Georgia: 2002

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2002 Economic Census *Construction* Geographic Area Series

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-- Not applicable for this report.

Introduction to the Economic Census

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 22 23	Mining Utilities 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).

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) 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

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. 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.

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Construction

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 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.

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.
- x Construction

- 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
 - 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:
 - oil and gas pipeline and related structures construction, now in Industry 237120
 - 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 have been several additional data tables added, which did not exist in 1997. These tables for 2002 include e-commerce value of business done and leased and nonleased detail employment statistics by subsectors. Also included 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.

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 additon, 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.

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 i 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

- 10 to 19 percent estimated 20 to 29 percent estimated р
- q r
- Revised
- s
- nsk
- Sampling error exceeds 40 percent Not specified by kind Represents zero (page image/print only) Consolidated city Independent city
- (CC)
- (IC)

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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

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236220 building construction 1 335 24 862 15 349 15 794 15 177 15 192 14 992 1 067 389 551 798 237 Heavy and civil engineering construction 1 335 24 862 15 349 15 794 15 117 15 192 14 992 1 067 389 551 798 237 Heavy and civil engineering construction 1 941 52 566 36 165 36 820 36 292 36 282 35 267 1 316 922 876 270 2371 Utility system construction 835 15 952 11 659 11 968 11 666 11 791 11 212 564 861 373 174 23711 Water and sewer line and related structures construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 237120 Ol and gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 237120 Ol and gas pipeline and related structures construction 257 6 675 <td< td=""><td>8</td></td<>	8
building construction 1 335 24 862 15 349 15 794 15 172 14 992 1 067 389 551 798 237 Heavy and civil engineering construction 1 941 52 566 36 165 36 820 36 292 36 282 35 267 1 316 922 876 270 2371 Utility system construction 835 15 952 11 659 11 968 11 666 11 791 11 212 564 861 373 174 23710 Water and sever line and related structures construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 237120 Oil and gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 237120 Oil and gas pipeline and related structures construction 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 <td>4</td>	4
construction 1 941 52 566 36 165 36 292 36 282 35 267 1 316 922 876 270 2371 Utility system construction 835 15 952 11 659 11 968 11 66 11 791 11 212 564 861 373 174 237110 Water and sewer line and related structures construction 557 7 771 6 120 6 66 6 81 6 209 6 122 249 469 177 701 237120 Oil and gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 237120 Oil and gas pipeline and related structures construction 207 6 675 4 239 4 440 4 4173	4
23711 Water and sewer line and related structures construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 237110 Water and sewer line and related structures construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 237120 Oil and gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 237130 Power and communication line and related structures construction 257 6 675 4 239 4 40 4 419 4 173 3 927 247 465 137 926 237130 Power and communication line and related structures 257 6 675 4 239 4 401 4 4173 3 927 247 465	2
related structures 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 237110 Water and sewer line and related structures 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 23713 Power and communication line and related structures 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 23720 Power and communication 257 6 675 4 239 1 440 4 419 4 173 3 927 247 465 137 926 23721 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23731 Lighway, street, and bridge 365	5
237110 Construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Oil and gas pipeline and related structures 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 23713 Power and communication line and related structures 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 2372 Land subdivision 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 23721 Land subdivision 404 2 837 1 043 1 183 1 010 985 993	
construction 557 7 771 6 120 6 066 6 081 6 209 6 122 249 469 177 701 23712 Ind gas pipeline and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 23713 Power and communication line and related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 23713 Power and communication line and related structures construction 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 2372 Land subdivision 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 2372 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23721 Land subdivision 365 28 930 19 490 19 532 19 566 19 612 19 252 <td< td=""><td>9</td></td<>	9
237120 Otil and gas pipeline and related structures construction	9
related structures construction 20 1 506 1 300 1 462 1 167 1 409 1 163 67 927 57 548 23713 Power and communication line and related structures 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 237130 Power and communication line and related structures construction 257 6 675 4 239 4 440 4 419 4 173 3 927 247 465 137 926 2372 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23721 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23731 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 23731 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 23731 Highway, street, and bridge c	4
237130 and related structures construction	4
line and related structures construction 257 6 675 4 239 4 4419 4 173 3 927 247 465 137 926 2372 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23721 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23721 Land subdivision 404 2 837 1 043 1 183 1 010 985 993 108 846 33 208 23731 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 66 19 612 19 255 505 905 365 818 23731 Highway, street, and bridge construction 365 28 930 19 4953 19 612 1	4
23721 Land subdivision	4
237210 Land subdivision	10
23731 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 237310 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 237310 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 2379 Other heavy and civil engineering construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070 23799 Other heavy and civil U U U U U U U U U U U U U U U U U U <t< td=""><td>10 10</td></t<>	10 10
237310 Construction	1
237310 Highway, street, and bridge construction 365 28 930 19 490 19 532 19 566 19 612 19 252 505 905 365 818 2379 Other heavy and civil engineering construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070 23799 Other heavy and civil 0	
2379 Other heavy and civil engineering construction 337 4 847 3 973 4 19 566 19 612 19 252 505 905 365 818 2379 Other heavy and civil engineering construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070 23799 Other heavy and civil 0	1
construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070 23799 Other heavy and civil 0	1
	16
engineering construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070	16
237990 Other heavy and civil engineering construction 337 4 847 3 973 4 137 4 050 3 894 3 811 137 311 104 070	16
238 Specialty trade contractors 12 034 117 781 88 665 86 876 89 242 91 530 87 011 3 557 341 2 549 992	2
2381 Foundation, structure, and	2
building exterior contractors 2 498 26 628 20 696 20 282 20 348 21 596 20 559 723 587 528 612	5
23811 Poured concrete foundation and structure contractors 712 9 081 7 521 6 747 7 206 8 276 7 854 250 287 193 062	9
238110 Poured concrete foundation and structure contractors 712 9 081 7 521 6 747 7 206 8 276 7 854 250 287 193 062	9
23812 Structural steel and precast concrete contractors 86 1 612 1 322 1 403 1 415 1 244 1 227 53 097 40 307	9
238120 Structural steel and precast concrete contractors 86 1 612 1 322 1 403 1 415 1 244 1 227 53 097 40 307	9
23813 Framing contractors 291 1 498 1 165 1 266 1 036 1 167 1 190 31 334 22 254 238130 Framing contractors 291 1 498 1 165 1 266 1 036 1 167 1 190 31 334 22 254	18 18 11
23814 Masonry contractors 490 4 575 3 465 3 715 3 488 3 562 3 094 101 773 81 552	11
238140 Masonry contractors 490 4 575 3 465 3 715 3 488 3 562 3 094 101 773 81 552 23815 Glass and glazing contractors 161 1 621 1 075 1 025 1 098 1 150 1 027 48 732 29 367	11 12
238150 Glass and glazing contractors 161 1 621 1 075 1 025 1 098 1 150 1 027 48 732 29 367	12 11
23816 Roofing contractors 548 5 310 3 996 3 787 3 978 4 212 4 009 123 490 80 650 238160 Roofing contractors 548 5 310 3 996 3 787 3 978 4 212 4 009 123 490 80 650 238160 Roofing contractors 548 5 310 3 996 3 787 3 978 4 212 4 009 123 490 80 650	11
23817 Siding contractors 166 1 309 894 930 890 926 829 40 870 25 927 238170 Siding contractors 166 1 309 894 930 890 926 829 40 870 25 927	17 17

See footnotes at end of table.

Construction-Geo. Area Series

Table 1. Employment Statistics for Establishments by State: 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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS codeIndustryNumber of estab- lishmentsNumber of employeesNumber of constructionNAICS codeIndustryNumber of estab- lishmentsCon- structionMarchMayABCDE23 2381GEORGIA-Con. Specialty trade contractors-Con. Foundation, structure, and building exterior contractors- Con.ABCDE23819 238190Other foundation, structure, and building exterior contractors- Con.4316221125914101237238190Other foundation, structure, and building exterior contractors- Con.4316221125914101237	August November F (1) 1 059 1 32	(thousar r Total à H	yroll d dollars) Con- struction workers	Relative standard error of estimate (percent) for column— B
code Industry Number of estab- lishments Construction struction model March May 23 GEORGIA - Con. A B C D E 23 Construction - Con. Specialty trade contractors - Con. Foundation, structure, and building exterior contractors - Con. 43 1 622 1 259 1 410 1 237 23819 Other foundation, structure, and building exterior 43 1 622 1 259 1 410 1 237	F (à H	struction workers	estimate (percent) for column-
23 GEORGIA Con. 238 Specialty trade contractors Con. 2381 Specialty trade contractors Con. 23819 Other foundation, structure, and 238190 Other foundation, structure, and 238190 Other foundation, structure, and	1 059 1 32			В
23 Construction - Con. 238 Specialty trade contractors - Con. 2381 Foundation, structure, and building exterior contractors - Con. 23819 Other foundation, structure, and building exterior contractors 238190 Other foundation, structure, and building exterior contractors 238190 Other foundation, structure, and building exterior		8 74 005		
238 Specialty trade contractors—Con. 2381 Foundation, structure, and building exterior contractors— Con. 23819 Other foundation, structure, and building exterior contractors 238190 Other foundation, structure, and building exterior		8 74 005		
238190 building exterior contractors 43 1 622 1 259 1 410 1 237 other foundation, structure, and building exterior		8 74 005		
238190 Other foundation, structure, and building exterior		8 74 005		
contractors 43 1 622 1 259 1 410 1 237			55 493	6
	1 059 1 32	8 74 005	55 493	6
2382 Building equipment contractors 4 918 56 051 42 088 41 245 42 351	43 457 41 29	9 1 865 505	1 351 176	2
	20 639 19 40 20 639 19 40		622 380 622 380	3 3
	20 730 19 87	8 944 212	653 972	4
conditioning contractors 2 534 27 994 20 315 20 132 20 520	20 730 19 87	8 944 212	653 972	4
23829 Other building equipment contractors 200 2 990 2 060 2 018 2 122 238290 Other building equipment 200 2 990 2 060 2 018 2 122	2 088 2 01	3 105 264	74 823	7
238290 Other building equipment contractors 200 2 990 2 060 2 018 2 122	2 088 2 01	3 105 264	74 823	7
2383 Building finishing contractors 2 640 20 330 14 944 14 892 15 507	15 213 14 16	7 535 253	363 241	6
23831 Drywall and insulation				
contractors 616 6 913 5 612 5 612 5 807 238310 Drywall and insulation 616 6 913 5 612 5 807	5 797 5 23		139 567	10
contractors 616 6 913 5 612 5 612 5 807 23832 Painting and wall covering 616 6 913 5 612 5 807	5 797 5 23		139 567	10
contractors 752 5 153 3 886 3 981 4 182 238320 Painting and wall covering 752 5 153 3 886 3 981 4 182	3 870 3 51		88 617	11
contractors 752 5 153 3 886 3 981 4 182 23833 Flooring contractors 225 1 423 833 839 884	3 870 3 51 797 81		88 617 22 329	11 17
238330 Flooring contractors 225 1 423 833 839 884	797 81	4 40 586	22 329	17
23834 Tile and terrazzo contractors 233 1 085 811 831 839	817 75		20 025	15
238340 Tile and terrazzo contractors. 233 1 085 811 831 839	817 75		20 025	15
23835 Finish carpentry contractors 704 3 770 2 315 2 060 2 379 238350 Finish carpentry contractors 704 3 770 2 315 2 060 2 379	2 444 2 37 2 444 2 37		48 285 48 285	18 18
23839 Other building finishing				
contractors 109 1 986 1 487 1 568 1 415 238390 Other building finishing 0 1 986 1 487 1 568 1 415	1 489 1 47		44 417	8
contractors 109 1 986 1 487 1 568 1 415	1 489 1 47	5 63 116	44 417	8
2389 Other specialty trade contractors 1 979 14 772 10 936 10 457 11 036	11 265 10 98	6 432 996	306 964	5
23891 Site preparation contractors 933 8 027 6 239 5 875 6 258 238910 Site preparation contractors 933 8 027 6 239 5 875 6 258	6 384 6 43 6 384 6 43 6 384 6 43		190 104 190 104	5 5
23899 All other specialty trade contractors 1 046 6 745 4 697 4 582 4 778	4 881 4 54	8 172 784	116 859	10
238990 All other specialty trade contractors 1 046 6 745 4 697 4 582 4 778	4 881 4 54	8 172 784	116 859	10

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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

nonsampling	error, and geographical definitions, see n	ole al	end of table. To	i meaning of ab	Dieviations and	symbols, see in	ilouuciory lexi.		i oi teims, see Ap		
NAICS code	Industry	E1	Value of business done ²	Value of construction work ²	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 expend- itures, except land	Gross book value of depreciable assets, end-of-year
	GEORGIA										
23	Construction	1	41 366 986	40 784 265	28 053 522	16 904 347	11 731 897	12 730 742	551 356	814 715	6 078 694
236	Construction of buildings	1	21 065 886	20 771 004	10 887 531	5 765 277	5 417 136	9 883 473	112 113	199 708	998 844
2361	Residential building construction	2	10 021 934	9 930 327	6 258 414	2 895 981	3 454 040	3 671 913	34 875	153 841	519 326
23611	Residential building										
236115	construction New single-family housing construction (except	2	10 021 934	9 930 327	6 258 414	2 895 981	3 454 040	3 671 913	34 875	153 841	519 326
236116	operative builders) New multifamily housing construction (except	4	1 673 183	1 665 422	1 045 576	445 267	608 070	619 846	8 862	10 589	78 180
236117	operative builders) New housing operative	1	794 807	D	326 954	207 470	D	D	2 505	D	184 967
236118	builders Residential remodelers	1 3	6 445 159 1 108 787	6 414 852 D	4 131 171 754 712	1 772 629 470 615	2 388 849 D	2 283 680 D	14 318 9 190	37 550 D	185 755 70 424
2362	Nonresidential building construction	-	11 043 951	10 840 677	4 629 118	2 869 295	1 963 096	6 211 560	77 238	45 868	479 518
23621	Industrial building construction .	_	578 039	572 824	246 518	168 107	83 626	326 306	6 075	3 100	42 261
236210	Industrial building construction	-	578 039	572 824	246 518	168 107	83 626	326 306	6 075	3 100	42 261
23622	Commercial and institutional building construction	_	10 465 913	10 267 854	4 382 600	2 701 188	1 879 470	5 885 254	71 163	42 768	437 257
236220	Commercial and institutional building construction	-	10 465 913	10 267 854	4 382 600	2 701 188	1 879 470	5 885 254	71 163	42 768	437 257
237	Heavy and civil engineering construction	1	7 232 619	7 086 612	5 732 393	3 979 112	1 899 288	1 354 219	184 342	308 706	2 571 336
2371	Utility system construction	1	2 156 391	2 108 143	1 759 862	1 209 607	598 504	348 281	66 797	106 276	740 155
23711	Water and sewer line and related structures		1 140 050	1 100 050	958 327	551 504	424 306	100,000	00.010	70.005	519 328
237110	Construction Water and sewer line and related structures	1	1 143 853	1 126 350		551 524		168 023	36 218	78 995	
23712	Construction Oil and gas pipeline and related	1	1 143 853	1 126 350	958 327	551 524	424 306	168 023	36 218	78 995	519 328
237120	Structures construction Oil and gas pipeline and related structures	-	206 403	D	169 469	135 764	D	D	12 532	5 432	65 446
23713	construction Power and communication line and related structures	-	206 403	D	169 469	135 764	D	D	12 532	5 432	65 446
237130	construction Power and communication line and related structures	-	806 135	D	632 066	522 318	D	D	18 048	21 849	155 382
	construction	-	806 135	D	632 066	522 318	D	D	18 048	21 849	155 382
2372	Land subdivision	3	736 550	704 755	527 354	450 000	109 148	177 401	8 557	8 284	176 676
23721 237210	Land subdivision	3 3	736 550 736 550	704 755 704 755	527 354 527 354	450 000 450 000	109 148 109 148	177 401 177 401	8 557 8 557	8 284 8 284	176 676 176 676
2373	Highway, street, and bridge construction	-	3 576 900	3 512 427	2 792 208	1 855 346	1 001 334	720 220	94 838	137 826	1 268 239
23731	Highway, street, and bridge construction	_	3 576 900	3 512 427	2 792 208	1 855 346	1 001 334	720 220	94 838	137 826	1 268 239
237310	Highway, street, and bridge construction	-	3 576 900	3 512 427	2 792 208	1 855 346	1 001 334	720 220	94 838	137 826	1 268 239
2379	Other heavy and civil engineering construction	2	762 778	761 287	652 970	464 160	190 301	108 317	14 150	^s 56 320	386 266
23799	Other heavy and civil engineering construction	2	762 778	761 287	652 970	464 160	190 301	108 317	14 150	⁵56 320	386 266
237990	Other heavy and civil engineering construction	2	762 778	761 287	652 970	464 160	190 301	108 317	14 150	°56 320	386 266
238	Specialty trade contractors	2	13 068 482	12 926 648	11 433 598	7 159 959	4 415 473	1 493 050	254 901	306 301	2 508 514
2381	Foundation, structure, and building exterior contractors	2	2 806 496	2 791 568	2 504 138	1 469 344	1 049 722	287 431	54 109	48 342	433 407
23811	Poured concrete foundation and										
238110	structure contractors Poured concrete foundation	3	982 452	981 174	875 775	489 222	387 831	105 399	23 664	19 604	179 875
23812	and structure contractors Structural steel and precast	3	982 452	981 174	875 775	489 222	387 831	105 399	23 664	19 604	179 875
238120	concrete contractors Structural steel and precast	2	175 838	173 680	151 579	111 164	42 573	22 101	5 403	4 225	53 026
23813	concrete contractors Framing contractors	2	175 838 123 406	173 680 D	151 579 99 642	111 164 70 806	42 573 D	22 101 D	5 403 760	4 225 ^s 1 713	53 026 9 227
238130 23814	Framing contractors Masonry contractors	-	123 406 403 179	D 402 942	99 642 364 616	70 806 258 188	D 106 666	D 38 326	760 760 7961	\$1 713 6 560	9 227 9 227 41 905
238140 23815	Masonry contractors	3 3 1	403 179 208 930	402 942 204 108	364 616 190 213	258 188 93 552	106 666 101 483	38 326 13 895	7 961 4 292	6 560 1 672	41 905 23 445
23815	Glass and glazing contractors Glass and glazing	1	208 930	204 108	190 213		101 483	13 895	4 292	1 672	23 445 23 445
23816	contractors Roofing contractors		559 731	204 108 553 809 553 809	483 969	93 552 273 533 273 533	216 359	69 840 69 840	7 634	6 826	67 497
238160 23817 228170	Roofing contractors Siding contractors	2 2 2 2	559 731 150 777	D	483 969 139 253	273 533 82 645	216 359 D	D	7 634	6 826 1 681	67 497 11 667
238170 23819	Siding contractors Other foundation, structure, and building exterior contractors		150 777	D	139 253	82 645	108 859	D \$3,000	1 772	1 681	11 667
238190	building exterior contractors Other foundation, structure, and building exterior	_	202 183	202 183	199 092	90 233	108 859	s3 090	2 623	6 061	46 764
0	contractors	_	202 183	202 183	199 092	90 233	108 859	s3 090	2 623	6 061	46 764

See footnotes at end of table.

Construction-Geo. Area Series

Table 2. General Statistics for Establishments by State: 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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	E1	Value of business done ²	Value of construction work ²	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 expend- itures, except land	Gross book value of depreciable assets, end-of-year
	GEORGIA-Con.										
23 238 2382	Construction—Con. Specialty trade contractors—Con. Building equipment contractors	1	6 121 661	6 077 747	5 538 308	3 495 862	2 086 360	539 439	104 428	115 881	865 771
23821 238210 23822	Electrical Contractors Electrical Contractors Plumbing, heating, and air-	1 1	2 355 205 2 355 205	2 339 529 2 339 529	2 193 451 2 193 451	1 434 746 1 434 746	774 381 774 381	146 078 146 078	39 531 39 531	37 327 37 327	298 965 298 965
238220	conditioning contractors Plumbing, heating, and air-	1	3 459 031	3 436 673	3 055 853	1 851 844	1 226 368	380 819	58 290	69 373	500 996
23829	conditioning contractors Other building equipment	1	3 459 031	3 436 673	3 055 853	1 851 844	1 226 368	380 819	58 290	69 373	500 996
	contractors	2	307 426	301 546	289 003	209 272	85 611	12 542	6 606	9 180	65 810
238290	Other building equipment contractors	2	307 426	301 546	289 003	209 272	85 611	12 542	6 606	9 180	65 810
2383	Building finishing contractors	2	2 282 739	2 243 076	1 829 739	1 161 164	708 238	413 337	37 635	29 369	246 012
23831	Drywall and insulation		000 700		705 054			_	10 717	0 504	
238310	contractors Drywall and insulation	3	923 762	D	735 654	440 384	D	D	10 717	9 504	77 376
23832	Contractors Painting and wall covering	3	923 762	D	735 654	440 384	D	D	10 717	9 504	77 376
238320	contractors Painting and wall covering	2	490 141	479 554	368 324	265 004	113 906	111 230	8 368	7 722	66 074
23833	Contractors	2	490 141 218 184	479 554 209 269	368 324 164 677	265 004 83 197	113 906 90 395	111 230 44 591	8 368 2 845	7 722 1 486	66 074 12 667
238330	Flooring contractors	i	218 184	209 269	164 677	83 197	90 395	44 591	2 845	1 486	12 667
23834	Tile and terrazzo contractors	3	110 172	D	103 836	70 284	D	D	2 119	2 098	15 054
238340	Tile and terrazzo contractors .	3	110 172	D	103 836	70 284	D	D	2 119	2 098	15 054
23835	Finish carpentry contractors	4	374 718	360 791	300 903	190 358	124 473	59 887	8 418	4 603	52 510
238350 23839	Finish carpentry contractors . Other building finishing	4	374 718	360 791	300 903	190 358	124 473	59 887	8 418	4 603	52 510
238390	contractors Other building finishing	-	165 763	D	156 344	111 936	D	D	5 166	3 956	22 330
	contractors	-	165 763	D	156 344	111 936	D	D	5 166	3 956	22 330
2389	Other specialty trade contractors .	2	1 857 585	1 814 256	1 561 413	1 033 589	571 153	252 843	58 729	112 709	963 324
23891 238910	Site preparation contractors Site preparation contractors	1	1 071 979 1 071 979	1 045 583 1 045 583	882 804 882 804	613 787 613 787	295 412 295 412	162 780 162 780	41 325 41 325	90 750 90 750	667 353 667 353
23899	All other specialty trade	· ·	10/13/9	1 045 565	002 004	013 /0/	235 412	102 /00	41 325	30 / 30	007 000
238990	contractors	4	785 607	768 673	678 609	419 802	275 741	90 063	17 405	21 959	295 971
	contractors	4	785 607	768 673	678 609	419 802	275 741	90 063	17 405	21 959	295 971

¹Construction 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. ² 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.

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, nonsampling error, and geographical definitions, 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)
GEORGIA		
All establishments number	20 257	3
All employees number	221 292	1
Construction workers in March number. Construction workers in May number. Construction workers in August number. Construction workers in November number. Average number of construction workers number.	155 338 157 220 158 782 152 268 155 902	1 1 2 2 1
Other employees in March number. Other employees in May number. Other employees in August number. Other employees in November number. Average number of other employees number.	68 700 63 494 64 557 64 810 65 390	2 2 2 2 2 2 2 2 2
Total payroll \$1,000 Construction workers \$1,000 Other employees \$1,000	6 852 101 4 425 335 2 426 766	1 1 1 1 1
First-quarter payroll, all employees \$1,000	1 617 846	1
Fringe benefits, all employees \$1,000. Legally required expenditures \$1,000. Voluntary expenditures \$1,000.	1 331 645 869 430 462 215	1
Value of business done ¹ \$1,000. Value of construction work ¹ \$1,000. Value of construction work on government owned projects \$1,000. Value of construction work on federally owned projects \$1,000. Value of construction work on state and locally owned projects \$1,000. Value of construction work on privately owned projects \$1,000. Value of construction work on privately owned projects \$1,000. Value of construction work on privately owned projects \$1,000. Other business receipts \$1,000.	41 366 986 40 784 265 10 587 033 2 427 784 8 159 249 30 197 232 562 722	2 2 3 4 3 2 2 4
Value of construction work subcontracted in from others	13 656 426	2
Net value of construction work	28 053 522	2
Value added\$1,000	16 904 347	2
Selected costs. \$1,000. Materials, parts, and supplies \$1,000. Construction work subcontracted out to others \$1,000. Selected power, fuels, and lubricants \$1,000. Purchased electricity \$1,000. Natural gas and manufactured gas \$1,000. Gasoline and diesel fuel \$1,000. On-highway use of gasoline and diesel fuel \$1,000. Off-highway use of gasoline and diesel fuel \$1,000. All other fuels and lubricants \$1,000.	24 462 639 11 207 338 12 730 742 524 559 92 527 41 310 365 367 280 566 104 800 25 355	2 2 2 2 3 3 4 2 2 2 4 3 3 3 3 3 3
Total rental costs \$1,000 Machinery and equipment. \$1,000 Buildings \$1,000	551 356 370 490 180 866	2 2 3
Selected purchased services \$1,000. Communication services \$1,000. Repairs to buildings and other structures. \$1,000. Repairs to machinery and equipment \$1,000. Legal services \$1,000. Accounting, auditing, and bookkeeping services \$1,000. Advertising and promotional services \$1,000.	1 067 612 320 252 168 050 288 368 63 376 115 812 131 754	2 2 2 2 2 2 6 6 11 1 8
Beginning-of-year gross book value of depreciable assets \$1,000. Capital expenditures, other than land \$1,000. Retirements and disposition of depreciable assets \$1,000.	5 507 483 814 715 243 504	3 4 3
End-of-year gross book value of depreciable assets	6 078 694	3
Depreciation charges during year\$1,000	657 933	2
Establishments with inventories number. Value of construction work for establishments with inventories \$1,000. End-of-2002, inventories of materials and supplies \$1,000. End-of-2001, inventories of materials and supplies \$1,000.	2 570 8 234 996 448 709 385 802	- - 9 9
Establishments with no inventories	15 910 29 609 830	=
Establishments not reporting inventories	1 777 2 939 439	-

¹For 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.

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, nonsampling error, and geographical definitions, 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	E1	Number of estab- lishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	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	В	с	D	E	F	G	н	I	J	с
GEORGIA											
All establishments	1	20 257	221 292	6 852 101	41 366 986	40 784 265	28 053 522	16 904 347	11 731 897	12 730 742	1
1 to 4 employees 5 to 9 employees	3 3	11 903 4 078	24 458 26 119	553 704 730 303	4 878 939 4 467 057	4 830 247 4 422 547	3 508 074 3 190 373	1 794 377 1 836 476	1 762 389 1 398 407	1 322 173 1 232 174	4 5
10 to 19 employees 20 to 49 employees	2	2 249 1 375 403	29 648 40 606 27 185	910 078 1 383 886 1 039 177	5 054 501 7 327 861 5 481 864	5 030 151 7 250 045 5 441 498	3 774 753 5 162 632 3 810 344	2 269 588 3 138 332 2 227 480	1 529 515 2 102 115 1 623 230	1 255 398 2 087 414 1 631 154	5
50 to 99 employees 100 to 249 employees 250 to 499 employees	1	403 190 38	27 185 27 703 13 526	1 039 177 1 038 169 497 924	5 481 864 5 968 695 2 822 558	5 441 498 5 879 496 2 582 264	3 689 375 1 485 275	2 157 188	1 623 230 1 621 387 523 059	2 190 120	2
500 to 999 employees 1,000 employees or more	-	16 5	10 229 21 818	392 823 306 036	1 914 326 3 451 187	1 899 727 3 448 290	1 514 399 1 918 297	833 173 1 445 224	695 825 475 970	385 328 1 529 993	

¹Construction 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. ²For 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.

Table 5. Selected Statistics for Establishments by Dollar 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, nonsampling error, and geographical definitions, 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	E1	Number of estab- lishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	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	В	С	D	E	F	G	н	I	J	G
GEORGIA											
All establishments Establishments with value of business done –	1	20 257	221 292	6 852 101	41 366 986	40 784 265	28 053 522	16 904 347	11 731 897	12 730 742	2
Less than \$25,000 \$25,000 to \$49,999 \$50,000 to \$39,999 \$100,000 to \$249,999 \$250,000 to \$499,999 \$250,000 to \$499,999 \$500,000 to \$499,999 \$1,000,000 to \$2,499,999 \$2,500,000 to \$499,999 \$2,500,000 to \$4,999,999 \$2,500,000 to \$4,999,999 \$2,500,000 to \$4,999,999 \$5,000,000 to \$2,999,999 \$10,000,000 to more	5 4 5 4 3 2 2 1 -	S S 1 889 4 970 3 160 3 126 3 171 1 321 670 655	S 2 934 12 424 13 674 19 254 34 544 24 872 23 654 88 418	2 491 12 900 36 094 234 025 294 868 510 094 1 063 674 852 260 859 283 2 986 412	$\begin{array}{cccc} 6 & 178 \\ 37 & 964 \\ 137 & 918 \\ 839 & 310 \\ 1 & 150 & 300 \\ 2 & 197 & 366 \\ 4 & 983 & 486 \\ 4 & 694 & 632 \\ 4 & 651 & 575 \\ 22 & 668 & 258 \end{array}$	5 974 37 804 137 382 831 390 1 144 515 2 173 119 4 915 971 4 665 681 4 599 685 22 272 743	5 647 34 350 118 313 722 562 971 741 1 810 762 3 892 252 3 429 488 3 580 313 13 488 094	4 173 22 994 75 470 478 642 618 139 1 126 191 2 261 311 1 987 348 2 137 054 8 193 025	$\begin{array}{c} 1 \ 678 \\ 11 \ 516 \\ 43 \ 378 \\ 251 \ 840 \\ 359 \ 387 \\ 708 \ 818 \\ 1 \ 698 \ 456 \\ 1 \ 471 \ 092 \\ 1 \ 495 \ 149 \\ 5 \ 690 \ 584 \end{array}$	327 3 454 19 069 108 828 172 774 362 357 1 023 719 1 236 192 1 019 372 8 784 649	25 14 10 7 6 7 6 7 9 1

¹Construction 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. ²For 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.

Table 6. Value of Construction Work for Establishments by Geographic 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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Geographic location of construction work	Value of construction work ¹	Relative standard error of estimate (percent)
GEORGIA		
Total Construction work done in Alabama Construction work done in Florida Construction work done in Georgia Construction work done in North Carolina	40 784 265 323 990 1 266 665 35 624 467 639 274	2 2 4 2 1
Construction work done in South Carolina Construction work done in Tennessee Construction work done in Texas Construction work done in Virginia	350 252	5 1 3 7

¹For 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.

Table 7. Value of Construction Work for Establishments by 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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

		Value of cons	truction work1					
Type of construction	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	Relative s	andard error of es	timate (percent) fo	or column—
	А	В	С	D	А	В	С	D
GEORGIA								
Total	40 784 265	30 147 114	6 759 122	3 878 028	2	2	2	3
Building construction, total Single-family houses, detached and attached Single-family houses, detached Single-family houses, attached Apartment buildings (2 or more units), such as rentals,	31 126 763 12 573 780 11 438 449 1 135 331	23 586 065 10 365 602 9 408 419 957 183	5 014 203 1 202 273 1 106 752 95 521	2 526 496 1 005 905 923 279 82 626	2 4 5 10	2 5 5 11	3 7 7 27	4 9 10 14
apartment type condominiums and cooperatives Manufacturing and industrial warehouses Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research	1 917 905 862 866	1 534 433 539 208	228 932 212 242	154 540 111 415	6 7	5 10	28 7	23 4
laboratories . Hotels, motels, and tourist cabins . Office buildings . Stores, restaurants, and automobile service stations, and	1 311 336 654 553 3 789 703	697 028 519 342 2 528 181	304 904 82 549 945 853	309 404 52 661 315 669	2 7 4	3 8 4	4 7 8	3 9 6
other commercial buildings Commercial warehouses such as distribution buildings	3 133 584	2 267 831	619 694	246 059	3	3	6	6
and mini-storage	617 462 581 984	457 782 406 390	95 933 136 574	63 746 39 021	8 6	10 7	5 10	9 8
Educational buildings Health care and institutional buildings Public safety buildings such as prisons, police, and fire	2 644 223 1 808 998	2 097 648 1 188 795	465 824 544 447	80 751 75 756	7 4	7 4	9 6	9 7
stations Amusement, social, and recreational buildings Other building construction	354 969 509 370 366 032	285 662 429 665 268 497	48 031 52 631 74 316	21 276 ^{\$} 27 075 23 218	16 5 3	20 3 4	14 16 4	12 ^{\$} 54 12
Nonbuilding construction, total	8 272 111	5 175 659	1 744 920	1 351 532	2	3	3	3
of guardrails and signs Private driveways and parking areas Sewers, water mains, and related facilities Sewers, sewer lines, septic systems, and related	3 128 045 421 872 1 388 894	1 929 406 269 736 995 363	822 769 71 269 242 347	375 869 80 868 151 184	2 7 4	2 7 6	3 10 3	3 14 7
Water mains, storage, and related facilities Oil and gas pipelines (except gathering), pumping	797 948 590 947	600 488 394 875	121 705 120 642	75 754 75 429	6 6	7 8	6 3	13 7
stations, storage tanks, and mains Power and communication transmission lines, cables,	229 535	161 781	37 419	30 335	7	6	9	18
towers, and related facilities Power plants Other nonbuilding construction	834 094 491 338 1 778 333	531 310 199 404 1 088 659	158 373 12 263 400 480	144 411 279 671 289 194	6 1 9	10 - 9	6 2 11	7 2 10
Construction work, nsk	1 385 390	1 385 390	-	-	-		-	

¹For 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.

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

Relative standard error of estimate Primary and other kind of business activities Value of business done GEORGIA 2 Total 41 366 986 19 125 383 5 973 316 8 736 427 1 606 160 2 045 145 3 7 3 8 6 6 764 335 Heavy construction and civil engineering construction, total... Subdividing and servicing of raw land into lots, for sale by you ... Highway and street general contractor ... Paving contractor - asphalt or concrete for highways, streets, bridges, or airport runways ... Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines ... Cable and conduit laving contractor. 7 048 854 715 492 2 325 212 688 468 2 246 609 476 183 3 16 1 5 7 4 9 Cable and conduit laying contractor Excavation work, earthmoving or land clearing contractor, not connected with buildings 596 891 Special trade contractors, total Heating, ventilation and air-conditioning contractor (HVAC). Mechanical contractor Plumbing contractor. Painting contractor. Special trade contractors, total 7 897 214 3 12 12 16 15 13 12 6 1 591 647 421 193 1 098 050 1 098 050 445 896 1 681 859 639 422 400 639 408 277 682 529 527 702 5 333 992 3 All other construction activities 576 154 576 154 Other business activities secondary to construction activities, total 4 4 All other business activities secondary to construction activities 1 385 390 12 Kind of business activity, nsk

[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, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

1For 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.

Appendix A. Explanation of Terms

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'

Construction

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, worker's 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. 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.

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 in 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.

- 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, scaf-folding, 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, on-line 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 (BOY) AND END OF YEAR (EOY)

Includes the value of depreciable assets for the beginning of year (BOY) and end of year (EOY). 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 (BOY), 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 (EOY). Depreciable assets are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

CAPITAL EXPENDITURES, OTHER THAN 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.

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.

- 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 nonhazardous 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.

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. Kindof-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

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.

236 CONSTRUCTION OF BUILDINGS

The Construction of Buildings subsector comprises establishments primarily responsible for the construction of buildings. The work performed may include new work, additions, alterations, or maintenance and repairs. The on-site assembly of precut, panelized, and prefabricated buildings and construction of temporary buildings are included in this subsector. Part or all of the production work for which the establishments in this sector have responsibility may be subcontracted to other construction establishments usually specialty trade contractors.

Establishments in this subsector are classified based on the types of buildings they construct. This classification reflects variations in the requirements of the underlying production processes.

2361 RESIDENTIAL BUILDING CONSTRUCTION

This industry group comprises establishments primarily responsible for the construction or remodeling and renovation of single-family and multifamily residential buildings. Included in this industry are residential housing general contractors (i.e., new construction, remodeling or renovating existing residential structures), operative builders and remodelers of residential structures, residential project construction management firms, and residential design-build firms.

23611 RESIDENTIAL BUILDING CONSTRUCTION

This industry comprises establishments primarily responsible for the construction or remodeling and renovation of single-family and multifamily residential buildings. Included in this industry are residential housing general contractors (i.e., new construction, remodeling or renovating existing residential structures), operative builders and remodelers of residential structures, residential project construction management firms, and residential design-build firms.

236115 NEW SINGLE-FAMILY HOUSING CONSTRUCTION (EXCEPT OPERATIVE BUILDERS)

This U.S. industry comprises general contractor establishments primarily responsible for the entire construction of new single-family housing, such as single-family detached houses and town houses or row houses where each housing unit pertains to one or more of the following:

- 1. is separated from its neighbors by a ground-to-roof wall and
- 2. has no housing units constructed above or below.

This industry includes general contractors responsible for the on-site assembly of modular and prefabricated houses. Single-family housing design-build firms and single-family construction management firms acting as general contractors are included in this industry.

236116 NEW MULTIFAMILY HOUSING CONSTRUCTION (EXCEPT OPERATIVE BUILDERS)

This U.S. industry comprises general contractor establishments responsible for the construction of new multifamily residential housing units (e.g., high-rise, garden, and town house apartments and condominiums where each unit is not separated from its neighbors by a ground-to-roof wall). Multifamily design-build firms and multifamily housing construction management firms acting as general contractors are included in this industry.

236117 NEW HOUSING OPERATIVE BUILDERS

This U.S. industry comprises operative builders primarily responsible for the entire construction of new houses and other residential buildings, single-family and multifamily, on their own account for sale. Operative builders are also known as speculative or merchant builders.

236118 RESIDENTIAL REMODELERS

This U.S. industry comprises establishments primarily responsible for the remodeling construction (including additions, alterations, reconstruction, maintenance, and repair work) of houses and other residential buildings (single-family and multifamily). Included in this industry are remodeling general contractors, operative remodelers, remodeling design-build firms, and remodeling project construction management firms.

2362 NONRESIDENTIAL BUILDING CONSTRUCTION

This industry group comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of nonresidential buildings. This industry group includes nonresidential general contractors, nonresidential operative builders, nonresidential design-build firms, and nonresidential project construction management firms.

23621 INDUSTRIAL BUILDING CONSTRUCTION

This industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of industrial buildings (except ware-houses). The construction of selected additional structures, whose production processes are similar to those for industrial buildings (e.g., incinerators, cement plants, blast furnaces, and similar nonbuilding structures), is included in this industry. Included in this industry are industrial building general contractors, industrial building operative builders, industrial building design-build firms, and industrial building construction management firms.

236210 INDUSTRIAL BUILDING CONSTRUCTION

This U.S. industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of industrial buildings (except warehouses). The construction of selected additional structures, whose production processes are similar to those for industrial buildings (e.g., incinerators, cement plants, blast furnaces, and similar nonbuilding structures), is included in this industry. Also included in this industry are industrial building general contractors, industrial building operative builders, industrial building designbuild firms, and industrial building construction management firms.

23622 COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

This industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of commercial and institutional buildings and related structures, such as stadiums, grain elevators, and indoor swimming pools. This industry includes establishments responsible for the on-site assembly of modular or prefabricated commercial and institutional buildings. Included in this industry are commercial and institutional building general contractors, commercial and institutional building operative builders, commercial and institutional building design-build firms, and commercial and institutional building project construction management firms.

236220 COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

This U.S. industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of commercial and institutional buildings and related structures, such as stadiums, grain elevators, and indoor swimming pools. This industry includes establishments responsible for the on-site assembly of modular or prefabricated commercial and institutional buildings. Also included in this industry are commercial and institutional building general contractors, commercial and institutional building operative builders, commercial and institutional building design-build firms, and commercial and institutional building project construction management firms.

237 HEAVY AND CIVIL ENGINEERING CONSTRUCTION

The Heavy and Civil Engineering Construction subsector comprises establishments whose primary activity is the construction of entire engineering projects (e.g., highways and dams), and specialty trade contractors, whose primary activity is the production of a specific component for such

projects. Specialty trade contractors in Heavy and Civil Engineering Construction generally are performing activities that are specific to heavy and civil engineering construction projects and are not normally performed on buildings. The work performed may include new work, additions, alterations, or maintenance and repairs.

Specialty trade activities are classified in this subsector if the skills and equipment present are specific to heavy or civil engineering construction projects. For example, specialized equipment is needed to paint lines on highways. This equipment is not normally used in building applications so the activity is classified in this subsector. Traffic signal installation, while specific to highways, uses much of the same skills and equipment that are needed for electrical work in building projects and is therefore classified in Subsector 238, Specialty Trade Contractors.

Construction projects involving water resources (e.g., dredging and land drainage) and projects involving open space improvement (e.g., parks and trails) are included in this subsector. Establishments whose primary activity is the subdivision of land into individual building lots usually perform various additional site-improvement activities (e.g., road building and utility line installation) and are included in this subsector.

Establishments in this subsector are classified based on the types of structures that they construct. This classification reflects variations in the requirements of the underlying production processes.

2371 UTILITY SYSTEM CONSTRUCTION

This industry group comprises establishments primarily engaged in the construction of distribution lines and related buildings and structures for utilities (i.e., water, sewer, petroleum, gas, power, and communication). All structures (including buildings) that are integral parts of utility systems (e.g., storage tanks, pumping stations, power plants, and refineries) are included in this industry group.

23711 WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION

This industry comprises establishments primarily engaged in the construction of water and sewer lines, mains, pumping stations, treatment plants and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to water and sewer line and related structures construction. All structures (including buildings) that are integral parts of water and sewer networks (e.g., storage tanks, pumping stations, water treatment plants, and sewage treatment plants) are included in this industry.

237110 WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION

This U.S. industry comprises establishments primarily engaged in the construction of water and sewer lines, mains, pumping stations, treatment plants, and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to water and sewer line and related structures construction. All structures (including buildings) that are integral parts of water and sewer networks (e.g., storage tanks, pumping stations, water treatment plants, and sewage treatment plants) are included in this industry.

23712 OIL AND GAS PIPELINE AND RELATED STRUCTURES CONSTRUCTION

This industry comprises establishments primarily engaged in the construction of oil and gas lines, mains, refineries, and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to oil and gas pipeline and related structures construction. All structures (including buildings) that are integral parts of oil and gas networks (e.g., storage tanks, pumping stations, and refineries) are included in this industry.

237120 OIL AND GAS PIPELINE AND RELATED STRUCTURES CONSTRUCTION

This U.S. industry comprises establishments primarily engaged in the construction of oil and gas lines, mains, refineries, and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to oil and gas pipeline and related structures construction. All structures (including buildings) that are integral parts of oil and gas networks (e.g., storage tanks, pumping stations, and refineries) are included in this industry.

23713 POWER AND COMMUNICATION LINE AND RELATED STRUCTURES CONSTRUCTION

This industry comprises establishments primarily engaged in the construction of power lines and towers, power plants, and radio, television, and telecommunications transmitting/receiving towers. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to power and communication line and related structures construction. All structures (including buildings) that are integral parts of power and communication networks (e.g., transmitting towers, substations, and power plants) are included.

237130 POWER AND COMMUNICATION LINE AND RELATED STRUCTURES CONSTRUCTION

This U.S. industry comprises establishments primarily engaged in the construction of power lines and towers, power plants, and radio, television, and telecommunications transmitting/receiving towers. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to power and communication line and related structures construction. All structures (including buildings) that are integral parts of power and communication networks (e.g., transmitting towers, substations, and power plants) are included.

2372 LAND SUBDIVISION

This industry group comprises establishments primarily engaged in servicing land and subdividing real property into lots, for subsequent sale to builders. Servicing of land may include excavation work for the installation of roads and utility lines. The extent of work may vary from project to project. Land subdivision precedes building activity and the subsequent building is often residential, but may also be commercial tracts and industrial parks. These establishments may do all the work themselves or subcontract the work to others. Establishments that perform only the legal subdivision of land are not included in this industry.

23721 LAND SUBDIVISION

This industry comprises establishments primarily engaged in servicing land and subdividing real property into lots, for subsequent sale to builders. Servicing of land may include excavation work for the installation of roads and utility lines. The extent of work may vary from project to project. Land subdivision precedes building activity and the subsequent building is often residential, but may also be commercial tracts and industrial parks. These establishments may do all the work themselves or subcontract the work to others. Establishments that perform only the legal subdivision of land are not included in this industry.

237210 LAND SUBDIVISION

This U.S. industry comprises establishments primarily engaged in servicing land and subdividing real property into lots for subsequent sale to builders. Servicing of land may include excavation work for the installation of roads and utility lines. The extent of work may vary from project to project. Land subdivision precedes building activity and the subsequent building is often residential, but may also be commercial tracts and industrial parks. These establishments may do all the work themselves or subcontract the work to others. Establishments that perform only the legal subdivision of land are not included in this industry.

2373 HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

This industry group comprises establishments primarily engaged in the construction of highways (including elevated), streets, roads, airport runways, public sidewalks, or bridges. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to highway, street, and bridge construction (e.g., installing guardrails on highways).

23731 HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

This industry comprises establishments primarily engaged in the construction of highways (including elevated), streets, roads, airport runways, public sidewalks, or bridges. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to highway, street, and bridge construction (e.g., installing guardrails on highways).

237310 HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

This U.S. industry comprises establishments primarily engaged in the construction of highways (including elevated), streets, roads, airport runways, public sidewalks, or bridges. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to highway, street, and bridge construction (e.g., installing guardrails on highways).

2379 OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION

This industry group comprises establishments primarily engaged in heavy and engineering construction projects (excluding highway, street, bridge, and distribution line construction). The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to engineering construction projects (excluding highway, street, bridge, distribution line, oil and gas structure, and utilities building and structure construction). Construction projects involving water resources (e.g., dredging and land drainage), development of marine facilities, and projects involving open space improvement (e.g., parks and trails) are included in this industry.

23799 OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION

This industry comprises establishments primarily engaged in heavy and engineering construction projects (excluding highway, street, bridge, and distribution line construction). The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to engineering construction projects (excluding highway, street, bridge, distribution line, oil and gas structure, and utilities building and structure construction). Construction projects involving water resources (e.g., dredging and land drainage), development of marine facilities, and projects involving open space improvement (e.g., parks and trails) are included in this industry.

237990 OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION

This U.S. industry comprises establishments primarily engaged in heavy and engineering construction projects (excluding highway, street, bridge, and distribution line construction). The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to engineering construction projects (excluding highway, street, bridge, distribution line, oil and gas structure, and utilities building and structure construction). Construction projects involving water resources (e.g., dredging and land drainage), development of marine facilities, and projects involving open space improvement (e.g., parks and trails) are included in this industry.

238 SPECIALTY TRADE CONTRACTORS

The Specialty Trade Contractors subsector comprises establishments whose primary activity is performing specific activities (e.g., pouring concrete, site preparation, plumbing, painting, and electrical work) involved in building construction or other activities that are similar for all types of

construction but that are not responsible for the entire project. The work performed may include new work, additions, alterations, maintenance, and repairs. The production work performed by establishments in this subsector is usually subcontracted from establishments of the general contractor type or operative builders but, especially in remodeling and repair construction, work also may be done directly for the owner of the property. Specialty trade contractors usually perform most of their work at the construction site, although they may have shops where they perform prefabrication and other work. Establishments primarily engaged in preparing sites for new construction are also included in this subsector.

There are substantial differences in types of equipment, work force skills, and other inputs required by specialty trade contractors. Establishments in this subsector are classified based on the underlying production function for the specialty trade in which they specialize. Throughout the Specialty Trade Contractors subsector, establishments commonly provide both the parts and labor required to complete work. For example, electrical contractors supply the current-carrying and noncurrent-carrying wiring devices that are required to install a circuit. Plumbing, Heating and Air-Conditioning contractors also supply the parts required to complete a contract.

Establishments that specialize in activities primarily related to heavy and civil engineering construction that are not normally performed on buildings, such as the painting of lines on highways are classified in Subsector 237, Heavy and Civil Engineering Construction.

Establishments that are primarily engaged in selling construction materials are classified in Sector 42, Wholesale Trade, or Sector 44-45, Retail Trade, based on the characteristics of the selling unit.

2381 FOUNDATION, STRUCTURE, AND BUILDING EXTERIOR CONTRACTORS

This industry group comprises establishments primarily engaged in the specialty trades needed to complete the basic structure (i.e., foundation, frame, and shell) of buildings. The work performed may include new work, additions, alterations, maintenance, and repairs.

23811 POURED CONCRETE FOUNDATION AND STRUCTURE CONTRACTORS

This industry comprises establishments primarily engaged in pouring and finishing concrete foundations and structural elements. This industry also includes establishments performing grout and shotcrete work. The work performed may include new work, additions, alterations, maintenance, and repairs.

238110 POURED CONCRETE FOUNDATION AND STRUCTURE CONTRACTORS

This U.S. industry comprises establishments primarily engaged in pouring and finishing concrete foundations and structural elements. This industry also includes establishments performing grout and shotcrete work. The work performed may include new work, additions, alterations, maintenance, and repairs.

23812 STRUCTURAL STEEL AND PRECAST CONCRETE CONTRACTORS

This industry comprises establishments primarily engaged in one or more of the following:

- 1. erecting and assembling structural parts made from steel or precast concrete (e.g., steel beams, structural steel components, and similar products of precast concrete); and/or
- 2. assembling and installing other steel construction products (e.g., steel rods, bars, rebar, mesh, and cages) to reinforce poured-in-place concrete.

The work performed may include new work, additions, alterations, maintenance, and repairs.

238120 STRUCTURAL STEEL AND PRECAST CONCRETE CONTRACTORS

This U.S. industry comprises establishments primarily engaged in:

1. erecting and assembling structural parts made from steel or precast concrete (e.g., steel beams, structural steel components, and similar products of precast concrete) and/or

2. assembling and installing other steel construction products (e.g., steel rods, bars, rebar, mesh, and cages) to reinforce poured-in-place concrete.

The work performed may include new work, additions, alterations, maintenance, and repairs.

23813 FRAMING CONTRACTORS

This industry comprises establishments primarily engaged in structural framing and sheathing using materials other than structural steel or concrete. The work performed may include new work, additions, alterations, maintenance, and repairs.

238130 FRAMING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in structural framing and sheathing using materials other than structural steel or concrete. The work performed may include new work, additions, alterations, maintenance, and repairs.

23814 MASONRY CONTRACTORS

This industry comprises establishments primarily engaged in masonry work, stone setting, brick laying, and other stone work. The work performed may include new work, additions, alterations, maintenance, and repairs.

238140 MASONRY CONTRACTORS

This U.S. industry comprises establishments primarily engaged in masonry work, stone setting, brick laying, and other stone work. The work performed may include new work, additions, alterations, maintenance, and repairs.

23815 GLASS AND GLAZING CONTRACTORS

This industry comprises establishments primarily engaged in installing glass panes in prepared openings (i.e., glazing work) and other glass work for buildings. The work performed may include new work, additions, alterations, maintenance, and repairs.

238150 GLASS AND GLAZING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in installing glass panes in prepared openings (i.e., glazing work) and other glass work for buildings. The work performed may include new work, additions, alterations, maintenance, and repairs.

23816 ROOFING CONTRACTORS

This industry comprises establishments primarily engaged in roofing. This industry also includes establishments treating roofs (i.e., spraying, painting, or coating) and installing skylights. The work performed may include new work, additions, alterations, maintenance, and repairs.

238160 ROOFING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in roofing. This industry also includes establishments treating roofs (i.e., spraying, painting, or coating) and installing skylights. The work performed may include new work, additions, alterations, maintenance, and repairs.

23817 SIDING CONTRACTORS

This industry comprises establishments primarily engaged in installing siding of wood, aluminum, vinyl or other exterior finish material (except brick, stone, stucco, or curtain wall). This industry also includes establishments installing gutters and downspouts. The work performed may include new work, additions, alterations, maintenance, and repairs.

238170 SIDING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in installing siding of wood, aluminum, vinyl, or other exterior finish material (except brick, stone, stucco, or curtain wall). This industry also includes establishments installing gutters and downspouts. The work performed may include new work, additions, alterations, maintenance, and repairs.

23819 OTHER FOUNDATION, STRUCTURE, AND BUILDING EXTERIOR CONTRACTORS

This industry comprises establishments primarily engaged in building foundation and structure trades work (except poured concrete, structural steel, precast concrete, framing, masonry, glass and glazing, roofing, and siding). The work performed may include new work, additions, alterations, maintenance, and repairs.

238190 OTHER FOUNDATION, STRUCTURE, AND BUILDING EXTERIOR CONTRACTORS

This U.S. industry comprises establishments primarily engaged in building foundation and structure trades work (except poured concrete, structural steel, precast concrete, framing, masonry, glass and glazing, roofing, and siding). The work performed may include new work, additions, alterations, maintenance, and repairs.

2382 BUILDING EQUIPMENT CONTRACTORS

This industry group comprises establishments primarily engaged in installing or servicing equipment that forms part of a building mechanical system (e.g., electricity, water, heating, and cooling). The work performed may include new work, additions, alterations, or maintenance and repairs. Contractors installing specialized building equipment, such as elevators, escalators, service station equipment, and central vacuum cleaning systems are also included.

23821 ELECTRICAL CONTRACTORS

This industry comprises establishments primarily engaged in installing and servicing electrical wiring and equipment. Electrical contractors included in this industry may include both the parts and labor when performing work. Electrical contractors may perform new work, additions, alterations, maintenance, and repairs.

238210 ELECTRICAL CONTRACTORS

This U.S. industry comprises establishments primarily engaged in installing and servicing electrical wiring and equipment. Electrical contractors included in this industry may include both the parts and labor when performing work. Electrical contractors may perform new work, additions, alterations, maintenance, and repairs.

23822 PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS

This industry comprises establishments primarily engaged in installing and servicing plumbing, heating, and air-conditioning equipment. Contractors in this industry may provide both parts and labor when performing work. The work performed may include new work, additions, alterations, maintenance, and repairs.

238220 PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in installing and servicing plumbing, heating, and air-conditioning equipment. Contractors in this industry may provide both parts and labor when performing work. The work performed may include new work, additions, alterations, maintenance, and repairs.

23829 OTHER BUILDING EQUIPMENT CONTRACTORS

This industry comprises establishments primarily engaged in installing or servicing building equipment (except electrical; plumbing; heating, cooling, or ventilation equipment). The repair and maintenance of miscellaneous building equipment is included in this industry. The work performed may include new work, additions, alterations, maintenance, and repairs.

238290 OTHER BUILDING EQUIPMENT CONTRACTORS

This U.S. industry comprises establishments primarily engaged in installing or servicing building equipment (except electrical; plumbing; and heating, cooling, or ventilation equipment). The repair and maintenance of miscellaneous building equipment is included in this industry. The work performed may include new work, additions, alterations, maintenance, and repairs.

2383 BUILDING FINISHING CONTRACTORS

This industry group comprises establishments primarily engaged in the specialty trades needed to finish buildings. The work performed may include new work, additions, alterations, or maintenance and repairs.

23831 DRYWALL AND INSULATION CONTRACTORS

This industry comprises establishments primarily engaged in drywall, plaster work, and building insulation work. Plaster work includes applying plain or ornamental plaster, and installation of lath to receive plaster. The work performed may include new work, additions, alterations, maintenance, and repairs.

238310 DRYWALL AND INSULATION CONTRACTORS

This U.S. industry comprises establishments primarily engaged in drywall, plaster work, and building insulation work. Plaster work includes applying plain or ornamental plaster, and installation of lath to receive plaster. The work performed may include new work, additions, alterations, maintenance, and repairs.

23832 PAINTING AND WALL COVERING CONTRACTORS

This industry comprises establishments primarily engaged in interior or exterior painting or interior wall covering. The work performed may include new work, additions, alterations, maintenance, and repairs.

238320 PAINTING AND WALL COVERING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in interior or exterior painting or interior wall covering. The work performed may include new work, additions, alterations, maintenance, and repairs.

23833 FLOORING CONTRACTORS

This industry comprises establishments primarily engaged in the installation of resilient floor tile, carpeting, linoleum, and hard wood flooring. The work performed may include new work, additions, alterations, maintenance, and repairs.

238330 FLOORING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in the installation of resilient floor tile, carpeting, linoleum, and hard wood flooring. The work performed may include new work, additions, alterations, maintenance, and repairs.

23834 TILE AND TERRAZZO CONTRACTORS

This industry comprises establishments primarily engaged in setting and installing ceramic tile, stone (interior only), and mosaic and/or mixing marble particles and cement to make terrazzo at the job site. The work performed may include new work, additions, alterations, maintenance, and repairs.

238340 TILE AND TERRAZZO CONTRACTORS

This U.S. industry comprises establishments primarily engaged in setting and installing ceramic tile, stone (interior only), and mosaic and/or mixing marble particles and cement to make terrazzo at the job site. The work performed may include new work, additions, alterations, maintenance, and repairs.

23835 FINISH CARPENTRY CONTRACTORS

This industry comprises establishments primarily engaged in finish carpentry work. The work performed may include new work, additions, alterations, maintenance, and repairs.

238350 FINISH CARPENTRY CONTRACTORS

This U.S. industry comprises establishments primarily engaged in finish carpentry work. The work performed may include new work, additions, alterations, maintenance, and repairs.

23839 OTHER BUILDING FINISHING CONTRACTORS

This industry comprises establishments primarily engaged in building finishing trade work (except drywall, plaster and insulation work; painting and wall covering work; flooring work; tile and terrazzo work; and finish carpentry work). The work performed may include new work, additions, alterations, or maintenance and repairs.

238390 OTHER BUILDING FINISHING CONTRACTORS

This U.S. industry comprises establishments primarily engaged in building finishing trade work (except drywall, plaster and insulation work; painting and wall covering work; flooring work; tile and terrazzo work; and finish carpentry work). The work performed may include new work, additions, alterations, or maintenance and repairs.

2389 OTHER SPECIALTY TRADE CONTRACTORS

This industry group comprises establishments primarily engaged in site preparation activities and in specialized trades (except foundation, structure, and building exterior contractors; building equipment contractors; building finishing contractors; and site preparation contractors). The specialty trade work performed includes new work, additions, alterations, maintenance, and repairs.

23891 SITE PREPARATION CONTRACTORS

This industry comprises establishments primarily engaged in site preparation activities, such as excavating and grading, demolition of buildings and other structures, septic system installation, and house moving. Earth moving and land clearing for all types of sites (e.g., building, nonbuilding, mining) is included in this industry. Establishments primarily engaged in construction equipment rental with operator (except cranes) are also included.

238910 SITE PREPARATION CONTRACTORS

This U.S. industry comprises establishments primarily engaged in site preparation activities, such as excavating and grading, demolition of buildings and other structures, septic system installation, and house moving. Earth moving and land clearing for all types of sites (e.g., building, non-building, mining) is included in this industry. Establishments primarily engaged in construction equipment rental with operator (except cranes) are also included.

23899 ALL OTHER SPECIALTY TRADE CONTRACTORS

This industry comprises establishments primarily engaged in specialized trades (except foundation, structure, and building exterior contractors; building equipment contractors; building finishing contractors; and site preparation contractors). The specialty trade work performed includes new work, additions, alterations, maintenance, and repairs.

238990 ALL OTHER SPECIALTY TRADE CONTRACTORS

This U.S. industry comprises establishments primarily engaged in specialized trades (except foundation, structure, and building exterior contractors; building equipment contractors; building finishing contractors; and site preparation contractors). The specialty trade work performed includes new work, additions, alterations, maintenance, and repairs.

Appendix C. Methodology

SOURCES OF THE DATA

The construction sector includes approximately 650,000 establishments that were detemined 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/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at 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 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:

- 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-proportionateto-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:

- From one standard error below to one standard error above the derived estimate for about twothirds 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 error 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.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.