

Supplement.

Value of Construction Put in Place for Private Nonresidential Buildings, by Geographic Area and Type of Construction

The following tables present data on the value of construction put in place for private nonresidential buildings by geographic area and type of construction.

Table S-1 shows annual value put in place by major construction types in the four Census regions and nine geographic divisions. Table S-2 shows annual value put in place in the four regions for specified types of construction.

SOURCE OF INFORMATION

These statistics are estimated from the sample of projects used to collect monthly value of private nonresidential building construction put in place. In the private nonresidential survey, owners are asked to report the amount of work done on their projects each month until completion. This survey is described in Current Construction Reports C30/98-5, Value of Construction Put in Place: May 1998.

DEFINITIONS

Annual value of construction put in place is the cumulative value of work done on projects active during the year. This estimate corresponds with the value put in place estimates for private nonresidential buildings published monthly in this report. Private nonresidential building construction categories are the same as those used in the monthly survey, and are defined in Current Construction Reports C30/98-5. For this supplement, estimates have been made for specified types of construction within some of the major categories. These types of construction are defined as follows:

Private Nonresidential Buildings

Industrial Buildings

Manufacturing plants—Includes buildings or complexes involved in the direct manufacturing of products.

Other—Includes office buildings, industrial warehouses, and other buildings at industrial sites.

Hospitals and Institutional Buildings

Hospitals, clinics, and infirmaries—Includes surgical or outpatient clinics. Buildings which are used primarily for doctors' offices, but include some testing facilities, are classified as office buildings even though they may be known as clinics.

Nursing homes, rest homes, and related buildings—Includes sanatoria, convalescent homes, homes for the aged, orphanages, and similar establishments for prolonged institutional care.

Other Commercial Buildings

Retail and service establishments—Includes shopping centers, malls, retail stores, restaurants, service stations, freight and truck terminals, and other projects of a retail nature. This group is divided into projects of \$1 million or more and projects costing less than \$1 million.

Commercial warehouses—Includes warehouses and storage buildings, cold storage plants, grain elevators, and silos not located at industrial establishments.

Miscellaneous—Includes parking garages, one-story bank buildings, commercial laboratories, and buildings not classified elsewhere.

LIMITATIONS OF THE DATA

The statistics in this supplement are obtained from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The standard error is a measure of the sampling variability. As calculated for this report, it also partially measures the effect of certain nonsampling errors, but does not measure any systematic biases in the data. Sampling errors shown in the tables are in the form of relative standard errors—the standard error of the estimate divided by the value being estimated.

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, the value of construction put in place for all nonresidential building projects in the Northeast in 1997 was estimated to be \$27.2 billion with a relative standard error of 3 percent.

Multiplying \$27.2 billion by .03, we obtain \$0.8 billion as the standard error. To obtain a 90-percent confidence interval, multiply \$0.8 billion by 1.6; add and subtract the result from \$27.2 billion, yielding limits of \$25.9 billion and \$28.5 billion. The average value of construction put in place for all nonresidential building projects in the Northeast in 1997 may or may not be contained in this computed interval, but one can say that the average is included in the constructed interval with a specified confidence of 90 percent.

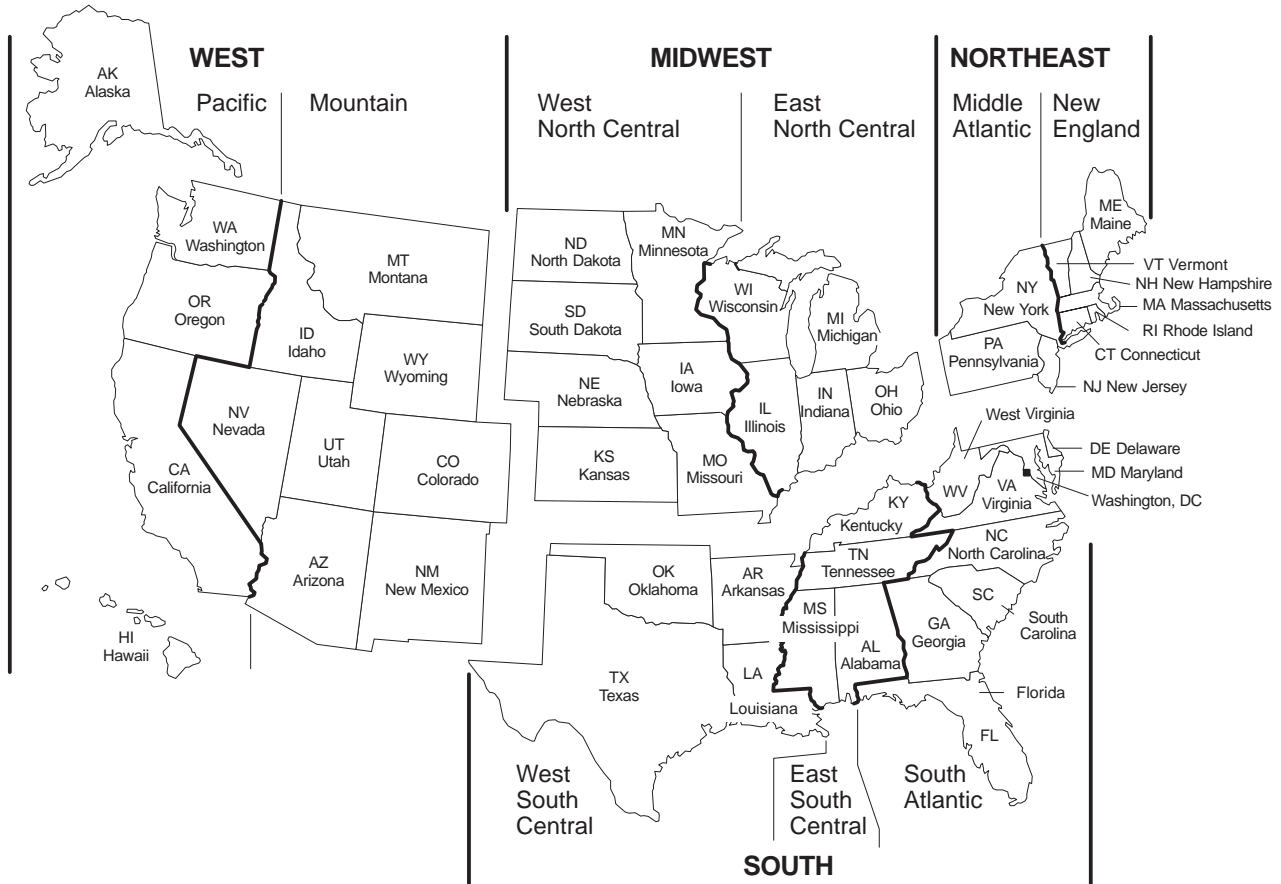


Table S1. Value of Construction Put in Place for Private Nonresidential Buildings, by Geographic Division and Type of Construction: 1993 to 1997

[Millions of dollars. Detail may not add to totals because of rounding]

Type of construction and year	All regions	Northeast			Midwest			South			West			
		Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
Total Nonresidential														
1993	110,635	22,039	6,875	15,163	25,128	18,506	6,622	37,375	19,616	6,131	11,628	26,092	7,906	18,186
1994	120,285	22,819	6,643	16,176	29,715	21,734	7,981	39,158	19,463	6,880	12,815	28,593	9,901	18,692
1995	135,022	22,556	5,936	16,620	32,771	23,100	9,672	43,757	21,999	7,287	14,472	35,937	13,643	22,294
1996	150,350	23,875	8,008	15,867	33,505	22,917	10,588	51,287	27,432	9,579	14,277	41,682	16,173	25,509
1997	165,146	27,183	9,130	18,053	36,661	27,597	9,064	59,499	33,408	9,965	16,127	41,803	15,209	26,595
Average relative standard error (percent)	1	3	5	3	3	3	5	2	3	5	5	3	6	3
Industrial														
1993	26,482	5,692	1,277	4,415	5,826	4,809	1,017	10,237	4,450	1,391	4,397	4,727	1,003	3,723
1994	28,947	4,548	1,135	3,414	7,076	5,589	1,486	10,196	4,433	1,902	3,861	7,126	2,605	4,522
1995	32,505	3,626	837	2,789	9,048	6,563	2,484	10,442	3,895	2,171	4,376	9,389	3,230	6,159
1996	32,657	3,047	968	2,079	9,040	6,595	2,445	12,047	4,723	2,768	4,556	8,522	2,843	5,679
1997	31,394	3,025	874	2,151	8,883	7,437	1,445	11,881	5,214	2,774	3,892	7,606	1,871	5,735
Average relative standard error (percent)	2	5	9	6	4	5	11	4	6	6	7	5	13	6
Office														
1993	20,920	4,635	1,230	3,404	4,686	3,469	1,219	6,274	3,584	618	2,074	5,323	968	4,355
1994	22,178	5,079	1,153	3,925	5,326	3,850	1,477	6,342	3,523	753	2,066	5,430	1,285	4,146
1995	25,613	5,294	1,209	4,085	5,499	3,710	1,789	7,292	4,108	840	2,344	7,529	2,385	5,144
1996	27,886	4,624	1,126	3,498	5,463	3,341	2,122	8,119	5,407	1,108	1,604	9,679	2,233	7,446
1997	32,816	6,781	1,804	4,976	5,711	3,684	2,027	10,485	6,375	1,298	2,813	9,839	2,473	7,366
Average relative standard error (percent)	3	5	7	6	8	5	11	4	4	15	10	5	13	5
Hotels and Motels														
1993	4,565	846	550	296	411	191	220	1,144	554	338	274	2,143	1,631	511
1994	4,648	402	105	297	783	536	248	1,353	503	556	294	2,109	1,621	488
1995	7,112	579	74	505	1,236	925	311	2,035	855	610	571	3,262	2,544	719
1996	10,912	1,278	553	725	1,960	1,072	888	3,622	1,741	1,101	779	4,053	3,315	737
1997	12,752	1,643	534	1,109	1,909	1,230	679	4,827	2,609	926	1,292	4,373	3,318	1,055
Average relative standard error (percent)	4	7	23	7	11	12	21	8	9	25	20	8	13	8
Other Commercial														
1993	32,453	4,763	1,616	3,147	7,863	5,660	2,203	11,330	6,509	1,789	3,032	8,496	2,577	5,919
1994	37,551	6,331	1,984	4,347	9,469	7,003	2,466	12,993	6,817	1,977	4,198	8,758	2,858	5,901
1995	42,654	6,330	1,626	4,704	10,376	7,362	3,015	15,366	8,639	2,260	4,466	10,582	3,553	7,029
1996	48,188	7,518	2,829	4,689	10,452	7,401	3,050	16,598	9,184	3,033	4,381	13,619	5,716	7,904
1997	50,763	7,373	2,653	4,719	11,387	8,554	2,833	19,337	11,647	3,192	4,498	12,666	4,878	7,788
Average relative standard error (percent)	2	6	12	7	6	7	12	4	5	12	11	6	12	7
Religious														
1993	3,887	356	58	298	995	639	356	1,658	799	431	429	878	294	585
1994	3,869	323	37	287	1,007	667	340	1,683	894	298	491	856	332	524
1995	4,326	357	35	322	1,088	653	435	1,948	988	445	515	932	365	567
1996	4,534	482	115	368	1,083	724	359	2,027	923	490	614	941	344	598
1997	5,885	425	147	278	1,417	938	479	2,625	1,426	497	702	1,418	685	733
Average relative standard error (percent)	5	18	40	19	12	15	22	8	12	20	21	15	25	19
Educational														
1993	4,649	1,598	695	904	1,105	750	355	1,282	879	157	245	664	128	536
1994	4,822	1,565	618	947	1,094	778	316	1,340	860	202	278	824	158	666
1995	5,493	1,736	803	932	1,264	827	436	1,389	769	251	368	1,104	417	687
1996	6,742	2,699	1,189	1,510	1,178	730	448	1,877	1,230	266	380	989	287	701
1997	8,437	2,981	1,378	1,603	1,557	1,161	397	2,262	1,450	358	455	1,637	450	1,188
Average relative standard error (percent)	5	7	10	9	11	13	19	12	12	17	19	10	24	11

Table S1. Value of Construction Put in Place for Private Nonresidential Buildings, by Geographic Division and Type of Construction: 1993 to 1997—Con.

[Millions of dollars. Detail may not add to totals because of rounding]

Type of construction and year	All regions	Northeast			Midwest			South				West		
		Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
Hospital and Institutional														
1993	12,492	3,442	1,075	2,365	2,959	2,136	823	3,880	2,182	701	997	2,212	313	1,899
1994	12,268	3,371	1,184	2,188	3,505	2,244	1,260	3,543	1,626	741	1,176	1,850	382	1,468
1995	11,248	3,422	1,094	2,328	2,790	2,098	692	3,501	1,782	588	1,131	1,535	572	963
1996	11,780	3,067	995	2,072	2,777	2,003	774	4,184	2,577	546	1,061	1,752	621	1,132
1997	13,741	3,398	1,329	2,069	3,755	3,038	717	4,721	2,575	541	1,604	1,868	744	1,124
Average relative standard error	4	8	13	10	10	11	15	9	10	20	19	9	23	10
Miscellaneous														
1993	5,188	789	267	521	1,294	957	338	1,662	653	578	430	1,443	680	764
1994	6,002	1,199	428	771	1,455	1,067	388	1,708	807	451	450	1,639	662	977
1995	6,071	1,213	257	956	1,471	962	509	1,784	962	122	701	1,603	577	1,027
1996	7,650	1,159	232	927	1,551	1,050	501	2,815	1,647	266	901	2,126	813	1,312
1997	9,358	1,559	412	1,147	2,042	1,555	487	3,361	2,111	379	871	2,396	791	1,606
Average relative standard error	4	11	21	13	9	11	17	7	9	21	15	10	14	13

Note: The average relative standard error is the average for the last five years.

Table S2. Value of Construction Put in Place for Private Nonresidential Buildings, by Region, for Specified Types of Construction: 1993 to 1997

[Millions of dollars. Detail may not add to totals because of rounding]

Region and year	Industrial buildings			Hospital and institutional buildings			Other commercial buildings				
	Total	Manufacturing plants	Other	Total	Hospitals, clinics, and infirmaries	Nursing homes, rest homes, and related buildings	Total	Retail and service establishments of—		Commercial warehouses	Miscellaneous
								\$1,000,000 or more	Less than \$1,000,000		
All Regions											
1993	26,482	16,749	9,733	12,492	9,459	3,033	32,453	15,966	9,517	5,283	1,686
1994	28,947	19,035	9,912	12,268	9,644	2,624	37,551	16,357	13,108	6,270	1,816
1995	32,505	23,015	9,490	11,248	8,622	2,626	42,654	18,180	13,103	9,192	2,179
1996	32,657	24,145	8,513	11,780	8,171	3,609	48,188	19,503	14,265	11,298	3,122
1997	31,394	21,006	10,388	13,741	9,871	3,871	50,763	18,715	16,673	12,212	3,162
Average relative standard error.....(percent)	2	2	6	5	5	10	3	3	5	6	10
Northeast											
1993	5,692	1,707	3,985	3,442	2,118	1,323	4,763	2,967	1,214	410	172
1994	4,548	1,649	2,900	3,371	2,307	1,065	6,331	2,949	2,274	818	289
1995	3,626	1,727	1,900	3,422	2,555	867	6,330	3,440	1,440	909	540
1996	3,047	2,124	924	3,067	2,226	841	7,518	3,858	2,017	1,159	483
1997	3,025	1,588	1,437	3,398	2,163	1,235	7,373	3,069	2,349	1,064	891
Average relative standard error.....(percent)	5	7	8	8	8	19	6	7	17	14	20
Midwest											
1993	5,826	4,287	1,539	2,959	2,334	626	7,863	3,338	2,316	1,764	444
1994	7,076	5,258	1,818	3,505	2,862	642	9,469	3,073	4,044	1,772	581
1995	9,048	6,318	2,730	2,790	2,172	618	10,376	3,637	4,018	2,353	369
1996	9,040	6,239	2,801	2,777	1,781	997	10,452	3,889	3,219	2,773	571
1997	8,883	6,101	2,781	3,755	2,778	976	11,387	4,000	3,792	3,049	545
Average relative standard error.....(percent)	4	4	14	10	10	20	6	8	12	12	20
South											
1993	10,237	7,306	2,931	3,880	3,068	813	11,330	5,164	3,803	1,617	745
1994	10,196	6,978	3,219	3,543	2,941	602	12,993	5,828	4,380	2,145	640
1995	10,442	7,802	2,640	3,501	2,697	804	15,366	6,363	4,990	3,330	683
1996	12,047	9,541	2,506	4,184	2,914	1,269	16,598	6,499	5,051	3,751	1,297
1997	11,881	8,192	3,688	4,721	3,573	1,149	19,337	6,817	6,817	4,570	1,133
Average relative standard error.....(percent)	4	4	12	9	11	18	4	6	10	10	17
West											
1993	4,727	3,449	1,277	2,212	1,939	273	8,496	4,496	2,185	1,491	324
1994	7,126	5,151	1,976	1,850	1,535	315	8,758	4,507	2,409	1,537	306
1995	9,389	7,168	2,221	1,535	1,199	336	10,582	4,740	2,655	2,600	587
1996	8,522	6,241	2,281	1,752	1,250	502	13,619	5,256	3,978	3,615	771
1997	7,606	5,125	2,481	1,868	1,357	511	12,666	4,829	3,715	3,530	592
Average relative standard error.....(percent)	5	6	10	9	9	22	6	8	15	10	21

Note: The average relative standard error is the average for the last five years.