private construction															All other private ⁵	
		Total ¹	Residential buildings					Nonresidential buildings								Public utilities ⁴		
			Total ²	New housing units			Total	Industrial	Office	Hotels, motels	Other commercial	Religious	Educational	Hospital and institutional	Miscellaneous ³	Total		Telecommunications
				Total	1 unit	2 units or more												
YEAR TO DATE																		
January 1999	37,261	29,610	16,591	12,758	11,228	1,530	10,880	1,788	2,782	987	3,032	446	472	759	613	(NA)	750	149
January 2000	38,729	30,011	17,207	13,503	11,835	1,668	10,777	1,507	2,877	976	3,185	438	529	725	540	(NA)	(NA)	157
Percent change	4	1	4	6	5	9	-1	-16	3	-1	5	-2	12	-4	-12	(NA)	(NA)	5
MONTHLY DATA																		
1998: January	35,390	27,994	15,074	11,146	9,632	1,514	10,698	1,987	2,570	828	2,952	401	561	859	540	(NA)	676	155
February	34,587	27,273	14,423	10,747	9,224	1,524	10,734	2,004	2,523	818	2,965	406	600	875	544	(NA)	746	147
March	39,198	31,232	17,232	12,806	11,182	1,624	11,586	2,315	2,596	885	3,266	403	646	914	559	(NA)	926	163
April	43,056	33,979	19,036	13,687	11,994	1,693	12,145	2,211	2,773	951	3,460	409	697	967	677	(NA)	849	165
May	45,526	35,876	20,616	14,420	12,737	1,684	12,168	2,171	2,851	905	3,597	382	718	930	615	(NA)	881	178
June	50,840	39,373	22,105	15,457	13,744	1,712	13,090	2,274	3,016	1,088	3,942	427	739	934	669	(NA)	944	233
July	51,711	39,718	22,887	16,336	14,582	1,754	12,747	2,136	2,842	1,055	3,993	444	697	906	674	(NA)	905	192
August	52,541	40,157	23,260	16,572	14,892	1,680	13,144	2,333	2,798	1,110	4,029	498	731	962	683	(NA)	911	207
September	52,091	39,333	22,685	16,633	14,909	1,723	13,159	2,348	2,872	1,144	3,998	511	664	958	664	(NA)	932	206
October	50,384	38,885	22,418	16,419	14,652	1,766	13,238	2,227	3,028	1,180	4,053	531	600	933	686	(NA)	1,016	206
November	47,229	37,182	21,287	15,884	14,227	1,657	12,908	2,141	3,009	1,094	3,924	545	595	934	666	(NA)	896	212
December	42,177	33,343	18,175	13,723	12,161	1,561	12,403	2,123	2,926	1,062	3,570	516	592	947	667	(NA)	927	192
1999: January	37,261	29,610	16,591	12,758	11,228	1,530	10,880	1,788	2,782	987	3,032	446	472	759	613	(NA)	750	149
February	36,959	29,046	15,843	12,299	10,662	1,637	11,210	1,752	2,899	1,041	3,121	428	503	832	634	(NA)	747	153
March	41,809	33,174	18,941	14,620	12,786	1,835	11,846	1,807	2,989	1,130	3,405	439	542	836	699	(NA)	1,012	192
April	44,503	34,947	20,374	15,201	13,343	1,859	11,912	1,683	3,033	1,113	3,509	454	609	808	703	(NA)	943	218
May	47,239	36,992	22,068	16,036	14,155	1,881	12,174	1,629	3,121	1,089	3,777	451	606	816	683	(NA)	827	223
June	50,815	39,341	23,297	16,782	14,897	1,885	12,390	1,704	3,141	968	3,955	477	711	796	637	(NA)	937	226
July	51,499	39,503	23,558	17,222	15,365	1,858	12,295	1,712	3,102	999	3,888	452	720	769	653	(NA)	993	220
August	52,770	39,887	23,842	17,441	15,514	1,926	12,602	1,740	3,330	1,002	3,872	507	717	790	644	(NA)	1,029	237
September	51,736	38,754	23,041	17,247	15,357	1,890	12,597	1,786	3,351	992	3,866	484	642	826	650	(NA)	921	214
October	50,049	38,099	22,752	16,856	15,050	1,807	12,393	1,753	3,228	907	3,900	512	628	833	632	(NA)	1,008	209
November ^r	48,047	36,838	21,743	16,477	14,695	1,783	12,206	1,753	3,083	994	3,869	473	600	811	624	(NA)	997	218
December ^r	43,110	33,001	18,654	14,426	12,698	1,729	11,491	1,770	2,943	990	3,424	434	577	758	595	(NA)	1,132	213
2000: January ^p	38,729	30,011	17,207	13,503	11,835	1,668	10,777	1,507	2,877	976	3,185	438	529	725	540	(NA)	(NA)	157
PERCENT CHANGE																		
December 1999- January 2000	-10	-9	-8	-6	-7	-4	-6	-15	-2	-1	-7	1	-8	-4	-9	(NA)	(NA)	-26

See footnotes at end of table.

Table 6. **Monthly Value of Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars—Con.**

[Millions of dollars]

Period	Public construction												
	Total	Buildings						Highways and streets	Military facilities	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous public ⁷
		Total	Housing and redevelopment	Industrial	Educational	Hospital	Other public buildings ⁶						
YEAR TO DATE													
January 1999.	7,651	3,788	221	51	1,724	247	1,544	1,790	119	341	556	353	705
January 2000.	8,718	4,274	205	63	2,098	229	1,680	2,351	111	354	514	372	744
Percent change	14	13	-7	24	22	-7	9	31	-7	4	-8	5	6
MONTHLY DATA													
1998: January.	7,396	3,839	241	62	1,660	270	1,605	1,634	157	294	484	317	671
February	7,314	3,815	242	65	1,628	253	1,627	1,608	164	358	463	324	582
March	7,966	3,971	259	78	1,650	307	1,677	1,959	198	351	515	330	642
April	9,077	4,253	279	69	1,853	246	1,806	2,638	181	330	546	391	737
May	9,650	4,364	266	66	1,952	276	1,802	3,005	179	358	550	411	783
June	11,467	4,941	300	64	2,369	275	1,933	3,910	187	422	642	399	966
July.	11,993	5,190	329	76	2,542	261	1,981	4,098	230	406	670	444	955
August	12,383	5,171	276	71	2,560	252	2,011	4,459	198	424	693	437	1,002
September	12,758	5,108	283	87	2,331	323	2,083	4,498	184	651	725	468	1,124
October.	11,500	4,606	272	47	2,051	278	1,959	4,339	132	321	753	496	852
November.	10,047	4,357	277	74	1,868	249	1,890	3,101	158	398	721	466	846
December.	8,834	4,196	268	64	1,871	250	1,743	2,277	162	369	635	420	776
1999: January.	7,651	3,788	221	51	1,724	247	1,544	1,790	119	341	556	353	705
February	7,914	3,896	218	56	1,725	289	1,608	1,891	148	372	518	366	724
March	8,634	4,108	227	68	1,822	259	1,733	2,254	151	395	605	387	733
April	9,556	4,290	257	60	2,012	229	1,731	2,830	145	397	613	417	864
May	10,247	4,339	257	66	2,060	249	1,707	3,382	145	348	675	441	917
June	11,474	4,884	250	56	2,553	263	1,762	3,857	149	422	735	469	957
July.	11,996	5,050	238	70	2,605	266	1,871	4,101	156	419	776	505	989
August	12,883	5,303	262	54	2,800	252	1,935	4,663	115	508	714	516	1,065
September	12,981	5,243	273	87	2,563	300	2,020	4,675	164	659	726	489	1,026
October.	11,950	4,958	258	35	2,392	276	1,997	4,235	111	361	725	518	1,042
November ^r	11,209	4,748	249	55	2,208	270	1,967	3,724	130	464	682	464	997
December ^r	10,109	4,497	266	68	2,077	269	1,817	3,057	163	456	636	406	894
2000: January ^p	8,718	4,274	205	63	2,098	229	1,680	2,351	111	354	514	372	744
PERCENT CHANGE													
December 1999- January 2000.	-14	-5	-23	-7	1	-15	-8	-23	-32	-22	-19	-8	-17

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 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					
1998:	January	7,849	4,216	253	2,009	255	1,700	1,930	154	567	376	605
	February	7,699	4,169	244	1,970	240	1,716	1,891	139	541	384	574
	March	8,391	4,309	282	1,999	267	1,761	2,301	152	603	392	634
	April	9,777	4,687	300	2,254	236	1,897	3,091	141	640	464	752
	May	10,463	4,844	282	2,383	248	1,932	3,520	165	647	488	799
	June	12,598	5,579	324	2,908	256	2,091	4,597	202	759	476	985
	July	13,107	5,810	345	3,128	226	2,111	4,833	163	790	529	983
	August	13,755	5,880	284	3,159	225	2,213	5,298	182	819	523	1,053
	September	13,655	5,633	294	2,883	253	2,204	5,367	177	859	562	1,057
	October	13,068	5,288	304	2,547	257	2,180	5,186	183	889	600	923
	November	11,012	4,948	298	2,325	247	2,078	3,703	148	847	565	801
	December	9,577	4,745	296	2,338	258	1,854	2,723	134	746	512	718
1999:	January	8,394	4,345	252	2,159	223	1,712	2,145	150	652	431	672
	February	8,577	4,419	247	2,165	236	1,770	2,266	136	607	447	703
	March	9,519	4,716	249	2,298	242	1,927	2,716	134	723	475	755
	April	10,696	5,004	284	2,547	230	1,943	3,427	178	732	510	846
	May	11,715	5,091	295	2,616	248	1,932	4,134	143	812	542	994
	June	13,203	5,795	281	3,265	266	1,984	4,751	168	890	579	1,020
	July	13,837	6,002	269	3,340	255	2,138	5,038	169	940	624	1,065
	August	15,005	6,399	304	3,594	277	2,224	5,736	212	867	640	1,151
	September	14,734	6,158	308	3,300	308	2,242	5,757	211	884	608	1,117
	October	14,109	6,021	300	3,084	307	2,330	5,207	200	881	643	1,157
	November ^r	12,982	5,677	287	2,848	305	2,237	4,586	223	829	576	1,091
	December ^r	11,542	5,340	309	2,685	283	2,063	3,770	197	773	505	958
2000:	January ^p	10,085	5,136	237	2,723	242	1,934	2,915	140	628	464	803
		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
1998:	January	1,009	429	40	76	-	71	243	(NA)	188	191	188
	February	1,047	447	50	79	1	66	253	(NA)	196	280	111
	March	1,138	504	32	95	-	105	272	(NA)	237	259	122
	April	1,087	488	39	84	1	63	301	(NA)	216	246	115
	May	1,107	483	42	81	1	90	269	(NA)	215	256	123
	June	1,204	488	44	78	2	82	283	(NA)	225	297	158
	July	1,360	580	61	93	2	95	329	(NA)	279	315	148
	August	1,249	506	57	88	3	87	271	(NA)	241	319	139
	September	1,839	690	57	108	3	148	375	(NA)	225	595	285
	October	927	433	34	58	-	88	253	(NA)	162	196	94
	November	1,228	478	48	92	1	63	275	(NA)	194	320	206
	December	1,228	501	41	80	1	55	325	(NA)	199	299	205
1999:	January	985	406	27	64	3	87	225	(NA)	147	249	167
	February	1,127	471	26	70	1	127	247	(NA)	182	300	159
	March	1,140	468	37	85	1	85	260	(NA)	187	338	127
	April	1,130	428	42	76	1	60	249	(NA)	181	297	198
	May	1,034	420	32	83	1	67	237	(NA)	181	277	123
	June	1,178	453	39	72	1	71	270	(NA)	188	343	155
	July	1,203	479	39	89	3	86	263	(NA)	197	338	146
	August	1,167	416	34	70	4	46	263	(NA)	145	404	155
	September	1,583	596	46	112	1	78	360	(NA)	207	591	145
	October	917	373	35	45	-	49	244	(NA)	141	238	121
	November ^r	1,120	450	36	71	-	43	301	(NA)	164	342	132
	December ^r	1,205	478	38	89	1	64	287	(NA)	207	357	140
2000:	January ^p	978	414	30	82	-	55	246	(NA)	142	293	115

- 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 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					
1998:	January	131,093	59,104	3,236	29,400	3,315	23,153	45,775	2,489	8,391	5,579	9,755
	February	130,245	58,904	3,255	29,142	3,161	23,347	45,847	2,239	8,264	5,770	9,219
	March	129,501	57,635	3,630	27,736	3,253	23,017	46,176	2,297	8,241	5,583	9,568
	April	130,760	59,213	3,617	29,463	2,853	23,281	46,198	1,775	8,277	5,834	9,463
	May	124,220	58,066	3,337	29,293	3,060	22,376	41,248	1,942	7,820	5,711	9,432
	June	133,510	61,629	3,693	31,018	2,952	23,967	44,994	2,197	8,505	5,448	10,736
	July	132,659	62,246	4,056	30,894	2,683	24,612	43,673	1,709	8,932	5,809	10,290
	August	131,590	60,855	3,488	29,729	2,800	24,839	44,331	1,775	8,623	5,732	10,274
	September	133,139	61,029	3,288	30,317	2,758	24,667	44,691	1,781	8,822	6,158	10,659
	October	131,696	59,449	3,337	29,364	2,820	23,929	45,929	1,852	9,121	5,989	9,357
	November	130,493	60,031	3,453	29,643	3,000	23,936	43,565	1,734	9,537	6,236	9,390
	December	134,430	62,101	3,623	31,988	3,046	23,444	44,210	1,853	9,770	6,532	9,963
1999:	January	140,524	61,050	3,301	31,405	2,896	23,448	50,164	2,410	9,658	6,465	10,778
	February	146,523	62,381	3,304	31,992	3,107	23,977	54,495	2,187	9,394	6,739	11,327
	March	146,132	63,221	3,180	32,071	2,972	24,999	52,730	2,020	10,017	6,767	11,376
	April	142,595	63,093	3,424	33,003	2,896	23,770	50,514	2,252	9,553	6,453	10,732
	May	138,863	61,191	3,505	32,257	3,053	22,376	48,157	1,676	9,775	6,379	11,685
	June	138,416	63,772	3,261	34,575	3,065	22,870	45,138	1,826	9,921	6,649	11,110
	July	141,893	64,235	3,220	33,179	3,047	24,790	47,417	1,775	10,443	6,820	11,201
	August	143,261	65,944	3,642	34,066	3,365	24,871	47,798	2,081	9,190	6,953	11,295
	September	144,551	66,731	3,455	34,860	3,344	25,071	48,651	2,139	9,100	6,614	11,317
	October	143,929	67,993	3,318	35,716	3,330	25,629	46,594	2,034	9,105	6,434	11,768
	November ^r	153,781	69,177	3,263	36,478	3,606	25,831	53,686	2,593	9,259	6,362	12,703
	December ^r	161,347	70,019	3,738	36,817	3,345	26,119	59,058	2,705	9,942	6,455	13,167
2000:	January ^p	168,984	71,902	3,161	39,088	3,194	26,459	65,880	2,220	9,286	6,914	12,781
		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
1998:	January	13,878	5,695	526	1,001	3	947	3,218	(NA)	2,423	2,746	2,705
	February	14,454	5,873	651	1,033	11	860	3,318	(NA)	2,845	3,882	1,540
	March	14,267	6,206	398	1,170	4	1,287	3,346	(NA)	2,820	3,343	1,577
	April	13,673	6,037	478	1,042	17	776	3,725	(NA)	2,725	3,123	1,459
	May	13,602	6,015	527	1,007	17	1,117	3,347	(NA)	2,530	3,187	1,530
	June	13,960	5,618	503	899	21	940	3,255	(NA)	2,610	3,512	1,867
	July	15,804	6,863	722	1,104	19	1,129	3,889	(NA)	3,231	3,649	1,710
	August	14,765	6,336	715	1,106	31	1,086	3,397	(NA)	2,760	3,695	1,606
	September	14,644	6,051	496	947	25	1,293	3,290	(NA)	2,103	4,139	1,984
	October	13,863	5,956	465	799	3	1,210	3,480	(NA)	2,407	3,469	1,658
	November	14,880	5,800	581	1,114	7	763	3,335	(NA)	2,296	3,905	2,515
	December	14,441	5,774	470	920	14	629	3,742	(NA)	2,306	3,553	2,434
1999:	January	13,863	5,584	365	886	40	1,203	3,091	(NA)	1,881	3,609	2,414
	February	15,452	6,189	346	919	9	1,665	3,250	(NA)	2,636	4,084	2,159
	March	13,901	5,565	443	1,012	10	1,010	3,090	(NA)	2,223	4,173	1,571
	April	14,102	5,176	511	920	13	729	3,003	(NA)	2,268	3,765	2,510
	May	12,718	5,258	405	1,042	9	842	2,959	(NA)	2,128	3,425	1,522
	June	13,505	5,160	448	821	13	803	3,076	(NA)	2,137	4,019	1,809
	July	14,077	5,605	450	1,044	30	1,006	3,074	(NA)	2,275	4,045	1,747
	August	13,385	5,065	409	848	46	560	3,202	(NA)	1,682	4,517	1,736
	September	12,679	5,212	398	975	8	683	3,149	(NA)	1,947	4,129	1,010
	October	14,209	5,283	492	635	1	693	3,463	(NA)	2,092	4,271	2,169
	November ^r	13,347	5,355	429	840	1	511	3,574	(NA)	1,946	4,090	1,581
	December ^r	14,158	5,466	435	1,012	7	733	3,279	(NA)	2,380	4,265	1,670
2000:	January ^p	13,773	5,658	416	1,119	1	751	3,370	(NA)	1,848	4,245	1,661

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 9. Monthly Value of Public Construction Put in Place—Seasonally Adjusted Annual Rate in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1998:	January	109,583	48,837	2,666	24,298	2,740	19,135	38,499	2,123	7,160	4,704	8,260
	February	109,068	48,675	2,684	24,084	2,612	19,295	38,722	1,914	7,063	4,861	7,833
	March	108,412	47,554	2,995	22,884	2,684	18,991	39,033	1,962	7,038	4,695	8,129
	April	109,349	48,660	2,977	24,209	2,344	19,130	39,151	1,514	7,062	4,915	8,047
	May	103,609	47,563	2,740	23,991	2,506	18,326	34,926	1,652	6,650	4,811	8,007
	June	110,863	50,189	3,010	25,259	2,404	19,517	37,970	1,859	7,196	4,574	9,075
	July	109,895	50,563	3,293	25,097	2,180	19,994	36,731	1,451	7,582	4,877	8,691
	August	108,501	49,278	2,827	24,072	2,267	20,112	37,004	1,501	7,295	4,788	8,634
	September	109,450	49,299	2,658	24,488	2,228	19,925	37,149	1,503	7,445	5,127	8,927
	October	108,074	47,864	2,685	23,642	2,270	19,266	38,115	1,569	7,729	4,954	7,843
	November	107,014	48,207	2,762	23,810	2,410	19,225	36,183	1,476	8,117	5,141	7,891
	December	109,955	49,664	2,882	25,591	2,436	18,755	36,658	1,579	8,322	5,359	8,373
1999:	January	114,876	48,676	2,624	25,044	2,309	18,699	41,561	2,054	8,233	5,295	9,057
	February	119,767	49,704	2,631	25,492	2,476	19,105	45,149	1,866	8,015	5,514	9,518
	March	118,616	50,092	2,516	25,413	2,355	19,809	43,471	1,692	8,390	5,515	9,456
	April	115,266	49,828	2,696	26,068	2,287	18,776	41,405	1,884	7,994	5,272	8,884
	May	111,569	48,173	2,751	25,399	2,404	17,619	39,089	1,393	8,125	5,195	9,594
	June	110,341	49,854	2,544	27,033	2,396	17,881	36,343	1,508	8,192	5,388	9,055
	July	113,081	50,055	2,498	25,860	2,375	19,322	38,271	1,466	8,624	5,523	9,143
	August	113,951	51,307	2,823	26,511	2,618	19,355	38,547	1,714	7,570	5,607	9,205
	September	114,764	51,797	2,670	27,065	2,596	19,465	39,203	1,757	7,478	5,321	9,208
	October	114,250	52,731	2,556	27,708	2,583	19,883	37,576	1,674	7,494	5,185	9,591
	November ^r	122,134	53,604	2,508	28,277	2,795	20,024	43,295	2,134	7,621	5,127	10,353
	December ^r	128,036	54,126	2,864	28,474	2,587	20,200	47,589	2,225	8,176	5,198	10,722
2000:	January ^p	133,521	55,376	2,417	30,114	2,461	20,384	52,831	1,817	7,599	5,540	10,358
		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
1998:	January	11,617	4,705	434	827	2	782	2,660	(NA)	2,019	2,343	2,291
	February	12,121	4,852	537	854	9	711	2,742	(NA)	2,377	3,318	1,308
	March	11,942	5,120	328	966	3	1,062	2,761	(NA)	2,356	2,855	1,340
	April	11,420	4,961	393	856	14	637	3,061	(NA)	2,275	2,665	1,241
	May	11,331	4,927	432	825	14	914	2,741	(NA)	2,107	2,710	1,298
	June	11,587	4,575	410	732	17	765	2,650	(NA)	2,164	2,972	1,579
	July	13,082	5,574	586	897	15	917	3,159	(NA)	2,670	3,097	1,444
	August	12,181	5,131	580	896	25	879	2,751	(NA)	2,268	3,126	1,350
	September	12,070	4,888	401	765	21	1,044	2,657	(NA)	1,722	3,493	1,662
	October	11,401	4,795	374	643	2	974	2,802	(NA)	1,967	2,940	1,390
	November	12,271	4,656	464	895	6	613	2,679	(NA)	1,874	3,324	2,113
	December	11,877	4,617	374	736	11	503	2,993	(NA)	1,878	3,026	2,046
1999:	January	11,396	4,452	290	707	32	959	2,465	(NA)	1,528	3,076	2,029
	February	12,690	4,931	275	732	7	1,327	2,590	(NA)	2,141	3,484	1,814
	March	11,310	4,409	351	802	8	800	2,449	(NA)	1,796	3,495	1,306
	April	11,454	4,087	403	726	11	576	2,372	(NA)	1,825	3,150	2,078
	May	10,249	4,139	318	821	7	663	2,330	(NA)	1,701	2,847	1,250
	June	10,827	4,034	349	642	10	628	2,405	(NA)	1,694	3,319	1,474
	July	11,264	4,367	349	814	24	784	2,396	(NA)	1,804	3,340	1,426
	August	10,719	3,941	317	660	36	436	2,492	(NA)	1,333	3,721	1,415
	September	10,105	4,045	307	757	6	530	2,445	(NA)	1,539	3,393	822
	October	11,351	4,096	379	492	1	537	2,686	(NA)	1,655	3,515	1,767
	November ^r	10,643	4,149	330	651	1	396	2,770	(NA)	1,538	3,366	1,288
	December ^r	11,274	4,224	333	783	5	567	2,536	(NA)	1,879	3,507	1,360
2000:	January ^p	10,919	4,357	318	862	1	579	2,596	(NA)	1,453	3,474	1,346

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 10. Monthly Value of Public Construction Put in Place—Not Seasonally Adjusted in 1992 Dollars

[Millions of dollars]

Period		State and locally owned public construction										
		Total state and local	Buildings					Highways and streets	Conservation and development	Sewer systems	Water supply facilities	Miscellaneous construction ²
			Total	Housing and redevelopment	Educational	Hospital	Other buildings ¹					
1998:	January	6,552	3,484	208	1,660	210	1,405	1,623	132	484	317	512
	February	6,436	3,445	201	1,628	199	1,418	1,597	119	463	324	488
	March	7,014	3,555	232	1,650	220	1,453	1,945	130	515	330	539
	April	8,169	3,852	247	1,852	194	1,559	2,620	120	546	391	640
	May	8,728	3,968	232	1,951	203	1,582	2,980	140	550	411	679
	June	10,468	4,544	264	2,368	209	1,703	3,879	171	642	399	833
	July	10,867	4,719	280	2,541	184	1,714	4,065	139	670	444	830
	August	11,352	4,762	230	2,558	182	1,792	4,422	154	693	437	885
	September	11,239	4,550	237	2,328	204	1,780	4,461	149	725	468	885
	October	10,739	4,257	244	2,051	207	1,755	4,304	155	753	496	774
	November	9,034	3,974	239	1,867	198	1,669	3,076	126	721	466	673
	December	7,825	3,795	235	1,870	206	1,483	2,258	114	635	420	604
1999:	January	6,842	3,464	200	1,722	177	1,365	1,777	128	556	353	565
	February	6,988	3,521	197	1,725	188	1,411	1,877	116	518	366	591
	March	7,708	3,737	197	1,821	192	1,527	2,239	112	605	387	627
	April	8,639	3,952	224	2,012	181	1,535	2,809	149	613	417	700
	May	9,414	4,008	232	2,059	196	1,521	3,355	119	675	441	816
	June	10,530	4,530	219	2,552	208	1,551	3,825	138	735	469	832
	July	11,033	4,677	209	2,603	199	1,666	4,066	139	776	505	869
	August	11,948	4,979	236	2,797	216	1,731	4,626	175	714	516	938
	September	11,716	4,780	238	2,562	239	1,741	4,639	173	726	489	909
	October	11,219	4,669	231	2,392	238	1,808	4,199	165	725	518	943
	November ^r	10,316	4,399	221	2,208	236	1,734	3,698	183	682	464	889
	December ^r	9,150	4,128	237	2,076	219	1,596	3,038	162	636	406	780
2000:	January ^p	7,943	3,955	181	2,098	186	1,490	2,338	114	514	372	651

		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
1998:	January	844	355	33	62	-	59	201	(NA)	157	163	159
	February	878	370	41	65	1	54	209	(NA)	164	239	94
	March	952	416	27	78	-	86	224	(NA)	198	221	104
	April	908	401	32	69	1	52	247	(NA)	181	210	98
	May	922	396	35	66	1	73	220	(NA)	179	218	104
	June	999	397	36	64	1	66	230	(NA)	187	251	133
	July	1,126	471	50	76	1	77	267	(NA)	230	267	125
	August	1,031	410	46	71	2	70	220	(NA)	198	270	117
	September	1,519	558	46	87	2	119	303	(NA)	184	502	239
	October	761	349	27	47	-	71	204	(NA)	132	166	79
	November	1,012	383	38	74	-	50	221	(NA)	158	272	173
	December	1,009	401	32	64	1	44	260	(NA)	162	255	172
1999:	January	809	324	21	51	2	70	179	(NA)	119	213	140
	February	926	375	21	56	1	101	197	(NA)	148	256	133
	March	927	371	30	68	1	67	206	(NA)	151	283	106
	April	917	338	33	60	1	48	196	(NA)	145	249	164
	May	833	331	25	66	1	53	186	(NA)	145	230	101
	June	944	354	31	56	1	55	211	(NA)	149	283	126
	July	963	373	30	70	2	67	205	(NA)	156	279	119
	August	936	324	26	54	3	36	205	(NA)	115	333	127
	September	1,265	463	35	87	1	61	280	(NA)	164	485	118
	October	730	289	27	35	-	38	190	(NA)	111	196	99
	November ^r	893	349	28	55	-	33	233	(NA)	130	281	108
	December ^r	959	369	29	68	-	50	222	(NA)	163	294	114
2000:	January ^p	775	318	23	63	-	42	190	(NA)	111	240	93

- 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 11. Indexes Used in Deriving Estimates of the Value of Construction Put in Place in Constant Dollars

[1992 = 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														
1995.....	112.5	112.6	109.8	109.8	114.4	114.3	115.9	110	109	115	111	111	112	110
1996.....	115.0	115.2	113.0	112.8	116.4	116.5	116.1	112	112	118	112	112	115	115
1997.....	118.7	118.9	118.7	116.9	119.9	119.9	124.7	116	117	122	115	115	118	117
1998.....	122.0	122.2	119.7	118.8	123.3	123.0	122.2	118	122	123	117	117	120	117
1999.....	^r 126.8	^r 126.9	121.9	121.5	^r 129.2	^r 128.2	(NA)	120	127	(NA)	(NA)	(NA)	(NA)	(NA)
Monthly indexes						Quarterly indexes				Semiannual indexes				
1998: January.....	120.9	120.7	118.7	117.4	122.0	121.4								
February.....	120.5	120.7	119.0	117.8	121.5	121.3	113.8	118	120					
March.....	120.5	120.7	118.9	117.9	121.3	121.2				122	116	116	118	118
April.....	120.9	120.9	119.1	118.0	121.9	121.5								
May.....	121.1	121.2	119.1	118.0	122.0	121.8	119.5	118	121					
June.....	121.8	121.8	119.2	118.3	123.0	122.7								
July.....	122.2	122.1	119.4	118.8	123.7	123.2								
August.....	122.6	122.5	119.7	118.9	123.9	123.4	130.2	118	123					
September.....	122.8	122.8	120.5	119.6	124.0	123.7				124	117	117	119	117
October.....	123.1	123.3	120.8	120.1	124.3	124.3								
November.....	123.4	123.8	120.8	120.3	125.0	125.0	125.0	119	124					
December.....	124.1	124.3	120.7	120.2	126.0	125.7								
1999: January.....	124.5	124.6	120.9	120.4	126.4	125.8								
February.....	124.8	124.6	120.6	120.2	126.8	125.6	124.4	118	125					
March.....	125.7	125.3	120.4	120.1	127.8	126.4				125	118	118	122	117
April.....	125.6	125.7	120.7	120.5	127.6	127.0								
May.....	125.9	126.2	120.8	120.5	127.6	127.4	136.4	119	126					
June.....	126.9	126.9	121.1	121.2	128.6	128.2								
July.....	127.5	127.4	122.1	121.9	129.6	128.9								
August.....	127.5	127.5	122.6	122.2	129.5	129.0	125.4	121	127					
September.....	128.0	127.9	123.3	122.7	130.1	129.4				126	119	120	123	118
October.....	128.2	128.1	123.7	123.1	130.6	129.8								
November.....	^r 128.4	^r 128.3	123.5	122.9	^r 130.9	^r 130.1	(NA)	122	129					
December.....	^r 128.6	^r 128.5	123.4	122.9	^r 131.2	^r 130.5								
2000: January.....	^p 128.7	^p 129.2	123.6	123.0	^p 131.0	^p 130.8								
February.....			124.3	123.6			(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	Jan. 2000 ^P	Dec. 1999 ^f	Nov. 1999 ^f	Oct. 1999	Sep. 1999	Aug. 1999	July 1999	June 1999	May 1999	Apr. 1999	Mar. 1999	Jan. 1999
PRIVATE CONSTRUCTION												
Residential buildings:												
New housing units:												
1 unit	81.7	89.3	106.0	109.9	113.0	114.0	112.5	108.4	101.8	95.5	91.3	81.2
2 units or more	87.9	94.5	100.0	105.1	104.4	106.9	104.0	107.1	105.2	100.2	95.6	87.5
Nonresidential buildings:												
Industrial	89.9	105.4	104.2	107.3	108.0	104.4	100.4	102.7	99.4	97.5	94.2	90.0
Office	91.7	97.1	101.7	103.5	104.2	105.0	100.5	101.9	101.4	100.4	97.5	91.7
Hotels, motels	92.2	97.6	102.3	95.7	103.2	102.4	100.6	103.0	102.1	103.9	104.2	87.8
Other commercial	84.0	94.1	104.6	111.3	112.7	111.6	107.2	106.2	100.6	94.7	89.6	83.7
Religious	90.7	99.9	112.2	109.9	113.5	109.3	97.6	96.7	97.0	93.6	92.1	87.2
Educational	83.0	87.2	95.6	99.5	107.8	120.3	119.2	117.3	102.3	94.8	91.3	83.2
Hospital and institutional	94.2	99.0	103.9	105.2	103.7	103.1	97.2	100.3	100.6	99.3	98.6	94.2
Miscellaneous nonresidential	88.5	97.1	102.7	105.9	104.3	103.1	102.6	102.7	100.3	104.3	97.9	88.1
Telecommunications	77.2	107.7	107.4	106.6	104.0	108.7	103.2	107.3	94.4	101.1	100.6	79.0
All other private	84.7	100.2	107.5	113.3	110.3	116.2	108.1	101.5	98.4	93.6	90.2	85.1
PUBLIC CONSTRUCTION												
State and local												
Buildings:												
Housing and redevelopment	90.0	99.2	105.7	108.5	107.0	100.2	100.2	103.4	101.1	99.6	94.0	91.5
Educational	83.6	87.5	93.7	103.6	113.6	126.6	120.8	113.3	97.3	92.6	86.0	82.5
Hospital	90.8	101.6	101.5	110.7	110.5	98.9	100.4	104.0	97.6	95.1	97.6	92.2
Other buildings	87.7	94.8	103.9	109.1	107.3	107.3	103.5	104.1	103.6	98.1	92.5	87.6
Highways and streets	53.1	76.6	102.5	134.1	142.0	144.0	127.5	126.3	103.0	81.4	61.8	51.3
Conservation and development	75.4	87.3	103.1	118.0	118.4	122.3	114.1	110.2	102.1	94.6	79.6	74.8
Sewer systems	81.1	93.3	107.4	116.1	116.5	113.2	108.0	107.7	99.7	92.0	86.6	81.0
Water supply facilities	80.5	93.8	108.6	119.9	110.3	110.4	109.7	104.5	101.9	94.9	84.3	80.0
Miscellaneous construction	75.4	87.3	103.1	118.0	118.4	122.3	114.1	110.2	102.1	94.6	79.6	74.8
Federal												
Buildings:												
Housing and redevelopment	87.7	104.9	100.9	84.7	137.3	98.6	102.6	105.3	95.9	99.3	101.0	87.2
Industrial	87.7	104.9	100.9	84.7	137.3	98.6	102.6	105.3	95.9	99.3	101.0	87.2
Educational	87.7	104.9	100.9	84.7	137.3	98.6	102.6	105.3	95.9	99.3	101.0	87.2
Hospital	87.7	104.9	100.9	84.7	137.3	98.6	102.6	105.3	95.9	99.3	101.0	87.2
Other buildings	87.7	104.9	100.9	84.7	137.3	98.6	102.6	105.3	95.9	99.3	101.0	87.2
Military	91.9	104.1	101.2	80.7	127.6	103.5	104.0	105.3	102.3	95.6	101.1	93.7
Conservation and development	82.8	100.5	100.2	66.9	171.6	107.4	100.3	102.5	96.9	94.7	97.1	82.9
Miscellaneous construction	82.8	100.5	100.2	66.9	171.6	107.4	100.3	102.5	96.9	94.7	97.1	82.9

^PPreliminary. ^fRevised.

Appendix.

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 1998 (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 55 percent of the value-in-place estimates.

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

MEASURE OF SAMPLING ERRORS

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

Estimates of the standard errors for the monthly, year-to-date and annual estimates were computed from the sample data for selected statistics in this report.

They are presented in the form of relative standard errors in the following table. The relative standard error equals the standard error divided by the estimated value to which it refers.

The sample estimate and an estimate of its standard error allow us to construct interval estimates with prescribed confidence that the interval includes the average result of all possible samples with the same size and design. A 90-percent confidence interval is defined to be from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate. If all possible samples were selected and surveyed under essentially the same conditions and all the respective 90-percent confidence intervals were generated, then approximately nine-tenths of the intervals would include the average value of all sample estimates and approximately one-tenth would not include this estimate. For example, suppose Table 3 of this report showed that the monthly VIP estimate for “total private nonresidential buildings” was \$10.0 billion in a particular month. According to the following table, the relative standard error of this estimate is 2 percent. Multiplying \$10.0 billion by 0.02, 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, 41 percent; state and locally owned public construction, 31 percent; private residential construction of 2 units or more, 42 percent; and private residential improvements, 13 percent. Each of these imputation rates is not an explicit indication of the potential error in statistics, but the degree of uncertainty regarding the accuracy of the statistics increases as the percentage of imputation increases.

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

For state and locally owned construction, construction outlays from the Survey of Government Finances are available only through fiscal year 1996. (Outlays are included if a government agency's fiscal year ending date falls within July 1995 to June 1996 inclusive, and for three state agencies with fiscal years ending in August or September 1996.) As a result, the adjustment to the construction outlay levels of this survey must be projected ahead for 4 years from 1996 through April 2000. The relationship between the state and locally owned value-in-place and the capital outlays estimate changes from year to year so that revisions of 4 to 5 percent are expected in state and local construction and substantially larger revisions can be expected in the individual types of construction. In addition, because of the definition of fiscal year for the Survey of Government Finances, the reported capital outlays do not correspond to any 12 month period but result from capital outlays made over a 26 month period. There are also definitional and timing differences between the concepts of capital outlays and value put in place.

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

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

MONTHLY REVISIONS TO ESTIMATES

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

For total construction, the range of the difference between the last 12 preliminary and second revision estimates for the same months was from -1.3 percent to 1.6 percent with a median of 0.5 percent. The range of the difference between first revision and second revision was from -0.8 to 1.0 percent, with a median of 0.3 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	3	1	.04	.04
Residential buildings	5	5	2	.06	.06
New housing units	2	2	1	.01	.01
1 unit	2	2	2	.01	.01
2 units or more	4	4	3	.03	.03
Nonresidential buildings	2	2	1	.02	.02
Industrial	3	3	2	.04	.04
Office	4	4	2	.05	.05
Hotels, motels	7	7	5	.09	.09
Other commercial	5	5	2	.06	.06
Religious	9	9	5	.12	.12
Educational	7	7	5	.10	.10
Hospital and institutional	6	6	5	.07	.07
Miscellaneous buildings	7	7	4	.09	.09
Public construction	2	2	1	.03	.03
Housing and redevelopment	8	8	4	.11	.11
Industrial	(NA)	(NA)	(NA)	(NA)	(NA)
Educational	3	3	2	.04	.04
Hospital	6	6	4	.08	.08
Other public buildings	3	3	2	.04	.04
Highways and streets	4	4	2	.05	.05
Military facilities	(NA)	(NA)	(NA)	(NA)	(NA)
Conservation and development	4	4	2	.06	.06
Sewer systems	6	6	3	.08	.08
Water supply facilities	8	8	3	.11	.11
Miscellaneous public	8	8	4	.11	.11
State and local construction	2	2	1	.03	.03
Housing and redevelopment	8	8	5	.11	.11
Educational	3	3	2	.04	.04
Hospital	8	8	5	.11	.11
Other public buildings	4	4	2	.05	.05
Highways and streets	4	4	2	.05	.05
Conservation and development	16	16	9	.23	.23
Sewer systems	6	6	3	.08	.08
Water supply facilities	8	8	3	.11	.11
Miscellaneous public	9	9	4	.12	.12
Federal construction	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Note: All statistics are based upon 1999 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.