

# Geographic Area Summary: 2002

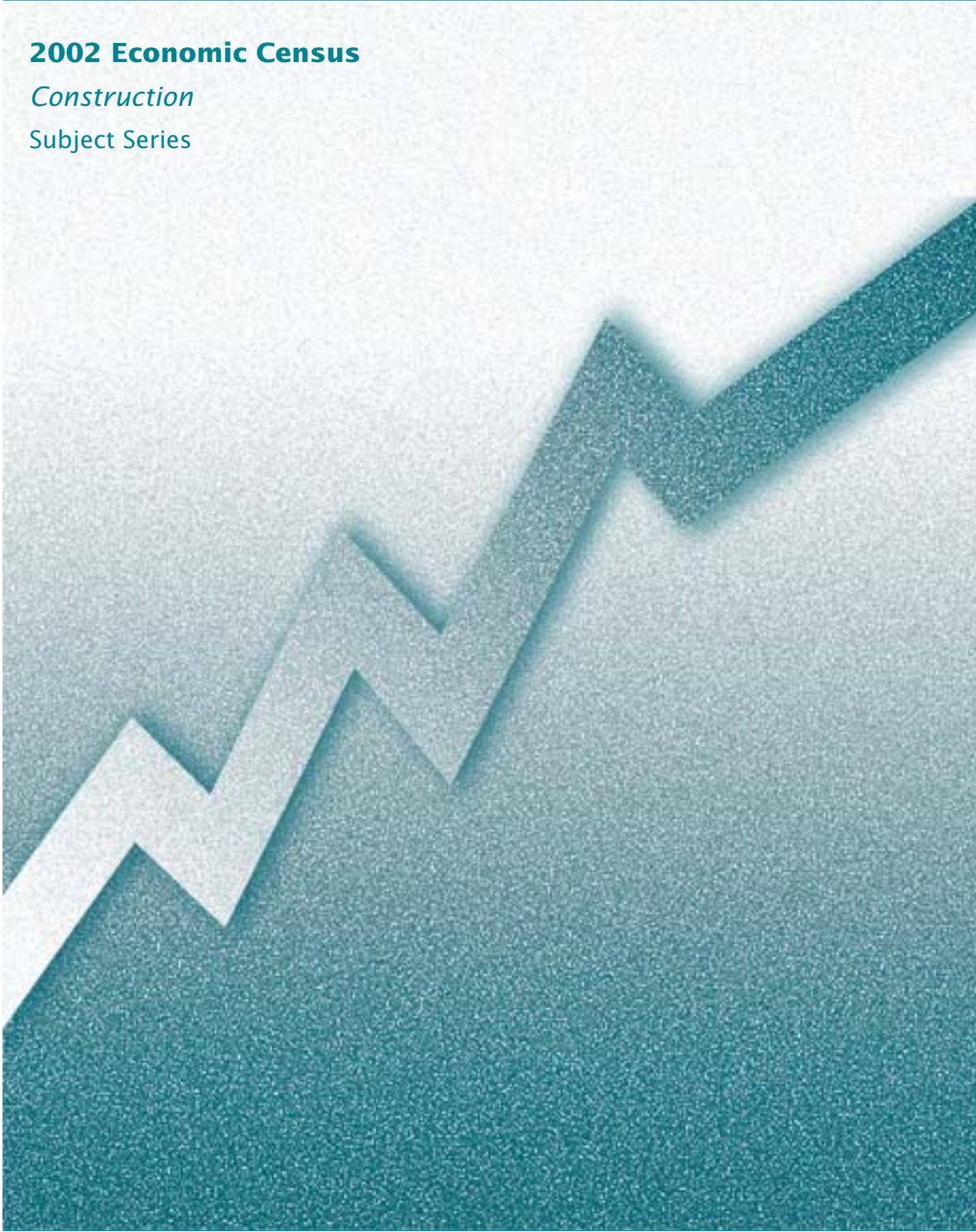
Issued December 2005

EC02-23SG-3

## 2002 Economic Census

*Construction*

Subject Series



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This report was prepared in the Manufacturing and Construction Division under the direction of **Mendel D. Gayle**, Assistant Division Chief for Census and Related Programs, who was responsible for the overall planning, management, and coordination. **Susan Bucci**, Chief, Construction and Minerals Branch, assisted by **Michael Blake**, Section Chief, and **Tom Flood, Keith Fuller, Robert Miller**, and **Robert Rosati**, Special Assistants, performed the planning and implementation. **Delsey Newman, Donald Powers, John Roehl, Linda Taylor, Michael Taylor**, and **Robert Wright** provided primary staff assistance. **Arminta N. Quash**, Chief, Census and Related Programs Support Branch, assisted by **Kimberly DePhillip**, Section Chief, performed overall coordination of the publication process. **Theresa Crowley, Patrick Duck, Michael Flaherty, Taylor C. Murph**, and **Veronica White** provided primary staff assistance.

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-- Not applicable for this report.

# Introduction to the Economic Census

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## **PURPOSES AND USES OF THE ECONOMIC CENSUS**

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in "2" and "7."

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and to assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

## **INDUSTRY CLASSIFICATIONS**

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

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## **RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS**

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

## **BASIS OF REPORTING**

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

## **GEOGRAPHIC AREA CODING**

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

## **AVAILABILITY OF ADDITIONAL DATA**

All results of the 2002 Economic Census are available on the Census Bureau Internet site ([www.census.gov](http://www.census.gov)) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

## **HISTORICAL INFORMATION**

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart

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from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933. Censuses of construction, manufacturing, and the other business censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

#### **SOURCES FOR MORE INFORMATION**

More information about the scope, coverage, classification system, data items, and publications for the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at [www.census.gov/econ/census02/guide](http://www.census.gov/econ/census02/guide). More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at [www.census.gov/econ/www/history.html](http://www.census.gov/econ/www/history.html).



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# Construction

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## SCOPE

The Construction sector (sector 23) comprises establishments primarily engaged in the construction of buildings or engineering projects (e.g., highways and utility systems). Establishments primarily engaged in the preparation of sites for new construction and establishments primarily engaged in subdividing land for sale, as building sites also are included in this sector.

Construction work done may include new work, additions, alterations, or maintenance and repairs. Activities of these establishments generally are managed at a fixed place of business, but they usually perform construction activities at multiple project sites. Production responsibilities for establishments in this sector are usually specified in (1) contracts with the owners of construction projects (prime contracts) or (2) contracts with other construction establishments (subcontracts).

Establishments primarily engaged in contracts that include responsibility for all aspects of individual construction projects are commonly known as general contractors, but also may be known as design-builders, construction managers, turnkey contractors, or (in cases where two or more establishments jointly secure a general contract) joint-venture contractors. Construction managers that provide oversight and scheduling only (i.e., agency) as well as construction managers that are responsible for the entire project (i.e., at risk) are included as general contractor type establishments. Establishments of the “general contractor type” frequently arrange construction of separate parts of their projects through subcontracts with other construction establishments.

Establishments primarily engaged in activities to produce a specific component (e.g., masonry, painting, and electrical work) of a construction project are commonly known as specialty trade contractors. Activities of specialty trade contractors are usually subcontracted from other construction establishments but, especially in remodeling and repair construction, the work may be done directly for the owner of the property.

Establishments primarily engaged in activities to construct buildings to be sold on sites that they own are known as operative builders, but also may be known as speculative builders or merchant builders. Operative builders produce buildings in a manner similar to general contractors, but their production processes also include site acquisition and securing of financial backing. Operative builders are most often associated with the construction of residential buildings. Like general contractors, they may subcontract all or part of the actual construction work on their buildings.

There are substantial differences in the types of equipment, work force skills, and other inputs required by establishments in this sector. To highlight these differences and variations in the underlying production functions, this sector is divided into three subsectors.

Subsector 236, Construction of Buildings, comprises establishments of the general contractor type and operative builders involved in the construction of buildings. Subsector 237, Heavy and Civil Engineering Construction, comprises establishments involved in the construction of engineering projects. Subsector 238, Specialty Trade Contractors, comprises establishments engaged in specialty trade activities generally needed in the construction of all types of buildings.

**Exclusions.** Force account construction is construction work performed by an enterprise primarily engaged in some business other than construction for its own account and use, using employees of the enterprise. This activity is not included in the construction sector unless the construction work performed is the primary activity of a separate establishment of the enterprise. The installation and the ongoing repair and maintenance of telecommunications and utility networks is excluded from construction when the establishments performing the work are not independent

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contractors. Although a growing proportion of this work is subcontracted to independent contractors in the Construction Sector, the operating units of telecommunications and utility companies performing this work are included with the telecommunications or utility activities.

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve construction establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in *Nonemployer Statistics*. The contribution of nonemployers, relatively large for this sector, may be examined at [www.census.gov/nonemployerimpact](http://www.census.gov/nonemployerimpact).

**Definitions.** Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

## REPORTS

The following reports provide statistics on this sector.

**Industry Series.** There are 31 reports, each covering a single NAICS industry (six-digit code). These reports include such statistics as number of establishments, employment, payroll, value added by construction, cost of materials, value of construction work, value of business done, capital expenditures, etc. The industry reports also include selected statistics for states. While most of the state data in the industry series reports are by physical location of the establishment, some data are available by reported location of the construction work. The data in industry reports are preliminary and subject to change in the following reports.

**Geographic Area Series.** There are 51 separate reports, one for each state and the District of Columbia. Each state report present similar statistics at the “all construction” level for each state.

### Subject Series:

- **Industry General Summary.** This report contains industry statistics summarized in one report. It includes higher levels of aggregation than the industry reports, as well as revisions to the data made after the release of the industry reports.
- **Industry Kind Of Business and Type of Construction Summary.** This report contains industry kind of business and types of construction statistics summarized in one report. It includes higher levels of aggregation than the industry reports, as well as revisions to the data made after the release of the industry reports.
- **Geographic Area Summary.** This report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.

**Other reports.** Data for this sector are also included in reports with multisector coverage, including *Nonemployer Statistics*, *Comparative Statistics*, *Bridge Between 2002 NAICS and 1997 NAICS*, *Business Expenses*, and the Survey of Business Owners reports.

## GEOGRAPHIC AREAS COVERED

1. The United States as a whole.
2. States and the District of Columbia.
3. Census regions. The regions are made up of groups of states as follows:
  - a. Northeast region: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

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- b. Midwest region: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin
  - c. South region: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia
  - d. West region: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

## **DOLLAR VALUES**

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

## **COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES**

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). There were substantial revisions made to the entire construction sector, for 2002. These changes are:

1. Each subsector has been reclassified in 2002 to:
  - 236—Construction of Buildings
  - 237—Heavy and Civil Engineering Construction
  - 238—Specialty Trade Contractors
2. Adopted several mining industries:
  - a. oil and gas pipeline and related structures construction, now in Industry 237120
  - b. site preparation and related construction activities on a contract or fee basis, now in Industry 238910.

More detailed information of NAICS changes from 1997 to 2002 may be examined at <http://www.census.gov/epcd/naics02/n02ton97.htm>.

In addition, there has been an additional data table added, which did not exist in 1997. Included for 2002 is housing starts by single NAICS industry (six-digit code).

## **RELIABILITY OF DATA**

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

## **DISCLOSURE**

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at [www.census.gov/epcd/ec02/disclosure.htm](http://www.census.gov/epcd/ec02/disclosure.htm).

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## AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The U.S. Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place contain data related to construction sector census data. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity. The construction sector census data covers both new construction and maintenance and repair work done by establishments classified in the construction industries. Significant amounts of construction are done by establishments classified outside of construction (real estate, manufacturing, utilities, and communications, for example), as both "force account" construction and construction done for others. In addition, the C30 series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners that are normally not reflected in construction sector census data.

Data contained in the 2002 construction sector may also differ from industry data in Employment and Earnings Statistics, published by the Bureau of Labor Statistics and Statistics of Income, published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

## CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or [ask.census.gov](http://ask.census.gov).

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

A	Standard error of 100 percent or more
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue
N	Not available or not comparable
S	Withheld because estimates did not meet publication standards
X	Not applicable
Z	Less than half the unit shown
a	0 to 19 employees
b	20 to 99 employees
c	100 to 249 employees
e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees
l	50,000 to 99,999 employees
m	100,000 employees or more
p	10 to 19 percent estimated
q	20 to 29 percent estimated
r	Revised
s	Sampling error exceeds 40 percent
nsk	Not specified by kind
-	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

**Table 1. Employment Statistics for Establishments by State: 2002**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of establishment	Number of establishments	Number of employees		Number of construction workers in				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
		Total	Construction workers	March	May	August	November	Total	Construction workers	
United States.....	710 308	7 193 078	5 317 764	S	5 336 471	5 527 711	5 285 353	254 292 493	173 250 739	—
Alabama.....	9 345	98 555	74 668	72 420	75 733	76 184	74 336	2 992 730	2 079 273	2
Alaska.....	2 359	21 357	15 836	14 486	15 144	18 083	15 632	938 457	652 374	2
Arizona.....	12 992	174 899	134 038	129 837	133 453	136 235	136 626	5 633 907	3 826 453	2
Arkansas.....	5 637	46 644	35 384	33 593	35 632	37 199	35 113	1 297 957	890 071	2
California.....	69 023	870 334	649 877	630 798	644 981	674 959	648 769	32 986 608	22 282 523	1
Colorado.....	17 998	175 302	129 110	123 100	131 906	135 910	125 526	6 219 878	4 223 717	2
Connecticut.....	9 187	76 594	54 386	52 990	54 555	55 718	54 281	3 052 989	2 017 928	2
Delaware.....	2 407	25 133	19 314	18 735	20 174	19 753	18 594	907 842	649 553	2
District of Columbia.....	359	5 992	4 082	3 823	4 072	4 295	4 137	273 225	152 491	3
Florida.....	40 830	424 868	301 128	294 766	298 549	309 153	302 044	13 252 401	8 264 717	1
Georgia.....	20 258	221 314	155 909	155 345	157 227	158 789	152 275	6 853 019	4 425 613	1
Hawaii.....	2 350	27 287	19 726	18 831	19 620	20 280	20 173	1 139 031	770 909	2
Idaho.....	5 745	36 097	26 709	24 399	26 949	28 262	27 225	1 036 778	721 430	2
Illinois.....	30 556	309 397	228 714	215 912	231 171	238 980	228 792	12 878 600	9 091 369	1
Indiana.....	15 512	148 230	110 124	103 569	110 563	115 837	110 526	5 284 119	3 764 394	2
Iowa.....	8 538	67 213	50 687	46 033	52 104	54 050	50 563	2 242 375	1 604 194	2
Kansas.....	7 518	68 670	51 880	49 848	53 049	54 079	50 542	2 297 820	1 623 918	2
Kentucky.....	8 814	83 946	61 986	59 414	61 846	64 876	61 808	2 637 092	1 828 780	2
Louisiana.....	7 986	123 766	98 053	97 543	98 098	99 240	97 330	4 008 618	3 022 469	2
Maine.....	4 797	30 406	22 332	20 137	22 808	23 864	22 521	944 905	657 708	2
Maryland.....	15 433	181 255	134 161	129 840	135 105	138 724	132 976	6 589 271	4 327 165	1
Massachusetts.....	17 107	165 596	120 538	114 170	121 497	125 229	121 255	6 772 400	4 590 378	2
Michigan.....	26 014	219 032	161 667	151 529	165 263	171 042	158 834	8 108 488	5 677 748	1
Minnesota.....	16 952	148 430	109 689	99 361	109 410	119 011	110 975	5 840 485	4 028 422	2
Mississippi.....	4 588	49 180	37 328	36 905	37 396	38 400	36 610	1 434 567	1 020 149	2
Missouri.....	15 450	153 976	115 119	109 628	115 080	121 376	114 394	5 674 557	3 966 539	2
Montana.....	4 025	22 506	16 831	14 957	17 145	18 435	16 786	658 456	470 451	2
Nebraska.....	5 579	46 004	34 228	31 643	34 690	36 283	34 297	1 407 899	981 420	2
Nevada.....	4 962	95 253	72 088	69 572	71 250	73 343	74 189	3 490 815	2 490 950	2
New Hampshire.....	4 394	33 541	24 165	22 404	24 522	25 510	24 223	1 247 448	807 893	3
New Jersey.....	23 613	210 820	150 600	146 878	150 569	155 059	149 896	8 269 847	5 594 043	1
New Mexico.....	4 768	45 282	33 969	33 874	33 981	34 727	33 295	1 329 192	911 252	2
New York.....	41 963	370 154	270 212	254 420	271 544	285 694	269 190	14 875 115	10 122 097	1
North Carolina.....	25 275	225 444	164 379	161 258	167 308	169 091	159 859	6 715 454	4 442 518	1
North Dakota.....	2 021	16 864	13 022	11 145	13 262	14 669	13 010	516 797	373 748	2
Ohio.....	26 855	257 396	187 434	176 073	188 011	198 774	186 878	9 171 095	6 244 626	1
Oklahoma.....	7 797	62 684	47 089	46 166	47 273	48 797	46 120	1 836 318	1 302 250	2
Oregon.....	11 854	87 977	65 006	62 318	66 120	68 013	63 572	3 103 299	2 188 654	2
Pennsylvania.....	27 590	277 475	204 391	196 529	207 112	212 238	201 685	10 145 737	6 978 716	1
Rhode Island.....	3 192	27 289	19 401	18 600	19 864	20 067	19 073	885 539	601 332	2
South Carolina.....	11 341	110 818	84 526	92 188	82 180	83 120	80 616	3 397 754	2 434 942	3
South Dakota.....	2 846	19 040	14 058	12 689	14 442	15 282	13 820	534 046	375 552	3
Tennessee.....	10 572	123 981	92 833	91 041	92 799	94 835	92 658	4 193 343	2 873 650	2
Texas.....	37 446	555 096	418 486	416 588	418 511	425 509	413 335	18 724 224	12 553 095	1
Utah.....	8 387	67 569	50 828	48 121	51 126	53 594	50 469	2 059 700	1 436 388	2
Vermont.....	2 715	15 885	11 745	10 867	11 955	12 391	11 765	495 252	331 914	3
Virginia.....	20 710	211 850	155 344	150 880	155 639	160 577	154 282	6 937 468	4 500 995	1
Washington.....	21 701	167 874	124 311	116 942	124 640	132 319	123 340	6 330 733	4 340 243	1
West Virginia.....	4 170	29 255	22 324	21 311	22 017	23 522	22 448	914 587	677 017	2
Wisconsin.....	16 207	142 230	104 637	96 093	105 144	111 792	105 519	5 254 483	3 691 203	1
Wyoming.....	2 568	17 319	13 412	11 952	13 980	14 543	13 173	499 770	365 504	2

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. General Statistics for Establishments by State: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of establishment	E <sup>1</sup>	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
United States.....	1	1 208 732 550	1 196 556 752	874 854 013	560 885 574	326 144 236	321 702 739	19 081 730	20 577 870	170 528 752
Alabama.....	1	15 582 292	15 418 544	10 953 799	6 767 692	4 349 855	4 464 744	226 265	259 398	2 570 184
Alaska.....	1	4 417 369	4 365 499	3 316 097	2 167 997	1 199 970	1 049 402	95 890	111 074	869 330
Arizona.....	1	28 938 294	28 601 890	19 935 876	12 956 051	7 316 229	8 666 014	411 810	389 234	2 991 232
Arkansas.....	2	6 623 949	6 517 510	4 845 840	2 886 973	2 065 307	1 671 670	122 984	148 890	1 411 601
California.....	1	150 527 556	149 352 993	108 090 579	72 494 944	36 770 199	41 262 414	2 646 555	2 182 999	16 116 776
Colorado.....	1	32 663 596	32 422 778	22 829 386	13 913 492	9 156 713	9 593 392	537 893	538 269	3 889 538
Connecticut.....	1	13 697 394	13 587 064	10 010 092	6 112 091	4 008 331	3 576 972	206 560	225 115	1 980 995
Delaware.....	2	3 882 206	3 852 446	2 949 643	1 924 347	1 055 056	902 803	61 962	73 976	5 91 904
District of Columbia.....	1	1 380 689	1 371 681	791 709	589 372	211 344	579 972	18 174	13 492	123 615
Florida.....	1	79 384 766	78 720 300	56 799 924	34 846 037	22 618 352	21 920 376	1 026 602	1 190 033	9 239 862
Georgia.....	1	41 371 440	40 788 718	28 056 995	16 906 618	11 733 100	12 731 722	551 396	814 760	6 079 036
Hawaii.....	1	5 640 054	5 562 996	3 809 556	2 527 112	1 359 502	1 753 440	104 863	107 965	786 657
Idaho.....	1	5 507 211	5 459 096	3 897 434	2 281 771	1 663 778	1 561 662	87 347	113 610	905 912
Illinois.....	1	55 311 252	54 853 450	40 646 036	27 320 681	13 783 158	14 207 414	854 949	905 533	7 977 469
Indiana.....	1	23 435 911	23 195 712	17 114 879	10 549 869	6 805 210	6 080 832	346 132	389 665	3 710 807
Iowa.....	1	9 940 503	9 786 194	7 414 749	4 447 735	3 121 323	2 371 445	162 293	234 323	2 244 777
Kansas.....	1	10 341 081	10 212 672	7 635 448	4 647 164	3 116 693	2 577 224	164 381	210 740	2 027 375
Kentucky.....	1	12 644 444	12 483 652	9 276 625	5 760 848	3 676 569	3 207 027	197 731	261 056	2 351 423
Louisiana.....	1	15 288 176	15 149 836	11 968 668	7 895 625	4 211 384	3 181 167	308 119	387 459	2 973 523
Maine.....	1	4 256 279	4 194 524	3 260 696	2 119 005	1 203 447	933 828	61 811	129 800	972 287
Maryland.....	1	29 735 639	29 402 444	21 176 872	13 934 047	7 576 020	8 225 573	541 870	447 436	3 546 911
Massachusetts.....	1	31 547 604	31 325 634	21 441 423	13 973 097	7 690 297	9 884 210	546 993	443 866	3 460 659
Michigan.....	1	36 536 275	36 094 747	26 800 774	17 388 942	9 853 360	9 293 972	585 816	694 276	5 681 477
Minnesota.....	1	29 296 756	28 926 697	20 283 617	12 608 748	8 044 928	8 643 080	411 792	554 078	4 487 748
Mississippi.....	1	7 212 182	7 115 706	5 391 740	3 259 964	2 228 251	1 723 967	144 888	181 710	1 612 551
Missouri.....	1	26 114 389	25 895 551	17 593 378	11 057 125	6 755 092	8 302 173	329 146	430 674	3 597 100
Montana.....	1	3 372 837	3 294 142	2 498 039	1 552 865	1 023 868	796 104	64 724	120 729	816 701
Nebraska.....	1	6 700 924	6 611 631	4 856 999	2 998 641	1 947 651	1 754 631	105 056	134 010	1 410 607
Nevada.....	1	16 100 809	15 896 085	11 726 252	7 756 927	4 174 048	4 169 833	279 804	224 198	1 870 696
New Hampshire.....	1	5 222 133	5 182 476	3 801 907	2 465 789	1 375 776	1 380 569	82 712	116 928	910 223
New Jersey.....	2	37 891 705	37 503 989	27 931 718	18 810 476	9 508 957	9 572 271	594 318	634 616	4 857 765
New Mexico.....	1	6 017 501	5 965 217	4 503 425	2 840 342	1 715 366	1 461 792	102 410	118 537	1 031 047
New York.....	2	65 368 888	64 979 926	48 275 355	32 305 173	16 359 145	16 704 570	947 042	880 319	7 427 345
North Carolina.....	1	34 385 593	33 958 390	25 037 317	15 503 497	9 961 023	8 921 073	514 182	724 360	5 823 011
North Dakota.....	-	2 338 220	2 313 075	1 871 080	1 150 677	745 547	441 995	41 323	55 536	619 639
Ohio.....	1	40 273 765	39 814 955	30 034 465	19 418 874	11 074 400	9 780 490	711 708	676 017	6 076 242
Oklahoma.....	1	9 590 154	9 480 368	7 094 635	4 207 377	2 997 045	2 385 732	164 697	209 229	1 653 023
Oregon.....	1	13 772 785	13 641 611	9 901 768	6 247 422	3 785 520	3 739 842	232 805	200 024	1 730 699
Pennsylvania.....	1	46 652 527	46 142 408	34 230 293	22 225 421	12 514 991	11 912 115	774 319	869 987	7 234 842
Rhode Island.....	1	4 356 409	4 314 062	3 214 014	2 255 726	1 000 634	1 100 048	73 836	64 968	541 196
South Carolina.....	1	15 285 860	15 184 159	11 581 877	7 492 668	4 190 910	3 602 282	186 349	247 105	2 168 002
South Dakota.....	1	2 643 417	2 611 128	2 006 127	1 161 106	877 310	605 001	36 104	80 722	673 284
Tennessee.....	1	19 762 355	19 589 285	14 372 810	9 197 708	5 348 172	5 216 475	271 590	376 603	3 127 036
Texas.....	1	94 070 607	93 196 677	69 867 767	44 006 412	26 735 285	23 328 910	1 508 352	1 461 246	13 199 111
Utah.....	1	10 792 051	10 660 972	7 679 973	4 680 215	3 130 836	2 980 999	168 303	187 151	1 542 927
Vermont.....	1	2 253 071	2 222 352	1 630 032	1 074 243	586 508	592 320	35 012	55 923	490 436
Virginia.....	1	33 667 155	33 347 618	24 332 360	15 270 807	9 381 090	9 015 258	507 052	565 053	4 989 147
Washington.....	1	27 916 123	27 533 813	20 229 076	12 954 634	7 656 753	7 304 737	472 310	452 348	3 989 920
West Virginia.....	1	3 393 385	3 342 166	2 744 891	1 847 723	948 388	597 275	66 878	96 283	843 930
Wisconsin.....	1	23 477 496	23 008 114	17 467 716	11 003 705	6 933 393	5 540 398	346 883	535 151	4 775 706
Wyoming.....	1	2 149 476	2 103 801	1 672 277	1 119 798	598 153	431 524	39 740	72 268	595 771

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 3. Detailed Statistics for Establishments: 2002**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
<b>UNITED STATES</b>		
All establishments .....	number.. 710 308	-
All employees .....	number.. 7 193 078	-
Construction workers in March .....	number.. S	S
Construction workers in May .....	number.. 5 336 471	-
Construction workers in August .....	number.. 5 527 711	-
Construction workers in November .....	number.. 5 285 353	-
Average number of construction workers .....	number.. 5 317 764	-
Other employees in March .....	number.. S	S
Other employees in May .....	number.. 1 818 301	-
Other employees in August .....	number.. 1 860 102	-
Other employees in November .....	number.. 1 868 648	-
Average number of other employees .....	number.. 1 875 314	-
Total payroll .....	\$1,000.. 254 292 493	-
Construction workers .....	\$1,000.. 173 250 739	-
Other employees .....	\$1,000.. 81 041 753	-
First-quarter payroll, all employees .....	\$1,000.. 59 468 307	-
Fringe benefits, all employees .....	\$1,000.. 60 038 072	-
Legally required expenditures .....	\$1,000.. 35 557 806	-
Voluntary expenditures .....	\$1,000.. 24 480 267	-
Value of business done <sup>1</sup> .....	\$1,000.. 1 208 732 550	-
Value of construction work <sup>1</sup> .....	\$1,000.. 1 196 556 752	-
Value of construction work on government owned projects .....	\$1,000.. 300 087 917	-
Value of construction work on federally owned projects .....	\$1,000.. 68 754 053	1
Value of construction work on state and locally owned projects .....	\$1,000.. 231 333 864	-
Value of construction work on privately owned projects .....	\$1,000.. 896 468 835	-
Other business receipts .....	\$1,000.. 12 175 798	1
Value of construction work subcontracted in from others .....	\$1,000.. 407 249 541	-
Net value of construction work .....	\$1,000.. 874 854 013	-
Value added .....	\$1,000.. 560 885 574	-
Selected costs .....	\$1,000.. 647 846 976	-
Materials, parts, and supplies .....	\$1,000.. 310 680 475	-
Construction work subcontracted out to others .....	\$1,000.. 321 702 739	-
Selected power, fuels, and lubricants .....	\$1,000.. 15 463 762	-
Purchased electricity .....	\$1,000.. 2 574 814	-
Natural gas and manufactured gas .....	\$1,000.. 1 071 621	1
Gasoline and diesel fuel .....	\$1,000.. 10 953 674	-
On-highway use of gasoline and diesel fuel .....	\$1,000.. 8 019 039	-
Off-highway use of gasoline and diesel fuel .....	\$1,000.. 2 934 635	1
All other fuels and lubricants .....	\$1,000.. 863 652	1
Total rental costs .....	\$1,000.. 19 081 730	-
Machinery and equipment .....	\$1,000.. 12 562 085	1
Buildings .....	\$1,000.. 6 519 645	-
Selected purchased services .....	\$1,000.. 33 126 796	1
Communication services .....	\$1,000.. 9 455 249	-
Repairs to buildings and other structures .....	\$1,000.. 5 022 240	1
Repairs to machinery and equipment .....	\$1,000.. 8 582 264	1
Legal services .....	\$1,000.. 2 197 008	1
Accounting, auditing, and bookkeeping services .....	\$1,000.. 3 579 958	2
Advertising and promotional services .....	\$1,000.. 4 290 078	1
Gross book value of depreciable assets, beginning of year .....	\$1,000.. 156 973 348	-
Capital expenditures, except land .....	\$1,000.. 20 577 870	1
Retirements and disposition of depreciable assets .....	\$1,000.. 7 022 465	1
Gross book value of depreciable assets, end of year .....	\$1,000.. 170 528 752	-
Depreciation charges during year .....	\$1,000.. 18 193 916	-
Establishments with inventories .....	number.. 116 825	-
Value of construction work for establishments with inventories .....	\$1,000.. 321 921 238	-
Inventories of materials and supplies, end of 2002 .....	\$1,000.. 17 015 924	2
Inventories of materials and supplies, end of 2001 .....	\$1,000.. 15 341 167	2
Establishments with no inventories .....	number.. 539 613	-
Value of construction work for establishments with no inventories .....	\$1,000.. 819 975 766	-
Establishments not reporting inventories .....	number.. 53 870	-
Value of construction work for establishments not reporting inventories .....	\$1,000.. 54 659 748	-
<b>NORTHEAST</b>		
All establishments .....	number.. 134 558	1
All employees .....	number.. 1 207 759	1
Construction workers in March .....	number.. S	S
Construction workers in May .....	number.. 884 427	1
Construction workers in August .....	number.. 915 768	1
Construction workers in November .....	number.. 873 889	1
Average number of construction workers .....	number.. 877 770	1
Other employees in March .....	number.. S	S
Other employees in May .....	number.. 318 670	1
Other employees in August .....	number.. 327 908	1
Other employees in November .....	number.. 329 994	1
Average number of other employees .....	number.. 329 989	1
Total payroll .....	\$1,000.. 46 689 232	1
Construction workers .....	\$1,000.. 31 702 010	1
Other employees .....	\$1,000.. 14 987 222	1
First-quarter payroll, all employees .....	\$1,000.. 10 817 810	1
Fringe benefits, all employees .....	\$1,000.. 12 437 952	1
Legally required expenditures .....	\$1,000.. 7 008 406	1
Voluntary expenditures .....	\$1,000.. 5 429 546	1

See footnotes at end of table.



**Table 3. Detailed Statistics for Establishments: 2002—Con.**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
<b>NORTHEAST—Con.</b>		
Value of business done <sup>1</sup> .....	\$1,000 .. 211 246 010	1
Value of construction work <sup>1</sup> .....	\$1,000 .. 209 452 434	1
Value of construction work on government owned projects .....	\$1,000 .. 57 710 961	1
Value of construction work on federally owned projects .....	\$1,000 .. 11 045 492	1
Value of construction work on state and locally owned projects .....	\$1,000 .. 46 665 469	1
Value of construction work on privately owned projects .....	\$1,000 .. 151 741 473	1
Other business receipts .....	\$1,000 .. 1 793 576	2
Value of construction work subcontracted in from others .....	\$1,000 .. 73 633 874	1
Net value of construction work .....	\$1,000 .. 153 795 530	1
Value added .....	\$1,000 .. 101 341 020	1
Selected costs .....	\$1,000 .. 109 904 990	1
Materials, parts, and supplies .....	\$1,000 .. 51 541 053	1
Construction work subcontracted out to others .....	\$1,000 .. 55 656 904	1
Selected power, fuels, and lubricants .....	\$1,000 .. 2 707 033	1
Purchased electricity .....	\$1,000 .. 454 344	1
Natural gas and manufactured gas .....	\$1,000 .. 198 519	3
Gasoline and diesel fuel .....	\$1,000 .. 1 900 773	1
On-highway use of gasoline and diesel fuel .....	\$1,000 .. 1 433 946	1
Off-highway use of gasoline and diesel fuel .....	\$1,000 .. 466 827	2
All other fuels and lubricants .....	\$1,000 .. 153 397	2
Total rental costs .....	\$1,000 .. 3 322 603	1
Machinery and equipment .....	\$1,000 .. 2 104 340	1
Buildings .....	\$1,000 .. 1 218 263	1
Selected purchased services .....	\$1,000 .. 5 896 275	2
Communication services .....	\$1,000 .. 1 669 789	1
Repairs to buildings and other structures .....	\$1,000 .. 913 214	4
Repairs to machinery and equipment .....	\$1,000 .. 1 400 670	1
Legal services .....	\$1,000 .. 414 264	3
Accounting, auditing, and bookkeeping services .....	\$1,000 .. 860 117	4
Advertising and promotional services .....	\$1,000 .. 638 222	3
Gross book value of depreciable assets, beginning of year .....	\$1,000 .. 25 496 219	1
Capital expenditures, except land .....	\$1,000 .. 3 421 521	1
Retirements and disposition of depreciable assets .....	\$1,000 .. 1 042 294	2
Gross book value of depreciable assets, end of year .....	\$1,000 .. 27 875 447	1
Depreciation charges during year .....	\$1,000 .. 3 023 200	1
Establishments with inventories .....	number .. 21 637	—
Value of construction work for establishments with inventories .....	\$1,000 .. 48 675 681	—
Inventories of materials and supplies, end of 2002 .....	\$1,000 .. 2 359 895	11
Inventories of materials and supplies, end of 2001 .....	\$1,000 .. 2 057 832	6
Establishments with no inventories .....	number .. 101 833	—
Value of construction work for establishments with no inventories .....	\$1,000 .. 148 473 836	—
Establishments not reporting inventories .....	number .. 11 087	—
Value of construction work for establishments not reporting inventories .....	\$1,000 .. 12 302 917	—
<b>MIDWEST</b>		
All establishments .....	number .. 174 048	1
All employees .....	number .. 1 596 482	—
Construction workers in March .....	number .. S	S
Construction workers in May .....	number .. 1 192 189	1
Construction workers in August .....	number .. 1 251 176	1
Construction workers in November .....	number .. 1 178 149	1
Average number of construction workers .....	number .. 1 181 259	1
Other employees in March .....	number .. S	S
Other employees in May .....	number .. 404 010	1
Other employees in August .....	number .. 416 190	1
Other employees in November .....	number .. 414 535	1
Average number of other employees .....	number .. 415 223	1
Total payroll .....	\$1,000 .. 59 210 763	—
Construction workers .....	\$1,000 .. 41 423 134	—
Other employees .....	\$1,000 .. 17 787 630	—
First-quarter payroll, all employees .....	\$1,000 .. 13 286 549	—
Fringe benefits, all employees .....	\$1,000 .. 15 703 059	—
Legally required expenditures .....	\$1,000 .. 8 382 440	—
Voluntary expenditures .....	\$1,000 .. 7 320 619	—
Value of business done <sup>1</sup> .....	\$1,000 .. 266 409 987	—
Value of construction work <sup>1</sup> .....	\$1,000 .. 263 323 925	—
Value of construction work on government owned projects .....	\$1,000 .. 65 932 950	1
Value of construction work on federally owned projects .....	\$1,000 .. 12 522 210	1
Value of construction work on state and locally owned projects .....	\$1,000 .. 53 410 740	1
Value of construction work on privately owned projects .....	\$1,000 .. 197 390 975	1
Other business receipts .....	\$1,000 .. 3 086 062	3
Value of construction work subcontracted in from others .....	\$1,000 .. 88 079 037	1
Net value of construction work .....	\$1,000 .. 193 725 271	—
Value added .....	\$1,000 .. 123 753 268	—
Selected costs .....	\$1,000 .. 142 656 719	1
Materials, parts, and supplies .....	\$1,000 .. 69 515 496	1
Construction work subcontracted out to others .....	\$1,000 .. 69 598 654	1
Selected power, fuels, and lubricants .....	\$1,000 .. 3 542 569	1
Purchased electricity .....	\$1,000 .. 544 517	1
Natural gas and manufactured gas .....	\$1,000 .. 276 504	1
Gasoline and diesel fuel .....	\$1,000 .. 2 493 221	1
On-highway use of gasoline and diesel fuel .....	\$1,000 .. 1 794 645	1
Off-highway use of gasoline and diesel fuel .....	\$1,000 .. 698 576	1
All other fuels and lubricants .....	\$1,000 .. 228 326	2

See footnotes at end of table.

**Table 3. Detailed Statistics for Establishments: 2002—Con.**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
<b>MIDWEST—Con.</b>		
Total rental costs	\$1,000 4 095 583	1
Machinery and equipment	\$1,000 2 683 756	1
Buildings	\$1,000 1 411 827	1
Selected purchased services	\$1,000 7 486 213	1
Communication services	\$1,000 2 064 131	1
Repairs to buildings and other structures	\$1,000 1 126 164	1
Repairs to machinery and equipment	\$1,000 2 114 439	1
Legal services	\$1,000 472 329	3
Accounting, auditing, and bookkeeping services	\$1,000 726 416	3
Advertising and promotional services	\$1,000 982 733	2
Gross book value of depreciable assets, beginning of year	\$1,000 39 995 664	1
Capital expenditures, except land	\$1,000 4 900 724	1
Retirements and disposition of depreciable assets	\$1,000 1 614 156	1
Gross book value of depreciable assets, end of year	\$1,000 43 282 232	1
Depreciation charges during year	\$1,000 4 483 262	1
Establishments with inventories	number 34 840	—
Value of construction work for establishments with inventories	\$1,000 93 717 627	—
Inventories of materials and supplies, end of 2002	\$1,000 3 845 081	4
Inventories of materials and supplies, end of 2001	\$1,000 3 470 815	3
Establishments with no inventories	number 127 740	—
Value of construction work for establishments with no inventories	\$1,000 159 365 988	—
Establishments not reporting inventories	number 11 468	—
Value of construction work for establishments not reporting inventories	\$1,000 10 240 310	—
<b>SOUTH</b>		
All establishments	number 232 970	1
All employees	number 2 579 780	—
Construction workers in March	number S	S
Construction workers in May	number 1 909 561	—
Construction workers in August	number 1 952 063	1
Construction workers in November	number 1 884 540	—
Average number of construction workers	number 1 906 995	—
Other employees in March	number S	S
Other employees in May	number 653 737	1
Other employees in August	number 664 156	1
Other employees in November	number 666 638	1
Average number of other employees	number 672 785	1
Total payroll	\$1,000 82 965 871	—
Construction workers	\$1,000 55 444 748	1
Other employees	\$1,000 27 521 123	—
First-quarter payroll, all employees	\$1,000 19 849 181	—
Fringe benefits, all employees	\$1,000 16 592 204	—
Legally required expenditures	\$1,000 10 781 355	1
Voluntary expenditures	\$1,000 5 810 849	—
Value of business done <sup>1</sup>	\$1,000 423 260 892	1
Value of construction work <sup>1</sup>	\$1,000 418 919 499	1
Value of construction work on government owned projects	\$1,000 104 815 921	1
Value of construction work on federally owned projects	\$1,000 27 038 860	1
Value of construction work on state and locally owned projects	\$1,000 777 777 061	1
Value of construction work on privately owned projects	\$1,000 314 103 578	1
Other business receipts	\$1,000 4 341 393	2
Value of construction work subcontracted in from others	\$1,000 136 853 300	1
Net value of construction work	\$1,000 307 243 473	1
Value added	\$1,000 192 297 715	1
Selected costs	\$1,000 230 963 177	1
Materials, parts, and supplies	\$1,000 113 766 106	1
Construction work subcontracted out to others	\$1,000 111 676 026	1
Selected power, fuels, and lubricants	\$1,000 5 521 046	1
Purchased electricity	\$1,000 954 097	1
Natural gas and manufactured gas	\$1,000 364 449	2
Gasoline and diesel fuel	\$1,000 3 908 796	1
On-highway use of gasoline and diesel fuel	\$1,000 2 838 608	1
Off-highway use of gasoline and diesel fuel	\$1,000 1 070 188	1
All other fuels and lubricants	\$1,000 293 703	3
Total rental costs	\$1,000 6 419 090	1
Machinery and equipment	\$1,000 4 300 197	1
Buildings	\$1,000 2 118 893	1
Selected purchased services	\$1,000 11 603 367	1
Communication services	\$1,000 3 350 245	1
Repairs to buildings and other structures	\$1,000 1 793 199	1
Repairs to machinery and equipment	\$1,000 3 074 990	1
Legal services	\$1,000 681 764	3
Accounting, auditing, and bookkeeping services	\$1,000 1 192 544	3
Advertising and promotional services	\$1,000 1 510 625	3
Gross book value of depreciable assets, beginning of year	\$1,000 57 561 287	1
Capital expenditures, except land	\$1,000 7 458 088	1
Retirements and disposition of depreciable assets	\$1,000 2 785 507	1
Gross book value of depreciable assets, end of year	\$1,000 62 233 867	1
Depreciation charges during year	\$1,000 6 699 498	1
Establishments with inventories	number 33 543	—
Value of construction work for establishments with inventories	\$1,000 102 839 882	—
Inventories of materials and supplies, end of 2002	\$1,000 6 898 942	2
Inventories of materials and supplies, end of 2001	\$1,000 6 195 894	3
Establishments with no inventories	number 180 493	—
Value of construction work for establishments with no inventories	\$1,000 295 815 393	—

See footnotes at end of table.

**Table 3. Detailed Statistics for Establishments: 2002—Con.**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
<b>SOUTH—Con.</b>		
Establishments not reporting inventories . . . . . number . . . . .	18 934	—
Value of construction work for establishments not reporting inventories . . . . . \$1,000 . . . . .	20 264 224	—
<b>WEST</b>		
All establishments . . . . . number . . . . .	168 732	1
All employees . . . . . number . . . . .	1 809 056	1
Construction workers in March . . . . . number . . . . .	S	S
Construction workers in May . . . . . number . . . . .	1 350 295	1
Construction workers in August . . . . . number . . . . .	1 408 703	1
Construction workers in November . . . . . number . . . . .	1 348 774	1
Average number of construction workers . . . . . number . . . . .	1 351 740	1
Other employees in March . . . . . number . . . . .	S	S
Other employees in May . . . . . number . . . . .	441 884	1
Other employees in August . . . . . number . . . . .	451 849	1
Other employees in November . . . . . number . . . . .	457 482	1
Average number of other employees . . . . . number . . . . .	457 317	1
Total payroll . . . . . \$1,000 . . . . .	65 426 627	1
Construction workers . . . . . \$1,000 . . . . .	44 680 848	1
Other employees . . . . . \$1,000 . . . . .	20 745 779	1
First-quarter payroll, all employees . . . . . \$1,000 . . . . .	15 514 766	1
Fringe benefits, all employees . . . . . \$1,000 . . . . .	15 304 857	1
Legally required expenditures . . . . . \$1,000 . . . . .	9 385 604	1
Voluntary expenditures . . . . . \$1,000 . . . . .	5 919 253	1
Value of business done <sup>1</sup> . . . . . \$1,000 . . . . .	307 815 661	1
Value of construction work <sup>1</sup> . . . . . \$1,000 . . . . .	304 860 894	1
Value of construction work on government owned projects . . . . . \$1,000 . . . . .	71 628 085	1
Value of construction work on federally owned projects . . . . . \$1,000 . . . . .	18 147 491	1
Value of construction work on state and locally owned projects . . . . . \$1,000 . . . . .	53 480 594	1
Value of construction work on privately owned projects . . . . . \$1,000 . . . . .	233 232 809	1
Other business receipts . . . . . \$1,000 . . . . .	2 954 767	2
Value of construction work subcontracted in from others . . . . . \$1,000 . . . . .	108 683 330	1
Net value of construction work . . . . . \$1,000 . . . . .	220 089 738	1
Value added . . . . . \$1,000 . . . . .	143 493 571	1
Selected costs . . . . . \$1,000 . . . . .	164 322 090	1
Materials, parts, and supplies . . . . . \$1,000 . . . . .	75 857 820	1
Construction work subcontracted out to others . . . . . \$1,000 . . . . .	84 771 156	1
Selected power, fuels, and lubricants . . . . . \$1,000 . . . . .	3 693 115	1
Purchased electricity . . . . . \$1,000 . . . . .	621 856	1
Natural gas and manufactured gas . . . . . \$1,000 . . . . .	232 150	1
Gasoline and diesel fuel . . . . . \$1,000 . . . . .	2 650 883	1
On-highway use of gasoline and diesel fuel . . . . . \$1,000 . . . . .	1 951 840	1
Off-highway use of gasoline and diesel fuel . . . . . \$1,000 . . . . .	699 043	1
All other fuels and lubricants . . . . . \$1,000 . . . . .	188 226	2
Total rental costs . . . . . \$1,000 . . . . .	5 244 454	1
Machinery and equipment . . . . . \$1,000 . . . . .	3 473 792	1
Buildings . . . . . \$1,000 . . . . .	1 770 662	1
Selected purchased services . . . . . \$1,000 . . . . .	8 140 942	1
Communication services . . . . . \$1,000 . . . . .	2 371 085	1
Repairs to buildings and other structures . . . . . \$1,000 . . . . .	1 189 662	1
Repairs to machinery and equipment . . . . . \$1,000 . . . . .	1 992 164	1
Legal services . . . . . \$1,000 . . . . .	628 651	2
Accounting, auditing, and bookkeeping services . . . . . \$1,000 . . . . .	800 882	6
Advertising and promotional services . . . . . \$1,000 . . . . .	1 158 498	2
Gross book value of depreciable assets, beginning of year . . . . . \$1,000 . . . . .	33 920 178	1
Capital expenditures, except land . . . . . \$1,000 . . . . .	4 797 536	2
Retirements and disposition of depreciable assets . . . . . \$1,000 . . . . .	1 580 508	3
Gross book value of depreciable assets, end of year . . . . . \$1,000 . . . . .	37 137 206	1
Depreciation charges during year . . . . . \$1,000 . . . . .	3 987 955	1
Establishments with inventories . . . . . number . . . . .	26 804	—
Value of construction work for establishments with inventories . . . . . \$1,000 . . . . .	76 688 047	—
Inventories of materials and supplies, end of 2002 . . . . . \$1,000 . . . . .	3 912 006	2
Inventories of materials and supplies, end of 2001 . . . . . \$1,000 . . . . .	3 616 625	2
Establishments with no inventories . . . . . number . . . . .	129 547	—
Value of construction work for establishments with no inventories . . . . . \$1,000 . . . . .	216 320 549	—
Establishments not reporting inventories . . . . . number . . . . .	12 381	—
Value of construction work for establishments not reporting inventories . . . . . \$1,000 . . . . .	11 852 298	—

<sup>1</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Selected Statistics for Establishments by Employment Size Class: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Employment size class	E <sup>1</sup>	Number of establishments	Total number of employees	Total payroll	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	C
<b>UNITED STATES</b>											
All establishments . . . .	1	710 308	7 193 078	254 292 493	1 208 732 550	1 196 556 752	874 854 013	560 885 574	326 144 236	321 702 739	—
Establishments with—											
1 to 4 employees . . . . .	—	421 959	865 892	19 498 946	124 831 521	123 910 656	94 872 602	55 536 892	40 256 574	29 038 054	1
5 to 9 employees . . . . .	—	140 499	890 976	24 827 821	117 136 449	116 097 124	90 469 742	55 960 951	35 548 116	25 627 382	1
10 to 19 employees . . . . .	—	78 917	1 046 853	34 444 000	147 886 386	146 360 984	112 281 565	71 127 343	42 679 623	34 079 419	1
20 to 49 employees . . . . .	—	46 625	1 386 208	52 393 597	221 316 984	218 703 496	164 322 978	106 280 742	60 655 724	54 380 518	1
50 to 99 employees . . . . .	—	13 649	930 246	37 804 507	174 077 659	172 139 219	123 353 305	80 036 042	45 255 702	48 785 914	1
100 to 249 employees . . . . .	—	6 640	981 340	41 156 950	203 585 889	201 563 504	140 211 214	91 917 550	50 316 049	61 352 290	1
250 to 499 employees . . . . .	—	1 434	484 560	20 011 585	105 170 732	103 950 878	69 236 452	46 824 967	23 631 339	34 714 425	1
500 to 999 employees . . . . .	—	422	283 433	11 519 446	59 183 949	58 626 539	40 034 149	24 889 336	15 702 223	18 592 390	—
1,000 employees or more . . . . .	—	163	323 571	12 635 641	55 542 982	55 204 352	40 072 006	28 311 751	12 098 885	15 132 346	—

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Selected Statistics for Establishments by Value of Business Done Size Class: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Dollar value size class	E <sup>1</sup>	Number of establishments	Total number of employees	Total payroll	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	G
<b>UNITED STATES</b>											
All establishments . . . .	1	710 308	7 193 078	254 292 493	1 208 732 550	1 196 556 752	874 854 013	560 885 574	326 144 236	321 702 739	—
Establishments with value of business done—											
Less than \$25,000 . . . . .	1	9 184	S	55 912	174 231	173 258	159 336	118 022	42 287	13 922	5
\$25,000 to \$49,999 . . . . .	—	31 711	S	374 442	1 190 938	1 183 787	1 055 472	733 351	329 273	128 315	2
\$50,000 to \$99,999 . . . . .	—	75 096	118 066	1 590 012	5 609 309	5 576 854	4 907 577	3 264 809	1 675 225	669 276	2
\$100,000 to \$249,999 . . . . .	—	183 250	443 361	8 043 841	30 436 974	30 238 742	26 458 166	17 307 078	9 349 321	3 780 575	1
\$250,000 to \$499,999 . . . . .	—	138 335	562 725	13 137 454	49 104 576	48 725 428	42 131 891	26 920 808	15 590 231	6 593 537	1
\$500,000 to \$999,999 . . . . .	—	106 324	720 567	19 742 727	74 919 136	74 305 636	62 913 089	39 839 958	23 686 632	11 392 547	1
\$1,000,000 to \$2,499,999 . . . . .	—	89 726	1 105 357	36 093 608	139 407 058	137 958 180	113 306 624	70 975 775	43 779 726	24 651 557	1
\$2,500,000 to \$4,999,999 . . . . .	—	37 075	866 859	32 085 167	129 187 691	127 799 231	101 842 572	63 903 119	39 327 913	25 956 659	1
\$5,000,000 to \$9,999,999 . . . . .	—	20 923	847 820	33 950 854	143 912 449	142 188 513	109 313 274	68 779 814	42 257 397	32 875 239	1
\$10,000,000 or more . . . . .	—	18 684	2 481 787	109 218 476	634 790 187	628 407 124	412 766 011	269 042 841	150 106 233	215 641 113	—

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6. Value of Construction Work for Establishments by Location of Construction Work: 2002**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>UNITED STATES</b>		
Total .....	1 196 556 752	—
Construction work done in Alabama .....	13 991 688	2
Construction work done in Alaska .....	4 562 794	4
Construction work done in Arizona .....	30 122 946	2
Construction work done in Arkansas .....	7 036 083	2
Construction work done in California .....	149 915 000	1
Construction work done in Colorado .....	31 530 961	1
Construction work done in Connecticut .....	13 480 611	2
Construction work done in Delaware .....	4 170 834	2
Construction work done in District of Columbia .....	4 669 140	1
Construction work done in Florida .....	78 549 582	1
Construction work done in Georgia .....	39 385 293	2
Construction work done in Hawaii .....	6 457 928	2
Construction work done in Idaho .....	5 429 794	4
Construction work done in Illinois .....	55 020 035	1
Construction work done in Indiana .....	22 929 380	2
Construction work done in Iowa .....	10 095 702	1
Construction work done in Kansas .....	10 379 276	2
Construction work done in Kentucky .....	12 374 578	2
Construction work done in Louisiana .....	14 775 222	2
Construction work done in Maine .....	4 177 303	2
Construction work done in Maryland .....	25 830 666	2
Construction work done in Massachusetts .....	30 678 904	1
Construction work done in Michigan .....	36 675 959	1
Construction work done in Minnesota .....	27 327 704	2
Construction work done in Mississippi .....	7 914 099	2
Construction work done in Missouri .....	22 701 056	2
Construction work done in Montana .....	3 296 168	2
Construction work done in Nebraska .....	6 875 682	1
Construction work done in Nevada .....	17 751 212	1
Construction work done in New Hampshire .....	5 182 326	3
Construction work done in New Jersey .....	37 848 849	2
Construction work done in New Mexico .....	6 583 902	2
Construction work done in New York .....	66 150 479	1
Construction work done in North Carolina .....	35 661 247	1
Construction work done in North Dakota .....	2 271 462	3
Construction work done in Ohio .....	38 783 353	1
Construction work done in Oklahoma .....	9 317 977	2
Construction work done in Oregon .....	13 947 083	1
Construction work done in Pennsylvania .....	43 915 124	1
Construction work done in Rhode Island .....	4 020 869	2
Construction work done in South Carolina .....	16 973 821	5
Construction work done in South Dakota .....	2 850 189	2
Construction work done in Tennessee .....	18 300 170	2
Construction work done in Texas .....	93 334 188	1
Construction work done in Utah .....	9 806 370	2
Construction work done in Vermont .....	2 183 576	3
Construction work done in Virginia .....	35 615 703	1
Construction work done in Washington .....	26 680 811	1
Construction work done in West Virginia .....	4 252 706	2
Construction work done in Wisconsin .....	21 948 676	2
Construction work done in Wyoming .....	2 822 270	2
<b>ALABAMA</b>		
Total .....	15 418 544	1
Construction work done in Alabama .....	12 327 571	2
Construction work done in Florida .....	565 015	3
Construction work done in Georgia .....	597 243	3
Construction work done in Louisiana .....	126 708	5
Construction work done in Mississippi .....	250 124	3
Construction work done in North Carolina .....	169 662	2
Construction work done in South Carolina .....	233 618	1
Construction work done in Tennessee .....	309 963	1
Construction work done in Texas .....	226 129	1
<b>ALASKA</b>		
Total .....	4 365 499	4
Construction work done in Alaska .....	4 330 198	4
<b>ARIZONA</b>		
Total .....	28 601 890	2
Construction work done in Arizona .....	26 949 013	2
Construction work done in California .....	719 136	8
Construction work done in Hawaii .....	117 602	1
Construction work done in Nevada .....	189 604	2
<b>ARKANSAS</b>		
Total .....	6 517 510	2
Construction work done in Arkansas .....	5 529 943	2
Construction work done in Louisiana .....	71 438	5
Construction work done in Mississippi .....	61 476	10
Construction work done in Missouri .....	150 637	11
Construction work done in Oklahoma .....	166 834	7
Construction work done in Tennessee .....	49 485	4
Construction work done in Texas .....	205 577	3

See footnotes at end of table.

Table 6. **Value of Construction Work for Establishments by Location of Construction Work: 2002—Con.**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>CALIFORNIA</b>		
Total .....	149 352 993	1
Construction work done in Arizona .....	677 209	3
Construction work done in California .....	143 932 200	1
Construction work done in Colorado .....	499 035	8
Construction work done in Nevada .....	985 642	4
Construction work done in Oregon .....	398 488	6
Construction work done in Texas .....	358 313	4
Construction work done in Washington .....	426 156	1
<b>COLORADO</b>		
Total .....	32 422 778	1
Construction work done in Arizona .....	228 931	7
Construction work done in California .....	587 473	2
Construction work done in Colorado .....	29 026 328	1
Construction work done in Nevada .....	126 801	3
Construction work done in New Mexico .....	129 567	8
Construction work done in Texas .....	478 244	—
Construction work done in Utah .....	107 523	3
Construction work done in Washington .....	166 938	1
<b>CONNECTICUT</b>		
Total .....	13 587 064	2
Construction work done in Connecticut .....	11 851 515	2
Construction work done in Florida .....	212 825	1
Construction work done in Massachusetts .....	228 182	4
Construction work done in New York .....	507 333	3
Construction work done in Rhode Island .....	102 178	2
<b>DELAWARE</b>		
Total .....	3 852 446	3
Construction work done in Delaware .....	3 418 869	3
Construction work done in Maryland .....	151 367	5
Construction work done in New Jersey .....	55 850	2
Construction work done in Pennsylvania .....	181 198	7
<b>DISTRICT OF COLUMBIA</b>		
Total .....	1 371 681	1
Construction work done in District of Columbia .....	917 061	2
Construction work done in Maryland .....	213 314	—
Construction work done in New Jersey .....	17 840	—
Construction work done in Pennsylvania .....	9 122	—
Construction work done in Virginia .....	205 633	—
<b>FLORIDA</b>		
Total .....	78 720 300	1
Construction work done in Alabama .....	277 648	3
Construction work done in Florida .....	72 721 991	2
Construction work done in Georgia .....	713 178	2
Construction work done in North Carolina .....	434 918	2
Construction work done in Texas .....	700 927	2
<b>GEORGIA</b>		
Total .....	40 788 718	2
Construction work done in Alabama .....	323 990	2
Construction work done in Florida .....	1 266 665	4
Construction work done in Georgia .....	35 628 920	2
Construction work done in North Carolina .....	639 274	1
Construction work done in South Carolina .....	698 311	5
Construction work done in Tennessee .....	350 252	1
Construction work done in Texas .....	475 120	3
Construction work done in Virginia .....	206 633	7
<b>HAWAII</b>		
Total .....	5 562 996	1
Construction work done in Hawaii .....	5 562 996	1
<b>IDAHO</b>		
Total .....	5 459 096	3
Construction work done in California .....	183 716	4
Construction work done in Idaho .....	4 565 399	3
Construction work done in Montana .....	27 082	9
Construction work done in Nevada .....	45 573	3
Construction work done in Oregon .....	58 699	7
Construction work done in Utah .....	41 520	4
Construction work done in Washington .....	170 954	7
Construction work done in Wyoming .....	50 508	13
<b>ILLINOIS</b>		
Total .....	54 853 450	1
Construction work done in Illinois .....	50 852 305	1
Construction work done in Indiana .....	498 940	13
Construction work done in Iowa .....	158 189	11
Construction work done in Michigan .....	310 834	1
Construction work done in Missouri .....	421 820	11
Construction work done in Texas .....	172 115	1
Construction work done in Wisconsin .....	424 796	8

See footnotes at end of table.

**Table 6. Value of Construction Work for Establishments by Location of Construction Work: 2002—Con.**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>INDIANA</b>		
Total .....	23 195 712	2
Construction work done in Illinois .....	587 428	4
Construction work done in Indiana .....	20 754 312	2
Construction work done in Kentucky .....	267 589	3
Construction work done in Michigan .....	345 956	2
Construction work done in Ohio .....	460 941	2
<b>IOWA</b>		
Total .....	9 786 194	1
Construction work done in Illinois .....	249 029	2
Construction work done in Iowa .....	8 683 728	2
Construction work done in Kansas .....	26 468	4
Construction work done in Minnesota .....	106 049	7
Construction work done in Missouri .....	74 310	7
Construction work done in Nebraska .....	190 924	4
Construction work done in South Dakota .....	84 932	14
<b>KANSAS</b>		
Total .....	10 212 672	2
Construction work done in California .....	106 100	1
Construction work done in Colorado .....	58 311	5
Construction work done in Iowa .....	85 609	2
Construction work done in Kansas .....	8 303 101	2
Construction work done in Missouri .....	882 617	1
Construction work done in Nebraska .....	57 219	3
Construction work done in Oklahoma .....	153 819	1
Construction work done in Texas .....	191 289	2
<b>KENTUCKY</b>		
Total .....	12 483 652	2
Construction work done in Illinois .....	79 740	4
Construction work done in Indiana .....	389 492	2
Construction work done in Kentucky .....	10 222 214	3
Construction work done in North Carolina .....	120 146	30
Construction work done in Ohio .....	501 987	3
Construction work done in Tennessee .....	151 386	2
Construction work done in Virginia .....	131 297	1
Construction work done in West Virginia .....	68 358	4
<b>LOUISIANA</b>		
Total .....	15 149 836	2
Construction work done in Alabama .....	116 230	2
Construction work done in Arkansas .....	129 364	3
Construction work done in Florida .....	146 323	—
Construction work done in Louisiana .....	13 003 084	2
Construction work done in Mississippi .....	338 282	1
Construction work done in Texas .....	756 415	1
<b>MAINE</b>		
Total .....	4 194 524	2
Construction work done in Maine .....	3 795 100	2
Construction work done in Massachusetts .....	70 826	6
Construction work done in New Hampshire .....	148 754	4
<b>MARYLAND</b>		
Total .....	29 402 444	2
Construction work done in Delaware .....	162 965	9
Construction work done in District of Columbia .....	2 652 178	1
Construction work done in Maryland .....	22 597 009	2
Construction work done in North Carolina .....	80 994	6
Construction work done in Pennsylvania .....	157 193	4
Construction work done in Virginia .....	2 922 942	3
Construction work done in West Virginia .....	346 158	17
<b>MASSACHUSETTS</b>		
Total .....	31 325 634	1
Construction work done in Connecticut .....	642 993	4
Construction work done in Massachusetts .....	27 830 904	2
Construction work done in New Hampshire .....	461 929	29
Construction work done in New Jersey .....	74 980	—
Construction work done in New York .....	449 031	1
Construction work done in Rhode Island .....	410 853	7
<b>MICHIGAN</b>		
Total .....	36 094 747	1
Construction work done in Illinois .....	184 175	1
Construction work done in Indiana .....	116 677	5
Construction work done in Michigan .....	34 434 806	1
Construction work done in Ohio .....	223 726	10
Construction work done in Pennsylvania .....	88 750	1
Construction work done in Wisconsin .....	76 367	12

See footnotes at end of table.



Table 6. **Value of Construction Work for Establishments by Location of Construction Work: 2002—Con.**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>MINNESOTA</b>		
Total .....	28 926 697	2
Construction work done in California .....	257 767	1
Construction work done in Colorado .....	149 581	1
Construction work done in Illinois .....	395 134	1
Construction work done in Iowa .....	347 711	4
Construction work done in Minnesota .....	25 860 976	2
Construction work done in North Dakota .....	227 531	15
Construction work done in South Dakota .....	192 103	6
Construction work done in Wisconsin .....	421 590	7
<b>MISSISSIPPI</b>		
Total .....	7 115 706	2
Construction work done in Alabama .....	142 734	4
Construction work done in Arkansas .....	39 938	8
Construction work done in Florida .....	275 324	9
Construction work done in Georgia .....	56 046	—
Construction work done in Louisiana .....	210 048	1
Construction work done in Mississippi .....	5 929 182	2
Construction work done in Tennessee .....	140 410	2
Construction work done in Texas .....	132 202	—
<b>MISSOURI</b>		
Total .....	25 895 551	2
Construction work done in Arizona .....	183 317	—
Construction work done in Arkansas .....	183 843	3
Construction work done in California .....	442 236	—
Construction work done in Colorado .....	212 490	—
Construction work done in Illinois .....	658 350	5
Construction work done in Iowa .....	200 944	12
Construction work done in Kansas .....	1 400 169	2
Construction work done in Kentucky .....	131 969	—
Construction work done in Missouri .....	20 369 979	2
Construction work done in Nebraska .....	129 530	1
Construction work done in Ohio .....	128 169	2
Construction work done in Oklahoma .....	75 651	1
Construction work done in Tennessee .....	81 418	1
Construction work done in Texas .....	285 695	2
<b>MONTANA</b>		
Total .....	3 294 142	2
Construction work done in Idaho .....	32 626	8
Construction work done in Montana .....	3 068 707	3
Construction work done in Utah .....	5 824	—
Construction work done in Washington .....	14 391	9
Construction work done in Wyoming .....	81 439	2
<b>NEBRASKA</b>		
Total .....	6 611 631	2
Construction work done in Colorado .....	24 917	3
Construction work done in Iowa .....	205 538	3
Construction work done in Kansas .....	66 390	4
Construction work done in Missouri .....	19 333	11
Construction work done in Nebraska .....	5 996 752	2
Construction work done in South Dakota .....	21 941	3
Construction work done in Texas .....	26 899	1
Construction work done in Wyoming .....	26 887	3
<b>NEVADA</b>		
Total .....	15 896 085	2
Construction work done in California .....	503 602	3
Construction work done in Nevada .....	14 997 013	2
<b>NEW HAMPSHIRE</b>		
Total .....	5 182 476	2
Construction work done in Connecticut .....	22 710	1
Construction work done in Maine .....	146 181	8
Construction work done in Massachusetts .....	760 559	4
Construction work done in New Hampshire .....	4 042 153	3
Construction work done in Vermont .....	108 388	3
<b>NEW JERSEY</b>		
Total .....	37 503 989	2
Construction work done in New Jersey .....	33 512 089	2
Construction work done in New York .....	1 962 077	3
Construction work done in Pennsylvania .....	933 576	5
<b>NEW MEXICO</b>		
Total .....	5 965 217	2
Construction work done in Arizona .....	111 028	1
Construction work done in California .....	27 013	17
Construction work done in Colorado .....	57 963	3
Construction work done in Nevada .....	3 389	3
Construction work done in New Mexico .....	5 631 228	2
Construction work done in Texas .....	78 145	8

See footnotes at end of table.

**Table 6. Value of Construction Work for Establishments by Location of Construction Work: 2002—Con.**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>NEW YORK</b>		
Total .....	64 979 926	1
Construction work done in Connecticut .....	359 874	4
Construction work done in New Jersey .....	1 289 196	6
Construction work done in New York .....	61 708 037	1
Construction work done in Pennsylvania .....	345 808	6
<b>NORTH CAROLINA</b>		
Total .....	33 958 390	1
Construction work done in Florida .....	197 494	4
Construction work done in Georgia .....	452 600	2
Construction work done in North Carolina .....	31 346 850	2
Construction work done in South Carolina .....	905 892	3
Construction work done in Tennessee .....	69 452	3
Construction work done in Virginia .....	381 952	10
<b>NORTH DAKOTA</b>		
Total .....	2 313 075	2
Construction work done in Colorado .....	17 607	—
Construction work done in Iowa .....	12 769	5
Construction work done in Minnesota .....	236 726	2
Construction work done in Montana .....	14 565	4
Construction work done in Nebraska .....	17 617	7
Construction work done in North Dakota .....	1 898 518	2
Construction work done in South Dakota .....	77 826	2
<b>OHIO</b>		
Total .....	39 814 955	1
Construction work done in Indiana .....	305 082	3
Construction work done in Kentucky .....	706 488	2
Construction work done in Michigan .....	528 737	3
Construction work done in Ohio .....	35 627 904	1
Construction work done in Pennsylvania .....	469 929	6
Construction work done in West Virginia .....	257 387	7
<b>OKLAHOMA</b>		
Total .....	9 480 368	2
Construction work done in Arkansas .....	100 666	4
Construction work done in Colorado .....	15 613	15
Construction work done in Kansas .....	51 194	18
Construction work done in Louisiana .....	36 255	2
Construction work done in Missouri .....	32 307	6
Construction work done in Oklahoma .....	8 008 710	3
Construction work done in Texas .....	589 769	2
<b>OREGON</b>		
Total .....	13 641 611	1
Construction work done in California .....	290 592	3
Construction work done in Idaho .....	42 940	17
Construction work done in Oregon .....	12 120 261	2
Construction work done in Washington .....	772 624	2
<b>PENNSYLVANIA</b>		
Total .....	46 142 408	1
Construction work done in Delaware .....	305 360	2
Construction work done in Maryland .....	518 668	4
Construction work done in New Jersey .....	2 068 594	2
Construction work done in New York .....	445 549	17
Construction work done in Ohio .....	324 748	3
Construction work done in Pennsylvania .....	40 337 194	1
Construction work done in West Virginia .....	457 016	2
<b>RHODE ISLAND</b>		
Total .....	4 314 062	2
Construction work done in Connecticut .....	211 558	7
Construction work done in Massachusetts .....	642 167	2
Construction work done in New Hampshire .....	77 023	—
Construction work done in Rhode Island .....	3 294 981	3
<b>SOUTH CAROLINA</b>		
Total .....	15 184 159	6
Construction work done in Florida .....	106 663	1
Construction work done in Georgia .....	250 410	7
Construction work done in North Carolina .....	504 159	2
Construction work done in South Carolina .....	13 734 101	6
<b>SOUTH DAKOTA</b>		
Total .....	2 611 128	2
Construction work done in Colorado .....	15 322	29
Construction work done in Iowa .....	86 693	6
Construction work done in Minnesota .....	46 091	4
Construction work done in Nebraska .....	37 229	6
Construction work done in North Dakota .....	27 516	3
Construction work done in South Dakota .....	2 309 267	2
Construction work done in Wyoming .....	28 684	8

See footnotes at end of table.

Table 6. **Value of Construction Work for Establishments by Location of Construction Work: 2002—Con.**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>TENNESSEE</b>		
Total .....	19 589 285	2
Construction work done in Alabama .....	228 069	2
Construction work done in Arkansas .....	311 980	3
Construction work done in Florida .....	259 523	7
Construction work done in Georgia .....	339 521	2
Construction work done in Kentucky .....	267 689	6
Construction work done in Mississippi .....	398 554	2
Construction work done in North Carolina .....	435 692	1
Construction work done in South Carolina .....	138 998	1
Construction work done in Tennessee .....	16 062 081	2
Construction work done in Texas .....	220 904	3
Construction work done in Virginia .....	210 288	4
<b>TEXAS</b>		
Total .....	93 196 677	1
Construction work done in Florida .....	711 677	2
Construction work done in Georgia .....	438 248	1
Construction work done in Louisiana .....	386 251	3
Construction work done in New Mexico .....	248 626	7
Construction work done in North Carolina .....	362 823	3
Construction work done in Oklahoma .....	368 861	16
Construction work done in Texas .....	86 984 688	1
Construction work done in Virginia .....	241 953	1
<b>UTAH</b>		
Total .....	10 660 972	2
Construction work done in Arizona .....	<sup>s</sup> 327 136	<sup>s</sup> 45
Construction work done in California .....	158 328	5
Construction work done in Colorado .....	195 339	1
Construction work done in Idaho .....	146 939	1
Construction work done in Nevada .....	107 813	6
Construction work done in Oregon .....	90 828	—
Construction work done in Utah .....	9 065 283	2
Construction work done in Washington .....	86 353	31
Construction work done in Wyoming .....	179 140	1
<b>VERMONT</b>		
Total .....	2 222 352	3
Construction work done in Maine .....	29 525	1
Construction work done in Massachusetts .....	29 388	21
Construction work done in New Hampshire .....	111 284	2
Construction work done in New York .....	36 329	3
Construction work done in Vermont .....	1 886 380	4
<b>VIRGINIA</b>		
Total .....	33 347 618	1
Construction work done in District of Columbia .....	712 623	2
Construction work done in Maryland .....	1 273 280	2
Construction work done in North Carolina .....	506 260	3
Construction work done in South Carolina .....	214 257	1
Construction work done in Virginia .....	29 629 112	1
<b>WASHINGTON</b>		
Total .....	27 533 813	1
Construction work done in Alaska .....	84 826	8
Construction work done in Arizona .....	186 349	1
Construction work done in California .....	374 844	2
Construction work done in Hawaii .....	256 221	3
Construction work done in Idaho .....	274 690	5
Construction work done in Oregon .....	938 858	4
Construction work done in Washington .....	24 527 534	1
<b>WEST VIRGINIA</b>		
Total .....	3 342 166	2
Construction work done in Kentucky .....	68 277	2
Construction work done in Maryland .....	32 902	10
Construction work done in Ohio .....	291 153	1
Construction work done in Pennsylvania .....	38 992	2
Construction work done in Virginia .....	120 044	16
Construction work done in West Virginia .....	2 718 767	2
<b>WISCONSIN</b>		
Total .....	23 008 114	2
Construction work done in Illinois .....	679 105	3
Construction work done in Iowa .....	178 406	1
Construction work done in Michigan .....	271 201	6
Construction work done in Minnesota .....	482 501	7
Construction work done in Missouri .....	44 155	3
Construction work done in Wisconsin .....	20 685 913	2
<b>WYOMING</b>		
Total .....	2 103 801	2
Construction work done in Colorado .....	15 254	16
Construction work done in Montana .....	4 056	3
Construction work done in Nebraska .....	7 443	8
Construction work done in Wyoming .....	1 991 700	2

See footnotes at end of table.

Table 6. **Value of Construction Work for Establishments by Location of Construction Work:  
2002—Con.**

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 7. Value of Construction Work for Establishments by Geographic Area and Type of Construction: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>UNITED STATES</b>								
Total .....	1 196 556 752	786 628 957	268 044 575	141 894 359	—	—	—	—
Building construction, total .....	903 239 958	606 352 550	200 063 959	96 823 449	—	—	—	1
Single-family houses, detached and attached .....	358 174 733	272 648 723	52 096 743	33 429 267	1	1	1	1
Single-family houses, detached .....	317 134 024	242 251 719	46 125 977	28 756 328	1	1	1	1
Single-family houses, attached .....	41 040 709	30 397 004	5 970 766	4 672 939	1	1	2	2
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives .....	50 833 010	37 176 096	7 406 224	6 250 691	1	1	2	2
Dormitories and barracks .....	6 919 083	4 626 893	1 786 584	505 606	2	1	2	3
Manufacturing and industrial warehouses .....	31 660 380	19 280 891	7 725 081	4 654 408	1	2	2	1
Grain elevators and dry cleaning plants .....	497 912	243 298	115 898	138 716	10	12	11	7
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories .....	45 610 485	22 572 128	13 434 007	9 604 350	1	1	2	1
Hotels, motels, and tourist cabins .....	18 754 760	13 415 085	3 492 410	1 847 264	1	1	3	2
Office buildings .....	108 358 508	59 259 186	35 879 555	13 219 766	1	1	1	1
Stores, restaurants, and automobile service stations, and other commercial buildings .....	86 502 352	53 228 276	21 988 650	11 285 426	1	1	1	1
Commercial warehouses such as distribution buildings and mini-storage .....	19 795 286	13 877 545	3 863 465	2 054 276	1	1	2	2
Religious buildings .....	16 542 892	10 025 458	4 701 924	1 815 509	1	2	2	2
Educational buildings .....	79 136 928	48 904 856	24 900 904	5 331 168	1	1	1	2
Waste disposal plants .....	407 059	231 889	130 891	44 279	3	3	5	2
Health care and institutional buildings .....	43 993 745	25 444 321	15 042 691	3 506 733	1	1	1	2
Public safety buildings such as prisons, police, and fire stations .....	12 665 126	8 691 384	2 875 201	1 098 541	1	2	2	4
Farm buildings, nonresidential (except grain elevators) .....	4 623 731	3 324 026	635 540	664 165	6	7	7	3
Amusement, social, and recreational buildings .....	12 827 062	9 256 235	2 776 851	793 976	1	1	3	9
Indoor swimming pools .....	537 366	391 963	D	D	17	21	S	S
Indoor ice rinks .....	21 883	21 477	D	D	13	13	S	S
Other building construction .....	5 377 658	3 732 819	1 149 723	495 116	1	1	2	3
Nonbuilding construction, total .....	250 166 081	152 756 964	56 021 428	41 387 689	—	—	1	1
Highways, streets, and related work, such as installation of guardrails and signs .....	66 727 893	36 440 528	19 498 179	10 789 186	—	—	1	2
Airport runways and related work .....	3 911 463	2 056 495	1 430 228	424 740	2	2	2	5
Private driveways and parking areas .....	14 831 152	8 784 094	3 079 195	2 967 863	2	2	2	4
Bridges and elevated highways .....	14 921 025	8 994 232	4 164 048	1 762 748	2	2	3	3
Tunnels .....	2 045 705	1 723 430	205 627	116 648	2	1	3	8
Sewers, water mains, and related facilities .....	39 034 132	27 500 515	6 333 459	5 200 159	1	1	2	2
Sewers, sewer lines, septic systems, and related facilities .....	22 408 162	15 660 144	3 662 224	3 085 795	1	1	2	3
Water mains, storage, and related facilities .....	16 625 970	11 840 371	2 671 235	2 114 364	2	2	3	3
Oil and gas pipelines (except gathering), pumping stations, storage tanks, and mains .....	7 242 820	4 659 849	1 172 580	1 410 392	1	2	2	3
Power and communication transmission lines, cables, towers, and related facilities .....	21 955 370	12 799 664	4 745 028	4 410 679	1	1	2	2
Power plants .....	21 731 750	16 273 363	2 355 669	3 102 717	—	—	3	1
Power and cogeneration plants, except hydroelectric .....	18 767 296	14 125 686	2 044 108	2 597 502	—	—	1	2
Power plants, hydroelectric .....	2 964 454	2 147 677	311 561	505 216	10	11	22	1
Chemical (except petrochemical) complexes/plants, blast furnaces, and mining appurtenances .....	2 441 590	629 141	533 548	1 278 901	2	3	3	2
Sewage and water treatment plants .....	10 904 648	6 358 226	3 513 504	1 032 918	1	1	1	2
Sewage treatment plants .....	5 581 061	3 189 800	1 934 133	457 128	1	1	2	4
Water treatment plants .....	5 323 587	3 168 426	1 579 371	575 790	1	1	2	1
Petrochemical plants and petroleum refineries .....	7 438 388	2 308 789	1 963 334	3 166 265	1	1	1	2
Mass transit construction .....	4 931 679	2 613 592	1 361 877	956 211	4	4	4	9
Urban mass transit, such as subways and light rail systems .....	2 228 674	1 425 777	680 351	122 546	1	1	3	4
Railroad construction .....	2 703 005	1 187 815	681 525	833 665	7	8	8	11
Conservation and development construction, such as drainage canals and flood control projects .....	4 712 461	3 046 481	837 838	828 142	4	4	5	5
Dam construction .....	683 009	398 972	139 519	144 518	5	3	24	7
Harbor and port facilities .....	1 709 339	1 136 516	363 818	209 005	4	4	4	7
Marine construction, such as dredging, navigational channels, and locks .....	2 372 536	1 067 545	526 810	778 182	7	11	11	9
Outdoor swimming pools .....	6 765 210	5 185 209	852 672	727 329	4	4	6	7
Fencing (except electronic containment fencing for pets) .....	4 447 638	3 145 472	761 084	541 082	4	5	6	8
Electronic containment fencing for pets .....	84 408	53 103	8 851	22 454	19	22	23	37
Outdoor recreational areas, such as outdoor athletic fields, courts, golf courses, and camp grounds .....	5 279 835	3 511 834	1 283 646	484 355	5	4	13	11
Ships .....	493 415	162 697	60 375	270 342	16	3	7	30
Oil and gas fields .....	771 226	473 634	128 251	169 341	4	4	1	10
Oil and gas field gathering lines .....	1 069 543	657 891	183 712	227 940	5	4	8	8
Coal mines .....	156 048	91 111	31 340	33 597	12	18	15	18
Metal mines .....	62 374	35 051	3 795	23 528	23	34	22	31
Nonmetallic mines .....	79 357	47 159	17 605	14 592	12	13	12	10
Other nonbuilding construction .....	3 362 064	2 602 372	465 836	293 857	4	5	8	11
Construction work, nsk .....	43 150 713	27 519 443	11 959 188	3 683 221	—	—	—	—
<b>NORTHEAST</b>								
Total .....	209 452 434	118 923 023	62 776 674	27 752 737	1	1	1	1
Building construction, total .....	161 059 541	92 069 811	48 756 861	20 232 869	1	1	1	1
Single-family houses, detached and attached .....	48 216 370	30 275 219	11 412 303	6 528 847	1	1	1	2
Single-family houses, detached .....	42 093 680	26 412 759	10 175 727	5 505 194	2	2	2	2
Single-family houses, attached .....	6 122 690	3 862 460	1 236 575	1 023 654	3	5	4	5
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives .....	9 687 638	5 900 924	2 333 419	1 453 295	2	3	4	5
Dormitories and barracks .....	1 868 163	1 119 278	604 424	144 461	1	1	2	7
Manufacturing and industrial warehouses .....	5 025 318	2 793 990	1 353 200	878 128	2	3	3	4
Grain elevators and dry cleaning plants .....	19 162	7 235	6 118	5 810	9	17	7	12
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories .....	9 539 018	5 236 038	2 667 645	1 635 335	3	3	6	4
Hotels, motels, and tourist cabins .....	3 696 739	2 495 625	821 486	379 628	2	2	8	6
Office buildings .....	25 108 823	11 430 470	10 394 955	3 283 398	1	1	2	3
Stores, restaurants, and automobile service stations, and other commercial buildings .....	16 288 462	8 536 116	5 315 562	2 436 784	2	2	3	3
Nonbuilding construction, total .....	48 392 893	26 853 212	14 019 813	7 519 868	—	—	—	—

See footnotes at end of table.

**Table 7. Value of Construction Work for Establishments by Geographic Area and Type of Construction: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>NORTHEAST—Con.</b>								
Commercial warehouses such as distribution buildings and mini-storage	3 268 355	2 241 576	650 368	376 411	2	3	4	4
Religious buildings	2 302 130	1 138 063	797 868	366 199	3	3	3	6
Educational buildings	19 627 002	11 102 563	7 240 116	1 284 324	2	2	3	6
Waste disposal plants	97 449	39 745	45 010	12 694	5	11	—	14
Health care and institutional buildings	8 898 785	4 718 379	3 378 342	802 064	2	3	2	3
Public safety buildings such as prisons, police, and fire stations	2 596 476	1 559 990	824 029	212 457	4	4	4	9
Farm buildings, nonresidential (except grain elevators)	651 638	446 197	101 575	103 866	9	10	10	26
Amusement, social, and recreational buildings	2 241 205	1 551 266	497 970	191 969	3	3	5	4
Indoor swimming pools	*159 108	*129 207	4 434	25 466	<sup>S</sup> 53	<sup>S</sup> 59	9	35
Other building construction	1 767 701	1 347 930	308 036	111 735	1	1	4	3
Nonbuilding construction, total	39 513 435	21 002 582	11 689 998	6 820 854	1	1	2	2
Highways, streets, and related work, such as installation of guardrails and signs	9 929 452	4 299 025	3 604 228	2 026 199	3	2	4	6
Airport runways and related work	704 017	271 749	310 077	122 191	4	6	2	6
Private driveways and parking areas	2 443 467	1 381 083	607 690	454 694	6	6	9	9
Bridges and elevated highways	4 110 045	1 934 730	1 525 746	649 568	2	3	3	5
Tunnels	806 596	639 285	125 173	42 139	4	3	6	17
Sewers, water mains, and related facilities	5 600 440	3 719 418	1 086 968	794 054	4	4	6	5
Sewers, sewer lines, septic systems, and related facilities	3 281 166	2 148 214	654 717	478 236	5	4	8	7
Water mains, storage, and related facilities	2 319 274	1 571 204	432 251	315 819	6	7	9	8
Oil and gas pipelines (except gathering), pumping stations, storage tanks, and mains	797 813	382 869	230 821	184 123	2	2	3	4
Power and communication transmission lines, cables, towers, and related facilities	2 743 848	1 523 038	716 792	504 018	3	3	5	9
Power plants	2 674 501	1 468 899	548 474	567 128	2	2	3	2
Power and cogeneration plants, except hydroelectric	2 444 839	1 379 119	502 658	563 061	2	2	4	3
Power plants, hydroelectric	229 662	89 779	45 815	94 067	3	4	10	2
Chemical (except petrochemical) complexes/plants, blast furnaces, and mining appurtenances	386 979	95 964	98 152	192 863	1	2	2	2
Sewage and water treatment plants	1 983 419	1 023 273	783 589	176 557	2	2	2	10
Sewage treatment plants	1 109 564	526 859	475 857	106 848	3	3	3	16
Water treatment plants	873 855	496 414	307 732	69 709	3	4	3	8
Petrochemical plants and petroleum refineries	326 501	143 746	89 310	93 446	8	16	2	7
Mass transit construction	1 818 023	906 379	788 152	123 492	3	3	4	14
Urban mass transit, such as subways and light rail systems	1 199 473	671 088	487 318	41 066	—	—	1	3
Railroad construction	618 550	235 291	300 834	82 426	9	11	11	22
Conservation and development construction, such as drainage canals and flood control projects	544 975	362 829	88 630	93 516	5	6	17	10
Dam construction	75 626	23 300	15 233	37 094	5	10	7	3
Harbor and port facilities	458 625	305 298	95 160	58 168	5	5	3	13
Marine construction, such as dredging, navigational channels, and locks	451 005	243 714	109 548	97 743	8	5	20	7
Outdoor swimming pools	1 225 970	862 092	174 684	189 194	9	10	14	21
Fencing (except electronic containment fencing for pets)	702 181	473 046	133 578	95 557	11	12	14	16
Electronic containment fencing for pets	27 393	14 897	D	D	19	12	S	S
Outdoor recreational areas, such as outdoor athletic fields, courts, golf courses, and camp grounds	1 127 062	561 410	452 521	113 132	16	9	36	13
Ships	26 640	7 229	*7 037	12 374	28	1	<sup>S</sup> 49	34
Oil and gas fields	13 751	6 049	D	D	18	23	S	S
Oil and gas field gathering lines	80 087	*18 382	16 651	45 054	13	<sup>S</sup> 41	24	10
Coal mines	D	D	*5 958	2 191	S	S	*74	31
Metal mines	D	D	—	—	S	S	—	—
Nonmetallic mines	D	D	—	—	S	S	—	<sup>S</sup> 85
Other nonbuilding construction	440 416	328 972	69 388	42 056	8	6	32	31
Construction work, nsk	8 879 458	5 850 630	2 329 815	699 013	—	—	—	—
<b>MIDWEST</b>								
Total	263 323 925	165 265 634	63 911 681	34 146 609	—	1	1	1
Building construction, total	201 257 780	129 420 154	47 846 338	23 991 289	—	1	1	1
Single-family houses, detached and attached	74 019 458	53 622 260	12 113 251	8 283 947	1	1	2	3
Single-family houses, attached	62 764 957	45 101 111	10 509 434	7 154 412	1	1	2	3
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives	11 254 501	8 521 149	1 603 817	1 129 535	2	3	4	4
Dormitories and barracks	10 166 516	7 320 515	1 627 120	1 218 881	3	3	4	6
Manufacturing and industrial warehouses	1 470 196	1 082 358	271 066	116 772	3	2	9	5
Grain elevators and dry cleaning plants	9 100 312	5 238 213	2 474 448	1 387 651	2	1	4	3
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories	295 676	137 330	75 047	83 300	6	7	8	5
Hotels, motels, and tourist cabins	13 781 624	6 313 710	4 372 127	3 095 788	2	2	3	2
Office buildings	3 088 811	2 065 058	651 400	372 354	3	3	7	2
Stores, restaurants, and automobile service stations, and other commercial buildings	21 845 485	12 566 062	6 536 508	2 742 915	1	1	2	2
Commercial warehouses such as distribution buildings and mini-storage	19 612 543	11 823 096	5 190 554	2 598 892	1	2	2	2
Religious buildings	4 670 702	3 128 503	1 063 067	479 133	2	2	4	4
Educational buildings	4 569 297	2 553 453	1 485 676	530 168	2	3	5	3
Waste disposal plants	18 388 028	10 961 185	6 072 674	1 354 169	1	1	2	3
Health care and institutional buildings	127 585	78 658	37 932	10 995	4	1	14	1
Public safety buildings such as prisons, police, and fire stations	11 308 585	6 486 749	3 923 859	897 978	1	2	2	2
Farm buildings, nonresidential (except grain elevators)	3 103 145	2 098 913	750 650	253 581	2	2	4	5
Amusement, social, and recreational buildings	1 718 791	1 221 591	245 165	252 035	4	5	6	8
Indoor swimming pools	3 166 031	2 224 548	753 405	188 078	1	1	3	4
Indoor ice rinks	105 182	76 023	D	D	16	21	S	S
Other building construction	18 955	18 549	D	D	—	—	S	S
Nonbuilding construction, total	700 858	403 383	189 756	107 719	4	3	6	11
Highways, streets, and related work, such as installation of guardrails and signs	53 753 409	30 374 304	13 890 283	9 488 822	1	1	1	2
Airport runways and related work	15 681 896	7 156 892	5 570 175	2 954 830	1	2	2	3
Private driveways and parking areas	1 006 737	564 822	365 232	86 683	2	2	2	6
Bridges and elevated highways	3 709 030	2 074 773	844 549	789 708	3	3	5	8
Tunnels	3 633 281	2 097 758	1 018 708	516 815	3	3	4	7
Sewers, water mains, and related facilities	574 507	508 836	23 046	42 626	1	1	12	3
Sewers, sewer lines, septic systems, and related facilities	9 134 788	6 460 040	1 563 830	1 110 917	2	2	3	4
Water mains, storage, and related facilities	5 529 337	3 932 056	965 387	631 894	2	2	3	6

See footnotes at end of table.

**Table 7. Value of Construction Work for Establishments by Geographic Area and Type of Construction: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>MIDWEST—Con.</b>								
Water mains, storage, and related facilities	3 605 451	2 527 984	598 444	479 023	3	3	5	5
Oil and gas pipelines (except gathering), pumping stations, storage tanks, and mains	1 381 950	913 027	206 741	262 183	6	7	8	7
Power and communication transmission lines, cables, towers, and related facilities	4 425 442	2 498 382	989 819	937 242	2	2	4	3
Power plants	3 574 920	2 333 340	681 034	560 546	1	1	1	3
Power and cogeneration plants, except hydroelectric	3 347 658	2 202 903	639 702	505 054	1	1	2	3
Power plants, hydroelectric	227 262	130 437	41 333	55 492	1	1	2	1
Chemical (except petrochemical) complexes/plants, blast furnaces, and mining appurtenances	507 228	85 762	159 141	262 325	4	10	3	6
Sewage and water treatment plants	2 706 133	1 537 096	937 555	231 483	1	2	3	3
Sewage treatment plants	1 404 866	796 762	496 847	111 257	2	3	2	5
Water treatment plants	1 301 267	740 334	440 708	120 226	1	2	2	5
Petrochemical plants and petroleum refineries	1 191 619	432 534	284 344	474 741	1	1	2	1
Mass transit construction	931 620	330 675	220 029	380 916	4	3	10	7
Urban mass transit, such as subways and light rail systems	146 638	69 804	71 473	5 362	14	2	29	6
Railroad construction	784 982	260 871	148 557	375 554	4	4	4	7
Conservation and development construction, such as drainage canals and flood control projects	1 006 804	638 594	158 774	209 436	5	9	10	7
Dam construction	172 002	126 042	29 315	16 645	8	7	2	4
Harbor and port facilities	171 606	125 784	26 121	19 701	5	6	2	3
Marine construction, such as dredging, navigational channels, and locks	699 161	237 243	218 280	243 638	10	2	19	22
Outdoor swimming pools	552 503	409 694	66 266	76 543	9	9	14	16
Fencing (except electronic containment fencing for pets)	915 442	593 640	191 807	129 995	12	12	16	17
Electronic containment fencing for pets	*8 903	*6 549	D	D	*75	*71	S	S
Outdoor recreational areas, such as outdoor athletic fields, courts, golf courses, and camp grounds	969 975	657 558	231 956	80 461	8	9	8	12
Ships	31 381	14 597	7 276	9 509	14	9	22	27
Oil and gas fields	10 467	8 584	D	D	14	10	S	S
Oil and gas field gathering lines	134 925	78 582	30 895	25 448	7	6	14	5
Coal mines	D	D	4 132	2 915	S	S	23	20
Metal mines	D	D	223	2 316	S	S	24	14
Nonmetallic mines	D	D	7 332	*1 839	S	S	19	*45
Other nonbuilding construction	579 027	460 198	61 489	57 339	8	10	4	9
Construction work, nsk	8 312 735	5 471 176	2 175 061	666 499	—	—	—	—
<b>SOUTH</b>								
Total	418 919 499	288 478 342	80 524 416	49 916 742	1	1	1	1
Building construction, total	306 639 114	217 151 085	57 761 402	31 726 626	1	1	1	1
Single-family houses, detached and attached	128 999 168	103 135 093	14 768 135	11 095 940	1	1	2	2
Single-family houses, detached	115 553 634	92 602 385	13 216 145	9 735 104	1	2	2	2
Single-family houses, attached	13 445 534	10 532 708	1 551 990	1 360 836	2	2	5	5
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives	18 069 428	14 008 075	2 059 182	2 002 171	2	2	5	4
Dormitories and barracks	2 099 764	1 413 186	562 447	124 130	2	2	5	4
Manufacturing and industrial warehouses	9 401 276	5 524 276	2 304 596	1 572 404	3	4	4	3
Grain elevators and dry cleaning plants	136 977	71 317	*27 635	38 025	33	38	*40	20
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories	13 948 967	6 490 940	3 904 606	3 553 420	1	1	3	3
Hotels, motels, and tourist cabins	6 384 133	4 695 125	1 044 071	644 938	2	3	3	4
Office buildings	35 082 530	20 116 938	10 768 601	4 196 990	1	1	2	2
Stores, restaurants, and automobile service stations, and other commercial buildings	29 260 749	19 053 121	6 515 410	3 692 218	2	3	4	2
Commercial warehouses such as distribution buildings and mini-storage	5 832 748	4 119 106	1 027 878	685 764	3	3	4	5
Religious buildings	6 831 186	4 578 814	1 621 907	630 466	3	3	4	4
Educational buildings	23 817 987	16 102 093	6 326 838	1 389 056	2	2	3	4
Waste disposal plants	78 009	55 082	11 289	11 639	10	10	23	29
Health care and institutional buildings	15 220 244	9 217 778	4 861 628	1 140 839	1	1	2	5
Public safety buildings such as prisons, police, and fire stations	3 945 527	2 913 029	696 522	335 976	3	3	6	6
Farm buildings, nonresidential (except grain elevators)	1 486 436	1 112 659	163 974	209 803	15	17	20	24
Amusement, social, and recreational buildings	4 112 393	3 141 412	745 838	225 143	2	2	5	8
Indoor swimming pools	150 497	98 518	19 477	32 502	17	18	24	28
Indoor ice rinks	*2 928	*2 928	—	—	*94	*94	—	—
Other building construction	1 778 165	1 301 595	331 368	145 202	1	2	2	2
Nonbuilding construction, total	97 485 455	62 024 908	18 571 265	16 889 282	1	1	1	1
Highways, streets, and related work, such as installation of guardrails and signs	25 456 373	15 771 276	6 102 803	3 582 294	1	1	2	2
Airport runways and related work	1 307 407	782 430	393 450	131 528	2	2	2	11
Private driveways and parking areas	5 161 278	3 297 008	914 471	949 799	3	3	8	4
Bridges and elevated highways	4 260 740	2 715 373	1 115 264	430 104	5	6	8	5
Tunnels	210 483	166 309	32 678	11 496	11	9	18	28
Sewers, water mains, and related facilities	14 179 939	10 061 575	2 073 708	2 044 656	2	2	2	3
Sewers, sewer lines, septic systems, and related facilities	8 061 786	5 595 391	1 196 655	1 269 739	2	2	3	3
Water mains, storage, and related facilities	6 118 153	4 466 183	877 053	774 917	4	5	4	6
Power and communication transmission lines, cables, towers, and related facilities	3 501 435	2 308 929	465 051	727 455	2	1	3	4
Power plants	8 118 381	4 688 859	1 578 559	1 850 963	2	2	2	2
Power and cogeneration plants, except hydroelectric	11 557 437	9 157 899	887 865	1 511 674	3	2	8	1
Power plants, hydroelectric	9 758 084	7 859 154	700 258	1 198 672	—	—	2	1
Chemical (except petrochemical) complexes/plants, blast furnaces, and mining appurtenances	1 295 205	357 481	218 961	313 002	16	17	37	2
Sewage and water treatment plants	3 386 605	2 028 555	989 730	368 320	2	2	3	3
Sewage treatment plants	1 648 599	1 013 093	521 901	113 605	2	3	4	5
Water treatment plants	1 738 005	1 015 462	467 829	254 715	3	3	4	4
Petrochemical plants and petroleum refineries	5 173 764	1 527 999	1 479 344	2 166 421	1	1	1	2
Mass transit construction	1 082 653	564 374	227 685	290 594	17	15	18	29
Urban mass transit, such as subways and light rail systems	282 729	184 330	61 312	37 087	3	3	2	12
Railroad construction	799 924	380 044	166 373	253 507	22	23	25	33
Conservation and development construction, such as drainage canals and flood control projects	1 960 774	1 287 942	315 639	357 192	6	6	9	6

See footnotes at end of table.

**Table 7. Value of Construction Work for Establishments by Geographic Area and Type of Construction: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>SOUTH—Con.</b>								
Dam construction	181 985	114 718	23 021	44 246	7	4	38	5
Harbor and port facilities	551 607	334 549	126 216	90 842	8	9	9	11
Marine construction, such as dredging, navigational channels, and locks	944 398	429 966	146 574	367 858	15	28	17	10
Outdoor swimming pools	2 860 052	2 236 867	347 964	275 221	6	6	10	8
Fencing (except electronic containment fencing for pets)	1 684 411	1 233 680	270 508	180 224	7	7	9	7
Electronic containment fencing for pets	29 411	24 913	D	D	33	39	S	S
Outdoor recreational areas, such as outdoor athletic fields, courts, golf courses, and camp grounds	1 766 483	1 203 657	367 955	194 872	8	7	9	25
Ships	364 983	111 333	38 363	215 286	22	1	4	37
Oil and gas fields	590 944	359 313	D	D	4	5	S	S
Oil and gas field gathering lines	480 785	283 694	99 858	97 234	11	9	14	17
Coal mines	102 496	60 196	19 428	22 872	17	27	5	26
Metal mines	2 992	2 608	126	258	14	13	38	19
Nonmetallic mines	39 039	26 643	6 839	5 556	5	4	5	13
Other nonbuilding construction	1 233 394	886 763	210 681	135 950	10	13	4	20
Construction work, nsk	14 794 930	9 302 348	4 191 748	1 300 834	—	—	—	—
<b>WEST</b>								
Total	304 860 894	213 961 958	60 831 804	30 078 271	1	1	1	1
Building construction, total								
Single-family houses, detached and attached	234 283 523	167 711 500	45 699 359	20 872 664	1	1	1	1
Single-family houses, detached	106 939 737	85 616 151	13 803 054	7 520 532	1	1	2	2
Single-family houses, attached	96 721 753	78 135 464	12 224 671	6 361 618	1	1	2	3
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives	10 217 984	7 480 687	1 578 383	1 158 914	2	3	5	4
Dormitories and barracks	12 909 429	9 946 582	1 386 502	1 576 345	3	4	4	5
Manufacturing and industrial warehouses	1 480 960	1 012 071	348 646	120 243	3	3	3	5
Grain elevators and dry cleaning plants	8 133 475	5 724 412	1 592 836	816 226	5	7	4	3
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories	46 096	27 417	7 099	11 581	9	5	2	31
Hotels, motels, and tourist cabins	8 340 876	4 531 440	2 489 629	1 319 808	1	2	2	3
Office buildings	5 585 076	4 159 277	8 975 454	450 345	1	1	3	3
Stores, restaurants, and automobile service stations, and other commercial buildings	26 321 670	15 145 717	8 179 491	2 996 462	1	1	2	2
Commercial warehouses such as distribution buildings and mini-storage	21 340 598	13 815 943	4 967 124	2 557 531	1	2	3	2
Religious buildings	6 023 480	4 388 360	1 122 152	512 968	3	3	6	5
Educational buildings	2 840 278	1 755 129	796 473	288 677	2	2	6	6
Waste disposal plants	17 303 911	10 739 015	5 261 276	1 303 619	2	2	3	5
Health care and institutional buildings	104 016	58 404	36 660	8 953	5	5	6	4
Public safety buildings such as prisons, police, and fire stations	8 566 131	5 021 415	2 878 862	665 853	2	2	4	4
Farm buildings, nonresidential (except grain elevators)	3 019 978	2 119 453	603 998	296 527	2	2	5	9
Amusement, social, and recreational buildings	766 867	543 579	124 826	98 462	12	15	20	13
Indoor swimming pools	3 307 433	2 339 009	779 637	188 786	3	3	9	4
Other building construction	122 578	88 214	25 077	9 287	10	10	12	19
	1 130 933	679 912	320 562	130 459	4	6	4	6
Nonbuilding construction, total								
Highways, streets, and related work, such as installation of guardrails and signs	59 413 782	39 355 169	11 869 881	8 188 731	1	1	1	2
Airport runways and related work	15 660 172	9 213 335	4 220 973	2 225 864	1	2	1	5
Private driveways and parking areas	893 302	437 495	371 469	84 338	8	9	5	13
Bridges and elevated highways	3 517 377	2 031 230	712 485	773 662	4	5	7	10
Tunnels	2 916 959	2 246 371	504 330	166 258	1	1	2	6
Sewers, water mains, and related facilities	454 118	409 000	24 730	20 388	2	1	5	18
Sewers, sewer lines, septic systems, and related facilities	10 118 965	7 259 482	1 608 951	1 250 532	2	2	5	4
Water mains, storage, and related facilities	5 535 874	3 984 482	845 465	705 926	3	3	7	6
Oil and gas pipelines (except gathering), pumping stations, storage tanks, and mains	4 583 092	3 275 000	763 487	544 606	3	3	7	4
Power and communication transmission lines, cables, towers, and related facilities	1 561 622	1 055 024	269 967	236 631	3	3	3	6
Power plants	6 667 699	4 089 384	1 459 859	1 118 455	2	2	3	3
Power plants and cogeneration plants, except hydroelectric	3 924 891	3 313 226	238 296	373 370	1	1	3	7
Power plants, hydroelectric	3 216 714	2 684 510	201 490	330 715	2	2	3	7
Chemical (except petrochemical) complexes/plants, blast furnaces, and mining appurtenances	708 177	628 716	36 806	42 655	3	3	11	22
Sewage and water treatment plants	252 177	89 934	57 294	104 949	6	1	23	5
Sewage treatment plants	2 828 491	1 769 302	802 630	256 559	1	1	2	3
Water treatment plants	1 418 032	853 086	439 528	125 418	2	2	3	4
Petrochemical plants and petroleum refineries	1 410 459	916 216	363 102	131 141	1	2	2	4
Mass transit construction	746 504	204 510	110 337	431 658	3	4	5	4
Urban mass transit, such as subways and light rail systems	1 099 383	812 164	126 010	161 209	2	1	3	5
Railroad construction	599 834	500 556	60 248	39 031	1	1	3	1
Conservation and development construction, such as drainage canals and flood control projects	499 548	311 608	65 762	122 178	3	3	4	7
Dam construction	1 199 908	757 115	274 795	167 998	8	9	7	14
Harbor and port facilities	253 396	134 913	71 950	46 533	13	2	44	21
Marine construction, such as dredging, navigational channels, and locks	527 501	370 886	116 321	40 294	7	6	8	13
Outdoor swimming pools	277 972	156 621	52 408	68 943	15	15	40	23
Fencing (except electronic containment fencing for pets)	2 126 685	1 676 557	263 757	186 371	6	6	10	15
Electronic containment fencing for pets	1 145 604	845 106	165 192	135 306	8	8	13	15
Outdoor recreational areas, such as outdoor athletic fields, courts, golf courses, and camp grounds	18 701	16 743	2 252	9 706	548	566	568	567
Ships	1 416 314	1 089 209	231 214	95 891	7	8	5	14
Oil and gas fields	70 412	29 538	7 700	33 174	10	13	14	15
Oil and gas field gathering lines	156 064	99 688	7 673	48 703	10	6	12	25
Coal mines	373 745	277 233	36 308	60 204	3	2	3	9
Metal mines	22 745	15 304	5 822	5 620	18	19	51	11
Nonmetallic mines	53 320	28 920	3 446	20 954	27	34	24	35
Other nonbuilding construction	20 526	10 441	3 434	6 651	34	34	45	14
Construction work, nsk	1 109 228	926 438	124 277	58 512	6	6	21	7
Construction work, nsk	11 163 589	6 895 289	3 262 564	1 016 876	—	—	—	—

See footnotes at end of table.



Table 7. **Value of Construction Work for Establishments by Geographic Area and Type of Construction: 2002—Con.**

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>UNITED STATES</b>		
Total .....	1 208 732 550	—
Building construction, total .....	469 315 416	—
Building construction on land owned by you, for sale .....	126 490 217	1
Building construction on land owned by others .....	233 283 277	1
Remodeling contractor .....	60 739 349	1
Construction management, at risk (for building construction) .....	31 851 643	1
Construction management, agency or fee only (for building construction) .....	16 950 931	2
Heavy construction and civil engineering construction, total .....	206 086 656	1
Subdividing and servicing of raw land into lots, for sale by you .....	15 108 089	4
Highway and street general contractor .....	38 227 144	1
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	23 691 840	2
Construction management, at risk (for heavy construction) .....	1 110 642	4
Construction management, agency or fee only (for heavy construction) .....	1 402 564	4
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	86 693 550	1
Cable and conduit laying contractor .....	11 864 306	1
Dredging contractor .....	1 117 632	4
Trenching contractor .....	1 685 907	5
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	19 678 355	2
Pile driving contractor .....	875 534	9
Blasting contractor, except building demolition .....	333 957	11
Rental of construction machinery or equipment (except cranes) with operator .....	1 938 664	5
Rental of cranes with operator .....	2 358 471	4
Special trade contractors, total .....	472 105 406	—
Heating, ventilation and air-conditioning contractor (HVAC) .....	50 899 622	1
Building sprinkler system installation contractor .....	5 430 520	2
Energy management contractor .....	728 592	4
Environmental control systems installation and service contractor .....	1 597 366	6
Lawn sprinkler installation contractor .....	1 547 138	7
Mechanical contractor .....	18 410 850	1
Plumbing contractor .....	34 149 353	1
Refrigeration contractor .....	2 552 894	2
Septic tank, cesspool, and dry well contractor (except sewer hookups to buildings) .....	725 151	8
Steamfitting and piping contractor .....	3 959 329	1
Boiler cleaning, repair, and maintenance contractor .....	1 541 439	2
Bridge and ship painting contractor .....	673 654	14
Painting contractor .....	15 397 991	2
Wall covering or removal contractor .....	867 112	4
Highway and traffic lane painting contractor .....	802 544	8
Electric power installation and service contractor, including lighting .....	58 785 017	1
Electronic control systems installation and service, (except environmental control) .....	3 561 943	2
Fire and security systems installation and service contractor .....	4 956 174	2
Highway lighting and signal installation and service contractor .....	2 919 599	4
Telecommunications installation and service contractor (except transmission lines) .....	7 770 837	2
Cable television hook-up contractor .....	1 012 462	8
Marble, granite, and slate contractor: exterior .....	342 822	7
Masonry contractor, brick, block, or stone (except brick paving) .....	14 600 684	2
Refractory brick contractor .....	260 972	4
Stonework contractor .....	883 937	10
Foundation contractor: brick, block, or stone .....	895 298	6
Masonry contractor: pointing, cleaning, or caulking .....	867 435	9
Acoustical contractor .....	3 145 357	4
Drywall contractor .....	19 098 268	2
Insulation contractor .....	5 546 872	2
Plastering, lathing, or fresco contractor, interior .....	1 290 705	8
Plastering contractor, including stucco, exterior .....	3 002 474	5
Marble, granite, and slate contractor: interior .....	1 386 209	7
Terrazzo or mosaic contractor .....	305 055	9
Tile contractor .....	4 758 560	4
Finish carpentry contractor .....	16 926 177	2
Framing contractor, except steel .....	14 740 205	7
Framing contractor, steel .....	688 958	4
Garage door and overhead door installation contractor, residential-type .....	2 447 741	6
Carpet laying or removal contractor .....	4 209 453	3
Computer flooring installation contractor .....	219 095	9
Flooring contractor, wood .....	2 833 329	4
Floor laying contractor, resilient .....	1 891 622	4
Gutter downspout, fascia, or soffit contractor .....	2 001 544	4
Roofing contractor, except sheet metal .....	17 685 473	2
Roofing contractor, sheet metal .....	4 347 219	3
Siding contractor, except sheet metal .....	2 463 616	4
Specialty sheet metal contractor, including metal ceilings, panel, or shelving installation .....	1 270 389	5
Siding contractor, sheet metal .....	826 635	5
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas .....	9 994 360	2
Shotcrete contractor .....	285 137	8
Culvert and curb contractor, residential or commercial driveways and parking areas .....	1 820 092	4
Foundation contractor, concrete .....	11 368 837	3
Concrete Contractor (except paving or foundation) .....	22 469 422	2
Water well drilling contractor .....	2 921 199	3
Reinforcing steel contractor .....	1 968 186	4
Structural steel erection contractor .....	5 740 999	3
Metal curtain wall installation contractor .....	1 254 180	4
Precast concrete installation contractor .....	669 019	8
Storage tank, erection contractor .....	799 883	4
Glass, glazing, and tinting contractor .....	6 141 668	3
Excavation work: earthmoving or land clearing contractor, connected with buildings .....	19 237 911	2
Foundation digging, drilling, or pile driving contractor .....	3 288 828	3
Wrecking, demolition, or blasting contractor, connected with buildings .....	3 132 356	3
Elevator installation, service, and repair contractor .....	5 712 541	2
Escalator installation, service, and repair contractor .....	298 332	3
Millwright and machine rigging contractor .....	5 116 197	2
Scrubber, dust, collection, and other industrial ventilation installation contractor .....	281 028	5
Fence construction contractor .....	5 905 783	4
Ornamental metal contractor .....	1 112 701	10

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>UNITED STATES—Con.</b>		
Insulation contractor, boiler, pipe, or duct work .....	2 411 320	3
Sandblasting contractor, building exteriors .....	550 138	12
Service station equipment installation contractor .....	763 136	7
Swimming pool contractor .....	6 532 719	4
Test boring or core drilling contractor for construction .....	366 163	8
Waterproofing and weather stripping contractor .....	2 179 585	4
Fireproofing contractor .....	401 335	3
Welding contractor, operating at site of construction .....	926 253	4
Modular furniture attachment and installation contractor .....	1 230 409	6
All other construction activities .....	6 100 003	3
Other business activities secondary to construction activities, total .....	12 012 824	1
Architectural services .....	433 484	4
Engineering services .....	1 150 712	1
Manufacturing -- products manufactured and sold to others .....	2 072 070	3
Real estate commissions and property management fees .....	806 881	4
Rental or lease of properties .....	915 818	6
Rental of construction machinery or equipment to others, without an operator .....	440 398	4
Transportation of goods for others .....	630 788	4
Wholesale trade .....	499 605	3
Building construction on land owned by you, for rent or lease (investment builder) .....	1 241 364	5
Retail trade .....	2 642 666	2
All other business activities secondary to construction activities .....	1 179 037	2
Kind of business activity, nsk .....	43 112 245	2
<b>NORTHEAST</b>		
Total .....	211 246 010	1
Building construction, total .....	75 972 908	1
Building construction on land owned by you, for sale .....	9 787 171	4
Building construction on land owned by others .....	36 601 505	2
Remodeling contractor .....	12 277 026	3
Construction management, at risk (for building construction) .....	12 246 111	2
Construction management, agency or fee only (for building construction) .....	5 061 095	2
Heavy construction and civil engineering construction, total .....	31 026 335	2
Subdividing and servicing of raw land into lots, for sale by you .....	1 610 827	12
Highway and street general contractor .....	5 694 317	3
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	3 218 584	6
Construction management, at risk (for heavy construction) .....	385 360	11
Construction management, agency or fee only (for heavy construction) .....	109 222	4
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	13 207 965	2
Cable and conduit laying contractor .....	1 751 862	4
Dredging contractor .....	192 179	1
Trenching contractor .....	254 940	5
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	3 458 837	6
Pile driving contractor .....	226 817	23
Blasting contractor, except building demolition .....	89 404	15
Rental of construction machinery or equipment (except cranes) with operator .....	313 296	6
Rental of cranes with operator .....	512 725	7
Special trade contractors, total .....	92 300 583	1
Heating, ventilation and air-conditioning contractor (HVAC) .....	11 031 694	2
Building sprinkler system installation contractor .....	1 033 514	3
Energy management contractor .....	181 590	6
Environmental control systems installation and service contractor .....	381 106	6
Lawn sprinkler installation contractor .....	218 081	14
Mechanical contractor .....	3 466 754	2
Plumbing contractor .....	6 727 514	2
Refrigeration contractor .....	558 264	4
Septic tank, cesspool, and dry well contractor (except sewer hookups to buildings) .....	127 734	16
Steamfitting and piping contractor .....	964 493	2
Boiler cleaning, repair, and maintenance contractor .....	513 796	4
Bridge and ship painting contractor .....	195 985	19
Painting contractor .....	2 645 024	4
Wall covering or removal contractor .....	234 736	7
Highway and traffic lane painting contractor .....	135 989	8
Electric power installation and service contractor, including lighting .....	12 470 961	1
Electronic control systems installation and service, (except environmental control) .....	773 974	3
Fire and security systems installation and service contractor .....	1 310 141	4
Highway lighting and signal installation and service contractor .....	804 166	3
Telecommunications installation and service contractor (except transmission lines) .....	1 915 819	2
Cable television hook-up contractor .....	203 186	14
Marble, granite, and slate contractor: exterior .....	67 519	13
Masonry contractor, brick, block, or stone (except brick paving) .....	3 304 463	5
Refractory brick contractor .....	60 519	1
Stonework contractor .....	219 135	28
Foundation contractor: brick, block, or stone .....	200 877	13
Masonry contractor: pointing, cleaning, or caulking .....	248 678	8
Acoustical contractor .....	748 437	10
Drywall contractor .....	3 655 308	4
Insulation contractor .....	835 171	5
Plastering, lathing, or fresco contractor, interior .....	195 128	25
Plastering contractor, including stucco, exterior .....	157 554	11
Marble, granite, and slate contractor: interior .....	168 254	14
Terrazzo or mosaic contractor .....	87 262	5
Tile contractor .....	671 415	7
Finish carpentry contractor .....	4 124 552	4
Framing contractor, except steel .....	1 501 364	7
Framing contractor, steel .....	89 616	11
Garage door and overhead door installation contractor, residential-type .....	425 194	14
Carpet laying or removal contractor .....	799 224	7

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>NORTHEAST—Con.</b>		
Computer flooring installation contractor .....	62 096	9
Flooring contractor, wood .....	583 362	7
Floor laying contractor, resilient .....	338 891	10
Gutter downspout, fascia, or soffit contractor .....	315 952	9
Roofing contractor, except sheet metal .....	2 547 409	5
Roofing contractor, sheet metal .....	756 898	6
Siding contractor, except sheet metal .....	501 765	8
Specialty sheet metal contractor, including metal ceilings, panel, or shelving installation .....	278 980	6
Siding contractor, sheet metal .....	165 644	11
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas .....	1 639 460	7
Shotcrete contractor .....	26 519	13
Culvert and curb contractor, residential or commercial driveways and parking areas .....	220 476	9
Foundation contractor, concrete .....	1 427 203	5
Concrete Contractor (except paving or foundation) .....	2 991 380	3
Water well drilling contractor .....	422 524	7
Reinforcing steel contractor .....	295 293	13
Structural steel erection contractor .....	1 162 406	4
Metal curtain wall installation contractor .....	424 282	4
Precast concrete installation contractor .....	219 080	21
Storage tank, erection contractor .....	37 303	6
Glass, glazing, and tinting contractor .....	1 420 012	6
Excavation work: earthmoving or land clearing contractor, connected with buildings .....	4 043 046	4
Foundation digging, drilling, or pile driving contractor .....	831 432	3
Wrecking, demolition, or blasting contractor, connected with buildings .....	890 119	7
Elevator installation, service, and repair contractor .....	1 729 238	3
Escalator installation, service, and repair contractor .....	77 351	13
Millwright and machine rigging contractor .....	878 018	6
Scrubber, dust, collection, and other industrial ventilation installation contractor .....	42 776	7
Fence construction contractor .....	1 067 062	9
Ornamental metal contractor .....	208 079	8
Insulation contractor, boiler, pipe, or duct work .....	535 491	8
Sandblasting contractor, building exteriors .....	55 817	38
Service station equipment installation contractor .....	231 290	12
Swimming pool contractor .....	1 292 430	11
Test boring or core drilling contractor for construction .....	138 740	4
Waterproofing and weather stripping contractor .....	445 616	5
Fireproofing contractor .....	91 681	4
Welding contractor, operating at site of construction .....	114 005	13
Modular furniture attachment and installation contractor .....	337 265	13
All other construction activities .....	1 296 299	9
Other business activities secondary to construction activities, total .....	1 767 388	2
Architectural services .....	68 615	12
Engineering services .....	161 086	3
Manufacturing -- products manufactured and sold to others .....	245 215	5
Real estate commissions and property management fees .....	96 820	6
Rental or lease of properties .....	93 251	8
Rental of construction machinery or equipment to others, without an operator .....	73 788	7
Transportation of goods for others .....	146 536	11
Wholesale trade .....	87 952	7
Building construction on land owned by you, for rent or lease (investment builder) .....	156 970	12
Retail trade .....	449 574	5
All other business activities secondary to construction activities .....	187 581	4
Kind of business activity, nsk .....	8 882 497	5
<b>MIDWEST</b>		
Total .....	266 409 987	-
Building construction, total .....	99 756 993	1
Building construction on land owned by you, for sale .....	22 338 080	2
Building construction on land owned by others .....	52 470 998	1
Remodeling contractor .....	13 264 934	2
Construction management, at risk (for building construction) .....	6 746 355	2
Construction management, agency or fee only (for building construction) .....	4 936 626	3
Heavy construction and civil engineering construction, total .....	42 613 224	1
Subdividing and servicing of raw land into lots, for sale by you .....	2 241 000	9
Highway and street general contractor .....	8 003 624	2
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	6 906 917	2
Construction management, at risk (for heavy construction) .....	199 678	2
Construction management, agency or fee only (for heavy construction) .....	106 422	6
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	15 705 632	1
Cable and conduit laying contractor .....	3 178 989	2
Dredging contractor .....	369 404	2
Trenching contractor .....	432 034	13
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	4 580 983	2
Pile driving contractor .....	165 069	30
Blasting contractor, except building demolition .....	31 190	32
Rental of construction machinery or equipment (except cranes) with operator .....	290 112	8
Rental of cranes with operator .....	402 169	5
Special trade contractors, total .....	111 592 548	1
Heating, ventilation and air-conditioning contractor (HVAC) .....	12 340 014	1
Building sprinkler system installation contractor .....	1 423 579	2
Energy management contractor .....	198 544	4
Environmental control systems installation and service contractor .....	392 371	12
Lawn sprinkler installation contractor .....	494 055	11
Mechanical contractor .....	4 980 109	1
Plumbing contractor .....	7 900 726	2
Refrigeration contractor .....	706 561	3
Septic tank, cesspool, and dry well contractor (except sewer hookups to buildings) .....	189 536	16
Steamfitting and piping contractor .....	1 312 359	2

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>MIDWEST—Con.</b>		
Boiler cleaning, repair, and maintenance contractor	405 929	2
Bridge and ship painting contractor	160 541	19
Painting contractor	3 226 691	3
Wall covering or removal contractor	215 450	9
Highway and traffic lane painting contractor	298 130	20
Electric power installation and service contractor, including lighting	13 663 751	1
Electronic control systems installation and service, (except environmental control)	900 014	2
Fire and security systems installation and service contractor	917 585	3
Highway lighting and signal installation and service contractor	630 186	5
Telecommunications installation and service contractor (except transmission lines)	1 656 837	4
Cable television hook-up contractor	135 609	7
Marble, granite, and slate contractor: exterior	52 056	13
Masonry contractor, brick, block, or stone (except brick paving)	3 801 455	3
Refractory brick contractor	78 131	8
Stonework contractor	149 677	30
Foundation contractor: brick, block, or stone	295 049	10
Masonry contractor: pointing, cleaning, or caulking	414 185	18
Acoustical contractor	635 944	5
Drywall contractor	4 365 946	4
Insulation contractor	1 017 498	7
Plastering, lathing, or fresco contractor, interior	278 801	14
Plastering contractor, including stucco, exterior	407 426	12
Marble, granite, and slate contractor: interior	238 417	21
Terrazzo or mosaic contractor	70 382	31
Tile contractor	782 972	10
Finish carpentry contractor	4 356 258	3
Framing contractor, except steel	2 872 379	3
Framing contractor, steel	179 797	5
Garage door and overhead door installation contractor, residential-type	642 067	8
Carpet laying or removal contractor	891 698	5
Computer flooring installation contractor	31 944	18
Flooring contractor, wood	613 259	10
Floor laying contractor, resilient	413 066	6
Gutter downspout, fascia, or soffit contractor	658 569	7
Roofing contractor, except sheet metal	4 387 771	4
Roofing contractor, sheet metal	1 106 258	5
Siding contractor, except sheet metal	821 057	5
Specialty sheet metal contractor, including metal ceilings, panel, or shelving installaion	346 141	11
Siding contractor, sheet metal	314 979	9
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas	2 750 437	4
Shotcrete contractor	22 083	11
Culvert and curb contractor, residential or commercial driveways and parking areas	491 450	7
Foundation contractor, concrete	2 714 508	4
Concrete Contractor (except paving or foundation)	6 389 470	2
Water well drilling contractor	764 459	6
Reinforcing steel contractor	279 459	4
Structural steel erection contractor	1 214 631	5
Metal curtain wall installation contractor	204 631	6
Precast concrete installation contractor	223 287	5
Storage tank, erection contractor	223 994	11
Glass, glazing, and tinting contractor	1 398 214	8
Excavation work: earthmoving or land clearing contractor, connected with buildings	4 306 243	2
Foundation digging, drilling, or pile driving contractor	980 610	5
Wrecking, demolition, or blasting contractor, connected with buildings	752 521	6
Elevator installation, service, and repair contractor	1 142 582	3
Escalator installation, service, and repair contractor	75 724	1
Millwright and machine rigging contractor	1 516 436	3
Scrubber, dust, collection, and other industrial ventilation installation contractor	110 469	5
Fence construction contractor	1 073 543	10
Ornamental metal contractor	102 325	14
Insulation contractor, boiler, pipe, or duct work	583 831	5
Sandblasting contractor, building exteriors	151 333	30
Service station equipment installation contractor	167 763	14
Swimming pool contractor	561 536	9
Test boring or core drilling contractor for construction	51 701	18
Waterproofing and weather stripping contractor	520 505	9
Fireproofing contractor	59 275	9
Welding contractor, operating at site of construction	128 715	13
Modular furniture attachment and installation contractor	259 054	12
All other construction activities	1 083 325	6
Other business activities secondary to construction activities, total	3 048 783	3
Architectural services	132 656	5
Engineering services	272 754	2
Manufacturing -- products manufactured and sold to others	557 277	2
Real estate commissions and property management fees	181 942	6
Rental or lease of properties	230 723	19
Rental of construction machinery or equipment to others, without an operator	87 950	9
Transportation of goods for others	151 760	9
Wholesale trade	102 321	7
Building construction on land owned by you, for rent or lease (investment builder)	328 933	13
Retail trade	779 263	5
All other business activities secondary to construction activities	223 203	6
Kind of business activity, nsk	8 315 115	5
<b>SOUTH</b>		
Total	423 260 892	1
Building construction, total	170 929 830	1
Building construction on land owned by you, for sale	53 426 510	1
Building construction on land owned by others	86 156 913	1
Remodeling contractor	18 503 111	3
Construction management, at risk (for building construction)	8 584 245	2
Construction management, agency or fee only (for building construction)	4 259 051	5
Heavy construction and civil engineering construction, total	82 284 226	1
Subdividing and servicing of raw land into lots, for sale by you	6 140 380	5
Highway and street general contractor	15 132 365	1

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>SOUTH—Con.</b>		
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	9 090 666	3
Construction management, at risk (for heavy construction) .....	359 405	1
Construction management, agency or fee only (for heavy construction) .....	404 255	12
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	37 013 947	1
Cable and conduit laying contractor .....	4 175 925	2
Dredging contractor .....	474 467	9
Trenching contractor .....	502 075	6
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	7 032 469	2
Pile driving contractor .....	345 668	8
Blasting contractor, except building demolition .....	126 884	22
Rental of construction machinery or equipment (except cranes) with operator .....	585 600	10
Rental of cranes with operator .....	900 120	5
Special trade contractors, total .....	148 778 540	1
Heating, ventilation and air-conditioning contractor (HVAC) .....	17 195 658	1
Building sprinkler system installation contractor .....	1 742 494	3
Energy management contractor .....	196 018	8
Environmental control systems installation and service contractor .....	431 645	5
Lawn sprinkler installation contractor .....	531 423	17
Mechanical contractor .....	6 590 304	1
Plumbing contractor .....	11 352 516	2
Refrigeration contractor .....	788 481	5
Septic tank, cesspool, and dry well contractor (except sewer hookups to buildings) .....	297 990	13
Steamfitting and piping contractor .....	703 166	4
Boiler cleaning, repair, and maintenance contractor .....	360 350	3
Bridge and ship painting contractor .....	245 496	33
Painting contractor .....	5 236 345	3
Wall covering or removal contractor .....	278 388	5
Highway and traffic lane painting contractor .....	227 860	7
Electric power installation and service contractor, including lighting .....	18 608 327	1
Electronic control systems installation and service, (except environmental control) .....	1 211 249	3
Fire and security systems installation and service contractor .....	1 572 724	4
Highway lighting and signal installation and service contractor .....	648 962	4
Telecommunications installation and service contractor (except transmission lines) .....	2 434 893	3
Cable television hook-up contractor .....	415 504	16
Marble, granite, and slate contractor: exterior .....	94 124	7
Masonry contractor, brick, block, or stone (except brick paving) .....	4 318 562	4
Refractory brick contractor .....	98 232	3
Stonework contractor .....	256 104	11
Foundation contractor: brick, block, or stone .....	218 918	10
Masonry contractor: pointing, cleaning, or caulking .....	146 928	8
Acoustical contractor .....	981 877	7
Drywall contractor .....	5 658 450	5
Insulation contractor .....	2 089 988	3
Plastering, lathing, or fresco contractor, interior .....	356 571	21
Plastering contractor, including stucco, exterior .....	972 640	12
Marble, granite, and slate contractor: interior .....	454 563	12
Terrazzo or mosaic contractor .....	70 238	8
Tile contractor .....	1 458 199	7
Finish carpentry contractor .....	4 347 694	4
Framing contractor, except steel .....	3 526 518	24
Framing contractor, steel .....	190 457	10
Garage door and overhead door installation contractor, residential-type .....	694 774	9
Carpet laying or removal contractor .....	1 185 226	5
Computer flooring installation contractor .....	64 032	8
Flooring contractor, wood .....	779 762	8
Floor laying contractor, resilient .....	557 738	7
Gutter downspout, fascia, or soffit contractor .....	644 242	7
Roofing contractor, except sheet metal .....	5 757 695	3
Roofing contractor, sheet metal .....	1 694 061	5
Siding contractor, except sheet metal .....	642 280	7
Specialty sheet metal contractor, including metal ceilings, panel, or shelving installaion .....	426 571	5
Siding contractor, sheet metal .....	199 764	12
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas .....	3 205 588	4
Shotcrete contractor .....	64 468	8
Culvert and curb contractor, residential or commercial driveways and parking areas .....	674 542	8
Foundation contractor, concrete .....	3 835 127	7
Concrete Contractor (except paving or foundation) .....	6 703 925	4
Water well drilling contractor .....	984 547	6
Reinforcing steel contractor .....	423 567	7
Structural steel erection contractor .....	1 868 304	8
Metal curtain wall installation contractor .....	309 041	7
Precast concrete installation contractor .....	165 969	8
Storage tank, erection contractor .....	375 309	5
Glass, glazing, and tinting contractor .....	1 767 903	4
Excavation work: earthmoving or land clearing contractor, connected with buildings .....	5 553 454	3
Foundation digging, drilling, or pile driving contractor .....	786 111	4
Wrecking, demolition, or blasting contractor, connected with buildings .....	702 060	7
Elevator installation, service, and repair contractor .....	1 723 265	2
Escalator installation, service, and repair contractor .....	77 729	1
Millwright and machine rigging contractor .....	1 975 309	3
Scrubber, dust, collection, and other industrial ventilation installation contractor .....	89 336	12
Fence construction contractor .....	2 155 392	6
Ornamental metal contractor .....	448 865	22
Insulation contractor, boiler, pipe, or duct work .....	971 203	5
Sandblasting contractor, building exteriors .....	266 260	15
Service station equipment installation contractor .....	184 001	17
Swimming pool contractor .....	2 789 073	6
Test boring or core drilling contractor for construction .....	59 937	22
Waterproofing and weather stripping contractor .....	751 057	7
Fireproofing contractor .....	111 871	8
Welding contractor, operating at site of construction .....	525 886	4
Modular furniture attachment and installation contractor .....	273 443	12
All other construction activities .....	2 197 966	5
Other business activities secondary to construction activities, total .....	4 281 065	1
Architectural services .....	135 735	8
Engineering services .....	431 472	2

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>SOUTH—Con.</b>		
Manufacturing -- products manufactured and sold to others .....	756 940	4
Real estate commissions and property management fees .....	375 639	5
Rental or lease of properties .....	279 052	7
Rental of construction machinery or equipment to others, without an operator .....	183 794	7
Transportation of goods for others .....	191 480	5
Wholesale trade .....	103 962	4
Building construction on land owned by you, for rent or lease (investment builder) .....	548 624	4
Retail trade .....	801 064	4
All other business activities secondary to construction activities .....	473 302	2
Kind of business activity, nsk .....	14 789 264	3
<b>WEST</b>		
Total .....	307 815 661	1
Building construction, total .....	122 655 686	1
Building construction on land owned by you, for sale .....	40 938 457	2
Building construction on land owned by others .....	58 053 861	1
Remodeling contractor .....	16 694 278	2
Construction management, at risk (for building construction) .....	4 274 932	3
Construction management, agency or fee only (for building construction) .....	2 694 159	8
Heavy construction and civil engineering construction, total .....	50 162 871	1
Subdividing and servicing of raw land into lots, for sale by you .....	5 115 882	6
Highway and street general contractor .....	9 396 837	1
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	4 475 673	3
Construction management, at risk (for heavy construction) .....	166 199	2
Construction management, agency or fee only (for heavy construction) .....	782 664	2
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	20 766 006	1
Cable and conduit laying contractor .....	2 757 530	3
Dredging contractor .....	81 581	26
Trenching contractor .....	496 858	11
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	4 606 066	3
Pile driving contractor .....	137 981	9
Blasting contractor, except building demolition .....	86 479	19
Rental of construction machinery or equipment (except cranes) with operator .....	749 657	9
Rental of cranes with operator .....	543 458	15
Special trade contractors, total .....	119 433 735	1
Heating, ventilation and air-conditioning contractor (HVAC) .....	10 332 257	2
Building sprinkler system installation contractor .....	1 230 934	5
Energy management contractor .....	152 440	11
Environmental control systems installation and service contractor .....	392 244	18
Lawn sprinkler installation contractor .....	303 579	8
Mechanical contractor .....	3 373 683	1
Plumbing contractor .....	8 168 597	2
Refrigeration contractor .....	499 587	6
Septic tank, cesspool, and dry well contractor (except sewer hookups to buildings) .....	109 891	21
Steamfitting and piping contractor .....	979 311	2
Boiler cleaning, repair, and maintenance contractor .....	261 364	5
Bridge and ship painting contractor .....	71 632	7
Painting contractor .....	4 289 932	3
Wall covering or removal contractor .....	138 538	11
Highway and traffic lane painting contractor .....	140 566	10
Electric power installation and service contractor, including lighting .....	14 041 977	2
Electronic control systems installation and service, (except environmental control) .....	676 705	5
Fire and security systems installation and service contractor .....	1 155 724	6
Highway lighting and signal installation and service contractor .....	836 286	11
Telecommunications installation and service contractor (except transmission lines) .....	1 763 287	4
Cable television hook-up contractor .....	258 162	14
Marble, granite, and slate contractor: exterior .....	129 123	17
Masonry contractor, brick, block, or stone (except brick paving) .....	3 176 205	5
Refractory brick contractor .....	24 089	37
Stonework contractor .....	259 021	16
Foundation contractor: brick, block, or stone .....	180 454	11
Masonry contractor: pointing, cleaning, or caulking .....	57 644	15
Acoustical contractor .....	779 100	6
Drywall contractor .....	5 418 564	3
Insulation contractor .....	1 604 214	5
Plastering, lathing, or fresco contractor, interior .....	460 205	7
Plastering contractor, including stucco, exterior .....	1 464 854	6
Marble, granite, and slate contractor: interior .....	524 975	9
Terrazzo or mosaic contractor .....	77 174	21
Tile contractor .....	1 845 974	6
Finish carpentry contractor .....	4 097 673	4
Framing contractor, except steel .....	6 839 944	7
Framing contractor, steel .....	229 087	6
Garage door and overhead door installation contractor, residential-type .....	685 706	13
Carpet laying or removal contractor .....	1 333 305	5
Computer flooring installation contractor .....	61 023	28
Flooring contractor, wood .....	856 946	9
Floor laying contractor, resilient .....	581 927	6
Gutter downspout, fascia, or soffit contractor .....	382 780	8
Roofing contractor, except sheet metal .....	4 992 598	5
Roofing contractor, sheet metal .....	790 002	7
Siding contractor, except sheet metal .....	498 515	11
Specialty sheet metal contractor, including metal ceilings, panel, or shelving installation .....	218 696	15
Siding contractor, sheet metal .....	146 248	9
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas .....	2 398 875	5
Shotcrete contractor .....	172 066	13
Culvert and curb contractor, residential or commercial driveways and parking areas .....	433 625	8
Foundation contractor, concrete .....	3 391 999	5
Concrete Contractor (except paving or foundation) .....	6 384 646	4
Water well drilling contractor .....	749 669	7
Reinforcing steel contractor .....	969 867	7
Structural steel erection contractor .....	1 495 658	6
Metal curtain wall installation contractor .....	316 225	13
Precast concrete installation contractor .....	60 684	15
Storage tank, erection contractor .....	163 278	4

See footnote at end of table.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>WEST—Con.</b>		
Glass, glazing, and tinting contractor .....	1 555 540	6
Excavation work: earthmoving or land clearing contractor, connected with buildings .....	5 335 169	5
Foundation digging, drilling, or pile driving contractor .....	690 675	9
Wrecking, demolition, or blasting contractor, connected with buildings .....	787 655	5
Elevator installation, service, and repair contractor .....	1 117 456	5
Escalator installation, service, and repair contractor .....	67 528	—
Millwright and machine rigging contractor .....	746 434	6
Scrubber, dust, collection, and other industrial ventilation installation contractor .....	38 447	3
Fence construction contractor .....	1 609 786	7
Ornamental metal contractor .....	353 432	11
Insulation contractor, boiler, pipe, or duct work .....	320 794	9
Sandblasting contractor, building exteriors .....	76 729	15
Service station equipment installation contractor .....	180 082	13
Swimming pool contractor .....	1 889 679	6
Test boring or core drilling contractor for construction .....	115 785	21
Waterproofing and weather stripping contractor .....	462 406	7
Fireproofing contractor .....	138 507	4
Welding contractor, operating at site of construction .....	157 648	11
Modular furniture attachment and installation contractor .....	360 648	9
All other construction activities .....	1 522 414	5
Other business activities secondary to construction activities, total .....	2 915 587	2
Architectural services .....	96 478	9
Engineering services .....	285 400	3
Manufacturing -- products manufactured and sold to others .....	512 638	9
Real estate commissions and property management fees .....	152 479	14
Rental or lease of properties .....	312 792	5
Rental of construction machinery or equipment to others, without an operator .....	94 866	11
Transportation of goods for others .....	141 012	9
Wholesale trade .....	205 369	4
Building construction on land owned by you, for rent or lease (investment builder) .....	206 838	14
Retail trade .....	612 765	3
All other business activities secondary to construction activities .....	294 951	4
Kind of business activity, nsk .....	11 125 368	4

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



# Appendix A.

## Explanation of Terms

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### **ESTABLISHMENT**

A relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. Generally, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis.

Number of establishments includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

### **NUMBER OF EMPLOYEES**

Includes all full-time and part-time individuals on the payrolls of construction establishments during any part of the pay period which included the 12th of March, May, August, and November. Included are individuals on paid sick leave, paid holidays, paid vacations, and salaried officers and executives of a corporation. Excluded are subcontractors and their employees; temporary staffing obtained from a staffing service; and proprietors and partners of unincorporated businesses.

Includes all permanent full-time and part-time employees who are on the payrolls of establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November.

The all employees or total number of employees number is the sum of construction workers plus other employees who were on the payroll during the pay periods including the 12th of March, May, August, and November, divided by four.

### **Construction workers**

Includes all payroll workers (up through the working supervisory level) directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, on-site record keepers, and security guards. Supervisory employees above the working foreman level are excluded from this category and are included in the other employees category.

The average number of construction workers is the sum of construction workers who were on the payroll during the pay periods including the 12th of March, May, August, and November, divided by four.

### **Other employees**

Includes payroll employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

The average number of other employees is the sum of other employees who were on the payroll during the pay periods including the 12th of March, May, August, and November, divided by four.

### **PAYROLL**

Includes the gross earnings paid in the reporting year to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, and vacation and sick leave pay, prior to deductions such as employees'

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social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

### **Payroll for Construction Workers**

Includes the gross earnings paid in the reporting year to all construction workers on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, and vacation and sick leave pay, prior to deductions such as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

### **Payroll for Other Employees**

Includes the gross earnings paid in the reporting year to all other employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, and vacations and sick leave pay, prior to deductions such as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. Payroll of other employees excludes salaries of the proprietor or partners, if unincorporated.

### **FIRST-QUARTER PAYROLL FOR ALL EMPLOYEES**

Includes the gross earnings paid in the first quarter of the reporting year to all employees on the payroll of construction establishments. The first-quarter payroll period is the first quarterly pay period which includes March 12. Included are all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, and vacation and sick leave pay, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. It also includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

### **FRINGE BENEFITS FOR ALL EMPLOYEES**

Includes the total sum of fringe benefits of all full-time and part-time employees on the payrolls of construction establishments during any part of the pay period which included the 12th of the months specified on the report form. Includes expenditures made by the employer for legally required and voluntary fringe benefit programs for employees.

### **Legally Required Expenditures**

Includes expenditures made by the employer for social security and Medicare contributions, unemployment compensation, workers' compensation, and state temporary disability payments.

### **Voluntary Expenditures**

Includes expenditures made by the employer for life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

### **VALUE OF BUSINESS DONE**

Includes the sum of value of construction work and other business receipts. Value of business done is the sum of receipts, billings, or sales from establishments of construction business activities plus receipts from other business activities.

### **Value of Construction Work**

In the 1987–1997 censuses, the value of construction work was collected to measure actual construction activity done during the year. Studies have shown that respondents were not able to accurately report these data. In 2002, receipts, billings, or sales for construction work was collected.

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This item includes the receipts, billings, or sales for construction work done by building contractors, heavy and civil engineering construction contractors, and specialty trade contractors. Included are new construction, additions, alterations or reconstruction, and maintenance and repair construction work. Establishments engaged in the sale and installation of construction components such as plumbing, heating, and central air-conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators, or escalators were instructed to include both the value for the installation and receipts covering the price of the items installed. Excluded are the cost of industrial and other special machinery and equipment that are not an integral part of a structure and receipts from business operations in foreign countries.

The value of construction work consists of several components that are summed up individually to get the total value of construction work. These components are:

1. Value of construction work on government owned projects. This is the total of all projects owned by federal, state, and local governments:
  - a. Value of construction work on federally owned projects. This is the value of construction work for projects owned by the federal government.
  - b. Value of construction work on state and locally owned projects. This is the summed total value of construction work for all projects owned by state and local governments.
2. Value of construction work on privately owned projects. This is the value of construction work for projects owned privately (excluding government owned projects).

### **Other Business Receipts**

Includes the receipts for all other business activities done by an establishment in the current year. Includes business receipts not reported as value of construction work. This includes business receipts from retail and wholesale trade, rental of equipment without operator, manufacturing, transportation, legal services, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here. Excluded are nonoperating income such as interest, dividends, the sale of fixed assets, or receipts from other business operations in foreign countries.

### **NET VALUE OF CONSTRUCTION WORK**

Includes the value of construction work less the cost of construction work subcontracted out to others.

### **VALUE ADDED**

This measure of construction activity is equal to value of business done, less costs for construction work subcontracted out to others and costs for materials, components, supplies, and fuels.

### **VALUE OF CONSTRUCTION WORK SUBCONTRACTED IN FROM OTHERS**

Includes the value of construction work done by reporting establishments as subcontractors to other contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a dollar value.

### **CONSTRUCTION RECEIPTS PERCENT ESTIMATED**

Construction receipts were obtained from census respondent forms. For establishments whose respondent forms were not received at the time data were tabulated, the data were calculated using industry averages and imputation for nonresponse.

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## **SELECTED COSTS**

Includes the direct charges actually paid or payable for costs incurred for purchases of materials, components, and supplies; costs of construction work subcontracted out to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are not included.

### **Cost of Materials, Components, and Supplies**

Includes the costs for materials, components, and supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities plus costs for materials bought and resold to others. Also included are costs made for direct purchases of materials, components, and supplies although the purchases were subsequently provided to subcontractors for their use. Supplies include expendable tools which are charged to current accounts. Freight and other direct charges representing only that amount paid after discounts and the value of materials, components, and supplies obtained from other establishments of the respondent's company are also included. Excluded from this item are the cost of fuels, lubricants, electric energy, and industrial and other specialized machinery and equipment such as printing presses; computer systems that are not an integral part of a structure; and materials furnished to contractors by the owners of projects.

### **Cost of Construction Work Subcontracted Out to Others**

Includes all costs for construction work subcontracted out to other construction contractors during the reporting year. Excluded from this item are costs to the reporting establishment for its purchases of materials, components, and supplies provided to a subcontractor for use. These costs are reported under costs for materials, components, and supplies. Also excluded are costs for the rental of machinery or equipment.

### **Cost of Selected Power, Fuels, and Lubricants**

Includes costs for fuels including gasoline, diesel fuel and lubricants, and electric energy purchased during the year from other companies or received from other establishments of the company. Also included are costs for natural gas, manufactured gas, fuel oil, and coal and coke products.

The components of selected power, fuels, and lubricants are:

1. Purchased electricity. This is the cost of electric energy purchased during the year from other companies or received from other establishments of the company.
2. Natural gas and manufactured gas. This is the cost of natural gas and manufactured gas purchased during the year from other companies or received from other establishments of the company.
3. Gasoline and diesel fuel. This is the cost of gasoline and diesel fuel purchased during the year from other companies or received from other establishments of the company. This cost is broken down into two different uses of gasoline and diesel fuel. They are:
  - a. On-highway use of gasoline and diesel fuel. This is the cost of gasoline and diesel fuel purchased during the year to fuel highway vehicles. A highway vehicle is any self-propelled vehicle designed to carry a load over public highways, whether or not the vehicle was also designed to perform other functions. Examples of vehicles designed to carry a load over public highways are passenger automobiles, trucks, and truck tractors. If a vehicle can be used for a combination of on-highway and off-highway uses and has one fuel tank, the fuel use is not considered off-highway. An example of this is a concrete-mixer truck where the truck engine operates both the engine and the mixing unit by a power take-off and is fueled by a single tank. None of the fuel used in this vehicle is off-highway because of the on-highway use. If the vehicle has separate fuel tanks and engines, the fuel in a tank used for non-highway use may be considered off-highway use.

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- b. Off-highway use of gasoline and diesel fuel. This is the cost of gasoline and diesel fuel purchased during the reporting year for off-highway use. Off-highway fuel use is the use of fuel for trade, business, or income producing activity. In most cases, off-highway fuel use does not include use in a highway vehicle registered or required to be registered for use on public highways.
  4. All other fuels and lubricants. This is the cost of fuels and lubricants purchased during the year from other companies or received from other establishments of the company that are not included as costs in any of these categories: natural gas; manufactured gas; gasoline; and diesel fuel.

### **COSTS OF MATERIALS, COMPONENTS, SUPPLIES, AND FUELS**

Includes the costs for materials, components, and supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities plus costs for materials bought and resold to others. Also included is the costs for fuels. These include gasoline, diesel fuel, lubricants, electric energy purchased during the year from other companies or received from other establishments of the company, and costs for natural and manufactured gas, fuel oil, and coal and coke products. Excluded from this item are industrial and other specialized machinery and equipment, such as printing presses; computer systems that are not an integral part of a structure; and materials furnished to contractors by the owners of projects.

### **RENTAL PAYMENTS**

Includes the total rental costs for renting and/or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes costs for the rental of land. It also excludes costs under agreements that in effect are conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

### **SELECTED PURCHASED SERVICES**

Includes the costs for services purchased from other companies that are paid directly by an establishment that are normally considered as overhead or non-job-related costs. Included are only the cost of repairs necessary to maintain property and equipment. Excluded are the cost of improvements that increase the value of property or the cost of adapting the property for another use. Such costs are included in capital expenditures. Also excluded are the salaries paid to employees and cost of construction activities subcontracted to others already reported within the selected costs of an establishment.

Included in the cost of selected purchased services for communication services is the actual expense incurred or payable during the year for any type of communication. Such types of communication include telephone, data transmission, telegraph, Internet, connectivity, FAX, telex, photo transmission, paging, cellular telephone, online access and related services, etc.

Included in the cost of selected purchased services for repairs to buildings and other structures is the actual expense incurred or payable during the year for any type of repair to buildings and other structures. Such types of repair include maintenance and repair of buildings, job-site trailers, and other structures. Excluded are janitorial services.

The cost of selected purchased services for repairs to machinery and equipment is the actual expense incurred or payable during the year for any type of repairs made to structures and equipment by outside companies or from other establishments of the same company. Such types of repairs to machinery and equipment include maintenance and repair of construction equipment and tools; machinery; and office equipment, furniture, and vehicles, including related service contracts.

Included in the cost of selected purchased services for legal services is the actual expense incurred or payable during the year for any type of legal services. Excluded are the salaries paid to employees of the establishment for these services.

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Included in the cost of selected purchased services for accounting, auditing, and bookkeeping services is the actual expense incurred or payable during the year for these services. Excluded are the salaries paid to employees of the establishment for these services.

Included in the cost of selected purchased services for advertising and promotional services is the actual expense incurred or payable during the year for these services. Such types of advertising and promotional services include advertising, marketing, promotional, or public relations services.

### **GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR AND END OF YEAR**

Includes the value of depreciable assets for the beginning of year and end of year. Gross value of depreciable assets are usually the original costs of the assets at the beginning of the year. The gross value of depreciable assets at the beginning of the year, plus any capital expenditures for new and used depreciable assets in the reporting year, minus the gross value of depreciable assets sold, retired, scrapped, destroyed, etc. in the reporting year, comprise gross book value of depreciable assets at the end of the year. Depreciable assets are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

### **CAPITAL EXPENDITURES, EXCEPT LAND**

Includes capital expenditures that will be charged to the fixed assets accounts and for which depreciation accounts are ordinarily maintained. Includes the cost of capital improvements that were made during the year that increased the value of property or adapted the property for another use. Capital expenditures for leasehold improvements made to property leased from others are also included. Land expenditures are not included as capital expenditures. If any building or equipment had been acquired under a capital leasing arrangement that meet the criteria set down by the Financial Accounting Standards Board (FASB), respondents were instructed to report the original cost or market value as a fixed asset and as a capital expenditure, if acquired in the reporting year. If the lease qualified as an operating lease, respondents were instructed not to include the value of the building and equipment as a fixed asset or capital expenditure. If capital expenditures were not recorded directly at the establishment level but handled centrally at a company or division level, respondents were requested to report appropriate estimates for the individual establishments.

### **RETIREMENTS AND DISPOSITION OF DEPRECIABLE ASSETS**

Includes the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during the year. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

### **DEPRECIATION CHARGES DURING YEAR**

Includes the depreciation expenses of the establishment during the reporting year. These expenses are charged against depreciable assets which are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

### **NUMBER OF ESTABLISHMENTS WITH INVENTORIES**

Includes all establishments with payroll that reported a dollar amount of inventory. Includes the number of establishments that were in business at any time during the reporting year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

### **Value of Construction Work for Establishments With Inventories**

Includes the value of construction work for establishments with payroll that reported a dollar amount of inventory in the reporting year.

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## **BEGINNING AND END OF YEAR INVENTORIES OF MATERIALS AND SUPPLIES**

Includes the inventories of materials and supplies owned at the beginning and end of the reporting year by establishments with payroll. Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials that are owned by others but held by the reporting establishment. Builders who built on their own account for sale were requested to exclude work in progress and finished units not sold from inventories. Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories, even if these inventories were held at a separate location.

## **NUMBER OF ESTABLISHMENTS WITH NO INVENTORIES**

Includes all establishments with payroll that reported having no inventories of materials and supplies during the reporting year. Includes the number of establishments that were in business at any time during the reporting year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire reporting year were not included.

## **Value of Construction Work for Establishments With No Inventories**

Includes the value of construction work for establishments with payroll that reported having no dollar amount of inventory in the reporting year.

## **NUMBER OF ESTABLISHMENTS NOT REPORTING INVENTORIES**

Includes all establishments with payroll that did not report a dollar amount for inventories of materials and supplies during the reporting year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire reporting year were not included.

## **Value of Construction Work for Establishments Not Reporting Inventories**

Includes the value of construction work for establishments that did not report a dollar amount for inventories of materials and supplies, and the value of construction work for establishments that did not complete a census form.

## **VALUE OF CONSTRUCTION WORK BY TYPE OF CONSTRUCTION**

Includes the dollar value of construction work according to the specified types of construction. There are three categories of construction. They are:

1. New construction. The original construction work done on a project including all finishing work on the original building or structure. Land development work on the site and demolition of existing structures are also included.
2. Additions, alterations, or reconstruction. The construction work which adds to the value or useful life of an existing building or structure or which adapts a building or structure to a new or different use. Included are "major replacements" of building systems such as the installation of a new roof or heating system and the resurfacing of streets or highways. This contrasts to the repair of a hole in a roof or the routine patching of highways and streets, which would be classified as maintenance and repair.
3. Maintenance and repair. The incidental construction work which keeps a property in ordinary working condition. Excluded are trash and snow removal, lawn maintenance and landscaping, cleaning, and janitorial services.

## **Types of Construction**

Provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in the reporting year. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents

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worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose; i.e., office and residential, or commercial, they were to classify the building by its major purpose. In addition, all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. There are two types of construction:

1. Building Construction. The details for this type of construction are defined as:

- Single-family houses, detached. Includes all fully detached residential buildings constructed for one family use.
- Single-family houses, attached, including townhouses and townhouse-type condominiums. Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- Apartment buildings, apartment-type condominiums, and cooperatives. Includes apartment rentals, high-rise, low-rise, or any structures containing two or more housing units, excluding attached single-family houses.
- Dormitories and barracks. Includes school dormitories and military or nonmilitary barracks that are nonhousekeeping structures.
- Other manufacturing and industrial buildings. Includes all manufacturing and industrial buildings and plants that are used to house production and assembly activities. Note that industrial parks should be classified under its primary usage such as warehouses, office space, commercial, or industrial type buildings. Heavy industrial facilities such as blast furnaces, petroleum refineries, and chemical complexes are not included in this category but are reported under nonbuilding construction.
- Manufacturing and industrial warehouses. Includes all warehouses which are intended for industrial activities.
- Hotels and motels. Includes hotels, motels, bed-and-breakfast inns, and tourist cabins intended for transient accommodations. Also included are hotel and motel conference centers.
- Office buildings. Includes all buildings that are used primarily for office space or for government administrative offices. Also included are banks or financial buildings that are three stories or more. Medical office buildings are reported under hospitals and institutional buildings.
- All other miscellaneous commercial buildings. Includes all buildings that are intended for use primarily in the retail and service trades, i.e., shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- Commercial warehouses. Includes distribution buildings and mini-storage units intended for commercial use. Also included are storage warehouses.
- Religious buildings. Includes all buildings that are intended for religious services or functions such as churches, synagogues, convents, monasteries, and seminaries.
- Educational buildings. Includes all buildings that are used directly in administrative and instructional activities such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories that are not a part of a manufacturing or commercial establishment, are also included.



- Health care and institutional buildings. Includes hospitals, medical office buildings, and all other buildings that are intended to provide health and institutional care such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- Public safety buildings. Includes detention centers, prisons, fire stations, and rescue squad buildings.
- Farm buildings, nonresidential. Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- Amusement, social, and recreational buildings. Includes buildings that are used primarily for entertainment, social, and recreational activities such as sports arenas, convention centers, theaters, music halls, golf and country club buildings, fitness centers, and bowling alleys.
- Indoor swimming pools. Includes pools that are inside a building.
- Indoor ice rinks. Includes ice rinks that are inside a building.
- Grain elevators and dry cleaning plants. Includes grain and storage elevators and dry cleaning plants.
- Waste disposal plants. Includes recycling centers, garbage disposal plants, incinerator disposed facilities, and material recovery facilities.
- Miscellaneous building construction. Includes all other nonresidential buildings such as fire stations, post offices, and bus and air passenger terminals and hangars.

2. Nonbuilding Construction. The details for this type of construction are defined as:

- Highways, streets, and related work. Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, erosion control, installation of guard rails, highway signs, and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- Airport runways and related work. Includes airport runways, taxiways, aprons, and related work.
- Private driveways and parking areas. Includes all nonstructural parking areas and private driveways of all surface types.
- Bridges and elevated highways. Includes viaducts and overpasses, roads, highways, railroads, and causeways built on structural supports.
- Tunnels. Includes highway, pedestrian, railroad, and water distribution tunnels.
- Sewers, sewer lines, septic tanks, and related facilities. Includes sanitary and storm sewers, pumping stations, septic systems, and related facilities.
- Water mains and related facilities. Includes water supply systems, pumping stations, and related facilities.
- Oil and gas pipeline construction. Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- Power and communication transmission lines, towers, and related facilities. Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, and electric light and power facilities.
- Power plants and cogeneration plants, except hydroelectric. Includes electric and steam generating plants, cogenerating plants, and nuclear plants.
- Power plant, hydroelectric. Includes all types of hydroelectric power generating plants.
- Blast furnaces, chemical complexes, etc. Includes coke ovens and mining appurtenances such as tipples and washeries.

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- Sewage treatment plants. Includes sewage treatment and waste disposal plants.
  - Water treatment plants. Includes water filtration and water softening plants.
  - Urban mass transit. Includes subways, street cars, and light rail systems.
  - Railroad construction. Includes the construction of railroad beds, tracks, freight yards, and signal towers for railroad systems, excluding urban mass transit.
  - Conservation and development construction. Includes land reclamation, irrigation projects, drainage canals, levees, jetties, breakwaters, and flood control projects.
  - Dam and reservoir construction. Includes hydroelectric, water supply, and flood control dams and reservoirs.
  - Dry and Solid waste disposal. Includes all dry and solid waste disposal sites where non-hazardous waste is buried.
  - Harbor and port facilities. Includes docks, piers, and wharves.
  - Marine construction. Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
  - Petrochemical plants and petroleum refineries. Includes petroleum related facilities.
  - Outdoor swimming pools. Includes wading pools and reflecting pools.
  - Fencing. Includes all types of fencing, except electronic containment fencing for pets.
  - Electronic containment fencing. Includes all types of electronic containment fencing for pets.
  - Recreational facilities. Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
  - Ships. Includes special trade contractors working on ships and boats such as painters, carpenters, joiners, electricians, etc.
  - Oil and gas fields. Includes road construction, land clearing contracting, land moving contracting, and land leveling contracting in oil and gas fields.
  - Oil and gas field gathering lines. Includes land clearing contracting, land moving contracting, and land leveling contracting.
  - Coal mines. Includes land clearing contracting, land moving contracting, and land leveling contracting.
  - Metal mines. Includes land clearing contracting, land moving contracting, and land leveling contracting.
  - Nonmetallic mines. Includes land clearing contracting, land moving contracting, and land leveling contracting.
  - All other miscellaneous nonbuilding construction. Includes all other types of nonbuilding construction.

### **KINDS OF BUSINESS ACTIVITIES**

Includes dollar value of business done by business activity. Primary activities are construction activities that generate fifty-one percent or more of an establishment's dollar value of business done. Also included are other kinds of business activities. Other kinds of business activities include business receipts not reported as value of construction work. This item includes business receipts from retail and wholesale trade, rental of equipment without an operator, manufacturing, transportation, legal services, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included in other kinds of business activities.

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## **VALUE OF CONSTRUCTION WORK FOR SPECIALIZED TYPE AND KIND OF BUSINESS**

Includes value of construction work for one of two specialized categories. These categories include types of construction and kind-of-business activity. A construction establishment specializes in a type of construction when fifty-one percent or more of the construction work done is in one construction industry. The construction establishment reports each type of construction it performs as a percent of value of construction work. Types of construction refers to the types of buildings, structures, or facilities constructed or worked on by construction establishments in the reporting year. Specialization in types of construction displays data for establishments with payroll that falls within each percent range of specialization. A construction establishment specializes in a kind-of-business activity when fifty-one percent or more of the construction work done by the establishment is performed in one type of business activity. The construction establishment reports each kind-of-business activity engaged in as a percent of value of construction work. Kind-of-business activity refers to the kinds of business activities construction establishments perform throughout the reporting year. Examples of kind-of-business activity include highway and street construction, electrical contracting, carpentry contracting, and concrete contracting. Specialization in kind-of-business activity displays data for establishments with payroll that fall within each percent range of specialization.

### **SPECIALIZATION PERCENT**

Includes data for establishments with payroll that fall within each percent range of specialization.

## **VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS BY LOCATION OF WORK**

This is the value of construction done in particular states by establishment. An establishment can do construction in one or more states.

# Appendix B.

## NAICS Codes, Titles, and Descriptions

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### **SECTOR 23 CONSTRUCTION**

The construction sector comprises establishments primarily engaged in the construction of buildings or engineering projects (e.g., highways and utility systems). Establishments primarily engaged in the preparation of sites for new construction and establishments primarily engaged in subdividing land for sale as building sites also are included in this sector.

Construction work done may include new work, additions, alterations, or maintenance and repairs. Activities of these establishments generally are managed at a fixed place of business, but they usually perform construction activities at multiple project sites. Production responsibilities for establishments in this sector are usually specified in (1) contracts with the owners of construction projects (prime contracts) or (2) contracts with other construction establishments (subcontracts).

Establishments primarily engaged in contracts that include responsibility for all aspects of individual construction projects are commonly known as general contractors, but also may be known as design-builders, construction managers, turnkey contractors, or (in cases where two or more establishments jointly secure a general contract) joint-venture contractors. Construction managers that provide oversight and scheduling only (i.e., agency) as well as construction managers that are responsible for the entire project (i.e., at risk) are included as general contractor type establishments. Establishments of the “general contractor type” frequently arrange construction of separate parts of their projects through subcontracts with other construction establishments.

Establishments primarily engaged in activities to produce a specific component (e.g., masonry, painting, and electrical work) of a construction project are commonly known as specialty trade contractors. Activities of specialty trade contractors are usually subcontracted from other construction establishments, but especially in remodeling and repair construction, the work may be done directly for the owner of the property.

Establishments primarily engaged in activities to construct buildings to be sold on sites that they own are known as operative builders, but also may be known as speculative builders or merchant builders. Operative builders produce buildings in a manner similar to general contractors, but their production processes also include site acquisition and securing of financial backing. Operative builders are most often associated with the construction of residential buildings. Like general contractors, they may subcontract all or part of the actual construction work on their buildings.

There are substantial differences in the types of equipment, work force skills, and other inputs required by establishments in this sector. To highlight these differences and variations in the underlying production functions, this sector is divided into three subsectors.

Subsector 236, Construction of Buildings, comprises establishments of the general contractor type and operative builders involved in the construction of buildings. Subsector 237, Heavy and Civil Engineering Construction, comprises establishments involved in the construction of engineering projects. Subsector 238, Specialty Trade Contractors, comprises establishments engaged in specialty trade activities generally needed in the construction of all types of buildings.

Force account construction is construction work performed by an enterprise primarily engaged in some business other than construction for its own account and use, using employees of the enterprise. This activity is not included in the construction sector unless the construction work performed is the primary activity of a separate establishment of the enterprise. The installation and the ongoing repair and maintenance of telecommunications and utility networks is excluded from construction when the establishments performing the work are not independent contractors.

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Although a growing proportion of this work is subcontracted to independent contractors in the Construction Sector, the operating units of telecommunications and utility companies performing this work are included with the telecommunications or utility activities.

# Appendix C.

## Methodology

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### SOURCES OF THE DATA

The construction sector includes approximately 650,000 establishments that were determined to be in-scope of the 2002 Economic Census — Construction. This number includes those industries in the North American Industry Classification System (NAICS) definition of construction with at least one paid employee in 2002.

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:

Sample frame establishments. The sample frame consisted of the entire construction universe; there were no subpopulations that were explicitly removed from the sample frame. The sample frame was compiled from a list of all construction companies in the active records of the Internal Revenue Service (IRS) and the Social Security Administration (SSA) that are subject to the payment of Federal Insurance Contributions Act taxes. Under special arrangements, to safeguard their confidentiality, the U.S. Census Bureau obtains information on the location and classification of the companies, as well as their payroll and receipts data from these sources. Unfortunately, these sources do not provide establishment level information for companies with multiple locations. For multilocation companies, the establishment level information is directly obtained from the U.S. Census Bureau's Company Organization Survey. For single-location companies, the IRS-SSA information is generally sufficient for assigning the company to a specific six-digit NAICS industry code.

The 2002 NAICS structure for the construction sector was significantly revised from the 1997 NAICS structure. Initially, only a small proportion of the establishments in the sample frame could be directly assigned a 2002 NAICS industry code with a high degree of confidence. Therefore, a special classification card was mailed to 150,000 construction establishments in early 2002. The goal of this classification card was to obtain the current NAICS industry code prior to assembly of the sample frame for the economic census — construction sample.

2. Establishments not sent a report form:

a. Nonsample frame establishments. There were a limited number of establishments included in the business register who were completely unclassified at the time of the economic census — construction sampling operation. These establishments were mailed a general classification card in early 2003. A portion of these were ultimately determined to be in-scope of the economic census — construction. Since this determination was not made until after the sample selection operation had been completed; these establishments were treated as a supplement to the original universe and were sampled independently for inclusion in the derived estimates.

b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees, were also excluded from the 2002 sample frame, as in previous censuses. Nonemployers with significant levels of receipts data were identified and included in the census mailout under the presumption that the nonemployer status may have been incorrect. Those determined to have employees are included in this report. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at [help.econ.census.gov/econhelp/resources/](http://help.econ.census.gov/econhelp/resources/).

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A more detailed examination of census methodology is presented in the *History of the Economic Census* at [www.census.gov/econ/www/history.html](http://www.census.gov/econ/www/history.html).

## **INDUSTRY CLASSIFICATION OF ESTABLISHMENTS**

The classifications for all establishments covered in the 2002 Economic Census — Construction are classified in 1 of 31 industries in accordance with the industry definitions in the *North American Industry Classification System (NAICS), United States, 2002* manual. Changes between 1997 and 2002 affecting this sector are discussed in the text at the beginning of this report. Tables at [www.census.gov/epcd/naics02/n02ton97.htm](http://www.census.gov/epcd/naics02/n02ton97.htm) identify those industries that changed between the 1997 North American Industry Classification System (NAICS) and 2002 NAICS.

In the NAICS system, an industry is generally defined as a group of establishments that use similar processes or have similar business activities. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by construction, value of business done, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the construction sector for 2002, there are 3 subsectors (three-digit NAICS), 10 industry groups (four-digit NAICS), 28 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 31 U.S. industries (six-digit NAICS).

## **ESTABLISHMENT BASIS OF REPORTING**

The 2002 Economic Census — Construction is conducted on an establishment basis. A construction establishment is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one that has been established for the management of more than one project or job and that is expected to be maintained on a continuing basis. Such establishment activities include, but are not limited to, estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each establishment operated during any part of the census year. The construction sector figures represent a tabulation of records for individual establishments, rather than for companies.

If an establishment was engaged in construction and one or more distinctly different lines of economic activity at the same place of business, it was requested to file a separate report for each activity, provided that the activity was of substantial size and separate records were maintained. If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the value of construction work exceeded the gross receipts from each of its other activities.

The 2002 Economic Census — Construction excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service construction establishments of the same company. These data are published in a separate report series.

## **DESCRIPTION OF THE SAMPLE FRAME**

The major objective of the sample design was to provide a sample that would provide reliable estimates at the state by industry level. For sample efficiency considerations, the establishments in the initial 2002 construction frame were partitioned into two components for developing estimates within the sample frame. The details of each are described below:

1. Probability-proportionate-to-size (pps) sample. There were three non-overlapping strata for sample selection. An independent sample was selected within each state by industry cell. The details of each stratum were defined as:

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- Stratum 1. This stratum was comprised of approximately 12,000 establishments associated with multilocation companies. The establishments of these multiunit companies were included in the construction sample with certainty.
  - Stratum 2. This stratum was comprised of approximately 145,000 single-location companies that could be classified into a valid 2002 NAICS industry. These cases accounted for approximately 75 percent of the payroll associated with single-location companies in construction. The industry code for most of these establishments was determined from the special classification card that was mailed in early 2002. This group was partitioned into state by NAICS (six-digit) cells and an independent sample selected from each cell. Within each cell, a probability-proportionate-to-size (pps) sampling strategy was used. Under this approach, the probability of selection for the sample for larger establishments is higher than for smaller establishments. There were approximately 80,000 establishments selected from this group.
  - Stratum 3. This stratum was comprised of the remaining single-location companies. For these companies, we did not have an updated 2002 NAICS industry code. The most recent classification information available for these companies was their 1997 NAICS. Using this 1997 NAICS industry code, this stratum was partitioned into state by NAICS (four-digit) cells; and an independent sample selected from each cell. Again, probability-proportionate-to-size sampling methodology was utilized. There were approximately 30,000 establishments selected from this group.

Subsequent to the initial census mail-out, companies that initiated operations in 2002 were identified via administrative sources. To assure proper representation of the entire in-scope population, simple random samples of these new operations were selected and mailed separately.

2. Estimation and variances. Based on the response data, establishments were assigned to the appropriate NAICS (six-digit) industry. At each level of tabulation, unbiased estimates were derived by summing the weighted establishment data where the establishment sample weight was equal to the inverse of its probability of selection for the construction sample.

The resulting estimates were generated from one of many possible samples and are subject to sampling variability. Estimates of this sample variability were independently derived at all levels of aggregation. These sampling variances were then aggregated to the publication levels for the computation of the relative standard errors.

## **RELIABILITY OF DATA**

The estimates developed from the sample can differ somewhat from the results of a survey covering all companies in the sample lists, but are otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the construction sector is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data. They are presented in the form of relative standard errors that are the standard errors divided by the estimated values to which they refer.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals, or ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples.

The complete-coverage value would be included in the range:



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- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
  - From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
  - From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference is that the comparable complete-survey result would fall within the indicated ranges and the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection; reporting; coding; transcription; imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the U.S. Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables of this publication having an associated standard error exceeding 75 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

### **DUPLICATION IN VALUE OF CONSTRUCTION WORK**

The aggregate of value of construction work reported by all construction establishments in each of the industry, geographic area, or other groupings contains varying amounts of duplication. This is because the construction work of one firm may be subcontracted to other construction firms and may also be included in the subcontractors' value of construction work. Also, part of the value of construction results from the use of products of nonconstruction industries as input materials. These products are counted in the nonconstruction industry, as well as part of the value of construction. Value added avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or geographic areas. Value added for construction industries is defined as the dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels.

### **DISCLOSURE**

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at [www.census.gov/epcd/ec02/disclosure.htm](http://www.census.gov/epcd/ec02/disclosure.htm).

# Appendix D. Geographic Notes

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Not applicable for this report.

# Appendix E. Metropolitan and Micropolitan Statistical Areas

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Not applicable for this report.

