Floor Laying and Other Floor Contractors

1997

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1997 Economic Census *Construction* Industry Series



Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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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 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.

ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of the following NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information

- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste
 - Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 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), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

RELATIONSHIP TO SIC

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 industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

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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 Internal Revenue Service tax forms is used as a basis for coding.

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.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 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.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

All results of the 1997 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

Special Tabulations

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) that govern the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

| Manufacturing and Construction Division | 301-457-4673 |
|---|--------------|
| Service Sector Statistics Division | 301-457-2668 |

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 covering service trades in 1933. Censuses of construction, manufacturing, and the other business service 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, 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 questionnaires.

The range of industries covered in the economic censuses expanded between 1967 and 1992. 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.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of longterm time series and are available in some large libraries. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including 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 each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census 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.
- Q Revenue not collected at this level of detail for multiestablishment firms.
- S Withheld because estimates did not meet publication standards.

- V Represents less than 50 vehicles or .05 percent.
- X Not applicable.
- Y Disclosure withheld because of insufficient coverage of merchandise lines.
- Z Less than half the unit shown.
- a 0 to 19 employees.
- b 20 to 99 employees.
- c 100 to 249 employees.
- e 250 to 499 employees.
- f 500 to 999 employees.
- g 1,000 to 2,499 employees.
- h 2,500 to 4,999 employees.
- i 5,000 to 9,999 employees.
- j 10,000 to 24,999 employees.
- k 25,000 to 49,999 employees.
- l 50,000 to 99,999 employees.
- m 100,000 employees or more.
- p 10 to 19 percent estimated.
- q 20 to 29 percent estimated.
- r Revised.
- s Sampling error exceeds 40 percent.
- nec Not elsewhere classified.
- nsk Not specified by kind.
- Represents zero (page image/print only).
- (CC) Consolidated city.
- (IC) Independent city.

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Construction

SCOPE

Construction, sector 23, includes establishments primarily engaged in construction work that have one or more paid employees. Construction work includes new construction work, additions, alterations, and repairs. Establishments identified as construction management firms are also included. The construction sector is divided into three types of activity or subsectors.

The Building, Developing, and General Contracting subsector includes establishments responsible for the construction of building projects. Builders, developers, and general contractors, as well as land subdividers and land developers are included in the subsector. The construction work may be done for others and performed by custom builders, general contractors, design builders, or turnkey contractors. This construction activity may be for sale as performed by speculative or operative builders.

The Heavy Construction subsector includes establishments engaged in the construction of heavy engineering and industrial projects (except buildings) such as highways, power plants, and pipelines. Establishments in this subsector usually assume responsibility for entire nonbuilding projects, but may subcontract some or all of the actual construction work. Special trade contractors are included in this group if they are engaged in activities primarily related to heavy construction such as grading for highways. Kinds of establishments include heavy construction general contractors, and design builders.

The Special Trade Contractors subsector includes establishments engaged in specialized construction activities such as plumbing, painting, and electrical work. The activities in this subsector may be subcontracted from builders or general contractors, or the work may be performed directly for project owners. Special trade contractors usually perform most of their work at the job site, although they may have shops where they perform prefabrication and other work.

GENERAL

A list of publications that provide statistics on construction, sector 23, follows.

Industry reports. There are 28 separate industry reports. They present data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in

Appendix B. These reports include statistics such as number of establishments, employment, payroll, value added, cost of materials, value of business done, and capital expenditures. Explanations of these and other terms may be found in Appendix A. The industry reports also include selected statistics for states.

Geographic area reports. There is a separate report for each state, the District of Columbia, and the United States. They present statistics similar to the industry reports for each state. They also present selected six-digit NAICS level data.

Subject reports. The Industry series, U.S. Summary, and Geographic Area series, U.S. Summary, reports present selected statistics from the individual industry and geographic area reports, as well as higher level aggregations.

GEOGRAPHIC AREAS COVERED

The area reports for the construction industries contain state and regional level data. No substate data are available.

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 regions are made up of groups of states as follows:

NORTHEAST

Connecticut Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont

MIDWEST

Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska

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North Dakota Ohio South Dakota Wisconsin

SOUTH

Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia

WEST

Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon Utah Washington Wyoming

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) had a major impact on the comparability of data between the 1992 and 1997 censuses. Less than half of the industries in the construction sector of NAICS have comparable industries in the Standard Industrial Classification (SIC) system that was used for past censuses. Because of the lack of comparable data, historic data are not shown for this sector.

Lead paint removal and asbestos abatement left the construction sector with the introduction of NAICS. Many changes took place within the sector, or from business activity coming into the sector. Much of the change came from adding management services to each of the construction industries in the building, developing, and general contracting subsector and the heavy construction subsector. Also, land subdividers and developers, and rental of construction equipment with an operator were added to the sector.

Another change is that data for establishments with no employees are no longer included in the construction reports, but are available in other report series.

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 classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld. Suppressed data are included in higher-level totals.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The County Business Patterns program of the U.S. Census Bureau offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county and state.

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 which are normally not reflected in construction sector census data.

Data contained in the 1997 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.

Table 1. 1997 Data Showing the Derivation of the NAICS Classification Based on the SIC Classification

[NAICS codes appear in bold type. Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For a more detailed title for each SIC code shown, see Appendix F]

| NAICS and SIC code | Industry | Number of estab- lishments | Total number of employees | Payroll, all employees | Value of construction work | Net value of construction work | Value added | Cost of materials, components, supplies, and fuels | Capital expenditures, other than land |
|--------------------------|--|----------------------------------|---------------------------------|---------------------------|----------------------------------|--------------------------------------|----------------|--|---|
| | | А | В | С | D | E | F | G | н |
| 235520 | Floor laying & other floor contractors | 12 078 | 60 533 | 1 672 303 | 6 675 721 | 6 042 611 | 3 455 155 | 2 727 249 | 75 917 |
| 175200 | Floor laying & other floor work special trade contractors, n.e.c | 12 078 | 60 533 | 1 672 303 | 6 675 721 | 6 042 611 | 3 455 155 | 2 727 249 | 75 917 |

Table 2. Employment Statistics for Establishments With Payroll by State: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. * Indicates geographic change, but not applicable to this sector. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| | | Number of | employees | Nu | Imber of cons | truction worke | rs | Payr (thousand | | Relative standard |
|--|--|--|--|--|--|--|---|--|--|--|
| Location of establishment | Number of estab- lishments | All | Con- struction workers | January to March | April to June | July to September | October to December | All employees | Construction workers | error of estimate (percent) for column— |
| | А | В | С | D | E | F | G | н | I | В |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | |
| United States | 12 078 | 60 533 | 42 663 | 40 272 | 41 674 | 45 413 | 43 293 | 1 672 303 | 1 029 921 | 1 |
| Alabama | 160 *30 236 *57 1 519 281 166 55 8 509 | 687 73 1 542 220 9 466 2 060 910 275 97 1 969 | 485 41 1 115 155 6 929 1 417 668 225 71 1 150 | 434 41 1 089 150 6 469 1 453 525 235 63 1 082 | 467 39 1 097 49 6 692 1 409 676 227 71 1 103 | 495 43 1 114 163 7 372 1 397 786 232 77 1 278 | 544 39 1 160 158 7 182 1 409 684 206 75 1 137 | $\begin{array}{c} 18 & 178 \\ 2 & 362 \\ 41 & 803 \\ 5 & 150 \\ 272 & 059 \\ 61 & 685 \\ 26 & 516 \\ 6 & 051 \\ 2 & 895 \\ 52 & 272 \end{array}$ | 10 606 830 24 253 3 108 172 357 40 335 18 774 4 597 1 601 27 953 | 9 17 11 14 3 8 10 14 14 7 |
| Georgia | 284 62 88 576 248 133 149 157 128 74 | 1 258 349 319 3 430 1 086 505 723 647 731 309 | 818 246 237 2 460 663 382 501 493 502 232 | 827 241 210 2 092 598 334 461 493 520 244 | 840 248 214 2 420 601 375 477 468 481 226 | 852 257 277 2 735 713 425 517 532 540 221 | 753 240 249 2 593 397 549 480 480 467 235 | 34 881 11 092 6 413 108 841 32 004 11 860 18 045 13 975 15 786 7 872 | 18 061 7 238 3 906 75 092 16 275 7 176 11 730 10 132 9 442 5 022 | 12 6 14 7 10 14 5 11 27 |
| Maryland | 301 251 413 263 81 242 42 116 82 36 | 2 081 1 250 1 669 1 355 243 1 881 55 360 1 147 187 | 1 344 800 1 107 1 016 190 1 405 40 232 978 127 | 1 278 781 1 033 881 195 1 327 40 174 998 124 | 1 295 819 1 082 953 160 1 379 42 226 974 131 | 1 439 829 1 153 1 120 217 1 472 37 278 975 133 | 1 364 770 1 162 1 110 188 1 443 40 249 967 121 | 58 255 40 316 48 929 38 919 ^{\$} 7 609 52 720 744 7 762 27 075 5 571 | 29 324 21 276 28 045 26 889 \$6 677 32 726 505 4 978 20 233 3 057 | 6 11 8 12 7 7 10 17 21 9 |
| New Jersey . New Mexico New York . North Carolina . North Dakota Ohio . Oklahoma Oregon . Pennsylvania Rhode Island . | 424 \$50 720 444 372 83 344 491 \$48 | 2 009 143 3 465 1 943 71 2 440 336 1 169 2 025 128 | 1 283 117 2 300 1 552 56 1 785 246 890 1 358 98 | 1 177 143 2 085 1 514 47 1 679 238 869 1 276 82 | 1 248 119 2 289 1 514 45 1 737 247 970 1 297 105 | 1 364 111 2 507 1 635 66 1 911 245 902 1 486 119 | 1 342 96 2 318 1 543 66 1 813 255 820 1 373 ^{\$} 86 | 65 465 3 635 97 189 47 283 1 352 69 198 6 948 26 963 58 739 2 890 | 37 082 2 488 51 078 33 974 4 015 4 578 19 111 37 284 2 236 | 5 24 6 11 9 7 19 12 5 28 |
| South Carolina | 227 8 165 442 99 33 390 486 67 371 ₅33 | 579 56 680 2 764 311 74 2 057 1 698 210 1 446 43 | 459 41 501 1 719 228 60 1 358 1 222 180 1 145 \$39 | 459 36 503 1 850 226 61 1 238 1 141 164 1 057 41 | 452 36 508 1 680 209 63 1 323 1 193 176 1 090 \$34 | 498 52 547 1 702 242 58 1 508 1 288 198 1 253 44 | 426 40 447 1 646 234 59 1 363 1 262 1 82 1 181 °36 | 10 383 1 117 16 254 75 460 7 235 1 191 55 353 43 428 3 290 40 462 829 | 8 346 927 11 031 37 928 5 401 1 074 29 187 29 352 2 617 28 380 D | 18 7 11 7 15 14 10 8 11 5 36 |

CONSTRUCTION-INDUSTRY SERIES

Table 3. General Statistics for Establishments With Payroll by State: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. * Indicates geographic change, but not applicable to this sector. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| Location of establishment | Value of construction work | Net value of construction work | Value added | Cost of materials, components, supplies, and fuels | Cost of construction work subcontracted out to others | Rental cost of machinery, equipment, and buildings | Capital expenditures, other than land | End-of-year gross book value of depreciable assets | standa of es (perce | ative Ird error timate ent) for mn— |
|--|--|--|--|--|--|--|--|---|--|---|
| | А | В | С | D | E | F | G | н | В | G |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | |
| United States | 6 675 721 | 6 042 611 | 3 455 155 | 2 727 249 | 633 111 | 95 018 | 75 917 | 649 222 | 1 | 4 |
| Alabama Alaska Arizona Arkansas Colorado Connecticut Delaware District of Columbia Florida | 84 530 12 235 153 946 19 211 1 071 113 222 531 114 930 21 718 10 539 234 753 | 80 540 11 384 128 042 18 475 962 402 204 916 101 789 20 733 8 149 201 886 | 49 134 7 021 66 402 12 304 540 212 108 694 58 228 13 411 4 651 108 561 | 33 597 4 363 67 109 6 734 441 030 99 003 48 140 D D 101 586 | 3 990 851 *25 905 736 108 711 17 614 13 140 985 2 390 32 867 | 801 120 2 223 203 20 779 2 977 788 225 242 4 002 | 241 80 5 741 12 620 2 145 S S D 1 824 | 9 726 1 687 14 772 3 386 90 030 17 276 11 424 2 013 1 448 20 000 | 15 13 17 3 7 10 13 9 | 9 Z S 39 9 9 S D 14 |
| Georgia Hawaii * Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine | 181 019 30 577 24 272 396 207 135 338 41 542 63 727 51 605 62 710 28 478 | 153 825 28 286 21 763 374 199 121 558 39 358 57 194 46 767 57 101 24 106 | 81 002 18 062 13 191 233 317 67 669 20 906 30 756 28 200 32 167 15 324 | 80 822 11 465 D 142 957 55 948 19 476 26 940 21 344 26 638 D | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2 444 538 508 5 168 1 336 357 755 586 \$1 089 \$883 | 1 970 754 82 6 043 1 357 564 747 631 666 244 | S 7 822 2 088 46 181 13 277 4 171 5 912 5 401 5 896 2 781 | 12 3 12 5 4 9 18 4 11 14 | 13 2 17 17 11 6 24 9 12 7 |
| Maryland | 286 502 185 095 198 445 122 349 9 667 172 514 \$4 570 38 553 82 648 32 099 | 244 902 162 619 181 914 118 097 9 117 165 392 ^{\$4} 570 34 372 78 978 27 086 | $\begin{array}{c} 127 \ 862 \\ 106 \ 405 \\ 103 \ 970 \\ 77 \ 961 \\ 7 \ 273 \\ 104 \ 432 \\ {}^{\$}2 \ 552 \\ 14 \ 335 \\ 54 \ 716 \\ 16 \ 266 \end{array}$ | 118 572 57 476 83 507 44 301 66 786 \$2 019 21 615 27 067 10 820 | 41 600 22 476 16 532 *520 *550 S - 4 181 3 670 5 013 | 4 306 959 3 149 \$2 241 \$221 2 137 \$ 538 1 415 \$ | 4 236 \$2 224 2 172 2 803 \$92 1 877 25 682 80 | 25 190 13 307 18 169 \$22 035 \$1 718 13 552 190 4 779 6 843 1 251 | 9 12 8 11 17 4 52 13 16 17 | 19 52 17 37 65 2 24 22 3 32 |
| New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island | 249 311 20 718 425 821 188 171 5 610 248 706 23 995 89 028 238 009 14 203 | $\begin{array}{cccc} 230 & 034 \\ 17 & 868 \\ 390 & 903 \\ 168 & 874 \\ 5 & 406 \\ 224 & 141 \\ 21 & 436 \\ 84 & 582 \\ 216 & 286 \\ 13 & 659 \end{array}$ | 138 189 8 908 195 391 89 006 3 643 122 847 10 773 5 955 128 176 8 148 | 95 697 8 960 202 118 82 386 1 780 106 615 11 124 31 934 105 425 D | $\begin{array}{c} 19 & 277 \\ \$2 & 850 \\ 34 & 918 \\ 19 & 207 \\ 204 \\ 24 & 565 \\ 2 & 559 \\ 4 & 445 \\ 21 & 723 \\ \$544 \end{array}$ | 3 839 129 5 756 2 156 60 3 624 152 1 481 3 019 41 | 1 996 S 4 060 2 314 \$27 2 770 \$81 906 2 959 75 | 19 919 1 614 35 210 23 997 503 24 090 2 478 8 688 27 223 ^{\$} 1 437 | 5 24 7 9 7 4 15 11 6 29 | 18 S 11 17 43 11 41 25 16 22 |
| South Carolina | 52 352 2 320 60 090 353 142 27 688 7 341 235 702 178 758 *18 723 139 877 2 736 | 44 961 2 243 54 213 320 539 26 498 6 990 208 500 160 799 [⇒] 18 406 134 101 2 655 | 26 425 1 951 36 141 178 155 12 987 3 090 117 076 101 588 5 999 85 877 *1 844 | 18 602 D 20 329 143 862 4 268 95 299 62 992 D 50 619 811 | 7 391 77 S 32 603 1 191 351 27 202 17 960 \$317 5 776 \$80 | ^{\$} 236 24 694 4 352 209 \$ 3 243 2 442 115 1 942 \$15 | 772 S 733 2 617 \$485 1 61 2 768 1 801 765 2 315 D | 6 414 91 7 416 26 617 4 259 1 280 27 252 14 992 1 513 21 793 501 | 18 5 13 5 19 15 9 7 50 50 37 | 34 S 22 10 45 22 20 16 3 21 D |

Table 4. Detailed Statistics for Establishments With Payroll: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| ltem | Value | Relative standard error of estimate (percent) | ltem | Value | Relative standard error of estimate (percent) |
|---|------------------------|--|--|-----------------------------------|--|
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS—Con. | | |
| Number of establishments in business during year | 12 078 | 1 | Selected costs Cost of materials, components, and supplies Cost of construction work subcontracted out to others | 3 360 360 2 629 307 633 111 | 2 2 4 |
| Number of proprietors and working partners | 6 298 | 3 | Cost of natural gas and manufactured gas | 97 942 33 037 5 169 | 2 2 3 |
| Total number of employees | 60 533 | 1 | Cost of gasoline and diesel fuel Cost of on-highway use of gasoline and diesel fuel Cost of off-highway use of gasoline and diesel fuel | 57 722 52 987 4 735 | 3 4 6 |
| Number of construction workers in March | 40 272 | 2 | Cost of all other fuels and lubricants | 2 014 | 9 |
| Number of construction workers in May | 41 674 45 413 | 2 | Rental cost for machinery, equipment, and buildings | 95 018 | 5 |
| Number of construction workers in August | 43 293 | 2 | Rental cost for machinery and equipment | 24 004 | 5 |
| Average number of construction workers | 42 663 | 2 | Rental cost for buildings | 71 013 | 6 |
| | | | Selected purchased services | 97 679 | 2 3 |
| Number of other employees in March | 18 948 | 2 | Purchased communication services | 51 560 | 3 |
| Number of other employees in March | 17 518 | 2 | Cost of repairs to buildings and other structures | 6 926 | 8 |
| Number of other employees in August | 17 315 | 2 | Cost of repairs to machinery and equipment | 39 193 | 4 |
| Number of other employees in November | 17 701 | 2 | Value of construction work | 6 675 721 | 1 |
| Average number of other employees | 17 870 | 2 | Value of construction work on government owned projects Value of construction work on federally owned projects Value of construction work on state and locally owned | 997 037 232 253 | 3 3 |
| Payroll, all employees | 1 672 303 | 1 | projects | 764 784 | 1 |
| Payroll, construction workers | 1 029 921 | 1 | Value of construction work on privately owned projects | 5 678 684 | 2 |
| Payroll, other employees | 642 382 | 2 | | 601 100 | 3 |
| | | | Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land | 75 917 | 3 |
| First-quarter payroll, all employees | 368 472 | 1 | Retirements and disposition of depreciable assets | 27 795 | 5 |
| Esta esta harra fita de la constance de | 0.40, 070 | | End-of-year gross book value of depreciable assets | 649 222 | 3 |
| Fringe benefits, all employees | 340 670 221 021 | 2 | Depreciation charges during year | 74 678 | 3 |
| Voluntary expenditures | 119 649 | 2 | | | - |
| | | - | Number of establishments with inventories | 3 645 | 4 |
| Malua af husing a share | 0.045.544 | | Value of construction work for establishments with inventories | 3 849 493 | 2 |
| Value of business done Value of construction work | 6 815 514 6 675 721 | 1 | End of 1997, inventories of materials and supplies End of 1996, inventories of materials and supplies | 157 054 149 178 | 4 |
| Value of construction work subcontracted in from others | 4 213 135 | 2 | | | 3 |
| Other business receipts | 139 793 | 9 | Number of establishments with no inventories | 4 052 | 4 |
| | | | Value of construction work for establishments with no inventories | 1 210 738 | 5 |
| Net value of construction | 6 042 611 | 1 | | | , |
| | | | Number of establishments not reporting inventories | 4 381 | 4 |
| Value added | 3 455 155 | 2 | inventories | 1 615 491 | 4 |

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1997

| Number of estab- lishments | Total number of em- ployees | Total payroll | Dollar value of business done | Value of construction work | Net value of construction work | Value added | Cost of materials, components, supplies, and fuels | Cost of construction work subcontracted out to others | standa of es (perce | ative Ird error timate ent) for mn— |
|----------------------------------|---|---|--|---|--|---|---|---|--|---|
| А | В | С | D | E | F | G | н | I | В | F |
| | | | | | | | | | | |
| 12 078 | 60 533 | 1 672 303 | 6 815 514 | 6 675 721 | 6 042 611 | 3 455 155 | 2 727 249 | 633 111 | 1 | 1 |
| 8 823 | 14 548 | 285 291 | 1 384 366 | 1 339 951 | 1 205 973 | 780 931 | 469 457 | 133 978 | 3 | 4 |
| 1 753 | 11 102 | 271 894 | 1 124 402 | 1 109 042 | 1 013 300 | 623 564 | 405 096 | 95 742 | 5 | 5 |
| 933 | 12 219 | 337 717 | 1 424 101 | 1 403 140 | 1 240 167 | 691 908 | 569 220 | 162 973 | 5 | 5 |
| 476 | 13 966 | 458 928 | 1 772 206 | 1 726 985 | 1 550 435 | 836 589 | 759 068 | 176 549 | 3 | 1 |
| 70 | 4 913 | 184 819 | 622 966 | 611 075 | 580 636 | 272 303 | 320 224 | 30 439 | Z | z |
| 20 | 2 871 | 98 474 | 369 361 | D | 335 626 | 185 427 | D | D | Z | z |
| 3 | 915 | 35 180 | 118 112 | D | 116 474 | 64 433 | D | D | Z | z |
| - | - | - | - | | | - | | | - | |
| | estab- lishments A 12 078 8 823 1 753 933 476 70 20 3 3 - | Number of of employees A B 12 078 60 533 8 823 14 548 1 753 11 102 933 12 219 476 13 966 70 4 913 20 2 871 3 915 - - | Number of em- ployees Total payroll A B Total payroll A B C Ita ora Go 533 It 672 303 B 60 533 It 672 303 B 823 It 548 285 291 Ita 753 Ita 102 271 894 933 Ita 219 337 717 476 Ita 966 458 928 70 4 913 184 819 20 2 871 98 474 3 915 35 180 | Number of estab- lishments number of em- ployees Total payroll Dollar value of business done A B Total payroll Dollar value of business done 12 078 60 533 1 672 303 6 815 514 12 078 60 533 1 672 303 6 815 514 8 823 14 548 285 291 1 384 366 1 753 111 102 271 894 1 124 402 933 12 219 337 717 1 424 101 476 13 966 458 928 1 772 206 70 4 913 184 819 622 966 20 2 871 98 474 369 361 3 915 35 180 118 112 - - | Number of estab- lishments number of em- ployees Total payroll Dollar value of business done Value of construction work A B C D E 12 078 60 533 1 672 303 6 815 514 6 675 721 8 823 14 548 285 291 1 384 366 1 339 951 1 753 11 102 271 894 1 124 402 1 109 042 933 12 219 337 717 1 424 101 1 403 140 476 13 966 458 928 1 772 206 611 075 20 2 871 98 474 369 361 D 3 915 35 180 118 112 D - - - - </td <td>Number of estab- ployees number of em- ployees Total payroll Dollar value of business done Value of construction Net value of construction A B C D E F 12 078 60 533 1 672 303 6 815 514 6 675 721 6 042 611 8 823 14 548 285 291 1 384 366 1 339 951 1 205 973 1 753 11 102 271 894 1 124 402 1 109 042 1 013 300 933 12 219 337 717 1 424 101 1 403 140 1 240 167 476 13 966 458 928 1 772 206 6 611 075 580 636 70 4 913 184 819 622 966 611 075 580 636 20 2 871 98 474 369 361 D 335 626 3 915 35 180 118 112 D 116 474 - - - - - -</td> <td>Number of lishments number of em- ployees Total payroll Dollar value of business done Value of construction work Net value of construction work Net value of construction work Value of construction work Net value of construction work Value of construction Net value of construction Value of c</td> <td>Number of estab- lishmentsTotal number of em ployeesTotal payrollDollar value of business doneValue of construction workNet value of construction workNet value of value dem workMet value of value dem workNet value of value dem workNet value of construction workNet value of value dem workNet value of value dem workNet value of value dem workNet value of value dem workNet value of construction workNet value of value dem workNet value of value dem dem dem demNet value of value dem de</td> <td>Number estab- ishmentsTotal ployeesDollar total payrolDollar value of business doneValue of constructionNet value of valueNet value of constructionNet value of constructionNet value of valueNet value of constructionNet value of constructionNet value of valueNet value of value<td>Number of estab- lishments Total polyces Total payroll Dollar value of business done Value of construction work Net value of construction work Net value of construction work Value added Subenitation subenitation subenitation subenitation subenitation subenitation of estab- subenitation Construction of estab- subenitation Value of subenitation subenitation subenitation subenitation Subenitation subenitation subenitation Subenitation subenitation subenitation A B C D E F G H I B 12 078 60 533 1 672 303 6 815 514 6 675 721 6 042 611 3 455 155 2 727 249 633 111 1 8 823 14 548 285 291 1 384 366 1 339 951 1 205 973 780 931 469 457 133 978 3 1 753 11 102 271 894 1 124 402 1 109 042 1 013 300 623 564 405 966 95 742 5 933 12 219 337 717 1 424 101 1 403 140 1 240 167 691 908 569 220 162 973 5 476 13 966 <td< td=""></td<></td></td> | Number of estab- ployees number of em- ployees Total payroll Dollar value of business done Value of construction Net value of construction A B C D E F 12 078 60 533 1 672 303 6 815 514 6 675 721 6 042 611 8 823 14 548 285 291 1 384 366 1 339 951 1 205 973 1 753 11 102 271 894 1 124 402 1 109 042 1 013 300 933 12 219 337 717 1 424 101 1 403 140 1 240 167 476 13 966 458 928 1 772 206 6 611 075 580 636 70 4 913 184 819 622 966 611 075 580 636 20 2 871 98 474 369 361 D 335 626 3 915 35 180 118 112 D 116 474 - - - - - - | Number of lishments number of em- ployees Total payroll Dollar value of business done Value of construction work Net value of construction work Net value of construction work Value of construction work Net value of construction work Value of construction Net value of construction Value of c | Number of estab- lishmentsTotal number of em ployeesTotal payrollDollar value of business doneValue of construction workNet value of construction workNet value of value dem workMet value of value dem workNet value of value dem workNet value of construction workNet value of value dem workNet value of value dem workNet value of value dem workNet value of value dem workNet value of construction workNet value of value dem workNet value of value dem dem dem demNet value of value dem de | Number estab- ishmentsTotal ployeesDollar total payrolDollar value of business doneValue of constructionNet value of valueNet value of constructionNet value of constructionNet value of valueNet value of constructionNet value of constructionNet value of valueNet value of value <td>Number of estab- lishments Total polyces Total payroll Dollar value of business done Value of construction work Net value of construction work Net value of construction work Value added Subenitation subenitation subenitation subenitation subenitation subenitation of estab- subenitation Construction of estab- subenitation Value of subenitation subenitation subenitation subenitation Subenitation subenitation subenitation Subenitation subenitation subenitation A B C D E F G H I B 12 078 60 533 1 672 303 6 815 514 6 675 721 6 042 611 3 455 155 2 727 249 633 111 1 8 823 14 548 285 291 1 384 366 1 339 951 1 205 973 780 931 469 457 133 978 3 1 753 11 102 271 894 1 124 402 1 109 042 1 013 300 623 564 405 966 95 742 5 933 12 219 337 717 1 424 101 1 403 140 1 240 167 691 908 569 220 162 973 5 476 13 966 <td< td=""></td<></td> | Number of estab- lishments Total polyces Total payroll Dollar value of business done Value of construction work Net value of construction work Net value of construction work Value added Subenitation subenitation subenitation subenitation subenitation subenitation of estab- subenitation Construction of estab- subenitation Value of subenitation subenitation subenitation subenitation Subenitation subenitation subenitation Subenitation subenitation subenitation A B C D E F G H I B 12 078 60 533 1 672 303 6 815 514 6 675 721 6 042 611 3 455 155 2 727 249 633 111 1 8 823 14 548 285 291 1 384 366 1 339 951 1 205 973 780 931 469 457 133 978 3 1 753 11 102 271 894 1 124 402 1 109 042 1 013 300 623 564 405 966 95 742 5 933 12 219 337 717 1 424 101 1 403 140 1 240 167 691 908 569 220 162 973 5 476 13 966 <td< td=""></td<> |

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Table 6. Selected Statistics for Establishments With Payroll by Dollar Value of Business Done Size Class: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| [| | | | | | | | ., | | | |
|--|----------------------------------|--------------------------------------|------------------|-------------------------------------|----------------------------------|--------------------------------------|----------------|--|---|---------------------------|---|
| Dollar value size class | Number of estab- lishments | Total number of em- ployees | Total payroll | Dollar value of business done | Value of construction work | Net value of construction work | Value added | Cost of materials, components, supplies, and fuels | Cost of construction work subcontracted out to others | standa of es (perce | ative ard error timate ent) for mn— |
| | А | в | С | D | E | F | G | н | 1 | в | F |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | | |
| Total | 12 078 | 60 533 | 1 672 303 | 6 815 514 | 6 675 721 | 6 042 611 | 3 455 155 | 2 727 249 | 633 111 | 1 | 1 |
| Establishments with value of business done less than \$25,000 Establishments with | S | s | S | s | s | s | s | s | s | s | S |
| value of business done \$25,000 to \$49,999 Establishments with | s | s | S | S | S | s | s | s | s | s | s |
| value of business done \$50,000 to \$99,999 Establishments with | 2 429 | 3 103 | 47 136 | 177 728 | 174 288 | 166 136 | 120 896 | S | S | 8 | 7 |
| value of business done \$100,000 to \$249,999 Establishments with | 3 513 | 8 696 | 154 112 | 554 322 | 541 265 | 511 727 | 358 554 | 166 230 | 29 538 | 6 | 5 |
| value of business done \$250,000 to \$499,999 Establishments with | 1 585 | 7 027 | 147 299 | 561 666 | 552 341 | 502 489 | 331 465 | 180 349 | 49 852 | 7 | 7 |
| value of business done \$500,000 to \$999,999 Establishments with | 1 298 | 8 981 | 220 789 | 909 827 | 883 979 | 806 018 | 483 491 | 348 375 | 77 961 | 6 | 7 |
| value of business done \$1,000,000 to \$2,499,999 Establishments with | 858 | 11 981 | 354 003 | 1 332 366 | 1 310 619 | 1 192 273 | 690 439 | 523 581 | 118 347 | 4 | 5 |
| value of business done \$2,500,000 to \$4,999,999 Establishments with | 324 | 7 829 | 261 453 | 1 136 900 | 1 102 923 | 966 384 | 544 823 | 455 538 | 136 539 | 3 | 5 |
| value of business done \$5,000,000 to \$9,999,999 Establishments with | 145 | 5 925 | 239 590 | 1 003 564 | 975 947 | 875 838 | 433 539 | 469 916 | 100 110 | 1 | 3 |
| value of business done \$10,000,000 or more | 63 | 5 707 | 233 582 | 1 085 680 | 1 083 516 | 974 267 | 456 496 | 519 935 | 109 249 | z | z |

Table 7. Value of Construction Work for Establishments With Payroll by Type of Construction: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| | | Value of cons | struction work | | | | | |
|--|--|---|---|--|--|------------------------------|--|--|
| Type of construction | Total | New construction | Additions, alterations, or reconstruction | Maintenance and repair | Relat | ive standard (percent) fo | | |
| | А | В | С | D | А | В | С | D |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | |
| Total | 6 675 721 | 3 290 870 | 2 208 233 | 965 457 | 1 | 2 | 2 | 4 |
| Building construction, total Single-family houses, detached and attached Single-family houses, detached Single-family houses, detached Apartment buildings, apartment type condominiums and cooperatives Manufacturing and light industrial buildings Manufacturing and light industrial warehouses Hotels and motels Office buildings. All other commercial buildings, nec Commercial warehouses Religious buildings. Heath care and institutional buildings Amusement, social, and recreational buildings. All other nonresidential buildings Mauter, social, and recreational buildings. All other nonresidential buildings | 6 393 086 2 814 728 2 424 002 390 726 448 926 67 403 149 782 1 059 912 549 814 50 039 96 292 438 932 313 487 89 745 89 745 71 473 71 473 | 3 249 546 1 725 928 1 497 516 228 412 175 128 76 626 32 889 67 480 410 147 297 658 24 830 34 048 181 184 112 575 57 434 53 619 41 324 | 2 190 334 711 067 599 810 111 257 146 175 81 333 24 098 60 803 532 084 184 956 13 805 47 914 187 997 153 479 153 479 153 479 27 864 17 899 | 953 207 377 733 326 676 51 057 127 623 67 017 10 416 21 499 117 681 67 200 11 404 14 330 69 751 47 434 13 552 7 568 12 250 | 1 2 2 7 5 7 5 5 5 5 4 6 5 5 5 11 7 21 | 233966666839576117 355 | 2 4 5 10 6 7 5 8 4 6 7 8 3 4 12 10 6 9 | 4 8 11 15 8 9 8 9 12 13 14 19 24 17 28 |
| Other nonbuilding construction, nec | 71 473 | 41 324 | 17 899 | 12 250 | 21 | 35 | 6 | 28 |
| Construction work, nsk | 211 162 | х | x | х | 9 | х | х | Х |

U.S. Census Bureau, 1997 Economic Census Sep. 20, 1999

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of construction work by type of construction was not provided in Table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| see Appendix A] | I | T | | | | [| 1 | 1 | | | |
|---|--|---|---|--|--|---|---|--|---------------------------------|-----------------------------------|--------------------------------|
| Item | Number of estab- lishments | Total number of employees | Payroll, all employees | Value of cons For all types | truction work For specialized type | Net value of construction work | Value added | Cost of construction work subcontracted out to others | of estim | e standa iate (pero column- | cent) for |
| | A | В | C | D | E | F | G | H | в | D | н |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | | |
| Total | 12 078 | 60 533 | 1 672 303 | 6 675 721 | х | 6 042 611 | 3 455 155 | 633 111 | 1 | 1 | 4 |
| Establishments not specializing Establishments specializing 51 | 2 038 | 16 724 | 511 605 | 2 027 245 | Х | 1 843 245 | 1 021 124 | 184 000 | 3 | 3 | 7 |
| Single-family houses, detached and attached | 10 040 | 43 809 | 1 160 698 | 4 648 476 | 3 973 050 | 4 199 366 | 2 434 031 | 449 111 | 2 | 2 | 4 |
| All establishments specializing | 6 712 | 27 230 | 673 577 | 2 668 971 | 2 324 150 | 2 418 154 | 1 403 697 | 250 817 | 3 | 3 | 6 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 3 034 1 382 817 881 431 167 | 9 720 6 984 3 938 3 315 2 297 976 | 220 519 185 785 99 422 77 857 64 452 25 543 | 909 462 705 818 397 476 275 692 268 299 112 224 | 909 462 658 164 326 873 200 333 167 722 61 596 | 836 460 639 751 349 492 255 181 237 405 99 866 | 499 972 353 478 189 375 153 241 145 477 62 153 | 73 003 66 067 47 984 20 511 30 894 12 359 | 5 7 9 9 9 17 | 6 5 7 8 16 | 9 5 21 14 20 28 |
| Apartment buildings, apartment type condominiums and cooperatives | | | | | | | | | | | |
| All establishments specializing | 381 | 2 011 | 58 848 | 239 374 | 187 362 | 205 481 | 110 583 | 33 893 | 11 | 10 | 16 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 55 \$59 \$53 \$ 90 \$ | 352 ^{\$} 314 483 237 483 S | 10 302 6 521 18 741 6 570 13 510 3 205 | 30 878 24 174 92 146 22 509 55 029 14 639 | 30 878 22 420 76 190 16 822 33 432 7 620 | 28 874 22 119 75 875 19 461 45 978 \$13 174 | 13 228 12 953 39 901 14 860 22 794 \$6 848 | 2 004 \$2 055 16 271 \$3 048 9 051 S | 19 41 19 29 21 S | 12 30 16 31 30 39 | 6 48 24 56 38 S |
| Office buildings | | | | | | | | | | | |
| All establishments specializing | 618 | 4 183 | 140 810 | 663 326 | 529 597 | 593 518 | 301 685 | 69 809 | 6 | 7 | 13 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 122 48 S 120 169 10 | 938 593 793 658 797 403 | 28 686 20 893 22 518 23 518 28 860 16 333 | 156 524 74 042 133 432 120 840 118 591 59 898 | 156 524 68 660 110 338 87 349 72 960 33 766 | 137 494 68 960 120 278 106 376 105 134 55 275 | 64 163 24 039 69 826 61 601 52 738 29 318 | ^{\$} 19 030 5 082 \$ 14 464 13 457 4 623 | 20 13 15 16 9 5 | 27 5 15 11 6 2 | 44 3 S 10 1 |
| All other commercial buildings, nec | | | | | | | | | | | |
| All establishments specializing | 339 | 2 374 | 66 127 | 259 723 | 223 389 | 238 354 | 150 093 | 21 369 | 8 | 5 | 13 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 180 18 ^{\$} 52 74 14 1 | 1 064 D 249 579 292 D | 27 550 D 9 620 12 768 12 449 D | 119 666 D 37 358 47 855 39 095 D | 119 666 D 31 033 34 737 24 317 D | 111 496 D 34 197 42 670 35 082 D | 71 044 D 19 693 26 833 22 716 D | 8 170 D 3 160 5 185 4 013 D | 8 D 20 29 15 D | 8 D 11 15 8 D | 33 D 16 8 1 D |
| Educational buildings | | | | | | | | | | | |
| All establishments specializing | 156 | 1 597 | 54 823 | 197 086 | 142 751 | 179 108 | 94 421 | 17 978 | 10 | 9 | 18 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | ^s 31 35 10 S 20 11 | ^{\$} 165 333 113 S 396 236 | ^s 10 067 7 515 4 008 8 943 14 533 9 757 | ⁵19 902 28 775 18 537 36 470 49 448 43 955 | ⁵19 902 26 985 15 296 27 074 30 380 23 116 | ^{\$} 19 572 25 983 D 33 188 45 698 D | ^s 9 631 15 052 7 239 16 454 24 597 21 448 | ^{\$} 330 ^{\$} 2 792 D ^{\$} 3 282 3 749 D | 62 29 15 S 10 8 | 56 37 15 15 9 5 | 46 69 D 54 15 D |
| Health care and institutional buildings | | | | | | | | | | | |
| All establishments specializing | 105 | 483 | 14 543 | 56 951 | 45 023 | 48 878 | 27 596 | 8 073 | 25 | 22 | 34 |
| Specialization 100 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent | 9 ^{\$} 3 ^{\$} 49 S | 130 ^{\$} 39 ^{\$} 199 ^{\$} 115 | 3 683 1 910 6 448 2 502 | 12 230 9 701 ^{\$} 26 214 ^{\$} 8 806 | 12 230 7 761 ^{\$} 19 349 ^{\$} 5 683 | 12 179 8 123 20 366 ^{\$} 8 210 | ^{\$} 7 418 3 343 ^{\$} 12 139 4 696 | ^{\$} 51 1 578 ^{\$} 5 848 596 | 34 53 49 41 | 36 26 40 54 | 48 6 46 37 |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | • • • | | |

CONSTRUCTION-INDUSTRY SERIES

Table 9. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Based on their primary business activity or combination of activities, establishments were classified into this specific industry. These establishments, however, may also be engaged in other kinds of business activities. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| Primary and other kinds of business activities | Dollar value of business done | Relative standard error of estimate (percent) |
|---|--|--|
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | |
| Total | 6 815 514 | 1 |
| Special trade contractors, total | 53 797 26 599 2 989 232 198 309 1 693 284 1 082 958 | 2 6 9 2 7 3 3 4 |
| Other construction activities, nec | 133 765 | 5 |
| Other business activities secondary to construction activities, total | 10 955 | 11 23 10 31 |
| Kind of business activity, nsk | 163 146 | 9 |

Table 10. Selected Statistics for Establishments With Payroll by Specialization in Kind-of-Business Activity: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. This table presents selected statistics for establishments according to degree of specialization by major activity of construction work. If number of establishments or dollar value of business done for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the dollar value of business done by kind of business activity was not provided in Table 9. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| | | | | Value of cons | truction work | | | | Dala | | |
|---|--|--|---|--|--|--|--|---|---------------------------------|---|----------------------------------|
| ltem | Number of estab- lishments | Total number of em- ployees | Payroll, all employees | For all kinds of business | For specialized kinds of business | Net value of construction work | Value added | Cost of construction work subcontracted out to others | erro (p | tive star r of estin ercent) column- | mate for |
| | А | в | С | D | E | F | G | н | в | D | н |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | | |
| Total | 12 078 | 60 533 | 1 672 303 | 6 675 721 | x | 6 042 611 | 3 455 155 | 633 111 | 1 | 1 | 4 |
| Establishments not specializing Establishments specializing 51 percent or more. | 1 347 10 731 | 12 828 47 705 | 390 069 1 282 233 | 1 537 211 5 138 511 | X 4 439 390 | 1 376 611 4 665 999 | 758 955 2 696 200 | 160 599 472 511 | 3 2 | 3 2 | 6 4 |
| Carpet laying or removal contractor | | | | | | | | | | | |
| All establishments specializing | 4 847 | 24 469 | 694 449 | 2 892 749 | 2 340 960 | 2 571 525 | 1 448 631 | 321 224 | 3 | 3 | 6 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 2 705 421 529 689 402 101 | 9 936 2 098 3 389 3 304 3 995 1 748 | 229 941 58 255 101 809 96 280 143 217 64 948 | 939 526 259 589 430 971 409 241 585 712 267 710 | 939 526 241 939 353 204 297 421 362 878 145 992 | 840 002 226 058 384 703 365 849 525 629 229 283 | 544 798 104 460 233 928 190 024 265 975 109 446 | 99 524 33 530 46 268 43 392 60 083 38 427 | 5 11 8 9 6 4 | 5 9 9 9 9 5 | 9 13 20 23 16 9 |
| Computer flooring installation contractor | | | | | | | | | | | |
| All establishments specializing | 214 | 1 110 | 43 357 | 177 262 | 165 632 | 160 982 | 86 954 | 16 280 | 15 | 7 | 3 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent | 177 ^s 11 S 4 1 | 769 128 D 89 D | 30 093 D 1 409 4 390 D | 119 051 18 120 D 13 185 D | 119 051 17 104 12 006 D D | 107 166 D D 12 823 D | 61 158 13 413 D 5 584 D | 11 885 D D 362 D | 22 21 D Z D | 11 5 D Z D | 4 D Z D |
| Flooring contractor, wood | | | | | | | | | | | |
| All establishments specializing | 3 527 | 16 102 | 385 047 | 1 471 399 | 1 407 879 | 1 376 471 | 799 089 | 94 928 | 4 | 4 | 7 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 80 to 89 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 3 083 139 93 64 ^{\$} 80 69 | 12 880 1 408 663 465 382 304 | 296 088 34 151 22 064 13 408 11 083 8 254 | 1 127 279 144 484 77 726 59 652 38 988 23 270 | 1 127 279 136 587 64 376 43 027 24 348 12 262 | 1 071 191 129 178 68 185 48 661 37 023 22 233 | 632 818 67 350 36 089 22 644 23 603 16 584 | 56 088 15 306 9 542 10 991 1 965 1 037 | 5 16 12 17 12 23 | 4 14 14 10 20 | 10 21 20 20 5 15 |
| Resilient floor laying contractor | | | | | | | | | | | |
| All establishments specializing | 1 056 | 4 395 | 123 029 | 457 092 | 384 910 | 429 257 | 269 035 | 27 834 | 7 | 7 | 17 |
| Specialization 100 percent Specialization 90 to 99 percent Specialization 70 to 79 percent Specialization 70 to 79 percent Specialization 60 to 69 percent Specialization 51 to 59 percent | 572 87 30 205 98 64 | 2 137 380 369 S 544 409 | 54 600 12 846 11 384 11 811 20 115 12 273 | 204 811 40 902 36 464 57 156 63 460 54 299 | 204 811 38 779 30 183 41 681 39 474 29 980 | 193 089 39 283 35 301 52 536 59 292 49 756 | 132 987 21 399 19 243 38 223 25 537 31 646 | 11 722 1 619 ^{\$} 1 163 ^{\$} 4 620 ^{\$} 4 167 4 543 | 12 9 14 S 11 23 | 12 6 14 27 7 23 | 22 12 49 69 42 37 |

Table 11. Value of Construction Work for Establishments With Payroll by Location of Construction Work: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. * Indicates geographic change, but not applicable to this sector. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

| | 1 | | | | | | | | | |
|--|--|--|---|--|--|--|--|---|--|---|
| | | Construction work done by establishments located in this state | | Construction work done by establishments not located in this state | | Construction work done by establishments not reporting | | Relative standard error of | | |
| Location of construction work | Value of construction work done in this state | Number | Value of construction work | Number | Value of construction work | Number | Value of construction work | estimate (p | percent) for | column- |
| | A | В | С | D | E | F | G | А | С | E |
| 235520, FLOOR LAYING & OTHER FLOOR CONTRACTORS | | | | | | | | | | |
| United States | 6 675 721 | 6 633 | 4 442 682 | 2 811 | 452 234 | 5 428 | 1 780 805 | 1 | 2 | 9 |
| Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia. Florida | $\begin{array}{c} 66 & 755 \\ 13 & 850 \\ 150 & 823 \\ 1 & 061 & 116 \\ 225 & 239 \\ 113 & 145 \\ 23 & 161 \\ {}^{*}62 & 683 \\ 245 & 236 \end{array}$ | 71 \$20 62 \$35 914 185 60 36 5 238 | $\begin{array}{c} 49 & 326 \\ 6 & 902 \\ 74 & 261 \\ ^{$4} & 485 \\ 800 & 356 \\ 163 & 714 \\ 85 & 325 \\ 16 & 165 \\ 5 & 384 \\ 170 & 888 \end{array}$ | 26 22 34 42 45 98 62 62 141 | 2 722 1 615 2 196 4 395 5 541 4 478 7 403 3 070 \$56 788 14 215 | 89 10 174 20 604 92 105 19 3 272 | 14 706 5 333 74 365 8 188 255 219 57 047 20 418 3 925 512 60 133 | 18 11 17 14 3 7 9 12 46 9 | 26 23 18 42 3 8 12 19 Z 13 | 18 24 28 36 18 33 11 12 51 7 |
| Georgia | 170 124 33 608 24 532 392 219 134 147 48 673 68 898 52 577 65 598 22 289 | 136 49 *38 361 172 86 82 99 99 52 | 90 122 27 095 18 250 278 637 97 576 34 280 47 062 31 675 54 791 15 032 | 67 5 *14 124 111 49 57 89 24 5 | 14 880 ^{\$3} 032 ^{\$1} 242 11 291 8 966 ^{\$7} 777 12 590 8 910 3 190 1 603 | 149 13 *51 216 76 47 67 58 29 22 | 65 122 3 482 5 041 102 290 27 605 6 616 9 247 11 992 7 617 5 654 | 11 8 17 4 12 21 4 11 8 | 15 7 25 6 4 11 31 9 13 11 | 17 66 49 14 21 57 13 15 15 2 |
| Maryland | 201 523 190 030 206 591 120 642 8 404 171 234 *4 925 37 778 98 686 30 503 | 195 142 167 185 47 146 42 56 57 | 138 783 122 641 130 246 94 687 \$ 2 614 120 544 \$ 534 34 743 55 051 19 102 | 93 75 70 ^{\$} 34 38 75 ^{\$} 12 15 54 77 | 12 401 23 097 9 382 1 578 1 785 12 410 \$392 1 548 16 420 7 699 | 106 110 246 69 34 96 60 25 \$25 | 50 339 44 291 66 962 24 377 4 005 38 281 - 1 487 27 215 \$3 702 | 6 10 8 10 18 4 48 14 14 20 | 6 16 12 13 52 6 52 15 25 32 | 13 21 9 18 18 12 65 21 4 25 |
| New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island | 231 243 21 647 446 366 188 733 5 801 230 309 21 180 98 666 241 182 15 359 | 163 *37 362 142 24 205 58 178 211 *12 | 102 276 15 970 280 453 116 729 2 455 162 937 14 830 47 135 162 037 5 611 | 153 *45 70 62 *1 68 25 20 100 15 | 17 625 *1 544 41 579 8 979 D 8 330 1 813 11 090 10 143 2 504 | 262 13 358 302 10 167 26 166 280 *36 | 111 341 4 133 124 333 63 025 59 042 4 538 40 441 69 001 \$7 245 | 5 26 7 9 8 4 18 10 5 26 | 13 36 13 13 7 5 29 15 8 23 | 21 44 2 14 D 5 17 13 7 2 |
| South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming | 55 788 3 215 73 479 355 344 27 532 6 700 243 357 179 902 \$22 311 141 786 3 765 | 155 4 85 221 97 32 218 313 *30 206 *33 | 36 764 1 479 37 077 264 391 D 137 940 128 477 °15 786 82 471 2 640 | 65 *7 75 42 21 3 159 42 40 74 10 | 7 150 1 197 13 965 \$10 039 D 32 220 9 267 3 833 4 485 1 125 | 71 4 80 221 2 \$2 172 172 \$37 165 - | ^{\$} 11 875 539 22 437 80 913 D 73 197 42 158 2 692 54 830 - | 18 13 12 5 21 9 8 7 41 5 24 | 26 6 20 7 D 10 10 63 9 34 | 18 34 54 D 20 5 10 20 3 |

Appendix A. Explanation of Terms

ALL EMPLOYEES

Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not. Number of employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

BEGINNING-OF-YEAR GROSS BOOK VALUE OF DEPRECIABLE ASSETS (\$1,000)

Gross value of depreciable assets, usually original costs of the assets, at the beginning of the year. Depreciable assets are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

BEGINNING-OF-YEAR INVENTORIES OF MATERIALS AND SUPPLIES (\$1,000)

The inventories of materials and supplies owned at the beginning 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.

CAPITAL EXPENDITURES, OTHER THAN LAND (\$1,000)

Capital expenditures are those that were or 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 it 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.

CONSTRUCTION WORK DONE BY ESTABLISHMENTS LOCATED IN THIS STATE: NUMBER

Includes the number of establishments physically located and doing construction work in the same state.

CONSTRUCTION WORK DONE BY ESTABLISHMENTS LOCATED IN THIS STATE: VALUE OF CONSTRUCTION WORK (\$1,000)

Includes the value of construction work done by establishments physically located and doing construction work in the same state.

CONSTRUCTION WORK DONE BY ESTABLISHMENTS NOT LOCATED IN THIS STATE: NUMBER

Includes the number of establishments not located in the state where the construction work is done. Establishment location 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 is expected to be maintained on a continuing basis.

CONSTRUCTION WORK DONE BY ESTABLISHMENT NOT LOCATED IN THIS STATE: VALUE OF CONSTRUCTION WORK (\$1,000)

Includes the value of construction work done by establishments not located in the state where the construction work is done. Establishment location 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 is expected to be maintained on a continuing basis.

CONSTRUCTION WORK DONE BY ESTABLISHMENTS NOT REPORTING: NUMBER (\$1,000)

Includes the number of establishments that did not report the state location of construction work on their census forms and establishments that did not complete a construction census form. Data were estimated for establishments that did not complete a census form.

CONSTRUCTION WORK DONE BY ESTABLISHMENTS NOT REPORTING: VALUE OF CONSTRUCTION WORK (\$1,000)

Includes the value of construction work done by establishments that did not report the state location of construction work on their census forms and establishments that did not complete a construction census form. Data were estimated for establishments that did not complete a census form.

CONSTRUCTION WORKERS

Includes all payroll workers up through the working supervisor 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, and 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.

COST OF ALL OTHER FUELS AND LUBRICANTS (\$1,000)

Costs for fuels and lubricants purchased during the year from other companies or received from other establishments of the company and not included as costs in any of these categories: natural gas; manufactured gas; gasoline; and diesel fuel.

COST OF CONSTRUCTION WORK SUBCONTRACTED OUT TO OTHERS (\$1,000)

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, such costs are reported under costs for materials, components, and supplies. Also excluded are costs for the rental of machinery or equipment.

COST OF ELECTRICITY (\$1,000)

Costs for electric energy purchased during the year from other companies or received from other establishments of the company.

COST OF GASOLINE AND DIESEL FUEL (\$1,000)

Costs for gasoline and diesel fuel purchased during the year from other companies or received from other establishments of the company.

COST OF OFF-HIGHWAY USE OF GASOLINE AND DIESEL FUEL (\$1,000)

Includes the costs for gasoline and diesel fuel purchased during the reporting year for off-highway use. Offhighway 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.

COST OF ON-HIGHWAY USE OF GASOLINE AND DIESEL FUEL (\$1,000)

Costs for 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 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.

COSTS OF MATERIALS, COMPONENTS, AND SUPPLIES (\$1,000)

Includes the costs for materials, components, and supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities and costs for materials bought and resold to others. Also includes costs made for direct purchases of materials, components, and supplies even though 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. Excluded from this item are the cost of fuels, lubricants, electric energy, 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 MATERIALS, COMPONENTS, SUPPLIES, AND FUELS (\$1,000)

Includes the costs for materials, components, supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities and costs for materials bought and resold to others. Also includes the costs for fuels that include gasoline, diesel fuel, and lubricants, and electric energy purchased during the year from other companies for received from other establishments of the company and costs for natural and manufactured gas, fuel oil, 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; materials furnished to contractors by the owners of projects.

COST OF NATURAL GAS AND MANUFACTURED GAS (\$1,000)

Costs for natural gas and manufactured gas purchased during the year from other companies or received from other establishments of the company.

COST OF REPAIRS TO BUILDING AND OTHER STRUCTURES (\$1,000)

Includes the cost of all repairs made to structures by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain property. It excludes the cost of improvements that increase the value of property or the cost of adapting it for another use. Such costs are included in capital expenditures.

COST OF REPAIRS TO MACHINERY AND EQUIPMENT (\$1,000)

Includes the cost of all repairs made to machinery and equipment by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain the machinery.

COST OF SELECTED POWER, FUELS, AND LUBRICANTS (\$1,000)

Included are 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, coal and coke products.

DEPRECIATION CHARGES DURING YEAR (\$1,000)

The depreciation expenses of the establishment in 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.

DOLLAR VALUE SIZE CLASS

Displays data for establishments with payroll that fall within each range of value of business done.

END-OF-YEAR GROSS BOOK VALUE OF DEPRECIABLE ASSETS (\$1,000)

The gross value of depreciable assets, plus any capital expenditures for new and use depreciable assets in the reporting year, minus the gross value of depreciable assets sold, retired, scrapped, destroyed, etc. in the reporting year.

END-OF-YEAR INVENTORIES OF MATERIALS AND SUPPLIES (\$1,000)

The inventories of materials and supplies owned at the 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 which are owned by others but held by the reporting establishment. Builders who build 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.

FIRST-QUARTER PAYROLL (\$1,000)

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 January through March. Includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

FRINGE BENEFITS (\$1,000)

Includes expenditures made by the employer for legally required and voluntary fringe benefit programs for employees.

LEGALLY REQUIRED EXPENDITURES (\$1,000)

Includes expenditures made by the employer for Social Security contributions, unemployment compensation, workman's compensation, and state temporary disability payments.

NET VALUE OF CONSTRUCTION WORK (\$1,000)

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

NUMBER OF CONSTRUCTION WORKERS: QUARTERLY PAY PERIOD

Refers to the number of construction workers employed during a quarterly pay period. January to March includes the reported number of construction workers employed during the pay period including March 12. April to June includes the reported number of construction workers employed during the pay period including May 12. July to September includes the reported number of construction workers employed during the pay period including August 12. October to December includes the reported number of construction workers employed during the pay period including November 12.

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 that were inactive or idle for the entire year were not included.

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 year were not included.

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 year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

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

NUMBER OF OTHER EMPLOYEES: QUARTERLY PAY PERIOD

Refers to the number of other employees employed during a quarterly pay period. January to March includes the reported number of other workers employed during the pay period including March 12. April to June includes the reported number of other workers employed during the pay period including May 12. July to September includes the reported number of other workers employed during the pay period including August 12. October to December includes the reported number of other workers employed during the pay period including November 12.

NUMBER OF PROPRIETORS AND WORKING PARTNERS

These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

OTHER BUSINESS RECEIPTS (\$1,000)

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 receipts from other business operations in foreign countries, and nonoperating income such as interest and dividends.

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.

PAYROLL (\$1,000)

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, vacation and sick leave pay, prior to deductions such as employees' 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: CONSTRUCTION WORKERS (\$1,000)

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, vacation and sick leave pay, prior to deductions such as employees' Social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

PAYROLL: OTHER EMPLOYEES (\$1,000)

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 zas salaries, wages, commissions, dismissal pay, bonuses, 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.

PRIMARY AND OTHER KINDS OF BUSINESS ACTIVITIES

Displays dollar value of business done by primary construction business activity. Primary construction activity is construction activity that generates fifty-one percent or more of an establishment's dollar value of business done. Also displayed 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.

PURCHASED COMMUNICATION SERVICES (\$1,000)

Includes all costs for communication services purchased from other companies or from other establishments of the company.

RENTAL COSTS FOR BUILDINGS (\$1,000)

Includes all costs for renting or leasing space and buildings. It excludes costs under agreements that are in effect conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

RENTAL COSTS FOR MACHINERY AND EQUIPMENT (\$1,000)

Includes all costs for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, and scaffolding. 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.

RENTAL COSTS FOR MACHINERY, EQUIPMENT, AND BUILDINGS (\$1,000)

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

RETIREMENTS AND DISPOSITION OF DEPRECIABLE ASSETS (\$1,000)

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.

SELECTED COSTS (\$1,000)

Includes the costs for materials, components, and supplies; costs for 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 shown elsewhere.

SELECTED PURCHASED SERVICES (\$1,000)

Includes all costs for communication and repair to buildings and other structure services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property or the cost of adapting it for another use. Such costs are included in capital expenditures.

SPECIALIZATION PERCENT

Displays data for establishments with payroll that fall within each percent range of secialization.

TYPE 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 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 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.

Building Construction

- **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 other than attached single-family houses.
- All other residential buildings. Includes dormitories, fraternity and sorority houses, and other nonhousekeeping residential structures.
- Manufacturing and light industrial buildings. Includes all manufacturing and light 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 light industrial warehouses. Includes all warehouses which are intended for industrial activities.
- Hotels and motels. Includes hotels, motels, bed-andbreakfast 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 commercial buildings, nec (not elsewhere classified) such as stores, restaurants, and automobile service stations. Includes all buildings that are intended for use primarily in the retail and service trades. For example, 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.** Included 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, skating rinks, fitness centers, bowling alleys, and indoor swimming pools.
- All other nonresidential buildings. Includes nonresidential buildings that are not classified elsewhere such as fire stations, post offices, bus and air passenger terminals and hangars, and prisons.

Nonbuilding Construction

• Highways, streets, and related work such as installation of guardrails, highway signs, and lighting. Includes streets, roads, alleys, sidewalks,

curbs and gutters, culverts, right-of-way drainage, erosion control, and lighting. Also includes earthwork protective structures when used in connection with road improvements.

- Airport runways and related work. Includes 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 cause-ways 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.
- **Pipeline construction other than sewer or waterlines.** 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, petroleum refineries, 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 systems other than 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/Solid waste disposal.** Includes all dry/solid waste disposal sites where non hazardous waste is buried.
- Harbor and port facilities. Includes docks, piers, and wharves.
- **Marine construction.** Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
- **Outdoor swimming pools.** Includes wading pools and reflecting pools.
- Water storage facilities. Includes aqueducts, water towers, and water tanks.
- **Tank storage facilities other than water.** Includes gasoline and oil storage tanks.
- Fencing. Includes all types of fencing.
- **Recreational facilities.** Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- Billboards. Includes all type of billboards.
- Heavy military construction. Includes all military non-building such as missile sites and testing facilities, launch sites and underground command centers.
- **Ships.** Includes special trade contractors working on ships and boats such as painters, carpenters, joiners, electricians, etc.
- **Oilfields.** The majority of construction work occurring in oil fields is classified in Sector 21, Mining. For example, pipeline construction on oil and gas leases are classified in mining only up to the point where the distribution company takes over. At that point, pipeline construction activity is classified in Sector 23, Construction. Some secondary mining construction activities are classified in the construction sector. Examples of this include: road construction; land clearing contracting; land drainage contracting; and land leveling contracting.
- Other nonbuilding construction, nec. Includes all types of nonbuilding construction not elsewhere classified.

VALUE ADDED (\$1,000)

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

U.S. Census Bureau, 1997 Economic Census

VALUE OF BUSINESS DONE (\$1,000)

Value of business done is the sum of value of construction work and other business receipts.

VALUE OF CONSTRUCTION WORK (\$1,000)

Includes the value of construction work done by general contractors, heavy construction contractors, and special trades contractors. Included are new construction, additions, alterations or reconstruction, and maintenance and repair construction work. Also includes the value of any construction work done by the reporting establishments for themselves. Speculative builders were instructed to include the value of buildings and other structures built or being built for sale in the reporting year, but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease. 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 the 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 value of work done from business operations in foreign countries.

VALUE OF CONSTRUCTION WORK: ADDITIONS, ALTERATIONS, OR RECONSTRUCTION (\$1,000)

Includes construction work which adds to the value or useful life of an existing building or structure or that 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 that would be classified as maintenance and repair.

VALUE OF CONSTRUCTION WORK DONE IN THIS STATE (\$1,000)

Includes the value of construction work done in a state by general contractors, heavy construction contractors, and special trades contractors.

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS WITH INVENTORIES (\$1,000)

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

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS WITH NO INVENTORIES (\$1,000)

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

VALUE OF CONSTRUCTION WORK: FOR SPECIALIZED TYPE (\$1,000)

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

VALUE OF CONSTRUCTION WORK: MAINTENANCE AND REPAIR (\$1,000)

Includes incidental construction work that keeps a property in ordinary working condition. Excluded are trash and snow removal, lawn maintenance and landscaping, cleaning and janitorial services.

VALUE OF CONSTRUCTION WORK: NEW CONSTRUCTION (\$1,000)

Includes the complete, original building of structures and essential service facilities and the initial installation of integral equipment such as elevators and plumbing, heating, and air-conditioning supplies and equipment.

VALUE OF CONSTRUCTION WORK ON FEDERALLY OWNED PROJECTS (\$1,000)

The value of construction work for projects owned by the Federal government.

VALUE OF CONSTRUCTION WORK ON GOVERNMENT OWNED PROJECTS (\$1,000)

The value of construction work for the sum total of all projects owned by Federal, state, and local governments.

VALUE OF CONSTRUCTION WORK ON PRIVATELY OWNED PROJECTS (\$1,000)

The value of construction work for construction projects other than government owned projects.

VALUE OF CONSTRUCTION WORK ON STATE AND LOCALLY OWNED PROJECTS (\$1,000)

The value of construction work for the sum total of all projects owned by state and local governments.

VALUE OF CONSTRUCTION WORK SUBCONTRACTED IN FROM OTHERS (\$1,000)

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 value for this item.

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS NOT REPORTING INVENTORIES (\$1,000)

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.

VOLUNTARY EXPENDITURES (\$1,000)

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.

Appendix B. NAICS Codes, Titles, and Descriptions

23 CONSTRUCTION

The Construction sector comprises establishments primarily engaged in the construction of buildings and other structures, heavy construction (except buildings), additions, alterations, reconstruction, installation, and maintenance and repairs. Establishments engaged in demolition or wrecking of buildings and other structures, clearing of building sites, and sale of materials from demolished structures are also included. This sector also includes those establishments engaged in blasting, test drilling, landfill, leveling, earthmoving, excavating, land drainage, and other land preparation. The industries within this sector have been defined on the basis of their unique production processes. As with all industries, the production processes are distinguished by their use of specialized human resources and specialized physical capital. Construction activities are generally administered or managed at a relatively fixed place of business, but the actual construction work is performed at one or more different project sites.

This sector is divided into three subsectors of construction activities: (1) building construction and land subdivision and land development; (2) heavy construction (except buildings), such as highways, power plants, and pipelines; and (3) construction activity by special trade contractors.

Establishments classified in Subsector 233, Building, Developing, and General Contracting and Subsector 234, Heavy Construction, usually assume responsibility for an entire construction project, and may subcontract some or all of the actual construction work. Operative builders who build on their own account for sale, and land subdividers and land developers, who engage in subdividing real property into lots for sale, are included in Subsector 233, Building, Developing, and General Contracting. (Special trade contractors are included in Subsector 234, Heavy Construction, if they are engaged in activities primarily relating to heavy construction, such as grading for highways.) Establishments included in these subsectors operate as general contractors, design-builders, engineerconstructors, joint-venture contractors, and turnkey construction contractors. Establishments identified as construction management firms are also included.

Establishments classified in Subsector 235, Special Trade Contractors, are primarily engaged in specialized construction activities, such as plumbing, painting, and electrical work, and work for builders and general contractors under subcontract or directly for project owners. Establishments engaged in demolition or wrecking of buildings and other structures, dismantling of machinery, excavating, shoring and underpinning, anchored earth retention activities, foundation drilling, and grading for buildings are also included in this subsector.

"Force account" construction is construction work performed by an establishment primarily engaged in some business other than construction, for its own account and use, and by employees of the establishment. This activity is not included in this industry sector unless the construction work performed is the primary activity of a separate establishment of the enterprise.

The installation of prefabricated building equipment and materials, such as elevators and revolving doors, is classified in the Construction sector. Installation work incidental to sales by employees of a manufacturing or retail establishment is classified as an activity of those establishments.

233 Building, Developing, and General Contracting

Industries in the Building, Developing, and General Contracting subsector comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repair) of building projects. Builders, developers, and general contractors, as well as land subdividers and land developers are included in this subsector. Establishments identified as construction management firms for building projects are also included. The construction work may be for others and performed by custom builders, general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors, or may be on their own account for sale and performed by speculative or operative builders.

2331 Land Subdivision and Land Development

This NAICS Industry Group includes establishments classified in NAICS Industry 23311, Land Subdivision and Land Development.

23311 Land Subdivision and Land Development

This industry comprises establishments primarily engaged in subdividing real property into lots and/or developing building lots for sale.

233110 Land Subdivision and Land Development

This U.S. industry comprises establishments primarily engaged in subdividing real property into lots and/or developing building lots for sale.

The data published with NAICS code 233110 include the following SIC industries:

6552 Land subdividers and developers, except cemeteries

2332 Residential Building Construction

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23321, Single-Family Housing Construction; and 23322, Multifamily Housing Construction.

23321 Single-Family Housing Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of single family residential housing units (e.g., single family detached houses, town houses, or row houses where each housing unit is separated by a ground-to-roof wall and where no housing units are constructed above or below). This industry includes establishments responsible for additions and alterations to mobile homes and on-site assembly of modular and prefabricated houses. Establishments identified as single family construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include single family housing custom builders, general contractors, design builders, engineerconstructors, joint-venture contractors, and turnkey contractors.

233210 Single-Family Housing Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of single family residential housing units (e.g., single family detached houses, town houses, or row houses where each housing unit is separated by a ground-to-roof wall and where no housing units are constructed above or below). This industry includes establishments responsible for additions and alterations to mobile homes and on-site assembly of modular and prefabricated houses. Establishments identified as single family construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include single family housing custom builders, general contractors, design builders, engineerconstructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233210 include the following SIC industries:

- 1521 General contractors-single-family houses
- 1531 Operative builders (pt)
- 8741 Management services (pt)

23322 Multifamily Housing Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of multifamily residential housing units (e.g., highrise, garden, and town house apartments where each unit is not separated by a groundto-roof wall). The units may be constructed for sale as condominiums or cooperatives, or for rental as apartments. Establishments identified as multifamily construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include multifamily housing general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233220 Multifamily Housing Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of multifamily residential housing units (e.g., highrise, garden, and town house apartments where each unit is not separated by a groundto-roof wall). The units may be constructed for sale as condominiums or cooperatives, or for rental as apartments. Establishments identified as multifamily construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include multifamily housing general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233220 include the following SIC industries:

- 1522 General contractors—residential buildings, other than single-family (pt)
- 1531 Operative builders (pt)
- 8741 Management services (pt)

2333 Nonresidential Building Construction

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23331, Manufacturing and Industrial Building Construction; and 23332, Commercial and Institutional Building Construction.

23331 Manufacturing and Industrial Building Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of manufacturing and industrial buildings (e.g., plants, mills, factories). Establishments identified as manufacturing and industrial building construction management firms are also included in this industry. Kinds of establishments include manufacturing and industrial building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233310 Manufacturing and Industrial Building Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of manufacturing and industrial buildings (e.g., plants, mills, factories). Establishments identified as manufacturing and industrial building construction management firms are also included in this industry. Kinds of establishments include manufacturing and industrial building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233310 include the following SIC industries:

- 1531 Operative builders (pt)
- 1541 General contractors—industrial buildings and warehouses (pt)
- 8741 Management services (pt)

23332 Commercial and Institutional Building Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of commercial and institutional buildings (e.g., stores, schools, hospitals office buildings, public warehouses). Establishments identified as commercial and institutional building construction management firms are also included in this industry. Kinds of establishments include commercial and institutional building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233320 Commercial and Institutional Building Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of commercial and institutional buildings (e.g., stores, schools, hospitals office buildings, public warehouses). Establishments identified as commercial and institutional building construction management firms are also included in this industry. Kinds of establishments include commercial and institutional building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors. The data published with NAICS code 233320 include the following SIC industries:

- 1522 General contractors—residential buildings, other than single-family (pt)
- 1531 Operative builders (pt)
- 1541 General contractors—industrial buildings and warehouses (pt)
- 1542 General contractors—nonresidential buildings, except industrial buildings and warehouses
- 8741 Management services (pt)

234 Heavy Construction

Industries in the Heavy Construction subsector group establishments that engage in the construction of heavy engineering and industrial projects (except buildings), for example, highways, power plants, and pipelines. The construction work performed may include new work, reconstruction, or repairs. Establishments identified as heavy construction management firms are also included. Establishments in this subsector usually assume responsibility for entire nonbuilding projects but may subcontract some or all of the actual construction work. Special trade contractors are included in this group if they are engaged in activities primarily related to heavy construction, for example, grading for highways. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

2341 Highway, Street, Bridge, and Tunnel Construction

This NAICS Industry Group includes establishments classified in the following NAICS industries: 23411, Highway and Street Construction; and 23412, Bridge and Tunnel Construction.

23411 Highway and Street Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of highways (except elevated), streets, roads, or airport runways; (2) establishments identified as highway and street construction management firms; and (3) establishments identified as special trade contractors engaged in performing subcontract work primarily related to highway and street construction (e.g., grading for highways, installing guardrails, public sidewalk construction). Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include highway and street general contractors, design builders, engineer-constructors, and joint-venture contractors.

234110 Highway and Street Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of highways (except elevated),

streets, roads, or airport runways; (2) establishments identified as highway and street construction management firms; and (3) establishments identified as special trade contractors engaged in performing subcontract work primarily related to highway and street construction (e.g., grading for highways, installing guardrails, public sidewalk construction). Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include highway and street general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234110 include the following SIC industries:

- 1611 Highway and street construction contractors, except elevated highways
- 8741 Management services (pt)

23412 Bridge and Tunnel Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of bridges, viaducts, elevated highways, and tunnels; (2) establishments identified as bridge and tunnel construction management firms; and (3) establishments identified as special trade contractors primarily engaged in performing subcontract work related to bridge and tunnel construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include bridge and tunnel general contractors, design builders, engineerconstructors, and joint-venture contractors.

234120 Bridge and Tunnel Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of bridges, viaducts, elevated highways, and tunnels; (2) establishments identified as bridge and tunnel construction management firms; and (3) establishments identified as special trade contractors primarily engaged in performing subcontract work related to bridge and tunnel construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include bridge and tunnel general contractors, design builders, engineerconstructors, and joint-venture contractors.

The data published with NAICS code 234120 include the following SIC industries:

- 1622 Bridge, tunnel, and elevated highway construction contractors
- 8741 Management services (pt)

2349 Other Heavy Construction

This industry group comprises establishments primarily engaged in heavy nonbuilding construction (except highway, street, bridge, and tunnel construction). on This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, rehabilitation, or repairs) of water mains, sewers, drains, gas mains, natural gas pumping stations, and gas and oil pipelines; (2) establishments identified as water, sewer, and pipeline construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to water, sewer, and pipeline construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include water, sewer, and pipeline general contractors, design builders, engineer-constructors, and joint-venture contractors.

234910 Water, Sewer, and Pipeline Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, rehabilitation, or repairs) of water mains, sewers, drains, gas mains, natural gas pumping stations, and gas and oil pipelines; (2) establishments identified as water, sewer, and pipeline construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to water, sewer, and pipeline construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include water, sewer, and pipeline general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234910 include the following SIC industries:

- 1623 Water, sewer, pipeline, and communications and power line construction (pt)
- 8741 Management services (pt)

23492 Power and Communication Transmission Line Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of electric power and communication transmission lines and towers, radio and television transmitting/receiving towers, cable laying, and cable television lines; (2) establishments identified as power and communication transmission line construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to power and communication transmission line construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include power and communication transmission line general contractors, design builders, engineerconstructors, and joint-venture contractors.

234920 Power and Communication Transmission Line Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of electric power and communication transmission lines and towers, radio and television transmitting/receiving towers, cable laying, and cable television lines; (2) establishments identified as power and communication transmission line construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to power and communication transmission line construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include power and communication transmission line general contractors, design builders, engineerconstructors, and joint-venture contractors.

The data published with NAICS code 234920 include the following SIC industries:

- 1623 Water, sewer, pipeline, and communications and power line construction (pt)
- 8741 Management services (pt)

23493 Industrial Nonbuilding Structure Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy industrial nonbuilding structures, such as chemical complexes or facilities, cement plants, petroleum refineries, industrial incinerators, ovens, kilns, power plants (except hydroelectric plants), and nuclear reactor containment structures; (2) establishments identified as industrial nonbuilding construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to industrial nonbuilding construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include industrial nonbuilding general contractors, design builders, engineer-constructors, and joint-venture contractors.

234930 Industrial Nonbuilding Structure Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy industrial nonbuilding structures, such as chemical complexes or facilities, cement plants, petroleum refineries, industrial incinerators, ovens, kilns, power plants (except hydroelectric plants), and nuclear reactor containment structures; (2) establishments identified as industrial nonbuilding construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to industrial nonbuilding construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include industrial nonbuilding general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234930 include the following SIC industries:

1629 Heavy construction, n.e.c. (pt) 8741 Management services (pt)

23499 All Other Heavy Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy nonbuilding construction projects (except highway, street, bridge, tunnel, water lines, sewer lines, pipelines, power and communication transmission lines, and industrial nonbuilding structures); (2) establishments identified as all other heavy construction management firms; (3) establishments primarily engaged in construction equipment rental with an operator; and (4) establishments identified as special trade contractors engaged in activities related primarily to all other heavy construction. Typical projects constructed by establishments in this industry include athletic fields, dams, dikes, docks, drainage projects, golf courses, harbors, parks, reservoirs, canals, sewage treatment plants, water treatment plants, hydroelectric plants, subways, and other mass transit projects. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

234990 All Other Heavy Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy nonbuilding construction projects (except highway, street, bridge, tunnel, water lines, sewer lines, pipelines, power and communication transmission lines, and industrial nonbuilding structures); (2) establishments identified as all other heavy construction management firms; (3) establishments primarily engaged in construction equipment rental with an operator; and (4) establishments identified as special trade contractors engaged in activities related primarily to all other heavy construction. Typical projects constructed by establishments in this industry include athletic fields, dams, dikes, docks, drainage projects, golf courses, harbors, parks, reservoirs, canals, sewage treatment plants, water treatment plants, hydroelectric plants, subways, and other mass transit projects. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234990 include the following SIC industries:

- 1629 Heavy construction, n.e.c. (pt)
- 7353 Heavy construction equipment, rental and leasing (pt)
- 8741 Management services (pt)

235 Special Trade Contractors

Industries in the Special Trade Contractors subsector engage in specialized construction activities, such as plumbing, painting, and electrical work. Those establishments that engage in activities primarily related to heavy construction, such as grading for highways, are classified in Subsector 234, Heavy Construction. The activities of this subsector may be subcontracted from builders or general contractors or it may be performed directly for project owners. The construction work performed may include new work, additions, alterations, or maintenance and repairs. Special trade contractors usually perform most of their work at the job site, although they may have shops where they perform prefabrication and other work.

2351 Plumbing, Heating, and Air-Conditioning Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23511, Plumbing, Heating, and Air-Conditioning Contractors.

23511 Plumbing, Heating, and Air-Conditioning Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) installing plumbing, heating, and air-conditioning equipment; (2) servicing plumbing, heating, and air-conditioning equipment; and (3) the combined activity of selling and installing plumbing, heating, and air-conditioning equipment. The plumbing, heating, and air-conditioning work performed includes new work, additions, alterations, and maintenance and repairs. The activities performed by these establishments range from duct fabrication and installation at the site to installation of refrigeration equipment, installation of sprinkler systems, and installation of environmental controls.

235110 Plumbing, Heating, and Air-Conditioning Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) installing plumbing, heating, and air-conditioning equipment; (2) servicing plumbing, heating, and air-conditioning equipment; and (3) the combined activity of selling and installing plumbing, heating, and air-conditioning equipment. The plumbing, heating, and air-conditioning work performed includes new work, additions, alterations, and maintenance and repairs. The activities performed by these establishments range from duct fabrication and installation at the site to installation of refrigeration equipment, installation of sprinkler systems, and installation of environmental controls.

The data published with NAICS code 235110 include the following SIC industry:

1711 Plumbing, heating, and air-conditioning special trade contractors

This definition comes from the 1997 NAICS manual. However, for this industry, the 1997 Economic Census--Construction did not fully implement the conversion to NAICS. Data for NAICS industry 235110 do not include establishments whose primary activity is boiler cleaning. The NAICS definitions will be fully implemented with the 2002 Economic Census.

2352 Painting and Wall Covering Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23521, Painting and Wall Covering Contractors.

23521 Painting and Wall Covering Contractors

This industry comprises establishments primarily engaged in interior or exterior painting and interior wall covering. The painting and wall covering work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by these establishments range from bridge, ship, and traffic lane painting to paint and wall covering removal.

235210 Painting and Wall Covering Contractors

This U.S. industry comprises establishments primarily engaged in interior or exterior painting and interior wall covering. The painting and wall covering work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by these establishments range from bridge, ship, and traffic lane painting to paint and wall covering removal.

The data published with NAICS code 235210 include the following SIC industries:

- 1721 Painting and paper hanging special trade contractors
- 1799 Special trade contractors, n.e.c. (pt)

2353 Electrical Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23531, Electrical Contractors.

23531 Electrical Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) performing electrical work at the site (e.g., installing wiring); (2) servicing electrical equipment at the site; and (3) the combined activity of selling and installing electrical equipment. The electrical work performed includes new work, additions, alterations, and maintenance and repairs.

235310 Electrical Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) performing electrical work at the site (e.g., installing wiring); (2) servicing electrical equipment at the site; and (3) the combined activity of selling and installing electrical equipment. The electrical work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235310 include the following SIC industry:

1731 Electrical work special trade contractors

2354 Masonry, Drywall, Insulation, and Tile Contractors

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23541, Masonry and Stone Contractors; 23542, Drywall, Plastering, Acoustical, and Insulation Contractors; and 23543, Tile, Marble, Terrazzo, and Mosaic Contractors.

23541 Masonry and Stone Contractors

This industry comprises establishments primarily engaged in masonry work, stone setting, and other stone work. The masonry work, stone setting, and other stone work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the construction of foundations made of block, stone, or brick to glass block laying; exterior marble, granite and slate work; and tuck pointing.

235410 Masonry and Stone Contractors

This U.S. industry comprises establishments primarily engaged in masonry work, stone setting, and other stone work. The masonry work, stone setting, and other stone work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the construction of foundations made of block, stone, or brick to glass block laying; exterior marble, granite and slate work; and tuck pointing.

The data published with NAICS code 235410 include the following SIC industry:

1741 Masonry, stone setting, and other stone work special trade contractors

23542 Drywall, Plastering, Acoustical, and Insulation Contractors

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

235420 Drywall, Plastering, Acoustical, and Insulation Contractors

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

The data published with NAICS code 235420 include the following SIC industries:

- 1742 Plastering, drywall, acoustical, and insulation work special trade contractors
- 1743 Terrazzo, tile, marble, and mosaic work special trade contractors (pt)
- 1771 Concrete work special trade contractors (pt)

23543 Tile, Marble, Terrazzo, and Mosaic Contractors

This industry comprises establishments primarily engaged in (1) setting and installing ceramic tile, marble (interior only), terrazzo, and mosaic and/or (2) mixing marble particles and cement to make terrazzo at the job site. The tile, marble, terrazzo, and mosaic work performed includes new work, additions, alterations, and maintenance and repairs.

235430 Tile, Marble, Terrazzo, and Mosaic Contractors

This U.S. industry comprises establishments primarily engaged in (1) setting and installing ceramic tile, marble (interior only), terrazzo, and mosaic and/or (2) mixing marble particles and cement to make terrazzo at the job site. The tile, marble, terrazzo, and mosaic work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235430 include the following SIC industry:

1743 Terrazzo, tile, marble, and mosaic work special trade contractors (pt)

2355 Carpentry and Floor Contractors

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23551, Carpentry Contractors; and 23552, Floor Laying and Other Floor Contractors.

23551 Carpentry Contractors

This industry comprises establishments primarily engaged in framing, carpentry, and finishing work. The carpentry work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the installation of doors and windows to paneling, steel framing work, and ship joinery.

235510 Carpentry Contractors

This U.S. industry comprises establishments primarily engaged in framing, carpentry, and finishing work. The carpentry work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the installation of doors and windows to paneling, steel framing work, and ship joinery.

The data published with NAICS code 235510 include the following SIC industry:

1751 Carpentry work special trade contractors

23552 Floor Laying and Other Floor Contractors

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

235520 Floor Laying and Other Floor Contractors

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

The data published with NAICS code 235520 include the following SIC industry:

1752 Floor laying and other floor work special trade contractors, n.e.c.

2356 Roofing, Siding, and Sheet Metal Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23561, Roofing, Siding, and Sheet Metal Contractors.

23561 Roofing, Siding, and Sheet Metal Contractors

This industry comprises establishments primarily engaged in the installation of roofing, siding, sheet metal work, and roof drainage-related work, such as downspouts and gutters. Activities performed by these establishments also include treating roofs (i.e., by spraying, painting, or coating), copper smithing, tin smithing, installing skylights, installing metal ceilings, flashing, duct work, and capping. The roofing, siding, and sheet metal work performed includes new work, additions, alterations, and maintenance and repairs.

235610 Roofing, Siding, and Sheet Metal Contractors

This U.S. industry comprises establishments primarily engaged in the installation of roofing, siding, sheet metal work, and roof drainage-related work, such as downspouts and gutters. Activities performed by these establishments also include treating roofs (i.e., by spraying, painting, or coating), copper smithing, tin smithing, installing skylights, installing metal ceilings, flashing, duct work, and capping. The roofing, siding, and sheet metal work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235610 include the following SIC industry:

1761 Roofing, siding, and sheet metal work special trade contractors

2357 Concrete Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23571, Concrete Contractors.

23571 Concrete Contractors

This industry comprises establishments primarily engaged in the use of concrete and asphalt to produce parking areas, building foundations, structures, and retaining walls, and in the use of all materials to produce patios, private driveways, and private walks. Activities performed by these establishments include grout and shotcrete work. The concrete work performed includes new work, additions, alterations, and maintenance and repairs.

235710 Concrete Contractors

This U.S. industry comprises establishments primarily engaged in the use of concrete and asphalt to produce parking areas, building foundations, structures, and retaining walls, and in the use of all materials to produce patios, private driveways, and private walks. Activities performed by these establishments include grout and shotcrete work. The concrete work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235710 include the following SIC industry:

1771 Concrete work special trade contractors (pt)

2358 Water Well Drilling Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23581, Water Well Drilling Contractors.

23581 Water Well Drilling Contractors

This industry comprises establishments primarily engaged in drilling, tapping, and capping of water wells, and geothermal drilling. The water well drilling work performed includes new work, servicing, and maintenance and repairs.

235810 Water Well Drilling Contractors

This U.S. industry comprises establishments primarily engaged in drilling, tapping, and capping of water wells, and geothermal drilling. The water well drilling work performed includes new work, servicing, and maintenance and repairs.

The data published with NAICS code 235810 include the following SIC industry:

1781 Water well drilling special trade contractors

2359 Other Special Trade Contractors

This industry group comprises establishments primarily engaged in specialized construction activities (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring work, roofing, siding, sheet metal, concrete, and water well drilling).

23591 Structural Steel Erection Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) erecting metal, structural steel, and similar products of prestressed or precast concrete to produce structural elements, building exteriors, and elevator fronts; (2) setting rods, bars, rebar, mesh, and cages, to reinforce poured-in-place concrete; and (3) erecting cooling towers and metal storage tanks. The structural steel erection work performed includes new work, additions, alterations, reconstruction, and maintenance and repairs.

235910 Structural Steel Erection Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) erecting metal, structural steel, and similar products of prestressed or precast concrete to produce structural elements, building exteriors, and elevator fronts; (2) setting rods, bars, rebar, mesh, and cages, to reinforce poured-in-place concrete; and (3) erecting cooling towers and metal storage tanks. The structural steel erection work performed includes new work, additions, alterations, reconstruction, and maintenance and repairs.

The data published with NAICS code 235910 include the following SIC industry:

1791 Structural steel erection special trade contractors

23592 Glass and Glazing Contractors

This industry comprises establishments primarily engaged in installing glass (i.e., glazing work) and/or tinting glass. The glass work performed includes new work, additions, alterations, and maintenance and repairs. 235920 Glass and Glazing Contractors This U.S. industry comprises establishments primarily engaged in installing glass (i.e., glazing work) and/or tinting glass. The glass work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235920 include the following SIC industries:

- 1793 Glass and glazing work special trade contractors
- 1799 Special trade contractors, n.e.c. (pt)

23593 Excavation Contractors

This industry comprises establishments primarily engaged in preparing land for building construction. Activities performed by these establishments are drilling shafts, foundation digging, foundation drilling, and grading. The excavation work performed includes new work, additions, alterations, and repairs.

235930 Excavation Contractors

This U.S. industry comprises establishments primarily engaged in preparing land for building construction. Activities performed by these establishments are drilling shafts, foundation digging, foundation drilling, and grading. The excavation work performed includes new work, additions, alterations, and repairs.

The data published with NAICS code 235930 include the following SIC industry:

1794 Excavation work special trade contractors

23594 Wrecking and Demolition Contractors

This industry comprises establishments primarily engaged in the wrecking and demolition of buildings and other structures, including underground tank removal and the dismantling of steel oil tanks, except those for hazardous materials. The establishments engaged in wrecking and demolition work may or may not sell materials derived from demolishing operations.

235940 Wrecking and Demolition Contractors

This U.S. industry comprises establishments primarily engaged in the wrecking and demolition of buildings and other structures, including underground tank removal and the dismantling of steel oil tanks, except those for hazardous materials. The establishments engaged in wrecking and demolition work may or may not sell materials derived from demolishing operations.

The data published with NAICS code 235940 include the following SIC industry:

1795 Wrecking and demolition work special trade contractors

23595 Building Equipment and Other Machinery Installation Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) the installation or dismantling of building equipment, machinery or

other industrial equipment (except plumbing, heating, air conditioning or electrical equipment); (2) machine rigging; and (3) millwriting. Types of equipment installed include automated and revolving doors, conveyor systems, dumbwaiters, dust collecting equipment, elevators, small incinerators, pneumatic tubes systems, and built-in vacuum cleaning systems. The building equipment and other machinery installation work performed includes new work, additions, alterations, and maintenance and repairs.

235950 Building Equipment and Other Machinery Installation Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) the installation or dismantling of building equipment, machinery or other industrial equipment (except plumbing, heating, air conditioning or electrical equipment); (2) machine rigging; and (3) millwriting. Types of equipment installed include automated and revolving doors, conveyor systems, dumbwaiters, dust collecting equipment, elevators, small incinerators, pneumatic tubes systems, and built-in vacuum cleaning systems. The building equipment and other machinery installation work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235950 include the following SIC industry:

1796 Installation or erection of building equipment, special trade contractors, n.e.c.

23599 All Other Special Trade Contractors

This industry comprises establishments primarily engaged in specialized construction work, (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring, roofing, siding, sheet metal work, concrete work, glass and glazing, structural steel erection, excavation, wrecking and demolition, and building equipment installation work). Activities undertaken by these establishments include constructing swimming pools and fences, house moving, waterproofing, dewatering, dampproofing, fireproofing, and sandblasting; installing antennas, artificial turf, awnings, countertops, fire escapes, forms for poured concrete, gasoline pumps, lightning conductors, ornamental metal, shoring systems, and signs (on buildings); and specialized activities, such as bathtub refinishing, coating and glazing of concrete surfaces, gas leakage detection, insulation of pipes and boilers, mobile home site setup and tie-down, posthole digging, radon remediation, scaffolding work, and on-site welding. The other special trade work performed includes new work, additions, alterations, and maintenance and repairs.

235990 All Other Special Trade Contractors

This U.S. industry comprises establishments primarily engaged in specialized construction work, (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring, roofing, siding, sheet metal work, concrete work, glass and glazing, structural steel erection, excavation, wrecking and demolition, and building equipment installation work). Activities undertaken by these establishments include constructing swimming pools and fences, house moving, waterproofing, dewatering, dampproofing, fireproofing, and sandblasting; installing antennas, artificial turf, awnings, countertops, fire escapes, forms for poured concrete, gasoline pumps, lightning conductors, ornamental metal, shoring systems, and signs (on buildings); and specialized activities, such as bathtub refinishing, coating and glazing of concrete surfaces, gas leakage detection, insulation of pipes and boilers, mobile home site setup and tie-down, posthole digging, radon remediation, scaffolding work, and on-site welding. The other special trade work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235990 include the following SIC industry:

1799 Special trade contractors, n.e.c. (pt)

Appendix C. Coverage and Methodology

THE SAMPLE FRAME

The universe for the construction sector includes approximately 650,000 establishments. This includes only those construction establishments with at least one paid employee in 1997. Census reports were mailed to a sample of approximately 130,000 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) which 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.

While the IRS-SSA list usually provided sufficient classification information to assign a company to the proper economic sector, there were cases for which the information was incomplete or missing. A classification form was mailed to companies with insufficient information to be assigned to an industry. This form requested information on the nature of the company's activities. Companies determined to be in scope of the construction sector subsequent to the census mailout were treated as a supplement to the universe rather than part of the sample frame.

SAMPLE SELECTION

The major objective of the sample design was to provide a sample that would provide reliable estimates for each state and construction industry. A stratified random sample was designed. Within each state by industry cell, six strata were defined.

- Stratum 1 was comprised of approximately 12,000 establishments of companies that had operations of any type at more than one location. These establishments of multiunit companies were included in the construction sample with certainty.
- Strata 2-6 were comprised of single-location companies. For each industry, payroll cut-offs were determined at the U.S. level and used to define the payroll ranges for each of the strata 2-6 across all states.

All establishments in stratum 2 were included in the construction sample with certainty. These consisted of the largest single-location construction companies.

For strata 3-6, a random sample of establishments was selected. The general strategy was to sample the strata containing larger establishments at a higher rate than those containing small establishments. The minimum sample rate was 1 in 20.

For five industries, the U.S. population in the sample frame was quite small. For these industries, all establishments in the sample frame were included in the sample with certainty. These industries were as follows:

- SIC 1622: Bridge, Tunnel, and Elevated Highway Construction Contractors
- SIC 1795: Wrecking and Demolition Work
- SIC 1796: Installation or Erection of Building Equipment, Not Elsewhere Classified
- SIC 7353: Equipment Rental with Operators
- SIC 8741: Construction Management

ESTIMATION AND VARIANCES

Based on the response data, establishments were assigned to the appropriate NAICS 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.

Variances of the estimated items were derived at the state level, industry, and by stratum using standard stratified random sample formulas. Variances were then aggregated to the publication levels for the computation of the relative standard errors.

RELIABILITY OF THE ESTIMATES

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, completecoverage values.

Estimates of the standard errors have been computed from the sample data. They are presented in the form of relative standard errors which 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, completecoverage 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 two-thirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

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

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

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

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

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each establishment covered in the construction sector was classified in one of twenty eight industries in accordance with the industry definitions in the 1997 NAICS (North American Industry Classification System) manual. The U.S. Census Bureau first used NAICS to classify industries for 1997 economic census data. Prior to this the U.S. Census Bureau used SIC (Standard Industrial Classification) for industry classification. The differences between NAICS and SIC are outlined in Appendix A of the 1997 NAICS manual.

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, value of business, 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 1997, there are 3 subsectors (three-digit NAICS), 14 industry groups (four-digit NAICS), and 28 NAICS industries (five- and six-digit NAICS). The five-digit NAICS is supposed to be the level at which there is comparability with the Canadian and Mexican classification systems. However, agreement had not been reached with these countries at the time of the 1997 Economic Census regarding the classification of construction industries. The 28 five- and six-digit NAICS construction industries are the result of an expansion and a restructuring of the 26 fourdigit SIC industries of 1987.

ESTABLISHMENT BASIS OF REPORTING

The construction sector 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 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. 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.

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.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

Appendix F. Detailed SIC Code Titles: 1997

[The SIC code title shown in Table 1 is a standard SIC title from the Standard Industrial Classification Manual. A more detailed title description for the SIC code shown in Table 1 is included in this appendix]

| SIC code | Detailed industry title description | SIC code | Detailed industry title description |
|----------------------------|---|--|---|
| 15 | GENERAL BUILDING CONTRACTORS | 17 | SPECIAL TRADE CONTRACTORS (EXCLUDING LEAD PAINT REMOVAL AND ASBESTOS ABATEMENT)—Con. |
| 152100 152210 152220 | General contractors—single-family houses General contractors—hotel and motel construction General contractors—residential buildings, other than single-family, | 175100 175200 | Carpentry work Floor laying and other floor work, n.e.c |
| | except hotel and motel construction | 176100 | Roofing, siding, and sheet metal work |
| 153110 153120 153130 | Operative builders, single-family housing construction Operative builders, multifamily housing construction Operative builders, manufacturing and light industrial building construction | 177110 177120 | Stucco construction Concrete work, except stucco construction |
| 153140 | Operative builders, commercial and institutional building construction | 178100 | Water well drilling |
| 154110 154120 154200 | General contractors—commercial warehouse construction General contractors—industrial buildings and warehouse construction General contractors—nonresidential buildings, other than industrial buildings and warehouses | 179100 179300 179400 179500 179600 179910 179920 | Structural steel erection Glass and glazing work Excavation work Wrecking and demolition work Installation or erection of building equipment, n.e.c Paint and wallpaper stripping and wallpaper removal contractors Tinting glass contractors |
| 16 | HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION | 179940 | All other special trade contractors |
| 161100 | Highway and street construction, except elevated highways | 65 | REAL ESTATE – CONSTRUCTION LAND SUBDIVIDERS AND DEVELOPERS |
| 162200 | Bridge, tunnel, and elevated highway construction | 655200 | Land subdividers and developers, except cemeteries |
| 162310 162320 | Water, sewer, and pipeline construction Power and communication transmission line construction | 73 | BUSINESS SERVICES—CONSTRUCTION EQUIPMENT RENTAL AND LEASING, WITH OPERATOR |
| 162910 162920 | Industrial nonbuilding construction Other heavy construction | 735320 | Heavy construction equipment rental and leasing, with operator |
| 17 | SPECIAL TRADE CONTRACTORS (EXCLUDING LEAD PAINT REMOVAL AND ASBESTOS ABATEMENT) | 87 | ENGINEERING AND MANAGEMENT SERVICES—CONSTRUCTION MANAGEMENT FOR BUILDINGS AND HEAVY CONSTRUCTION |
| 171100 | Plumbing, heating, and air-conditioning | 874121 874122 | Construction management—single-family housing construction Construction management—multifamily housing construction |
| 172100 | Painting and paper hanging | 874123 874124 | Construction management—manufacturing and industrial building construction Construction management—commercial and institutional building construction |
| 173100 | Electrical work | 874131 874132 874133 | Construction management—highway and street construction Construction management—bridge and tunnel construction Construction management—water, sewer, and pipeline construction |
| 174100 174200 | Masonry, stone setting, and other stone work Plastering, drywall, acoustical, and insulation work | 874134 | Construction management—power and communication transmission line construction |
| 174310 174320 | Fresco work Terrazzo, tile, marble, and mosaic work, except fresco work | 874135 874136 | Construction management—industrial nonbuilding construction Construction management—all other heavy construction |