

# Supplement.

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

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### INTRODUCTION

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, C30/99-5, Value of Construction Put in Place: May 1999.

### 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, C30/99-5. 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 other 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.

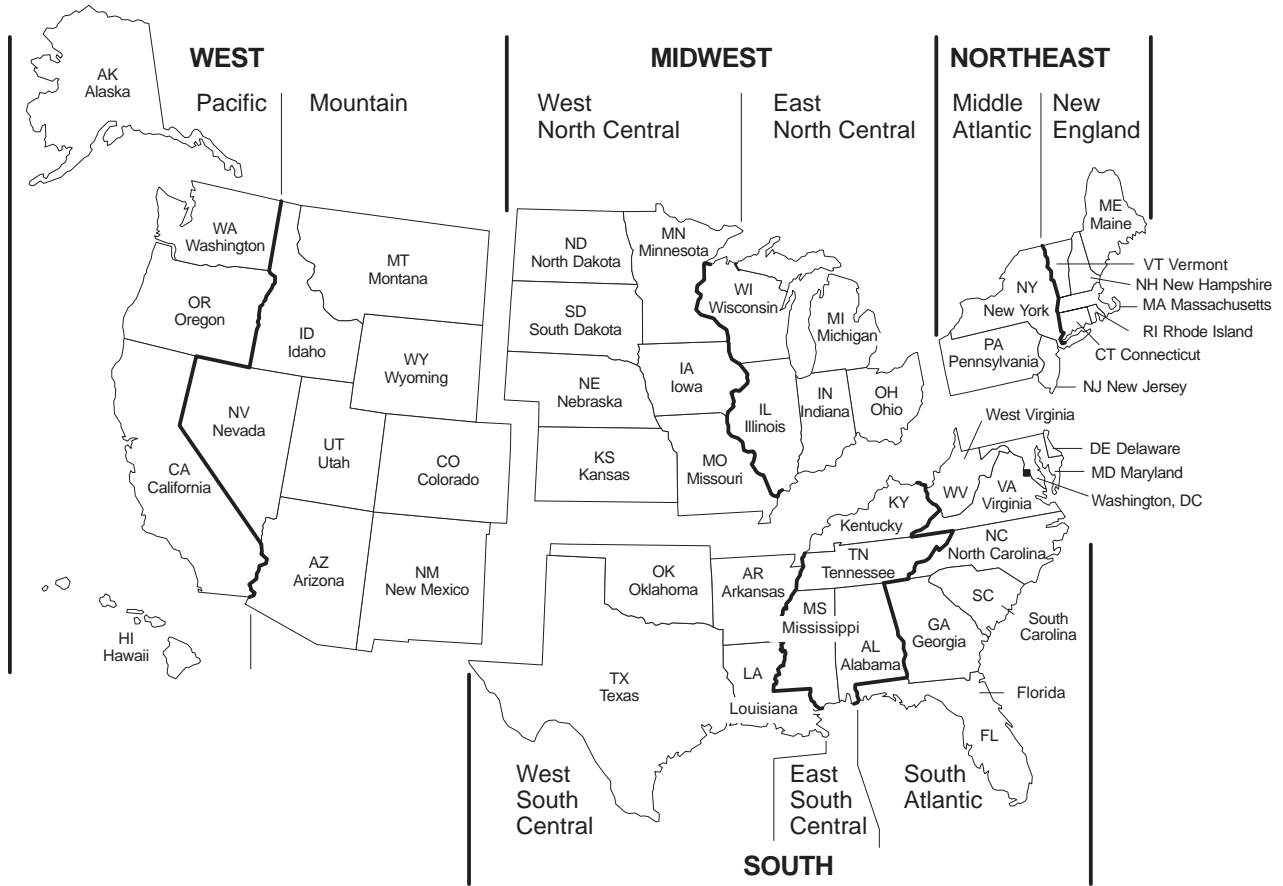
### LIMITATIONS OF THE DATA

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

1998 was estimated to be \$31.1 billion with a relative standard error of 3 percent. Multiplying \$31.1 billion by .03, we obtain \$0.9 billion as the standard error. To obtain a 90-percent confidence interval, multiply \$0.9 billion by 1.6; add and subtract the result from \$31.1 billion, yielding limits of \$29.7 billion and \$32.5 billion. The average value of construction put in place for all

nonresidential building projects in the Northeast in 1998 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: 1994 to 1998**

[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
<b>TOTAL NONRESIDENTIAL</b>														
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 <sup>f</sup>	167,610	28,202	9,382	18,819	36,820	27,721	9,099	60,352	33,513	9,957	16,882	42,237	15,328	26,908
1998	181,915	31,064	9,698	21,366	38,246	28,799	9,447	66,255	35,335	10,278	20,641	46,351	18,809	27,542
Average relative standard error (percent)	1	3	5	3	3	3	5	2	3	5	5	3	6	3
<b>INDUSTRIAL</b>														
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 <sup>f</sup>	31,359	2,999	881	2,118	8,829	7,344	1,485	11,911	5,209	2,756	3,947	7,619	1,867	5,752
1998	32,270	3,913	1,250	2,663	9,209	7,661	1,549	11,629	4,478	2,794	4,356	7,520	2,740	4,780
Average relative standard error (percent)	2	5	9	6	4	5	11	4	6	6	7	5	13	6
<b>OFFICE</b>														
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 <sup>f</sup>	34,305	7,588	1,911	5,677	5,828	3,724	2,104	10,632	6,351	1,308	2,972	10,257	2,562	7,695
1998	41,541	8,369	2,421	5,949	7,415	4,907	2,508	14,309	8,390	1,374	4,545	11,447	3,772	7,675
Average relative standard error (percent)	3	5	7	6	8	5	11	4	4	15	10	5	13	5
<b>HOTELS AND MOTELS</b>														
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 <sup>f</sup>	12,898	1,841	742	1,098	1,922	1,254	668	4,775	2,591	917	1,267	4,360	3,322	1,039
1998	14,904	1,563	710	853	1,997	1,584	413	4,810	2,685	672	1,454	6,535	4,831	1,704
Average relative standard error (percent)	4	7	23	7	11	12	21	8	9	25	20	8	13	8
<b>OTHER COMMERCIAL</b>														
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 <sup>f</sup>	51,809	7,462	2,619	4,843	11,498	8,713	2,785	20,055	11,812	3,224	5,019	12,794	4,889	7,905
1998	53,783	8,349	1,869	6,480	10,296	7,740	2,557	21,706	12,243	3,393	6,070	13,432	4,895	8,538
Average relative standard error (percent)	2	6	12	7	6	7	12	4	5	12	11	6	12	7
<b>RELIGIOUS</b>														
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 <sup>f</sup>	5,777	420	144	276	1,380	902	477	2,566	1,367	499	700	1,411	687	724
1998	6,729	850	311	538	1,518	1,029	489	3,158	1,664	662	832	1,203	667	536
Average relative standard error (percent)	5	18	40	19	12	15	22	8	12	20	21	15	25	19
<b>EDUCATIONAL</b>														
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 <sup>f</sup>	8,693	2,983	1,355	1,628	1,604	1,182	423	2,488	1,567	352	569	1,618	489	1,129
1998	9,629	3,453	1,818	1,634	2,155	1,520	635	2,346	1,329	347	670	1,675	426	1,249
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: 1994 to 1998—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
<b>HOSPITAL AND INSTITUTIONAL</b>														
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 <sup>1</sup> .....	13,546	3,400	1,325	2,076	3,731	3,053	677	4,602	2,502	531	1,569	1,813	714	1,100
1998 .....	13,663	2,998	991	2,007	3,580	2,747	833	5,544	2,712	786	2,045	1,541	606	935
Average relative standard error .....	4	8	13	10	10	11	15	9	10	20	19	9	23	10
<b>MISCELLANEOUS</b>														
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 <sup>1</sup> .....	9,223	1,508	405	1,103	2,028	1,550	478	3,323	2,113	371	839	2,363	799	1,564
1998 .....	9,395	1,568	327	1,241	2,076	1,613	464	2,752	1,833	251	668	2,998	872	2,126
Average relative standard error .....	4	11	21	13	9	11	17	7	9	21	15	10	14	13

<sup>1</sup>Revised.

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: 1994 to 1998**

[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		
<b>ALL REGIONS</b>											
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 <sup>*</sup> .....	31,359	21,070	10,289	13,546	9,760	3,787	51,809	18,850	17,304	12,564	3,090
1998 .....	32,270	22,164	10,107	13,663	9,062	4,600	53,783	22,263	15,800	12,544	3,176
Average relative standard error .....	2	2	6	5	5	10	3	3	5	6	10
<b>NORTHEAST</b>											
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 <sup>*</sup> .....	2,999	1,646	1,353	3,400	2,169	1,231	7,462	3,093	2,341	1,169	859
1998 .....	3,913	2,108	1,805	2,998	1,537	1,461	8,349	4,269	2,540	1,063	477
Average relative standard error .....	5	7	8	8	8	19	6	7	17	14	20
<b>MIDWEST</b>											
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 <sup>*</sup> .....	8,829	6,032	2,797	3,731	2,785	946	11,498	4,081	3,813	3,068	536
1998 .....	9,209	6,663	2,546	3,580	2,619	961	10,296	3,949	3,152	2,585	610
Average relative standard error .....	4	4	14	10	10	20	6	8	12	12	20
<b>SOUTH</b>											
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 <sup>*</sup> .....	11,911	8,228	3,683	4,602	3,488	1,114	20,055	6,818	7,400	4,699	1,138
1998 .....	11,629	8,811	2,817	5,544	3,882	1,662	21,706	8,794	6,669	4,910	1,333
Average relative standard error .....	4	4	12	9	11	18	4	6	10	10	17
<b>WEST</b>											
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 <sup>*</sup> .....	7,619	5,164	2,455	1,813	1,318	495	12,794	4,858	3,750	3,628	558
1998 .....	7,520	4,582	2,937	1,541	1,025	516	13,432	5,251	3,439	3,986	755
Average relative standard error .....	5	6	10	9	9	22	6	8	15	10	21

<sup>\*</sup>Revised.

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