

# 1992

## Census of Construction Industries

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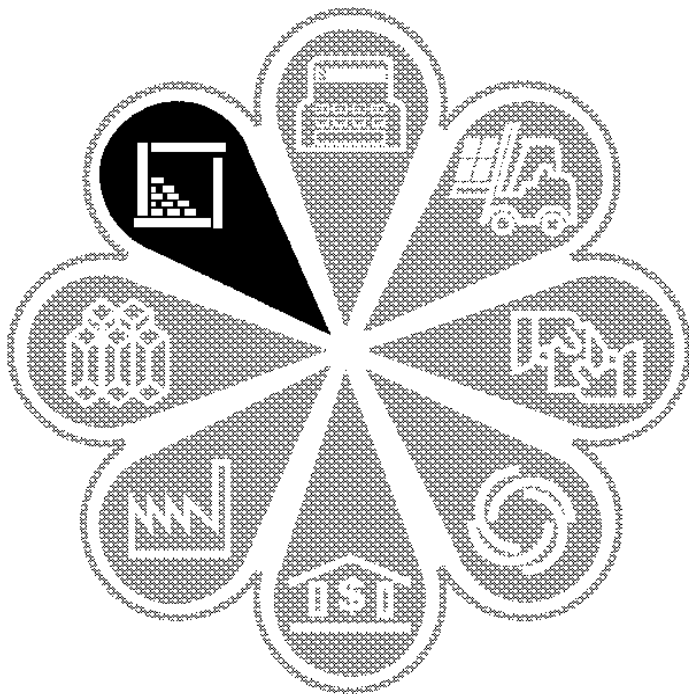
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GEOGRAPHIC AREA SERIES

### South Atlantic States

Delaware, District of Columbia, Florida,  
Georgia, Maryland, North Carolina,  
South Carolina, Virginia, West Virginia

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## Acknowledgments

Many persons participated in the various activities of the 1992 Census of Construction Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

This report was prepared in the Manufacturing and Construction Division. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Census and Related Programs, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, with staff assistance by **Tamara A. Cole**, **Jennifer L. Evans**, **Susan L. Hostetter**, and **Linda M. Taylor**. The sampling plans and variance and estimation specifications were developed by **Dennis K. Duke** and **Michael E. Kornbau**. The Systems Support Staff maintained the small computers and assisted in the management of computer output.

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**If you have any questions concerning the statistics in this report, call 301-457-4680.**

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Issued May 1996



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**Michael Kantor, Secretary**

**Economics and Statistics Administration**  
**Everett M. Ehrlich, Under Secretary**  
for Economic Affairs

**BUREAU OF THE CENSUS**  
**Martha Farnsworth Riche, Director**

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# 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.

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

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

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 and 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.

## AUTHORITY AND SCOPE

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 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

## IV INTRODUCTION

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

## AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State as well as business and industry data centers in many States also supply economic census statistics.

## WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, finance, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

## HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents 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 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

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 Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

## AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

## 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 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

# Census of Construction

## GENERAL

The 1992 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction or construction on their own account for sale as defined in the *Standard Industrial Classification Manual: 1987*<sup>1</sup> (SIC). This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

**Contract construction.** The SIC manual defines construction in three broad types of activity:

1. **Building construction by general contractors or by operative builders.** General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
2. **Heavy construction general contractors.** Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction, if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets, and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
3. **Construction by other special trade contractors.** These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

<sup>1</sup>*Standard Industrial Classification Manual: 1987.* For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1992. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

Prior to 1992, this census also included one industry classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. This industry is covered in the 1992 Census of Financial, Insurance, and Real Estate Industries.

## ESTABLISHMENT BASIS OF REPORTING

The census of construction industries 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 all or any part of 1992. The census of construction industries figures represent a summary 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 (wholesale or retail trade, service, manufacturing, mining, etc.) 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 or substantially accurate estimates could be prepared.

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 1992 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1992 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

## **SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES**

The companies included in the 1992 Census of Construction Industries were identified as part of an operation common to all 1992 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on nonemployers were obtained from administrative records of other agencies of the Federal Government.

### **Employer Companies**

**Developing the sampling frame for employer companies.** This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act (FICA) taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of

ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative-record data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1992 Economic Census the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1992 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

**Selecting the employer sample.** The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with 1991 administrative payroll of \$480,000 or more and a probability sample of single-establishment companies with payroll under that amount. Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 547,000 single-establishment employer companies initially classified as construction companies, 158,000 were included in the sample. All of the 11,000 establishments of multiestablishment companies were included in

the sample. There was a net increase in the sample of 48,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan area, or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

**Estimation procedures for 1992 and 1987 data.** Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1992 and 1987 published here are simple unbiased estimates of the form:

$$x'_c = \sum_{i=1}^{n_c} x_i / p_i$$

where:  $x'_c$  is the simple unbiased estimate of a characteristic for a publication cell.

$x_i$  is the reported value of a characteristic for an individual establishment in the publication cell.

$p_i$  is the selection probability of that firm.

$n_c$  is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

**Reliability of employer statistics.** Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used. The relative standard error is a measure of sampling variability; i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the

relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

## Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

One such "nonsampling" issue was raised in the processing of the 1992 statistics. For 1992, a relatively small number of nonemployer records with revenues more than \$1 million were excluded from tabulations. The exclusion of these records resulted in a significant decrease in total nonemployer revenues from 1987, where no upper limit was used. The large revenues are now assumed to be unreasonable for firms without employees. It is also likely that these revenues are duplicated in revenues reported by (or imputed to) firms with paid employees. A comprehensive study of this issue is planned prior to the 1997 census.

## CENSUS REPORT FORMS

Information for the 1992 Census of Construction Industries was obtained from employer establishments primarily through the use of 22 questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179. Establishments with 1991 administrative payroll of \$1,080,000 or more all received the standard form. For those sample establishments with payroll under that amount, half received the standard form and half received the short form. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and advisory groups.

Also, approximately 6,000 establishments in SIC's 1521, 1629, and 1799 were surveyed in the Census of Construction Industries 1989 Pretest. This survey consisted of four panels which received one of four experimental questionnaires and one panel which received the control questionnaire. Along with the questionnaire, these establishments received an evaluation questionnaire, which requested information about respondents' reactions to the questionnaire, problems in completing the questionnaire, and how long it took to complete the questionnaire. Results from the 1989 Pretest questionnaire are reflected as reworded questions, improved instructions, and restructured value of business questions in the 1992 questionnaires.

## DATA PROCESSING

The 1992 census report forms were mailed out in December 1992. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, IN, where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1993.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group) and State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

## GEOGRAPHIC CLASSIFICATION

Information for the 1992 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical location of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

## CHANGE IN COLLECTION METHODOLOGY FOR VALUE OF CONSTRUCTION WORK DONE

In 1987 and 1992, the "value of construction work" was collected to better measure actual construction activity done during the year. In 1992, this item was collected as a total of three separate items. These items ( receipts from construction contract work, value of speculative construction work, and value of construction work done for own use) were collected separately to emphasize construction activity that had been poorly reported in previous censuses.

Receipts from the sale of land were not collected separately in 1992, as in 1987, but are still excluded from the value of construction work done.

All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

**DUPLICATION IN VALUE OF CONSTRUCTION WORK**

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census contains varying amounts of duplication, since 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. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries results from the use of products of these other industries as input materials by construction establishments. "Value added" avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added" is defined in the 1992 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels.

**SPECIAL TABULATIONS**

Special tabulations of data collected in the 1992 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and 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) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233.

To discuss a special tabulation before submitting specifications, call 301-457-4680.

**COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA**

Data contained in the reports of the 1992 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction

Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity; whereas, the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities, and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place 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 the census of construction industries.

Data contained in the reports of the census of construction industries 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.

**ABBREVIATIONS AND SYMBOLS**

The following abbreviations and symbols are used in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- Represents zero.
- † Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
- †† Represents dollar value of business done less costs for construction work subcontracted to others and costs for materials, components, supplies, and fuels. In 1987, for SIC 1531, land receipts were collected as a component of dollar value of business and, therefore, were subtracted from this value. (See Duplication in Value of Construction Work.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
- (X) Not applicable.
- (Z) Less than half of the unit shown.
- n.s.k. Not specified by kind.

# Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By industry	By employment size	By size class of dollar value of business done	By CMSA, PMSA, and MSA <sup>1</sup>
Assets and depreciation (gross book value):					
Beginning of year—buildings, machinery, and equipment . . . . .	4				
End of year—total . . . . .	2, 4	2	6	7	
End of year—buildings, machinery, and equipment . . . . .	4				
Depreciation charges during year—buildings, machinery, and equipment . . . . .	4				
Capital expenditures:					
Total capital expenditures . . . . .	2, 4	2	6	7	11
New buildings—machinery and equipment . . . . .	4				
Used buildings—machinery and equipment . . . . .	4				
Communication services, costs for . . . . .	3				
Employees:					
All employees—average number . . . . .	1, 2, 3	2	6	7	11
Construction workers—average number . . . . .	2, 3, 9	2, 9			
Construction workers—quarterly . . . . .	3, 9	9			
Other employees—average number . . . . .	3				
Other employees—quarterly . . . . .	3				
Establishments:					
Number in business during year:					
All . . . . .	1				
With payroll . . . . .	1, 2, 3, 5, 9	2, 9	6	7	11
Without payroll . . . . .	1				
Fringe benefits—legally required and voluntary expenditures . . . . .	3				
Inventories . . . . .	5				
Materials, components, supplies, and fuels—costs for . . . . .	2, 3	2	6	7	11
Ownership—private or government owned . . . . .	3				
Payroll:					
First-quarter, all employees . . . . .	3				
Annual:					
All employees . . . . .	2, 3	2	6	7	11
Construction workers . . . . .	2, 3	2			
Other employees . . . . .	3				
Power, fuels, and lubricants—costs for . . . . .	3				
Proprietors and working partners:					
All establishments . . . . .	1				
Establishments with payroll . . . . .	1, 3				
Establishments without payroll . . . . .	1				
Ratios, selected industry . . . . .	10	10			
Receipts and value:					
Dollar value of business done:					
All establishments . . . . .	1				
Establishments with payroll . . . . .	1, 3		6	7	
Establishments without payroll . . . . .	1				
Value of construction work, total . . . . .	2, 3, 5, 8	2	6	7	11
For work subcontracted in from others . . . . .	2, 3	2			
Other business receipts . . . . .	3				

See footnotes at end of table.

Statistics	By State	By industry	By employment size	By size class of dollar value of business done	By CMSA, PMSA, and MSA <sup>1</sup>
Receipts and value:—Con.					
Net value of construction work . . . . .	2, 3	2	6	7	11
Value added . . . . .	2, 3	2	6	7	11
Rental costs:					
Total . . . . .	2, 3	2	6	7	
For machinery and equipment . . . . .	3				
For buildings . . . . .	3				
Repairs to buildings and other structures . . . . .	3				
Repairs to machinery and equipment . . . . .	3				
Subcontract work to others, costs for . . . . .	2, 3	2	6	7	11
Type and class of construction <sup>2</sup> . . . . .	8				

Note: Data for 1987 and earlier years are also available in some of these tables.

<sup>1</sup>CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan statistical area.

<sup>2</sup>Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work.



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## Delaware

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Delaware. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 5,684 establishments in this State operating in the construction industries. These establishments accounted for \$2.0 billion in total dollar value of business done.

Most of the 5,684 construction establishments were small. Of the total, 3,613 were nonemployers, and over half of the employer establishments had less than 5 employees. The 790 construction establishments with 5 employees or more, while representing only 14 percent of all establishments, accounted for more than 82 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$1.83 billion in total dollar value of business done. Of this amount, \$1.80 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$433 million, leaving net value of construction work of \$1.4 billion. In addition, these establishments paid out \$627 million for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$839 million. (See Introduction and appendixes for explanation of terms.)

There were 2,071 establishments with total employment averaging 17,677 during the year. Total payroll for 1992 was \$445 million.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 3,613 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$128 million. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

1992   
1987 

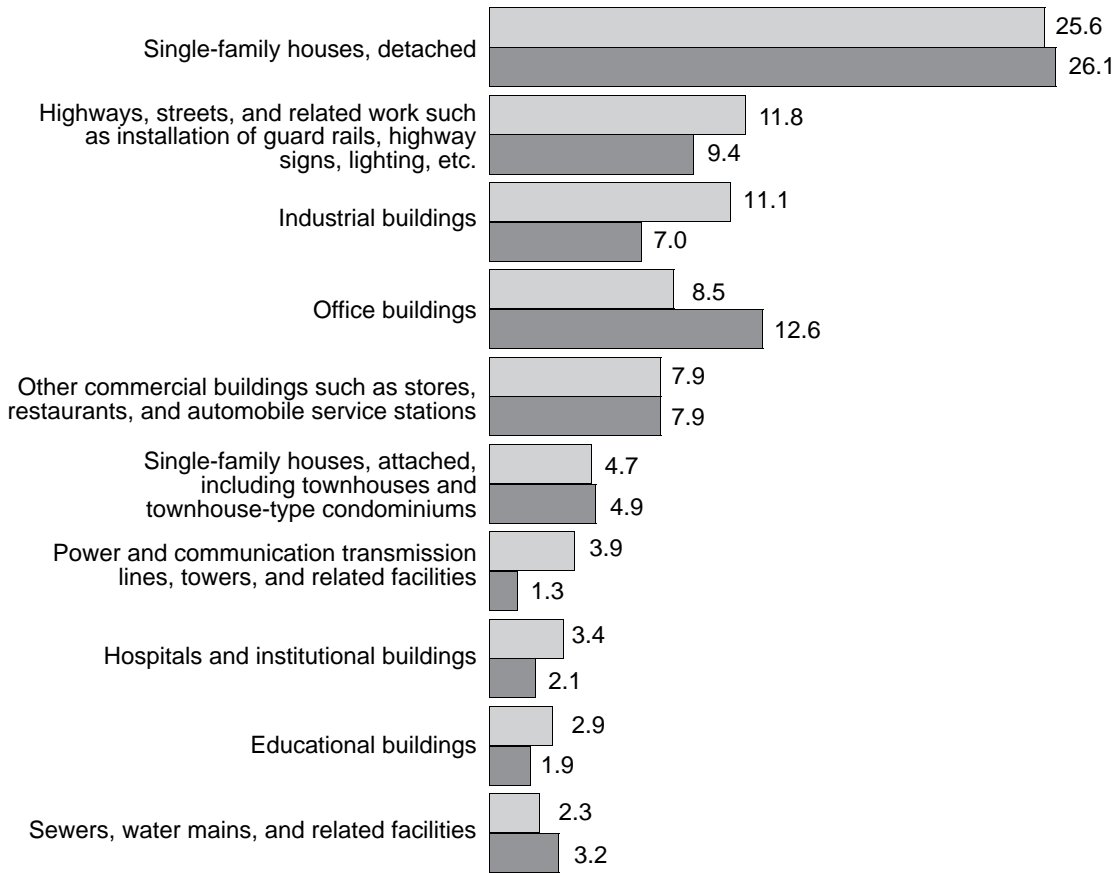


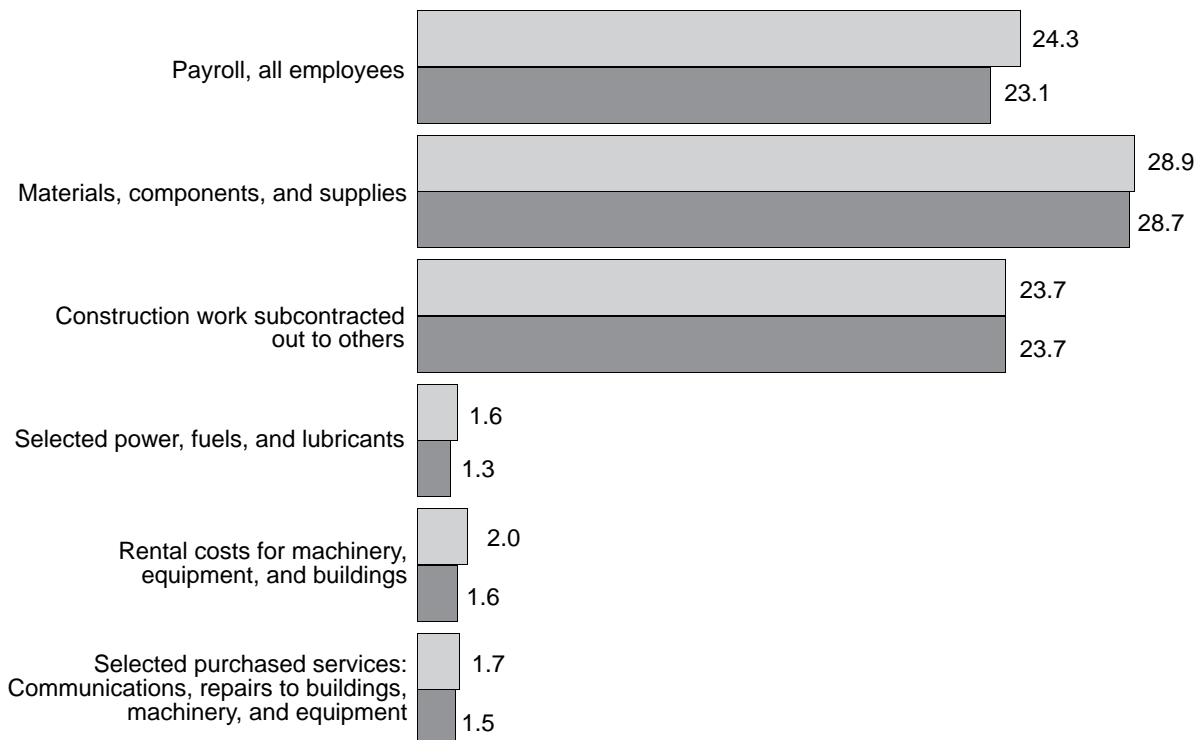


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)

1992   
1987 



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			J
<b>1992</b>															
15, 16, 17	Construction industries -----	5 684	3 918	17 677	1 958 307	3 613	3 327	127 596	2 071	591	17 677	1 830 711	1	2	
15	Building construction—General contractors and operative builders ----	1 476	842	4 410	795 700	806	651	51 897	670	191	4 410	743 803	3	4	
16	Heavy construction other than building construction—contractors -----	134	41	3 355	379 080	39	35	2 717	95	6	3 355	376 363	2	1	
17	Special trade contractors -----	4 074	3 036	9 912	783 527	2 768	2 641	72 982	1 306	395	9 912	710 545	2	2	
1711	Plumbing, heating, and air-conditioning --	478	255	2 461	207 658	245	215	8 642	233	(S)	2 461	199 016	6	4	
1731	Electrical work -----	415	253	1 554	127 717	234	212	6 258	181	(S)	1 554	121 459	4	2	
<b>1987</b>															
15, 16, 17	Construction industries <sup>2</sup> -----	5 427	3 788	19 728	2 036 295	3 533	3 406	263 140	1 894	382	19 728	1 773 155	1	2	
15	Building construction—General contractors and operative builders ----	1 520	861	5 141	752 041	858	749	90 829	662	112	5 141	661 212	5	4	
16	Heavy construction other than building construction—contractors -----	107	27	3 677	332 255	26	26	873	81	1	3 677	331 382	3	2	
17	Special trade contractors -----	3 608	2 713	10 835	830 343	2 484	2 451	82 466	1 124	262	10 835	747 877	3	3	
1711	Plumbing, heating, and air-conditioning --	451	239	2 658	209 244	194	182	7 353	257	57	2 658	201 891	4	5	
1731	Electrical work -----	372	257	1 622	118 074	217	216	9 087	155	41	1 622	108 987	4	6	

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries<sup>1</sup></b> .....	<b>2 071</b>	<b>17 677</b>	<b>13 680</b>	<b>445 084</b>	<b>313 479</b>	<b>1 798 873</b>	<b>1 365 509</b>	<b>839 169</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	458	1 892	1 394	39 533	23 919	202 108	137 883	65 299
1522	Other residential buildings .....	21	217	152	(D)	2 765	15 074	(D)	7 882
1531	Operative builders .....	62	532	255	11 850	4 459	159 524	102 900	60 398
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	30	712	607	23 345	18 165	95 697	48 404	35 048
1542	Nonresidential buildings, n.e.c. ....	99	1 056	711	28 817	15 500	250 909	115 247	70 011
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	30	1 398	1 083	40 362	26 273	193 292	160 517	92 853
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	(S)	*75	52	2 598	1 559	11 913	(D)	5 453
1623	Water, sewer, and utility lines .....	21	1 348	1 143	48 414	38 391	125 057	109 600	78 345
1629	Heavy construction, n.e.c. ....	33	535	450	13 730	11 084	42 984	38 020	28 708
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	233	2 461	1 854	62 626	44 478	196 478	170 518	104 753
1721	Painting and paper hanging .....	128	542	448	9 683	7 248	22 946	20 805	16 449
1731	Electrical work .....	181	1 554	1 196	43 425	32 926	120 683	116 247	71 758
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	137	892	770	17 354	14 474	50 454	48 744	30 750
1742	Plastering, drywall, and insulation work .....	77	619	509	14 999	10 931	40 665	36 700	22 834
1743	Terrazzo, tile, marble, and mosaic work .....	19	51	41	1 418	935	3 849	3 770	2 216
175	Carpentry and floor work:								
1751	Carpentry .....	123	509	431	8 104	6 592	33 190	28 212	15 371
1752	Floor laying and other floor work .....	39	160	123	3 611	2 537	14 327	13 329	6 555
1761	Roofing, siding, and sheet metal work .....	99	757	556	18 435	11 540	52 471	50 135	29 138
1771	Concrete work .....	106	898	766	16 481	12 766	50 932	45 442	28 398
1781	Water well drilling .....	20	79	56	1 727	1 271	6 346	6 065	3 598
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	14	227	167	7 539	5 164	24 392	18 049	10 796
1793	Glass and glazing work .....	32	121	78	2 681	1 638	8 603	8 510	4 693
1794	Excavation work .....	31	237	200	6 305	4 964	26 670	22 836	13 621
1795	Wrecking and demolition work .....	4	*79	*65	(D)	*1 206	*5 137	*4 629	*2 800
1796	Installing building equipment, n.e.c. ....	12	133	92	3 995	3 393	(S)	(S)	(S)
1799	Special trade contractors, n.e.c. ....	51	592	482	12 197	9 301	32 039	29 933	22 109

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
558 178	433 363	452 856	37 100	27 505	307 441	19 728	1 697 841	790 909	1	1	5	15, 16, 17 15
74 755 (D)	64 225 (D)	6 578 48	938 (S)	2 218 163	21 562 (D)	2 326 510	208 310 48 994	79 387 15 676	8 4	7 (D)	27 (Z)	152 1521 1522
46 811 (D)	56 624	*965 (D)	1 263	479	3 087	748	143 834	26 149	14	11	27	1531
50 795	47 293 135 663	6 945	1 733 1 667	(S) 795	*6 839 11 031	427 1 130	41 939 179 836	15 859 45 675	8 5	11 3	(S) 22	154 1541 1542
(D)	32 775	39 994	9 275	9 226	92 091	1 666	178 818	70 430	3	2	5	1611
(D) 31 372 11 328	(D) 15 458 4 963	824 14 546 11 082	191 3 371 1 579	546 2 279 1 895	4 692 39 924 21 199	*46 970 995	(D) (D) 76 811	*3 339 33 831 52 633	40 1 5	(D) 1 4	31 2 4	162 1622 1623 1629
68 303	25 960	93 706	4 249	2 166	24 315	2 658	197 689	104 334	6	5	30	1711
4 401	2 141	11 550	291	*370	2 343	462	25 393	19 352	14	12	41	1721
45 265	4 436	63 042	1 516	783	11 586	1 622	108 491	66 166	4	2	38	1731
17 998 14 611 1 554	1 710 3 965 *79	29 034 35 317 2 585	586 521 40	*815 369 (S)	8 256 4 073 (S)	1 202 863 50	61 745 47 127 (D)	37 803 28 470 2 731	10 8 16	10 5 12	40 34 (S)	174 1741 1742 1743
13 214 6 775	4 978 (S)	11 553 7 901	284 (S)	604 *68	6 667 1 111	437 137	24 293 7 517	13 823 4 220	10 20	16 10	36 52	175 1751 1752
21 442	2 336	24 500	885	494	7 931	800	51 477	32 159	7	6	36	1761
17 210	5 491	34 201	2 114	969	9 302	931	80 113	41 206	8	7	24	1771
2 507	*281	1 235	96	80	(S)	133	11 483	6 785	29	35	14	1781
7 366 (D)	6 344 *94	17 963 (S)	445 *158	333 (D)	(D) 126	314 (D)	24 216 (D)	17 217 (D)	10 29	3 36	(Z) (D)	1791 1793
9 468 *1 829 (S)	3 834 *508 565	15 530 (D) (S)	3 694 *557 (S)	*1 000 (D)	8 554 3 004 1 855 (D)	598 (D) 252 349	9 (D) (D) 18 740 20 388	34 117 (D) (D) 12 284 13 413	9 57 (Z)	12 53 (S)	69 (D) (Z) 65	1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

DELAWARE DE-7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	2 071	1 894	1 391	1 583	1	2	4	6
Proprietors and working partners.....	591	382	371	682	6	12	9	11
All employees** .....	17 677	19 728	15 618	17 826	1	1	2	2
Construction workers:								
March.....	12 265	14 182	11 924	13 746	1	2	2	2
May.....	13 977	15 766	13 880	14 446	1	2	2	2
August.....	14 449	17 213	13 378	16 146	2	2	2	3
November.....	14 027	16 456	12 734	14 800	2	2	2	2
Average.....	13 680	15 904	13 086	14 794	1	2	2	2
Other employees:								
March.....	3 980	3 837	2 532	3 013	2	3	3	2
May.....	4 004	3 752	(NA)	(NA)	3	3	(NA)	(NA)
August.....	4 014	3 881	(NA)	(NA)	2	3	(NA)	(NA)
November.....	3 992	3 824	(NA)	(NA)	2	3	(NA)	(NA)
Average.....	3 997	3 824	(NA)	(NA)	2	3	(NA)	(NA)
Payroll, all employees .....	445 084	409 170	296 027	246 869	1	1	2	1
Payroll, construction workers .....	313 479	304 509	245 224	194 773	1	1	1	2
Payroll, other employees .....	131 605	104 660	50 803	52 096	2	2	2	2
First-quarter payroll, all employees .....	95 832	81 981	67 274	53 966	1	2	1	1
Fringe benefits, all employees .....	104 792	87 290	55 597	46 592	2	2	2	1
Legally required expenditures.....	69 261	59 149	36 990	21 666	2	2	2	2
Voluntary expenditures.....	35 531	28 141	18 607	24 925	2	2	2	1
Dollar value of business done .....	1 830 711	1 773 155	1 530 449	1 090 402	2	2	1	1
Value of construction work .....	1 798 873	1 697 841	1 497 170	1 067 681	2	2	1	1
Value of construction work subcontracted in from others .....	452 856	439 214	233 465	198 204	3	3	11	(Z)
Other business receipts .....	31 838	45 259	29 281	22 721	5	7	2	12
Net value of construction† .....	1 365 509	1 277 477	1 065 262	746 787	1	2	1	1
Value added†† .....	839 169	790 909	602 031	402 371	2	2	2	1
Selected costs .....	991 542	952 191	924 420	681 388	2	2	1	1
Materials, components, and supplies .....	528 970	509 363	474 638	346 534	2	2	1	1
Construction work subcontracted out to others .....	433 363	420 364	431 908	320 895	5	3	1	1
Selected power, fuels, and lubricants .....	29 208	22 463	17 873	13 959	2	2	3	2
Electricity.....	4 968	3 306	2 369	1 833	4	3	3	4
Natural gas.....	1 252	491	413	301	6	4	15	14
Gasoline and diesel fuel .....	21 107	17 327	14 038	8 238	2	2	3	3
On highway use.....	15 805	13 824	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use.....	5 302	3 503	(NA)	(NA)	2	3	(NA)	(NA)
Other, including lubricating oils and greases.....	1 881	1 337	1 052	3 587	4	6	7	2
Rental cost for machinery, equipment, and buildings .....	37 100	27 577	15 132	8 508	3	2	2	1
For machinery and equipment .....	26 709	20 713	9 973	7 202	3	2	2	1
For buildings.....	10 391	6 864	5 159	1 306	8	6	3	5
Selected purchased services .....	31 747	26 350	17 106	11 970	2	3	3	2
Communication services .....	8 528	5 333	3 935	3 131	4	3	4	3
Repairs to buildings and other structures .....	1 918	1 747	1 219	1 093	13	6	4	6
Repairs to machinery and equipment .....	21 301	19 269	11 952	7 747	2	4	4	2
Ownership of construction projects:								
Value of construction work .....	1 798 873	1 697 841	1 497 170	1 067 681	2	2	1	1
Government owned .....	379 469	296 443	246 454	148 733	3	5	6	1
Federal .....	55 067	53 859	(NA)	(NA)	14	10	(NA)	(NA)
State and local .....	324 402	242 584	(NA)	(NA)	2	6	(NA)	(NA)
Privately owned .....	1 419 404	1 401 397	1 250 716	918 948	3	2	2	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	295 723	228 947	3	5
Capital expenditures, other than land .....	27 505	43 290	5	5
New .....	17 913	36 509	6	4
Used .....	9 592	6 780	10	20
Retirements and disposition of depreciable assets .....	15 787	13 292	6	24
End-of-year gross book value of depreciable assets .....	307 441	258 945	3	4
Depreciation charges during year .....	31 619	29 763	4	5
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	34 044	49 021	6	11
Capital expenditures, other than land .....	2 062	7 792	30	10
New buildings and other structures .....	752	5 809	5	6
Used buildings and other structures .....	* 1 310	1 982	47	34
Retirements and disposition of depreciable assets .....	1 362	* 4 261	12	64
End-of-year gross book value of depreciable assets .....	34 743	52 553	6	9
Depreciation charges during year .....	3 235	4 113	9	7
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	261 680	179 925	3	4
Capital expenditures, other than land .....	25 443	35 497	5	5
New machinery and equipment, including automobiles and trucks .....	17 161	30 699	7	4
New automobiles and trucks, intended primarily for highway use .....	5 908	14 746	9	6
Used machinery and equipment, including automobiles and trucks .....	8 282	4 797	8	19
Retirements and disposition of depreciable assets .....	14 424	9 030	7	18
End-of-year gross book value of depreciable assets .....	272 698	206 392	3	4
Depreciation charges during year .....	28 383	25 650	4	5

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	2 071	1
Value of construction work .....	1 798 873	2
Establishments with inventories:		
Number .....	586	5
Value of construction work .....	680 420	2
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	14 322	17
End of 1991, materials and supplies .....	11 445	7
Establishments with no inventories:		
Number .....	715	5
Value of construction work .....	626 172	5
Establishments not reporting:		
Number .....	770	4
Value of construction work .....	492 281	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	2 071	(S)	357	238	148	33	10	4	—	—
All employees** .....	17 677	2 542	2 335	3 121	4 509	2 208	1 356	1 607	—	—
Payroll, all employees .....	445 084	39 272	47 407	72 605	124 739	68 756	35 624	56 681	—	—
Dollar value of business done .....	1 830 711	221 249	198 174	280 657	596 183	233 048	112 807	188 593	—	—
Value of construction work .....	1 798 873	219 805	196 341	274 997	581 584	227 773	109 796	188 577	—	—
Net value of construction work† .....	1 365 509	179 293	144 124	219 829	390 788	188 955	90 365	152 156	—	—
Value added†† .....	839 169	104 303	86 209	135 825	236 527	123 022	61 452	91 831	—	—
Cost of materials, components, supplies, and fuels .....	558 178	76 434	59 747	89 664	168 860	71 208	31 924	60 341	—	—
Cost of construction work subcontracted out to others .....	433 363	40 512	52 218	55 168	190 796	38 818	19 431	36 421	—	—
Rental cost for machinery, equipment, and buildings .....	37 100	2 151	1 865	5 567	10 109	4 811	5 088	7 510	—	—
Capital expenditures, other than land .....	27 505	3 345	2 570	4 906	5 676	1 673	9 335	(D)	—	—
End-of-year gross book value of depreciable assets .....	307 441	(S)	24 503	49 397	58 904	50 287	97 224	(D)	—	—
<b>1987</b>										
All employees** .....	19 728	(S)	2 533	3 849	4 599	2 920	2 174	1 678	(D)	—
Value of construction work .....	1 697 841	(S)	222 968	288 652	421 709	282 755	328 286	(D)	(D)	—
Value added†† .....	790 909	(S)	106 527	131 560	182 175	132 546	97 075	72 004	(D)	—
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	7	9	8	3	(Z)	(Z)	(Z)	—	—
Net value of construction work† .....	1	7	10	6	3	(Z)	(Z)	(Z)	—	—
Capital expenditures, other than land .....	5	17	25	21	10	(Z)	(Z)	(D)	—	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	2 071	(S)	(S)	(S)	584	332	235	193	78	33	33
All employees** .....	17 677	(S)	(S)	(S)	1 642	1 812	2 345	3 341	2 404	1 777	3 497
Payroll, all employees .....	445 084	(S)	(S)	(S)	23 357	33 349	49 371	83 198	62 957	58 058	125 899
Dollar value of business done .....	1 830 711	(S)	(S)	(S)	90 602	120 219	173 362	288 411	250 327	231 388	643 641
Value of construction work .....	1 798 873	(S)	(S)	(S)	90 198	119 880	169 113	283 952	245 615	228 762	628 714
Net value of construction work† .....	1 365 509	(S)	(S)	(S)	82 482	108 803	140 356	220 133	177 996	184 285	421 425
Value added†† .....	839 169	(S)	(S)	(S)	47 674	64 415	84 924	128 859	114 456	112 757	267 108
Cost of materials, components, supplies, and fuels .....	558 178	(S)	(S)	(S)	35 212	44 726	59 680	95 733	68 252	74 154	169 244
Cost of construction work subcontracted out to others .....	433 363	(S)	(S)	(S)	7 716	11 077	28 757	63 819	67 619	44 477	207 289
Rental cost for machinery, equipment, and buildings .....	37 100	(S)	(S)	(S)	(S)	1 635	3 853	4 559	4 780	6 653	14 163
Capital expenditures, other than land .....	27 505	(S)	(S)	(S)	2 059	2 575	1 411	6 224	2 664	1 953	10 113
End-of-year gross book value of depreciable assets .....	307 441	(S)	(S)	(S)	15 315	18 411	21 387	50 658	39 914	40 059	116 758
<b>1987</b>											
All employees** .....	19 728	(S)	(S)	(S)	(S)	(S)	(S)	4 105	2 615	2 295	3 889
Value of construction work .....	1 697 841	(S)	(S)	(S)	(S)	(S)	(S)	313 265	239 988	247 890	524 157
Value added†† .....	790 909	(S)	(S)	(S)	(S)	(S)	(S)	159 256	105 679	126 353	196 297
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	(S)	10	9	10	5	3	(Z)	1
Net value of construction work† .....	1	(S)	(S)	(S)	9	10	10	6	3	(Z)	3
Capital expenditures, other than land .....	5	(S)	(S)	(S)	26	24	22	18	6	(Z)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.



**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>1 798 873</b>	<b>1 031 752</b>	<b>411 484</b>	<b>293 866</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
Building construction .....	1 292 822	811 366	297 477	183 978	3	3	4	5
Single-family houses .....	545 883	397 096	93 443	55 345	5	6	10	8
Single-family houses, detached .....	460 858	334 499	79 582	46 778	5	7	10	10
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	85 025	62 597	13 861	8 567	14	17	24	13
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	37 987	16 666	(S)	(S)	5	6	(S)	(S)
Other residential buildings, including hotels, motels, and tourist cabins .....	10 141	3 864	4 316	1 962	11	11	16	13
Office buildings .....	153 653	73 096	52 599	27 959	6	6	9	8
Other commercial buildings such as stores, restaurants, and automobile service stations .....	142 453	81 064	29 828	31 561	4	4	5	11
Industrial buildings and warehouses .....	236 103	137 629	60 925	37 549	5	6	6	6
Industrial buildings .....	199 933	113 469	54 830	31 635	3	4	5	5
Warehouses .....	36 169	24 160	6 095	5 914	17	16	26	12
Educational buildings .....	52 177	(S)	14 508	3 946	2	(S)	7	7
Hospitals and institutional buildings .....	60 398	(D)	(D)	(D)	2	(D)	(D)	(D)
Farm buildings, nonresidential .....	9 517	(D)	(D)	(D)	17	(D)	(D)	(D)
Other nonresidential buildings .....	44 509	(D)	(D)	(D)	16	(D)	(D)	(D)
Nonbuilding construction .....	444 280	220 385	114 007	109 888	1	2	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	212 177	104 545	70 645	36 987	2	2	2	6
Private driveways and parking areas .....	11 942	(D)	(D)	(D)	25	(D)	(D)	(D)
Power and communication transmission lines, towers, and related facilities .....	69 636	(D)	(D)	(Z)	(D)	(D)	(D)	(D)
Sewers, water mains, and related facilities .....	40 694	25 495	11 475	3 723	2	4	4	4
Sewers, sewer lines, septic systems, and related facilities .....	24 020	15 612	6 376	2 031	3	4	1	4
Water mains and related facilities .....	16 674	9 883	5 099	1 692	3	3	9	5
Pipeline construction other than sewer or water lines .....	20 803	10 993	3 812	5 998	6	(Z)	(Z)	22
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	26 083	7 609	5 776	12 698	4	1	20	1
Power plants .....	18 862	(D)	(D)	9 654	(Z)	(D)	(D)	(Z)
Sewage treatment and water treatment plants .....	8 564	7 016	1 317	*230	11	7	28	55
Other nonbuilding construction .....	35 519	(D)	(D)	(D)	8	(D)	(D)	(D)
Construction work, n.s.k. ....	61 771	(NA)	(NA)	(NA)	13	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>1 697 841</b>	<b>1 106 636</b>	<b>303 684</b>	<b>215 447</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
Building construction .....	1 231 467	898 269	219 707	113 489	2	3	4	5
Single-family houses .....	526 704	424 966	59 553	42 184	4	5	12	11
Single-family houses, detached .....	442 918	352 223	54 737	35 957	5	6	13	12
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	83 785	72 742	4 815	6 227	8	8	16	20
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	59 180	49 746	4 923	4 510	6	7	20	27
Other residential buildings, including hotels, motels, and tourist cabins .....	42 059	25 128	13 632	3 298	12	13	22	19
Office buildings .....	213 543	143 932	52 871	16 739	5	8	6	7
Other commercial buildings such as stores, restaurants, and automobile service stations .....	133 943	98 868	21 511	13 563	4	4	12	15
Industrial buildings and warehouses .....	158 663	103 946	34 517	20 198	2	2	3	5
Industrial buildings .....	119 597	74 522	28 750	16 324	2	3	4	5
Warehouses .....	39 065	29 424	5 767	3 874	2	2	5	14
Educational buildings .....	32 388	12 915	13 486	5 987	5	3	6	20
Hospitals and institutional buildings .....	36 010	23 340	10 713	1 956	2	1	3	7
Other nonresidential buildings .....	28 977	15 428	8 501	5 054	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction .....	394 300	208 366	83 976	101 957	2	3	4	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	160 420	81 033	55 907	23 480	3	2	6	3
Private driveways and parking areas .....	20 048	12 440	6 018	1 588	8	10	6	16
Power and communication transmission lines, towers, and related facilities .....	22 887	(D)	(D)	6 356	5	(D)	(D)	5
Sewers, water mains, and related facilities .....	54 627	32 696	3 281	18 649	4	3	8	3
Sewers, sewer lines, septic systems, and related facilities .....	19 543	16 617	(D)	(D)	5	3	(D)	(D)
Water mains and related facilities .....	35 084	16 078	(D)	(D)	3	3	(D)	(D)
Pipeline construction other than sewer or water lines .....	17 877	16 472	(D)	(D)	(Z)	(Z)	(D)	(D)
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	13 001	(D)	(D)	(Z)	(D)	(D)	(D)	(D)
Power plants .....	41 861	(D)	(D)	(D)	(Z)	(D)	(D)	(D)
Sewage treatment and water treatment plants .....	13 750	11 225	(D)	(Z)	(Z)	(Z)	(D)	(D)
Other nonbuilding construction .....	49 829	38 758	4 692	6 347	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k. ....	72 073	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(Z)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December	A	B	C	D	E	F
				A	B	C	D	E	F	A	B	C	D
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>2 071</b>	<b>13 680</b>	<b>12 265</b>	<b>13 977</b>	<b>14 449</b>	<b>14 027</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>												
152	General contractors, residential buildings:												
1521	Single-family houses -----	458	1 394	1 286	1 401	1 537	1 354	6	8	7	8	9	10
1522	Other residential buildings -----	21	152	150	154	166	136	27	4	(Z)	4	10	(Z)
1531	Operative builders -----	62	255	215	253	280	271	20	14	10	11	15	17
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	30	607	606	500	551	772	36	5	5	6	7	6
1542	Nonresidential buildings, n.e.c. ---	99	711	592	1 016	633	605	16	5	5	3	6	6
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>												
1611	Highway and street construction ----	30	1 083	534	1 224	1 404	1 171	12	3	4	4	4	2
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	(S)	52	34	48	52	75	(S)	29	22	31	29	30
1623	Water, sewer, and utility lines -----	21	1 143	1 193	1 085	1 138	1 157	8	1	1	1	1	1
1629	Heavy construction, n.e.c. -----	33	450	430	443	443	485	17	5	3	5	5	5
<b>17</b>	<b>Special trade contractors:</b>												
1711	Plumbing, heating, and air-conditioning -----	233	1 854	1 699	1 788	1 965	1 964	8	6	4	6	7	7
1721	Painting and paper hanging -----	128	448	372	461	534	424	10	14	10	14	16	12
1731	Electrical work -----	181	1 196	1 191	1 182	1 261	1 150	5	4	5	4	4	4
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	137	770	725	789	795	769	5	10	9	9	11	14
1742	Plastering, drywall, and insulation work -----	77	509	563	486	487	501	11	8	11	8	11	10
1743	Terrazzo, tile, marble, and mosaic work -----	19	41	40	41	42	39	30	14	14	14	14	15
175	Carpentry and floor work:												
1751	Carpentry -----	123	431	389	459	(S)	444	12	11	11	10	(S)	10
1752	Floor laying and other floor work --	39	123	119	114	132	125	15	23	21	22	22	24
1761	Roofing, siding, and sheet metal work -----	99	556	510	577	564	571	16	8	8	7	8	8
1771	Concrete work -----	106	766	642	792	883	747	11	9	11	9	9	10
1781	Water well drilling -----	20	56	50	65	59	51	37	28	31	35	26	31
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	14	167	146	166	188	167	30	10	9	8	16	8
1793	Glass and glazing work -----	32	78	53	78	83	*98	34	31	22	31	31	40
1794	Excavation work -----	31	200	166	214	193	227	11	8	2	10	11	7
1795	Wrecking and demolition work -----	4	*65	*60	*62	*69	*68	35	55	56	56	59	53
1796	Installing building equipment, n.e.c. -----	12	92	73	91	81	121	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1799	Special trade contractors, n.e.c. ---	51	482	427	488	480	535	20	8	10	9	9	6

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>8.5</b>	<b>25.2</b>	<b>131.5</b>	<b>.247</b>	<b>.310</b>	<b>.241</b>	<b>.252</b>	<b>.021</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.1	20.9	145.0	.196	.370	.318	.033	.005
1522	Other residential buildings -----	10.3	(D)	99.2	(D)	(D)	(D)	.003	(S)
1531	Operative builders -----	8.5	22.3	625.6	.074	.293	.355	*.006	.008
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	23.6	32.8	157.7	.244	(D)	.494	(D)	.018
1542	Nonresidential buildings, n.e.c. -----	10.7	27.3	352.9	.115	.202	.541	.028	.007
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	46.2	28.9	178.5	.209	(D)	.170	.207	.048
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	7.5	34.6	229.1	.218	(D)	(D)	.069	.016
1623	Water, sewer, and utility lines -----	63.7	35.9	109.4	.387	.251	.124	.116	.027
1629	Heavy construction, n.e.c. -----	16.0	25.7	95.5	.319	.264	.115	.258	.037
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	10.6	25.4	106.0	.319	.348	.132	.477	.022
1721	Painting and paper hanging -----	4.2	17.9	51.2	.422	.192	.093	.503	.013
1731	Electrical work -----	8.6	27.9	100.9	.360	.375	.037	.522	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.5	19.5	65.5	.344	.357	.034	.575	.012
1742	Plastering, drywall, and insulation work -----	8.1	24.2	79.9	.369	.359	.098	.868	.013
1743	Terrazzo, tile, marble, and mosaic work -----	2.7	27.8	93.9	.368	.404	*.021	.672	.010
175	Carpentry and floor work:								
1751	Carpentry -----	4.2	15.9	77.0	.244	.398	.150	.348	.009
1752	Floor laying and other floor work -----	4.1	22.6	116.5	.252	.473	(S)	.551	(S)
1761	Roofing, siding, and sheet metal work -----	7.6	24.4	94.4	.351	.409	.045	.467	.017
1771	Concrete work -----	8.5	18.4	66.5	.324	.338	.108	.671	.042
1781	Water well drilling -----	4.0	21.9	113.3	.272	.395	.044	*.195	*.015
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	15.8	33.2	146.1	.309	.302	.260	.736	.018
1793	Glass and glazing work -----	3.8	22.2	110.3	.312	(D)	*.011	(S)	*.018
1794	Excavation work -----	7.6	26.6	133.4	.236	.355	.144	.582	.139
1795	Wrecking and demolition work -----	22.3	(D)	79.0	(D)	.356	.099	(D)	.108
1796	Installing building equipment, n.e.c. -----	11.1	30.0	(S)	(S)	(S)	(S)	(S)	(S)
1799	Special trade contractors, n.e.c. -----	11.6	20.6	66.5	.381	.306	.066	.255	.039

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>PHILADELPHIA–WILMINGTON–ATLANTIC CITY, PA–NJ–DE–MD CMSA</b>											
15,16,17	Construction industries .....	13 010	105 943	3 072 558	12 663 461	9 443 230	6 052 455	3 736 651	3 220 232	163 018	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	2 309	8 868	182 063	1 032 402	732 371	377 108	369 480	300 031	7 495	3	4
1522	Other residential buildings .....	97	1 003	29 588	139 771	82 251	57 972	27 975	57 520	499	13	10
1531	Operative builders .....	366	2 767	77 295	985 023	632 627	419 108	278 463	352 396	5 653	4	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	165	2 943	100 243	449 964	246 674	194 050	61 968	203 290	3 201	5	7
1542	Nonresidential buildings, n.e.c. ....	589	7 924	272 380	2 114 457	746 560	474 380	373 287	1 367 897	6 458	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	175	4 978	161 333	787 298	643 901	401 973	274 208	143 396	25 540	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	25	437	21 230	99 544	63 031	47 054	17 364	36 513	939	7	4
1623	Water, sewer, and utility lines .....	168	5 868	211 645	587 661	525 255	389 636	138 175	62 406	21 085	2	2
1629	Heavy construction, n.e.c. ....	226	3 526	126 055	527 677	419 197	285 302	150 112	108 480	16 971	5	3
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	1 828	16 046	510 888	1 681 450	1 441 079	849 431	629 554	240 371	17 100	2	2
1721	Painting and paper hanging .....	736	3 720	83 383	215 610	202 389	147 992	54 856	13 221	2 282	5	3
1731	Electrical work .....	1 346	11 310	372 617	1 078 973	1 036 199	670 112	381 387	42 774	12 375	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	639	4 460	110 528	307 555	292 198	194 808	97 827	15 357	3 402	4	4
1742	Plastering, drywall, and insulation work .....	281	2 746	76 553	221 158	199 875	129 583	73 567	21 284	1 451	4	5
1743	Terrazzo, tile, marble, and mosaic work .....	135	689	21 628	66 679	(D)	38 736	23 791	(D)	613	6	(D)
175	Carpentry and floor work:											
1751	Carpentry .....	986	4 346	93 612	361 174	289 994	173 571	118 488	71 180	3 280	5	7
1752	Floor laying and other floor work .....	263	1 166	28 190	114 342	104 567	53 392	56 511	9 775	999	7	5
1761	Roofing, siding, and sheet metal work .....	761	4 776	122 776	422 154	385 206	240 706	147 007	36 948	3 285	4	4
1771	Concrete work .....	672	4 801	112 339	391 724	354 987	211 219	147 824	36 738	7 322	4	4
1781	Water well drilling .....	45	316	8 685	30 873	(D)	17 797	9 789	(D)	432	7	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	89	1 974	51 920	158 925	138 188	93 524	48 807	20 737	2 078	2	2
1793	Glass and glazing work .....	110	866	24 974	91 016	86 079	49 478	41 391	4 937	307	9	8
1794	Excavation work .....	327	1 758	47 872	178 380	152 688	101 472	54 614	25 692	6 055	5	5
1795	Wrecking and demolition work .....	22	509	14 647	48 788	46 464	37 872	11 275	2 323	994	9	6
1796	Installing building equipment, n.e.c. ....	83	2 518	78 817	210 002	199 795	159 027	45 521	10 207	1 938	2	2
1799	Special trade contractors, n.e.c. ....	568	5 628	131 296	360 864	331 742	237 151	103 409	29 121	11 264	4	4
	<b>Atlantic–Cape May, NJ PMSA</b>											
15,16,17	Construction industries .....	1 032	6 001	176 618	722 675	591 515	367 391	239 927	131 160	7 973	2	2
	(See appropriate State for SIC detail.)											
	<b>Philadelphia, PA–NJ PMSA</b>											
15,16,17	Construction industries .....	10 203	84 254	2 477 200	10 256 615	7 564 572	4 872 495	2 991 358	2 692 042	128 446	1	1
	(See appropriate State for SIC detail.)											
	<b>Vineland–Millville–Bridgeton, NJ PMSA</b>											
15,16,17	Construction industries .....	311	1 891	52 851	224 524	178 191	115 784	65 657	46 332	(S)	4	3
	(See appropriate State for SIC detail.)											

DE-14 DELAWARE

CONSTRUCTION—GEOGRAPHIC AREA SERIES

Table 11. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>PHILADELPHIA–WILMINGTON–ATLANTIC CITY, PA–NJ–DE–MD CMSA—Con.</b>											
	<b>Wilmington–Newark, DE–MD PMSA</b>											
15,16,17	Construction industries .....	1 464	13 797	365 890	1 459 648	1 108 951	696 784	439 709	350 697	23 149	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	296	1 214	27 177	121 935	89 414	48 571	41 548	32 521	1 314	11	9
1522	Other residential buildings .....	(S)	202	4 422	(S)	(D)	(D)	(S)	(D)	(D)	(Z)	(D)
1531	Operative builders .....	47	507	11 133	144 770	94 402	59 705	39 234	50 368	(D)	14	11
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c. ....	72	794	23 039	203 477	94 361	54 623	(S)	109 115	548	(D)	(D)
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	30	1 303	37 728	179 828	149 559	85 812	64 069	30 270	8 752	3	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	19	1 244	45 234	112 877	99 515	74 796	24 812	13 363	2 099	1	1
1629	Heavy construction, n.e.c. ....	(S)	193	4 742	(D)	(D)	10 047	(D)	(D)	1 011	7	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	147	1 887	50 829	157 469	133 626	86 043	50 682	23 843	1 772	4	3
1721	Painting and paper hanging .....	104	467	8 760	20 765	19 312	15 402	3 964	1 453	(D)	16	12
1731	Electrical work .....	130	1 109	33 385	95 624	92 268	57 801	35 219	3 356	546	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	80	647	14 531	39 281	38 343	25 082	13 260	938	832	11	12
1742	Plastering, drywall, and insulation work .....	(S)	383	8 944	24 035	21 858	13 223	9 380	2 177	(D)	11	8
1743	Terrazzo, tile, marble, and mosaic work .....	13	(D)	1 460	(D)	(D)	2 441	1 656	(S)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry .....	(S)	467	7 415	(S)	(S)	(S)	(S)	3 883	(S)	10	(S)
1752	Floor laying and other floor work .....	(S)	134	3 212	13 869	(D)	5 820	(S)	(D)	(D)	22	(D)
1761	Roofing, siding, and sheet metal work .....	74	589	16 187	44 340	42 507	25 595	17 318	1 833	392	7	7
1771	Concrete work .....	96	680	12 696	38 095	34 086	21 257	12 991	4 009	742	9	7
1781	Water well drilling .....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	15	(D)	(D)	25 166	(D)	(D)	(D)	(D)	333	(D)	(D)
1793	Glass and glazing work .....	*19	(D)	(D)	*5 363	(D)	*2 971	*2 871	(D)	—	(D)	(D)
1794	Excavation work .....	(S)	271	7 236	31 323	26 448	14 299	12 307	4 875	*1 215	8	10
1795	Wrecking and demolition work .....	*3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	6	(D)	1 639	(D)	(D)	(D)	1 448	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. ....	(S)	437	9 951	26 752	25 410	17 751	8 335	1 342	421	12	9

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## District of Columbia

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for District of Columbia. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 1,137 establishments in the District operating in the construction industries. These establishments accounted for \$1.0 billion in total dollar value of business done.

Most of the 1,137 construction establishments were small. Of the total, 804 were nonemployers, and over half of the employer establishments had less than 5 employees. The 181 construction establishments with 5 employees or more, while representing only 16 percent of all establishments, accounted for more than 95 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$1.03 billion in total dollar value of business done. Of this amount, \$1.02 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$460 million, leaving net value of construction work of \$558 million. In addition, these establishments paid out \$243 million for the cost of

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

materials, fuels, power, rental of equipment and buildings, and the cost of selected purchased services. Value added for 1992 was \$351 million. (See Introduction and appendixes for explanation of terms.)

There were 333 establishments with total employment averaging 6,954 during the year. Total payroll for 1992 was \$215 million.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 804 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$18 million. Most of these establishments, about 81 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

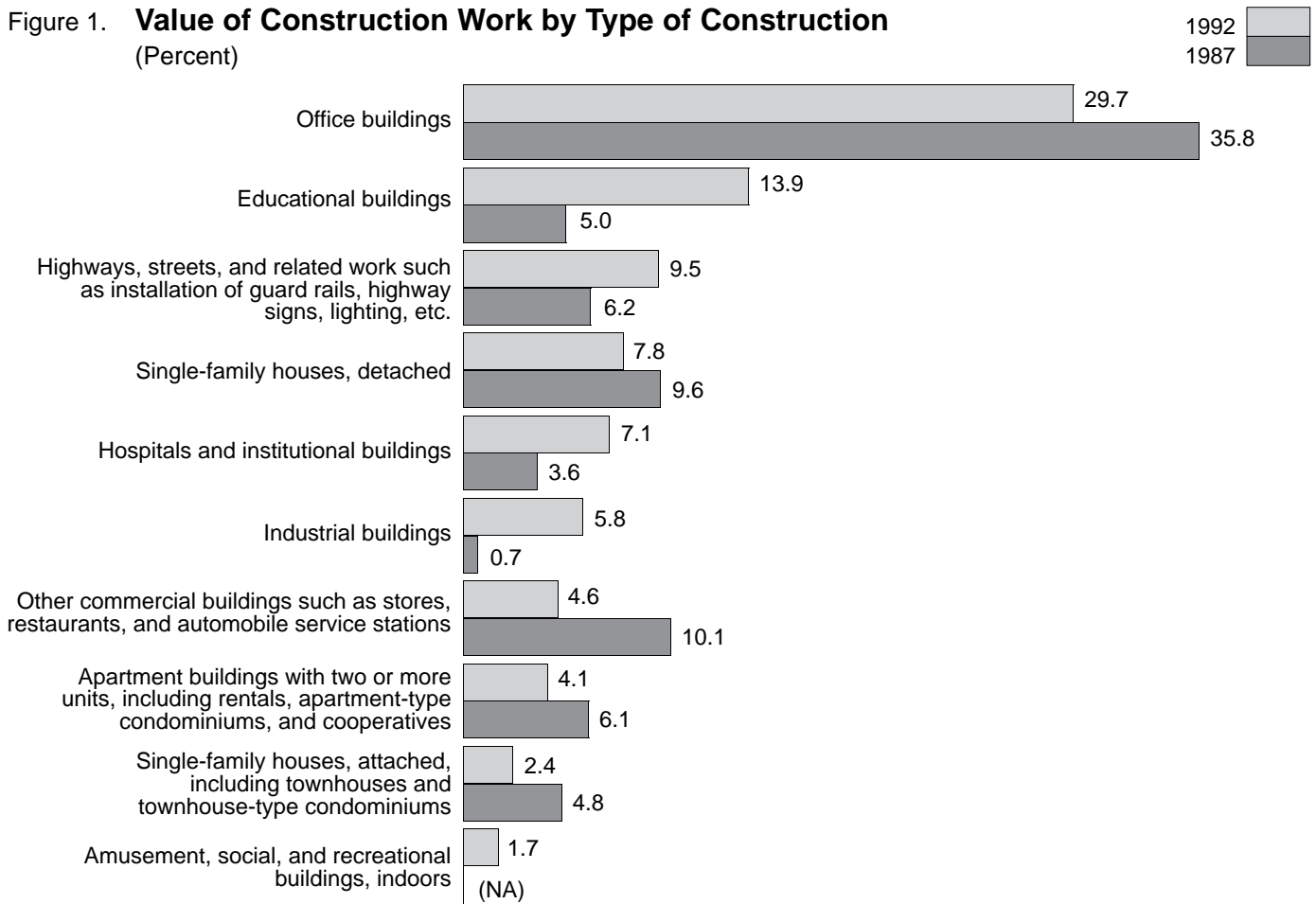
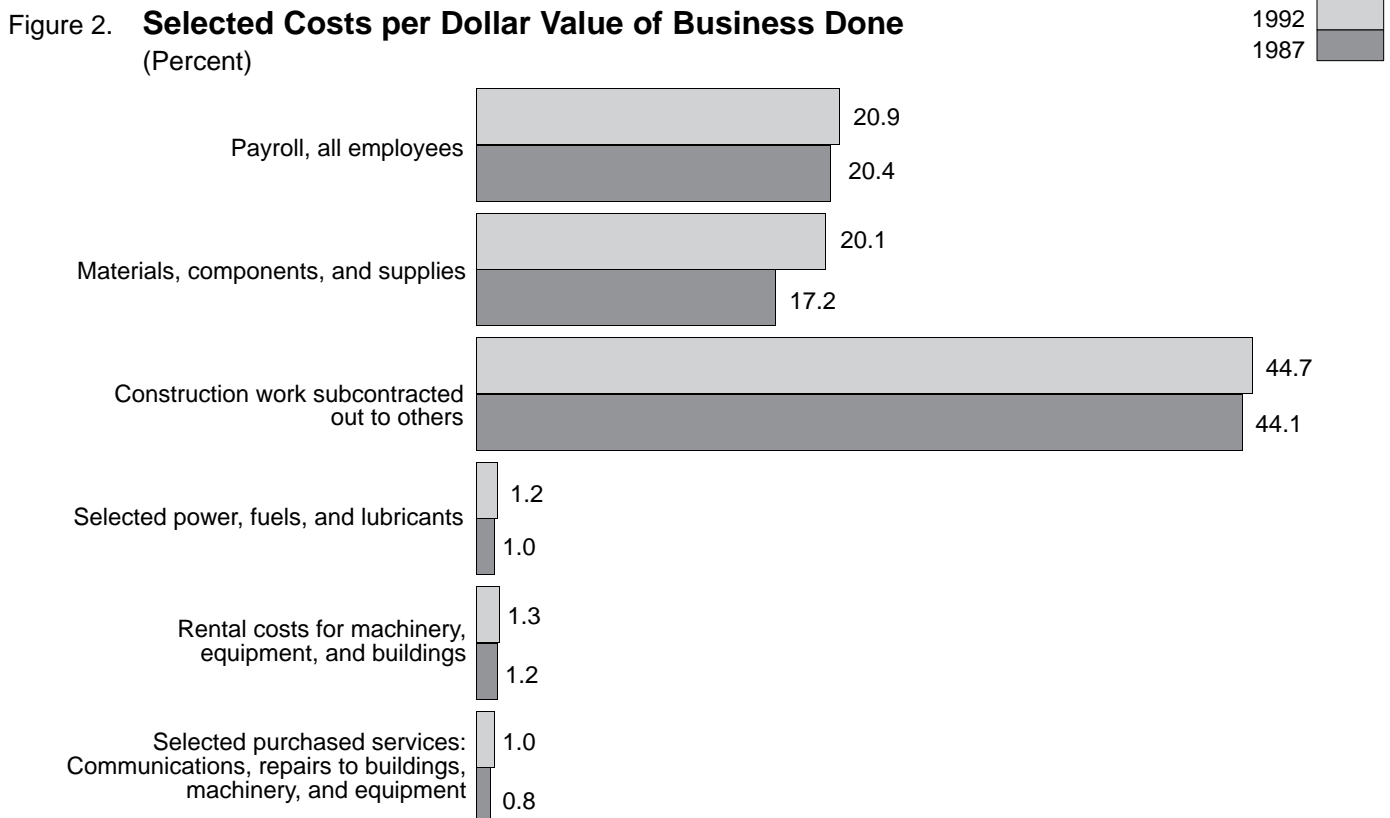


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)





**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	1 137	824	6 954	1 048 108	804	764	18 372	333	60	6 954	1 029 736	3	2
15	Building construction—General contractors and operative builders ----	297	150	3 047	662 193	146	128	6 783	151	(S)	3 047	655 410	6	3
16	Heavy construction other than building construction— contractors-----	27	6	1 035	138 125	5	4	44	22	2	1 035	138 081	6	5
17	Special trade contractors -----	813	668	2 872	247 790	653	632	11 545	160	36	2 872	236 245	2	1
1711	Plumbing, heating, and air-conditioning --	83	42	1 250	108 829	44	42	1 021	39	—	1 250	107 808	4	2
1731	Electrical work-----	79	63	355	33 599	49	47	1 337	30	16	355	32 262	10	6
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	1 313	885	11 222	1 520 730	904	853	122 834	409	32	11 222	1 397 896	2	2
15	Building construction—General contractors and operative builders ----	357	160	4 296	898 730	198	156	26 530	159	4	4 296	872 200	3	2
16	Heavy construction other than building construction— contractors-----	29	6	(D)	(D)	4	4	48	25	2	(D)	(D)	(D)	(D)
17	Special trade contractors -----	824	637	(D)	(D)	623	611	14 012	201	26	(D)	(D)	(D)	(D)
1711	Plumbing, heating, and air-conditioning --	81	38	1 172	95 574	33	33	1 082	48	5	1 172	94 492	3	2
1731	Electrical work-----	82	47	1 629	123 793	44	42	962	38	5	1 629	122 831	3	3

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	<b>Construction industries<sup>1</sup></b> .....	333	6 954	5 212	215 031	141 583	1 018 172	558 322	350 594
15	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	62	416	307	8 222	5 104	36 375	26 597	17 298
1522	Other residential buildings .....	*13	*50	*39	505	324	2 229	1 992	1 647
1531	Operative builders .....	12	234	111	7 919	3 254	39 666	24 822	14 120
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	*4	(D)	(S)	(D)	(S)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c. ....	61	2 274	1 615	72 687	41 919	549 125	171 232	108 400
16	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	10	721	590	26 298	17 299	98 294	75 782	39 438
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines .....	*6	164	143	*3 380	*2 704	*9 768	*8 249	4 489
1629	Heavy construction, n.e.c. ....	6	150	103	6 075	3 849	(D)	(D)	(D)
17	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	39	1 250	957	40 881	30 501	106 382	95 994	62 247
1721	Painting and paper hanging .....	16	243	208	(D)	4 823	15 447	(D)	10 933
1731	Electrical work .....	30	355	256	10 946	6 973	32 262	31 851	20 236
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	8	58	46	*1 605	*1 268	3 313	3 199	*2 467
1742	Plastering, drywall, and insulation work .....	4	94	81	2 936	1 881	5 464	4 893	3 175
1743	Terrazzo, tile, marble, and mosaic work .....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry .....	15	70	56	1 425	(S)	(S)	3 046	1 943
1752	Floor laying and other floor work .....	7	66	47	1 461	865	4 924	3 925	(D)
1761	Roofing, siding, and sheet metal work .....	8	319	290	(D)	(D)	(D)	(D)	(D)
1771	Concrete work .....	*12	(D)	166	(D)	(D)	(D)	(D)	(D)
1781	Water well drilling .....	—	—	—	—	—	—	—	—
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	—	—	—	—	—	—	—	—
1793	Glass and glazing work .....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work .....	*10	60	49	2 069	1 515	10 093	8 893	6 440
1795	Wrecking and demolition work .....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	3	(D)	64	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. ....	3	(D)	(D)	(D)	106	(D)	(D)	(D)

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code	
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††					
I	J	K	L	M	N	O	P	Q	B	G	M		
219 292	459 850	190 626	13 730	5 461	80 658	11 222	1 351 297	500 280	3	2	3	15, 16, 17	
10 166 *345	9 777 *237	*1 756 23	233 3	(S) —	1 572 (S)	231 (S)	22 611 (S)	7 955 (S)	25 60	30 31	(S) —	152 1521 1522	
12 554	14 844	45	268	*252	(D)	998	191 696	56 315	7	10	43	1531	
(S) 68 845	(S) 377 893	— 23 494	(S) 2 959	— 435	(S) 15 284	(S) 2 926	(S) 618 816	(S) 115 214	(D) 6	(D) 5	— 1	154 1541 1542	
36 344	22 512	37 425	4 120	1 892	20 150	917	81 401	41 299	4	3	1	1611	
— *3 759 (D)	— *1 519 (D)	— 646 (D)	— (S) 1 321	— 177 142	— 483 2 642	— 50 (D)	— 2 716 (D)	— 1 658 (D)	— 35 (Z)	— 47 (D)	— (Z) (Z)	162 1622 1623 1629	
35 174	10 388	54 709	1 874	953	10 926	1 172	94 492	51 141	4	2	3	1711	
(D)	(D)	(D)	(D)	(D)	1 556	268	17 454	13 356	(Z)	(D)	(D)	1721	
11 615	411	16 158	258	(S)	2 699	1 629	121 580	92 759	10	6	(S)	1731	
731 1 718 (D)	*114 571 (D)	3 209 (S) (D)	36 55 —	119 117 —	451 904 (D)	96 696 (D)	5 459 20 855 (D)	3 348 12 305 (D)	37 (Z) (D)	34 (Z) (D)	25 (Z) (D)	174 1741 1742 1743	
(S) 2 729	(S) 999	1 592 3 841	31 33	(S) —	(S) (D)	106 93	4 621 (D)	2 266 2 781 (Z)	(Z) (Z)	(Z) (Z)	(S) —	175 1751 1752	
6 518	(D)	(D)	(D)	(D)	(D)	526	34 671	32 158	(Z)	(D)	(D)	1761	
(D)	(D)	1 962	(D)	(D)	(D)	80	*6 827	2 828	(D)	(D)	(D)	1771	
—	—	—	—	—	—	(D)	(D)	(D)	—	—	—	1781	
— (D) 2 453 (D) (D) (D) (D)	— (D) 1 200 (D) (D) (D) (D)	— (D) 10 017 (D) (D) (D) (D)	— (D) 359 (D) (D) (D)	— (D) 11 (D) (D) (D)	— (D) 254 (D) (D) (D)	— (D) 11 (D) (D) (D)	— (D) 254 (D) (D) (D)	— (D) 3 443 (D) (D) (D)	— (D) 18 (D) (D) (D)	— (D) 12 (D) (D) (D)	— (D) 12 (Z) (D) (D)	— (D) (Z) (D) (D)	179 1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

DISTRICT OF COLUMBIA DC-7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	333	409	439	531	4	5	7	8
Proprietors and working partners .....	60	32	38	188	9	28	26	19
All employees** .....	6 954	11 222	7 461	11 061	3	2	2	4
Construction workers:								
March .....	5 168	8 705	5 381	8 302	3	1	2	3
May .....	5 284	9 133	5 975	9 072	3	1	2	4
August .....	5 366	9 202	5 778	9 352	3	1	2	4
November .....	5 031	8 224	5 358	9 085	3	1	2	5
Average .....	5 212	8 816	5 648	8 958	3	1	2	4
Other employees:								
March .....	1 767	2 713	1 810	2 079	3	16	2	4
May .....	1 769	2 270	(NA)	(NA)	3	2	(NA)	(NA)
August .....	1 739	2 341	(NA)	(NA)	2	2	(NA)	(NA)
November .....	1 694	2 297	(NA)	(NA)	3	2	(NA)	(NA)
Average .....	1 742	2 405	(NA)	(NA)	3	5	(NA)	(NA)
Payroll, all employees .....	215 031	285 326	148 695	155 244	2	1	2	2
Payroll, construction workers .....	141 583	197 960	100 008	117 871	2	1	2	2
Payroll, other employees .....	73 448	87 365	48 686	37 373	2	1	2	2
First-quarter payroll, all employees .....	50 281	67 674	36 457	34 971	4	2	2	2
Fringe benefits, all employees .....	46 121	62 728	27 161	29 823	3	2	2	2
Legally required expenditures .....	28 571	45 983	19 559	17 158	3	2	2	2
Voluntary expenditures .....	17 550	16 745	7 602	12 665	2	4	2	1
Dollar value of business done .....	1 029 736	1 397 896	703 618	676 657	2	2	2	2
Value of construction work .....	1 018 172	1 351 297	645 082	646 044	2	2	2	2
Value of construction work subcontracted in from others .....	190 626	187 345	134 766	120 733	3	3	9	(Z)
Other business receipts .....	11 565	20 471	49 264	30 613	6	7	1	4
Net value of construction† .....	558 322	734 174	379 381	430 975	2	2	2	2
Value added†† .....	350 594	500 280	277 143	275 478	2	2	2	1
Selected costs .....	679 142	871 487	417 202	391 980	2	2	2	2
Materials, components, and supplies .....	207 207	240 590	143 334	167 543	3	2	2	3
Construction work subcontracted out to others .....	459 850	617 122	265 701	215 069	2	2	2	2
Selected power, fuels, and lubricants .....	12 085	13 774	8 167	9 369	2	2	2	2
Electricity .....	2 981	2 924	1 354	1 993	1	3	4	3
Natural gas .....	809	594	750	781	2	3	4	4
Gasoline and diesel fuel .....	6 822	9 241	5 362	5 072	4	2	3	2
On highway use .....	5 327	7 015	(NA)	(NA)	3	3	(NA)	(NA)
Off highway use .....	1 495	2 225	(NA)	(NA)	12	2	(NA)	(NA)
Other, including lubricating oils and greases .....	1 473	1 014	700	1 523	1	3	2	4
Rental cost for machinery, equipment, and buildings .....	13 730	16 325	9 433	9 865	4	4	3	2
For machinery and equipment .....	8 989	10 581	6 950	8 550	5	7	3	2
For buildings .....	4 741	5 743	2 483	1 315	3	3	4	3
Selected purchased services .....	10 404	10 954	6 876	7 921	3	2	3	2
Communication services .....	3 132	3 814	2 064	1 812	4	3	4	2
Repairs to buildings and other structures .....	1 694	750	705	619	1	6	3	14
Repairs to machinery and equipment .....	5 579	6 389	4 106	5 490	4	1	2	1
Ownership of construction projects:								
Value of construction work .....	1 018 172	1 351 297	645 082	646 044	2	2	2	2
Government owned .....	474 628	305 887	150 563	294 512	4	2	6	1
Federal .....	180 801	151 948	(NA)	(NA)	2	2	(NA)	(NA)
State and local .....	293 827	153 939	(NA)	(NA)	6	2	(NA)	(NA)
Privately owned .....	543 544	1 045 409	494 518	351 532	3	4	3	3

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	77 064	58 208	7	3
Capital expenditures, other than land .....	5 461	8 543	3	5
New .....	4 854	7 288	3	5
Used .....	607	1 254	8	10
Retirements and disposition of depreciable assets .....	(S)	2 063	(S)	6
End-of-year gross book value of depreciable assets .....	80 658	64 688	6	3
Depreciation charges during year .....	7 442	7 693	2	3
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	22 207	14 057	24	6
Capital expenditures, other than land .....	83	723	(Z)	9
New buildings and other structures .....	79	564	(Z)	(Z)
Used buildings and other structures .....	4	*158	(Z)	40
Retirements and disposition of depreciable assets .....	162	98	(Z)	6
End-of-year gross book value of depreciable assets .....	22 128	14 681	24	6
Depreciation charges during year .....	910	1 394	9	6
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	54 857	44 151	1	3
Capital expenditures, other than land .....	5 378	7 820	3	5
New machinery and equipment, including automobiles and trucks .....	4 775	6 723	3	6
New automobiles and trucks, intended primarily for highway use .....	1 826	3 091	6	12
Used machinery and equipment, including automobiles and trucks .....	603	1 096	8	10
Retirements and disposition of depreciable assets .....	(S)	1 964	(S)	6
End-of-year gross book value of depreciable assets .....	58 530	50 007	1	3
Depreciation charges during year .....	6 532	6 299	2	3

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	333	4
Value of construction work .....	1 018 172	2
<b>Establishments with inventories:</b>		
Number .....	94	10
Value of construction work .....	297 135	2
<b>Inventories<sup>1</sup>:</b>		
End of 1992, materials and supplies .....	3 603	6
End of 1991, materials and supplies .....	3 068	7
<b>Establishments with no inventories:</b>		
Number .....	91	11
Value of construction work .....	400 730	2
<b>Establishments not reporting:</b>		
Number .....	149	10
Value of construction work .....	320 307	4

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	333	(S)	50	52	50	15	8	6	—	—
All employees** .....	6 954	(S)	755	1 414	1 070	1 099	1 960	—	—	—
Payroll, all employees .....	215 031	(S)	8 377	19 201	38 362	73 186	(D)	70 625	—	—
Dollar value business done .....	1 029 736	33 317	36 296	81 412	161 832	178 236	220 408	318 235	—	—
Value of construction work .....	1 018 172	33 167	35 739	79 669	158 016	177 099	219 295	315 186	—	—
Net value of construction work† .....	558 322	21 879	(S)	58 790	102 726	203 164	(D)	144 082	—	—
Value added†† .....	350 594	13 037	(S)	40 217	65 764	128 894	(D)	85 481	—	—
Cost of materials, components, supplies, and fuels .....	219 292	8 992	11 036	20 317	40 777	76 520	(D)	61 650	—	—
Cost of construction work subcontracted out to others .....	459 850	*11 289	*8 058	20 879	55 291	193 230	(D)	171 104	—	—
Rental cost for machinery, equipment, and buildings .....	13 730	*858	286	980	3 042	3 027	2 850	2 686	—	—
Capital expenditures, other than land .....	5 461	(S)	(S)	351	516	2 487	(D)	1 419	—	—
End-of-year gross book value of depreciable assets .....	80 658	(S)	7 524	5 479	(S)	30 318	(D)	21 180	—	—
<b>1987</b>										
All employees** .....	11 222	(S)	448	(S)	1 826	1 316	1 926	4 169	(D)	—
Value of construction work .....	1 351 297	(S)	(D)	(S)	202 316	111 734	769 088	(D)	(D)	—
Value added†† .....	500 280	(S)	18 640	(S)	82 890	57 651	78 703	181 750	(D)	—
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	3	(S)	(S)	15	12	(Z)	(Z)	(Z)	—	—
Net value of construction work† .....	2	19	(S)	11	10	(Z)	(D)	(Z)	—	—
Capital expenditures, other than land .....	3	(S)	(S)	21	(Z)	(Z)	(D)	(Z)	—	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	333	18	(S)	29	(S)	(S)	42	60	23	18	19
All employees** .....	6 954	*11	(S)	*67	(S)	(S)	361	1 096	731	994	3 204
Payroll, all employees .....	215 031	64	(S)	524	(S)	(S)	7 861	26 264	19 159	28 894	123 093
Dollar value of business done .....	1 029 736	275	(S)	2 371	(S)	(S)	29 056	88 273	81 386	122 609	679 438
Value of construction work .....	1 018 172	275	(S)	2 369	(S)	(S)	28 594	84 111	80 503	121 189	674 925
Net value of construction work† .....	558 322	187	(S)	2 113	(S)	(S)	18 762	67 366	54 652	90 500	301 437
Value added†† .....	350 594	(S)	(S)	1 340	(S)	(S)	13 422	43 060	33 951	59 994	183 839
Cost of materials, components, supplies, and fuels .....	219 292	*103	(S)	775	(S)	(S)	5 802	28 467	21 584	31 926	122 111
Cost of construction work subcontracted out to others .....	459 850	*88	(S)	*256	(S)	(S)	*9 832	16 745	25 851	30 689	373 488
Rental cost for machinery, equipment, and buildings .....	13 730	(D)	(S)	(S)	(S)	(S)	511	1 466	1 038	10 391	(D)
Capital expenditures, other than land .....	5 461	—	(S)	(D)	(S)	(S)	195	276	489	3 873	(D)
End-of-year gross book value of depreciable assets .....	80 658	20	(S)	341	(S)	(S)	2 540	6 504	(S)	11 268	46 856
<b>1987</b>											
All employees** .....	11 222	(S)	*11	(S)	(S)	(S)	580	(S)	827	1 735	5 737
Value of construction work .....	1 351 297	(S)	*332	(S)	(S)	(S)	(D)	(S)	98 774	148 646	906 491
Value added†† .....	500 280	(S)	(D)	(S)	(S)	(S)	20 101	(S)	40 872	72 847	279 183
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	3	43	(S)	46	(S)	(S)	19	13	19	(Z)	(Z)
Net value of construction work† .....	2	24	(S)	34	(S)	(S)	23	15	18	(Z)	(Z)
Capital expenditures, other than land .....	3	—	(S)	(D)	(S)	(S)	30	19	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>1 018 172</b>	<b>498 469</b>	<b>347 349</b>	<b>146 318</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>2</b>
Building construction .....	836 094	473 825	273 271	88 997	2	2	5	2
Single-family houses .....	104 221	65 757	23 619	14 845	10	13	21	7
Single-family houses, detached .....	79 349	57 540	14 853	6 956	11	15	6	13
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	24 872	8 217	*8 766	7 889	21	12	59	2
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	42 223	12 699	16 895	12 629	4	2	9	2
Other residential buildings, including hotels, motels, and tourist cabins .....	14 105	(D)	(D)	(D)	1	(D)	(D)	(D)
Office buildings .....	302 011	153 435	122 139	26 438	3	(Z)	8	(Z)
Other commercial buildings such as stores, restaurants, and automobile service stations .....	46 495	14 832	23 960	7 703	6	12	7	2
Industrial buildings and warehouses .....	69 067	31 670	(S)	18 180	12	7	(S)	2
Industrial buildings .....	58 807	23 573	(S)	17 750	14	10	(S)	2
Warehouses .....	10 260	8 097	(S)	430	1	(Z)	(S)	16
Religious buildings .....	9 757	7 648	1 350	759	24	31	5	8
Educational buildings .....	141 550	110 504	26 432	4 614	4	4	7	1
Hospitals and institutional buildings .....	72 060	(D)	1 445	1 445	1	(D)	(D)	19
Amusement, social, and recreational buildings, indoors .....	17 537	(D)	(D)	1 368	26	(D)	(D)	2
Other nonresidential buildings .....	17 067	(D)	(D)	(D)	3	(D)	(D)	(D)
Nonbuilding construction .....	156 041	24 643	74 078	57 320	3	11	2	6
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	96 384	11 561	40 033	44 790	4	23	5	3
Power and communication transmission lines, towers, and related facilities .....	*6 224	(D)	(D)	(D)	50	(D)	(D)	(D)
Other nonbuilding construction .....	53 434	(D)	(D)	(D)	(Z)	(D)	(D)	(D)
Construction work, n.s.k. ....	26 036	(NA)	(NA)	(NA)	26	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>1 351 297</b>	<b>923 192</b>	<b>293 271</b>	<b>92 055</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>6</b>
Building construction .....	1 082 825	795 843	211 817	75 164	2	2	5	4
Single-family houses .....	195 271	153 039	14 137	28 094	8	10	7	6
Single-family houses, detached .....	130 272	94 438	12 771	23 062	6	8	6	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	64 998	58 600	1 366	5 031	19	21	18	17
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	83 038	58 991	8 219	15 827	3	1	5	12
Other residential buildings, including hotels, motels, and tourist cabins .....	7 733	3 886	3 140	706	4	3	4	23
Office buildings .....	483 661	352 393	119 430	11 838	1	1	4	5
Other commercial buildings such as stores, restaurants, and automobile service stations .....	136 540	87 669	38 169	10 700	6	8	2	16
Industrial buildings and warehouses .....	20 106	14 028	4 785	1 291	7	9	9	4
Industrial buildings .....	9 037	5 556	2 760	720	2	2	1	6
Warehouses .....	11 068	8 472	2 025	570	13	14	21	(Z)
Religious buildings .....	9 118	(D)	(D)	1 842	7	(D)	(D)	24
Educational buildings .....	68 072	53 026	13 334	1 711	7	(Z)	37	30
Hospitals and institutional buildings .....	48 810	(D)	(D)	2 924	(Z)	(D)	(D)	1
Other nonresidential buildings .....	30 476	28 463	1 791	231	(Z)	(Z)	(Z)	(Z)
Nonbuilding construction .....	225 695	127 349	81 454	16 891	3	5	1	5
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	83 900	35 906	35 178	12 816	5	8	1	6
Other nonbuilding construction .....	141 795	91 443	46 276	4 075	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k. ....	42 776	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>333</b>	<b>5 212</b>	<b>5 168</b>	<b>5 284</b>	<b>5 366</b>	<b>5 031</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	62	307	262	298	401	267	18	26	24	25	30	24	
1522	Other residential buildings -----	*13	*39	*72	*32	*40	*12	58	58	73	47	56	63	
1531	Operative builders -----	12	111	121	119	98	108	23	5	4	4	5	4	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	*4	(S)	(S)	(S)	(S)	(S)	62	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c. ---	61	1 615	1 692	1 624	1 601	1 541	15	7	9	10	9	10	
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	10	590	578	602	554	624	22	3	3	3	4	4	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	—	—	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines -----	*6	143	109	119	*184	*159	41	35	22	26	42	42	
1629	Heavy construction, n.e.c. -----	6	103	(D)	(D)	(D)	(D)	(Z)	(Z)	(D)	(D)	(D)	(D)	
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	39	957	938	967	1 013	910	10	4	4	5	3	2	
1721	Painting and paper hanging -----	16	208	156	257	238	181	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1731	Electrical work -----	30	256	270	248	252	254	14	9	11	9	11	9	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	8	46	45	49	50	*41	32	35	36	33	27	40	
1742	Plastering, drywall, and insulation work -----	4	81	61	114	101	48	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1743	Terrazzo, tile, marble, and mosaic work -----	2	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)	
175	Carpentry and floor work:													
1751	Carpentry -----	15	56	51	54	55	(S)	(Z)	(Z)	(Z)	(Z)	(Z)	(S)	
1752	Floor laying and other floor work --	7	47	45	45	48	48	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1761	Roofing, siding, and sheet metal work -----	8	290	(D)	294	(D)	278	(Z)	(Z)	(D)	(Z)	(D)	(Z)	
1771	Concrete work -----	*12	166	(D)	157	174	(D)	45	6	(D)	7	6	(D)	
1781	Water well drilling -----	—	—	—	—	—	—	—	—	—	—	—	—	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	—	—	—	—	—	—	—	—	—	—	—	—	
1793	Glass and glazing work -----	2	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)	
1794	Excavation work -----	*10	49	91	37	32	35	54	22	12	29	34	31	
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)	
1796	Installing building equipment, n.e.c. -----	3	64	(D)	71	(D)	(D)	(Z)	(Z)	(D)	(Z)	(D)	(D)	
1799	Special trade contractors, n.e.c. ---	3	(D)	10	(D)	(D)	(D)	(Z)	(Z)	(D)	(D)	(D)	(D)	

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.



**Table 10. Selected Industry Ratios for Establishments With Payroll in the District: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>20.9</b>	<b>30.9</b>	<b>195.4</b>	<b>.211</b>	<b>.215</b>	<b>.452</b>	<b>.187</b>	<b>.013</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	6.7	19.8	118.5	.226	.279	.269	*.048	.006
1522	Other residential buildings -----	3.8	10.1	57.2	.227	.155	.106	.011	.001
1531	Operative builders -----	20.3	33.8	357.4	.200	.316	.374	.001	.007
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c. -----	37.5	32.0	340.0	.132	.125	.688	.043	.005
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	71.3	36.5	166.6	.268	.370	.229	.381	.042
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines -----	28.0	20.6	68.3	.346	.385	.156	*.066	(S)
1629	Heavy construction, n.e.c. -----	25.0	40.5	(D)	(D)	(D)	(D)	(D)	(D)
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	32.2	32.7	111.2	.384	.331	.098	.514	.018
1721	Painting and paper hanging -----	15.2	(D)	74.3	(D)	(D)	(D)	(D)	(D)
1731	Electrical work -----	11.7	30.8	126.0	.339	.360	.013	.501	.008
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	7.0	27.7	72.0	.485	.221	.035	.969	.011
1742	Plastering, drywall, and insulation work -----	23.5	31.2	67.5	.537	.314	.105	(S)	.010
1743	Terrazzo, tile, marble, and mosaic work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry -----	4.7	20.4	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floor work -----	9.4	22.1	104.8	.297	.554	.203	.780	.007
1761	Roofing, siding, and sheet metal work -----	39.9	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1771	Concrete work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1781	Water well drilling -----	—	—	—	—	—	—	—	—
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	—	—	—	—	—	—	—	—
1793	Glass and glazing work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work -----	6.0	34.5	206.0	.205	.243	.119	.992	.036
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
<b>WASHINGTON-BALTIMORE, DC-MD-VA-WV CMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>17 387</b>	<b>176 268</b>	<b>4 603 770</b>	<b>20 018 974</b>	<b>14 144 696</b>	<b>8 669 507</b>	<b>6 022 675</b>	<b>5 874 278</b>	<b>192 779</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	3 588	15 929	309 642	1 698 388	1 241 643	695 235	566 367	456 745	20 692	4	4
1522	Other residential buildings .....	226	1 477	36 166	276 579	138 249	97 076	45 215	138 329	847	9	27
1531	Operative builders .....	678	7 392	236 515	2 926 613	1 717 507	1 050 013	922 273	1 209 106	11 497	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	80	1 195	31 408	165 692	90 417	48 216	43 526	75 275	1 460	11	11
1542	Nonresidential buildings, n.e.c. ....	1 059	18 505	585 079	4 356 708	1 674 712	1 048 575	758 462	2 681 996	14 054	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	245	8 767	251 414	1 021 315	792 948	491 292	332 230	228 367	25 055	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	28	1 230	30 403	128 658	93 101	59 929	33 593	35 557	1 847	3	3
1623	Water, sewer, and utility lines .....	232	7 525	195 589	624 327	542 529	356 139	190 347	81 798	17 495	2	2
1629	Heavy construction, n.e.c. ....	252	7 451	302 916	914 799	681 091	437 734	252 784	233 708	9 634	2	2
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	2 187	24 142	675 399	2 221 471	1 903 537	1 111 170	813 141	317 934	24 730	1	1
1721	Painting and paper hanging .....	1 034	6 502	127 442	311 669	286 571	209 593	78 866	25 098	3 125	5	4
1731	Electrical work .....	1 621	18 541	512 527	1 475 819	1 429 858	841 135	606 962	45 961	17 122	2	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	794	7 256	137 152	351 135	334 418	206 847	129 792	16 717	5 647	3	3
1742	Plastering, drywall, and insulation work .....	547	8 514	218 153	556 510	496 262	322 717	175 708	60 248	6 108	3	2
1743	Terrazzo, tile, marble, and mosaic work .....	193	1 107	27 990	77 320	75 029	42 743	32 750	2 291	*623	8	7
175	Carpentry and floor work:											
1751	Carpentry .....	1 287	7 068	137 931	418 740	356 845	223 581	136 642	61 895	4 777	5	5
1752	Floor laying and other floor work .....	342	1 951	46 253	196 556	178 225	82 497	99 330	18 331	1 344	6	6
1761	Roofing, siding, and sheet metal work .....	790	7 361	172 130	484 263	455 997	272 976	186 542	28 266	4 393	3	3
1771	Concrete work .....	771	8 849	182 629	650 557	590 618	337 123	256 713	59 939	10 278	3	2
1781	Water well drilling .....	45	420	11 647	35 350	35 127	23 589	11 566	(S)	1 160	4	6
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	77	1 420	43 891	120 697	112 610	72 141	41 465	8 087	2 505	7	6
1793	Glass and glazing work .....	121	1 090	28 351	86 542	83 848	44 209	41 570	2 693	311	6	5
1794	Excavation work .....	417	2 874	71 092	244 695	211 045	162 126	62 327	33 649	3 288	7	6
1795	Wrecking and demolition work .....	33	631	13 288	44 454	40 376	32 910	9 327	4 078	842	4	3
1796	Installing building equipment, n.e.c. ....	105	3 067	89 574	272 269	262 072	187 194	78 227	10 198	1 040	2	3
1799	Special trade contractors, n.e.c. ....	635	6 003	129 189	357 849	320 061	212 747	116 949	37 788	2 904	5	4
<b>Baltimore, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>6 647</b>	<b>59 167</b>	<b>1 447 718</b>	<b>6 196 218</b>	<b>4 592 118</b>	<b>2 854 549</b>	<b>1 975 464</b>	<b>1 604 100</b>	<b>74 913</b>	<b>1</b>	<b>1</b>
(See appropriate State for SIC detail.)												
<b>Hagerstown, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>347</b>	<b>3 026</b>	<b>65 872</b>	<b>283 106</b>	<b>206 110</b>	<b>114 847</b>	<b>98 262</b>	<b>76 996</b>	<b>3 806</b>	<b>5</b>	<b>5</b>
(See appropriate State for SIC detail.)												

**DC-14 DISTRICT OF COLUMBIA**

**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA—Con.</b>											
	<b>Washington, DC—MD—VA—WV PMSA</b>											
15,16,17	<b>Construction industries .....</b>	<b>10 393</b>	<b>114 075</b>	<b>3 090 179</b>	<b>13 539 649</b>	<b>9 346 467</b>	<b>5 700 111</b>	<b>3 948 948</b>	<b>4 193 182</b>	<b>114 060</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	2 093	9 503	192 733	965 039	696 093	374 061	334 635	268 947	10 749	5	6
1522	Other residential buildings .....	142	1 016	25 381	209 532	99 368	67 967	34 552	110 164	523	9	37
1531	Operative builders .....	452	5 377	173 629	2 104 677	1 228 742	702 215	693 870	875 935	8 651	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	45	471	15 366	96 313	47 475	32 419	(D)	48 838	884	24	19
1542	Nonresidential buildings, n.e.c. ....	667	13 705	445 460	3 244 455	1 261 505	805 537	495 454	1 982 950	10 441	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	145	4 973	144 149	583 830	457 271	283 120	188 816	126 559	10 146	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	*10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	162	5 245	129 511	424 257	369 281	249 331	122 119	54 976	12 942	3	2
1629	Heavy construction, n.e.c. ....	(S)	5 450	243 005	656 246	(D)	312 991	157 161	(D)	(D)	2	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	1 350	15 257	438 623	1 422 452	1 204 782	703 226	516 565	217 671	15 393	2	1
1721	Painting and paper hanging .....	637	4 279	81 944	198 314	179 801	134 149	46 864	18 513	1 493	6	4
1731	Electrical work .....	975	11 920	339 994	1 000 035	965 642	564 687	414 826	34 393	10 450	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	471	4 693	88 901	226 767	217 210	131 892	86 872	9 557	4 500	4	4
1742	Plastering, drywall, and insulation work .....	338	5 597	147 063	373 788	332 416	215 892	118 267	41 372	4 752	4	2
1743	Terrazzo, tile, marble, and mosaic work .....	131	846	21 602	62 044	59 951	33 638	26 768	2 093	(D)	9	7
175	Carpentry and floor work:											
1751	Carpentry .....	731	4 103	86 552	264 674	223 856	134 998	89 399	40 817	2 756	5	6
1752	Floor laying and other floor work .....	201	1 334	(D)	145 145	130 936	61 117	73 373	14 210	860	6	7
1761	Roofing, siding, and sheet metal work .....	409	4 396	109 476	300 776	283 762	170 788	114 107	17 014	2 404	3	3
1771	Concrete work .....	473	5 648	110 931	421 305	376 635	212 667	166 998	44 670	5 838	3	3
1781	Water well drilling .....	21	(D)	(D)	(D)	(D)	(D)	5 588	(D)	526	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	43	786	22 353	60 827	55 808	37 994	(D)	5 019	(S)	10	10
1793	Glass and glazing work .....	82	750	21 023	63 211	61 434	33 976	29 388	1 777	(D)	8	7
1794	Excavation work .....	250	1 877	44 243	166 462	140 273	105 750	44 452	26 190	1 910	9	8
1795	Wrecking and demolition work .....	10	167	3 707	(D)	(D)	12 724	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. ....	52	2 399	68 420	210 083	204 030	143 129	60 901	6 053	870	3	4
1799	Special trade contractors, n.e.c. ....	369	3 659	85 383	239 475	211 441	138 336	78 984	28 035	(D)	6	5

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## Florida

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Florida. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 110,393 establishments in this State operating in the construction industries. These establishments accounted for \$33.2 billion in total dollar value of business done.

Most of the 110,393 construction establishments were small. Of the total, 76,102 were nonemployers, and over half of the employer establishments had less than 5 employees. The 13,194 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 78 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$30.5 billion in total dollar value of business done. Of this amount, \$30.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$8.4 billion, leaving net value of construction work of \$21.6 billion. In addition, these establishments paid out \$11.1 billion for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$12.0 billion. (See Introduction and appendixes for explanation of terms.)

There were 34,291 establishments with total employment averaging 274,503 during the year. Total payroll for 1992 was \$5.7 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 76,102 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$2.6 billion. Most of these establishments, about 85 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

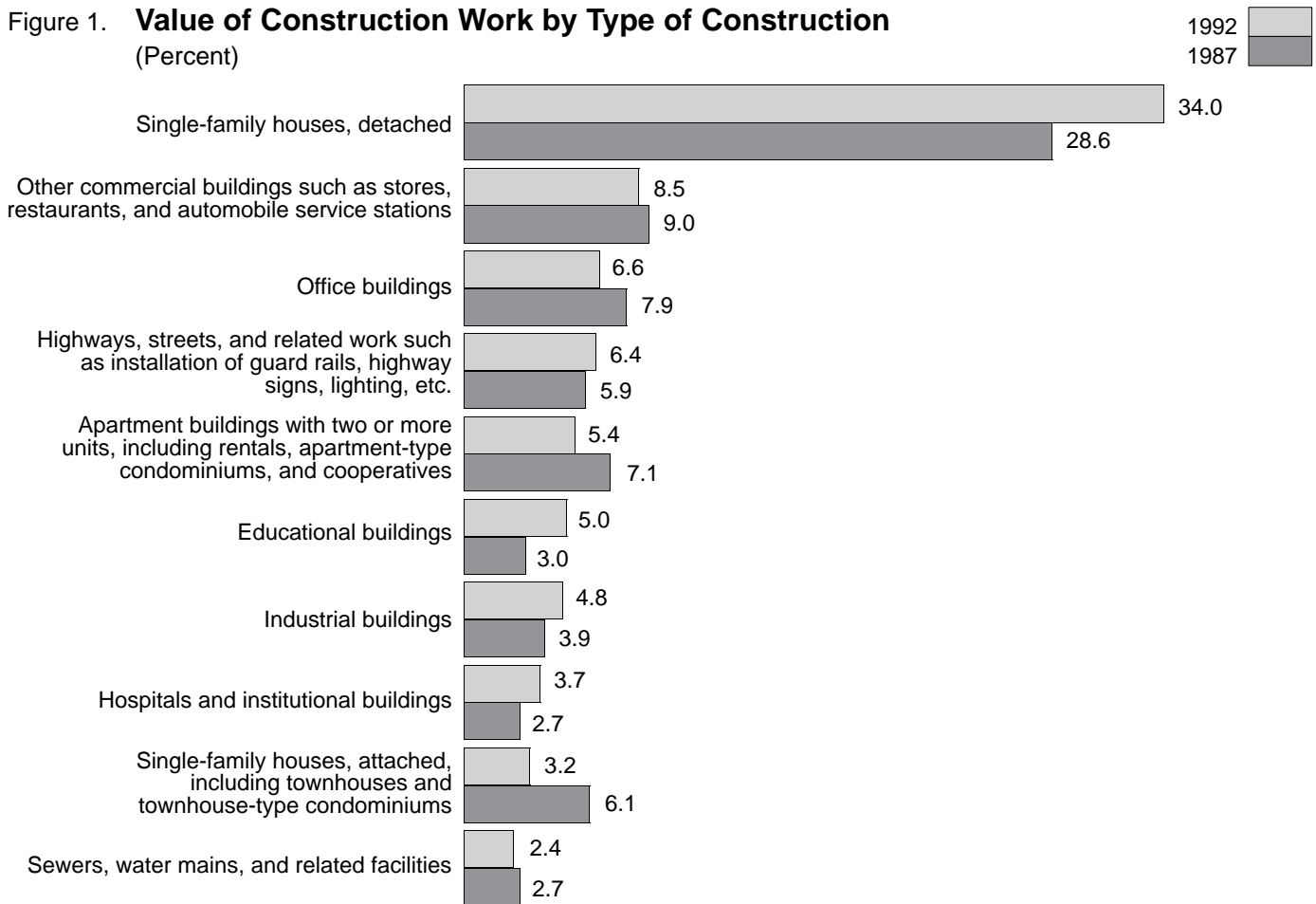
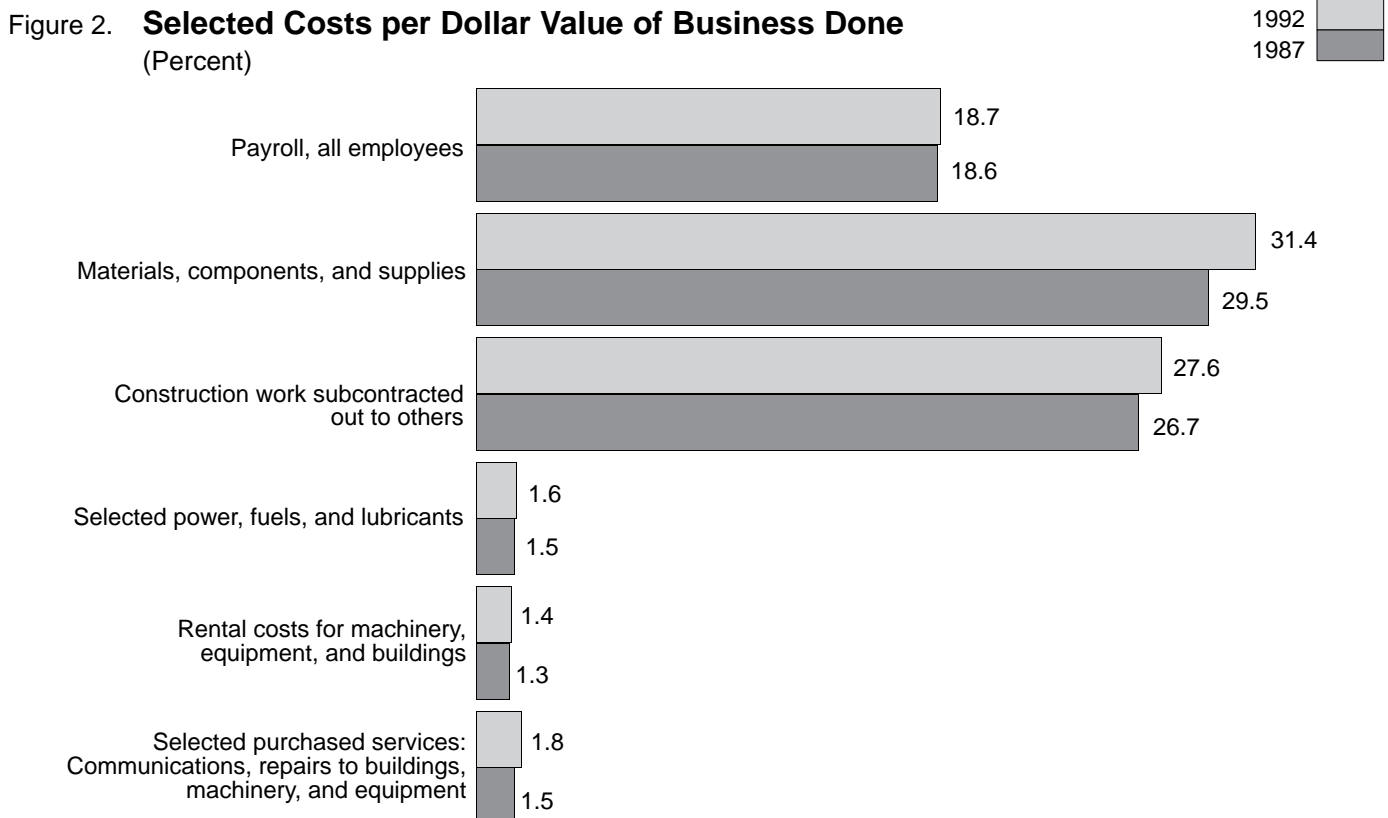


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column— J K	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	110 393	76 484	274 503	33 154 466	76 102	69 406	2 609 067	34 291	7 078	274 503	30 545 399	(Z)	1
15	Building construction—General contractors and operative builders ----	19 883	8 969	67 890	15 272 722	10 679	7 598	950 920	9 204	(S)	67 890	14 321 802	1	1
16	Heavy construction other than building construction—contractors -----	2 952	1 094	37 929	4 438 101	1 013	842	47 974	1 939	(S)	37 929	4 390 127	1	1
17	Special trade contractors -----	87 559	66 422	168 683	13 443 644	64 410	60 966	1 610 173	23 149	5 456	168 683	11 833 471	1	1
1711	Plumbing, heating, and air-conditioning --	8 831	4 582	36 926	3 099 635	4 247	3 795	148 248	4 584	787	36 926	2 951 387	1	1
1731	Electrical work -----	7 551	4 024	31 983	2 314 041	3 908	3 545	88 065	3 643	(S)	31 983	2 225 976	1	2
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	112 111	79 346	329 877	37 542 961	78 173	73 727	5 322 365	33 938	5 619	329 877	32 220 596	(Z)	1
15	Building construction—General contractors and operative builders ----	23 071	12 237	85 116	17 479 675	13 668	11 139	1 776 341	9 403	1 098	85 116	15 703 334	1	1
16	Heavy construction other than building construction—contractors -----	2 937	1 114	44 265	4 305 433	910	820	80 375	2 027	294	44 265	4 225 058	1	1
17	Special trade contractors -----	82 182	63 063	195 192	13 313 138	60 535	58 932	1 900 573	21 647	4 131	195 192	11 412 565	1	1
1711	Plumbing, heating, and air-conditioning --	8 214	4 366	42 344	2 999 684	3 877	3 660	169 944	4 337	706	42 344	2 829 740	1	1
1731	Electrical work -----	6 615	3 785	36 281	2 125 766	3 542	3 366	105 513	3 073	419	36 281	2 020 253	1	1

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries<sup>1</sup></b> .....	<b>34 291</b>	<b>274 503</b>	<b>203 988</b>	<b>5 709 605</b>	<b>3 744 663</b>	<b>30 032 845</b>	<b>21 604 733</b>	<b>12 025 405</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	5 435	26 220	17 623	454 401	266 775	4 071 208	2 593 783	1 200 017
1522	Other residential buildings .....	325	4 079	2 654	86 423	44 251	685 919	317 175	189 985
1531	Operative builders .....	1 263	11 974	4 600	301 024	75 323	4 109 533	2 514 360	1 414 786
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	310	5 102	3 512	140 274	87 477	980 950	594 520	263 371
1542	Nonresidential buildings, n.e.c. ....	1 872	20 515	13 885	504 459	278 800	4 215 323	1 740 617	900 386
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	480	14 687	12 010	337 493	243 439	1 873 875	1 357 683	792 949
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	32	1 781	1 476	45 063	32 005	312 602	205 848	79 328
1623	Water, sewer, and utility lines .....	561	11 394	9 400	240 748	178 599	945 905	785 993	485 955
1629	Heavy construction, n.e.c. ....	865	10 067	7 903	247 232	173 349	1 163 267	945 080	597 978
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	4 584	36 926	26 905	795 789	535 653	2 910 802	2 649 193	1 432 364
1721	Painting and paper hanging .....	1 977	9 487	7 612	156 223	118 632	465 632	429 659	294 264
1731	Electrical work .....	3 643	31 983	25 019	696 199	494 589	2 202 452	2 119 300	1 201 376
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	1 047	7 217	6 457	117 911	96 904	347 108	(D)	214 528
1742	Plastering, drywall, and insulation work .....	1 405	13 995	11 328	273 741	200 317	944 259	801 458	465 298
1743	Terrazzo, tile, marble, and mosaic work .....	793	3 162	2 537	51 810	39 929	176 205	165 524	89 645
175	Carpentry and floor work:								
1751	Carpentry .....	2 050	9 780	7 919	174 786	125 783	631 024	545 869	333 492
1752	Floor laying and other floor work .....	448	2 000	1 418	37 649	24 965	184 464	163 264	77 002
1761	Roofing, siding, and sheet metal work .....	2 024	15 802	11 984	286 413	190 011	1 141 258	1 030 533	540 469
1771	Concrete work .....	1 470	10 159	8 324	185 129	137 540	624 162	570 944	357 150
1781	Water well drilling .....	224	1 035	788	21 571	15 551	86 306	83 666	45 558
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	225	2 729	2 209	57 955	41 592	192 766	168 939	93 483
1793	Glass and glazing work .....	303	1 942	1 285	38 192	23 128	138 718	134 495	69 276
1794	Excavation work .....	617	3 813	3 090	79 892	58 441	306 274	269 123	177 876
1795	Wrecking and demolition work .....	45	472	341	8 473	6 282	34 995	30 362	25 048
1796	Installing building equipment, n.e.c. ....	169	4 603	3 609	116 464	88 234	351 920	(D)	196 967
1799	Special trade contractors, n.e.c. ....	2 124	13 579	10 100	254 294	167 093	935 920	801 969	486 853

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.



1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
<b>10 091 882</b>	<b>8 428 112</b>	<b>7 818 648</b>	<b>440 839</b>	<b>394 569</b>	<b>3 684 470</b>	<b>329 877</b>	<b>30 391 051</b>	<b>12 538 541</b>	<b>(Z)</b>	<b>1</b>	<b>2</b>	<b>15, 16, 17</b>
												<b>15</b>
1 451 004 159 677	1 477 425 368 744	125 692 28 190	22 748 4 809	27 968 3 065	227 639 18 730	25 482 6 936	3 174 347 1 042 664	1 006 086 248 104	3 8	3 6	10 31	152 1522
1 221 719	1 595 173	42 537	12 194	20 972	272 035	18 875	5 120 878	1 363 618	2	4	23	1531
342 894 875 485	386 430 2 474 706	38 717 119 888	13 550 38 674	4 582 17 287	42 865 175 629	4 548 29 275	595 060 4 661 665	170 901 1 218 976	4 3	4 3	20 12	154 1542
												<b>16</b>
626 210	516 192	413 282	62 257	71 220	719 990	17 238	1 881 250	923 701	2	1	4	1611
128 381 307 313 370 967	106 754 159 912 218 187	38 463 232 297 201 404	12 326 25 367 51 775	9 338 31 440 32 724	38 896 310 156 329 001	853 13 953 12 221	107 728 1 031 670 1 045 318	33 219 579 351 537 580	4 2 3	2 2 2	3 7 7	162 1622 1623 1629
												<b>17</b>
1 257 414	261 609	1 557 301	43 274	39 114	348 139	42 344	2 793 088	1 412 969	1	1	8	1711
137 004	35 973	248 541	10 538	6 826	52 642	10 776	400 418	271 441	4	4	15	1721
941 447	83 152	1 376 598	33 443	25 826	232 167	36 281	1 998 988	1 130 468	1	1	7	1731
(D) 352 294 79 362	(D) 142 800 10 681	257 635 716 584 114 178	5 195 10 471 1 715	5 160 10 378 2 117	39 028 71 758 20 908	9 332 19 940 3 280	374 331 1 194 405 200 112	226 009 609 418 99 886	4 4 6	(D) 3 5	14 12 23	174 1742 1743
219 075 87 719	85 155 21 200	472 310 99 453	13 530 2 219	7 254 1 459	59 767 20 012	10 700 1 336	531 014 109 423	287 369 54 113	4 6	4 8	21 33	1751 1752
494 700	110 725	449 111	16 307	16 742	130 810	17 824	1 008 422	527 615	3	3	13	1761
221 282	53 218	427 944	13 837	13 853	132 667	15 711	784 294	455 722	4	4	15	1771
38 726	2 640	17 610	893	1 337	24 642	1 229	88 155	53 803	8	7	18	1781
78 029 72 669 100 471	23 828 4 223 37 150	145 732 93 399 181 899	5 107 3 346 12 484	2 690 1 022 16 468	37 539 13 877 186 540	3 272 2 755 5 316	168 615 187 051 390 622	113 792 99 824 260 320	9 6 6	6 6 6	32 24 17	1791 1793 1794
(D) 79 577 332 803	(D) 4 633 133 951	5 745 75 896 338 240	1 622 3 733 19 425	630 2 642 22 455	14 022 29 094 135 917	297 2 510 12 289	17 859 210 392 775 563	15 226 136 709 426 271	7 2 4	11 (D) 3	7 5 14	1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

FLORIDA FL-7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	34 291	33 938	27 444	21 904	(Z)	1	1	2
Proprietors and working partners .....	7 078	5 619	6 508	9 687	2	3	3	3
All employees** .....	274 503	329 877	261 121	196 561	(Z)	(Z)	1	2
Construction workers:								
March .....	195 863	243 838	207 164	145 250	1	1	1	1
May .....	204 382	252 002	207 987	152 280	1	1	1	1
August .....	210 059	262 086	209 163	159 733	1	1	1	1
November .....	205 648	254 505	198 985	162 092	1	1	1	1
Average .....	203 988	253 108	208 330	154 964	1	1	1	1
Other employees:								
March .....	70 878	75 859	52 061	39 064	1	1	1	6
May .....	69 635	75 881	(NA)	(NA)	1	1	(NA)	(NA)
August .....	70 159	77 844	(NA)	(NA)	1	1	(NA)	(NA)
November .....	71 387	77 532	(NA)	(NA)	1	1	(NA)	(NA)
Average .....	70 515	76 779	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	5 709 605	5 990 377	3 885 088	2 031 791	(Z)	(Z)	(Z)	1
Payroll, construction workers .....	3 744 663	4 069 807	2 846 658	1 481 678	(Z)	(Z)	(Z)	1
Payroll, other employees .....	1 964 942	1 920 569	1 038 429	550 114	1	1	1	1
First-quarter payroll, all employees .....	1 309 509	1 358 833	945 171	448 498	1	1	(Z)	1
Fringe benefits, all employees .....	1 220 091	1 079 029	685 492	344 917	1	1	1	1
Legally required expenditures .....	926 157	823 412	512 420	241 116	1	1	1	1
Voluntary expenditures .....	293 934	255 617	173 071	103 801	1	1	1	1
Dollar value of business done .....	30 545 399	32 220 596	18 352 800	9 345 221	1	1	(Z)	1
Value of construction work .....	30 032 845	30 391 051	17 475 921	8 752 932	1	1	(Z)	1
Value of construction work subcontracted in from others .....	7 818 648	7 688 009	4 244 576	2 186 993	2	2	2	(Z)
Other business receipts .....	512 554	721 305	464 623	592 289	3	2	1	2
Net value of construction† .....	21 604 733	21 782 192	12 807 981	6 346 092	1	1	(Z)	1
Value added†† .....	12 025 405	12 538 541	7 665 269	3 578 112	1	1	(Z)	1
Selected costs .....	18 519 994	18 573 820	10 275 275	5 447 987	1	1	1	1
Materials, components, and supplies .....	9 590 086	9 495 295	5 262 317	2 876 191	1	1	1	1
Construction work subcontracted out to others .....	8 428 112	8 608 858	4 667 940	2 406 840	1	1	1	1
Selected power, fuels, and lubricants .....	501 796	469 666	345 018	164 955	1	1	1	2
Electricity .....	84 972	76 004	54 164	30 116	2	1	1	7
Natural gas .....	24 927	12 264	7 370	4 763	2	2	1	4
Gasoline and diesel fuel .....	364 414	347 255	259 682	111 233	1	1	1	1
On highway use .....	275 774	262 352	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use .....	88 640	84 902	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases .....	27 483	34 142	23 801	18 844	2	2	3	2
Rental cost for machinery, equipment, and buildings .....	440 839	434 823	230 193	114 330	2	1	1	1
For machinery and equipment .....	287 773	296 085	173 582	91 746	2	2	1	1
For buildings .....	153 067	138 737	56 611	22 583	2	2	1	2
Selected purchased services .....	538 350	478 898	304 767	184 515	2	1	1	1
Communication services .....	193 779	140 203	82 441	54 751	3	1	1	2
Repairs to buildings and other structures .....	31 675	31 334	20 949	10 929	4	2	2	8
Repairs to machinery and equipment .....	312 897	307 360	201 377	118 836	2	1	1	1
Ownership of construction projects:								
Value of construction work .....	30 032 845	30 391 051	17 475 921	8 752 932	1	1	(Z)	1
Government owned .....	6 740 179	4 906 165	2 693 248	1 512 790	2	1	2	1
Federal .....	1 443 643	1 171 260	(NA)	(NA)	3	3	(NA)	(NA)
State and local .....	5 296 536	3 734 904	(NA)	(NA)	2	2	(NA)	(NA)
Privately owned .....	23 292 666	25 484 885	14 782 673	7 240 142	1	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	3 522 863	3 160 879	1	1
Capital expenditures, other than land .....	394 569	541 657	2	2
New .....	314 123	446 383	3	2
Used .....	80 446	95 274	5	3
Retirements and disposition of depreciable assets .....	232 963	213 928	4	4
End-of-year gross book value of depreciable assets .....	3 684 470	3 488 607	1	1
Depreciation charges during year .....	396 704	440 214	2	1
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	656 517	760 502	3	3
Capital expenditures, other than land .....	35 535	118 716	9	7
New buildings and other structures .....	26 593	100 821	10	8
Used buildings and other structures .....	8 942	17 894	19	8
Retirements and disposition of depreciable assets .....	32 376	61 253	5	12
End-of-year gross book value of depreciable assets .....	659 676	817 964	3	2
Depreciation charges during year .....	50 287	75 635	6	3
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	2 866 347	2 400 377	1	1
Capital expenditures, other than land .....	359 034	422 941	3	2
New machinery and equipment, including automobiles and trucks .....	287 530	345 561	3	2
New automobiles and trucks, intended primarily for highway use .....	107 303	148 641	4	2
Used machinery and equipment, including automobiles and trucks .....	71 504	77 380	5	4
Retirements and disposition of depreciable assets .....	200 587	152 674	4	3
End-of-year gross book value of depreciable assets .....	3 024 794	2 670 643	1	1
Depreciation charges during year .....	346 417	364 578	2	2

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	34 291	(Z)
Value of construction work .....	30 032 845	1
Establishments with inventories:		
Number .....	10 275	1
Value of construction work .....	10 836 255	1
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	495 906	4
End of 1991, materials and supplies .....	473 102	5
Establishments with no inventories:		
Number .....	10 843	1
Value of construction work .....	11 285 775	1
Establishments not reporting:		
Number .....	13 174	1
Value of construction work .....	7 910 815	1

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	34 291	(S)	6 520	3 873	2 110	466	177	36	9	3
All employees** .....	274 503	39 579	42 208	51 199	62 195	31 665	25 376	12 161	5 934	4 185
Payroll, all employees .....	5 709 605	617 766	773 563	1 044 913	1 401 308	755 361	612 271	303 664	110 709	90 050
Dollar value of business done .....	30 545 399	4 665 617	4 040 704	4 997 530	7 199 388	3 750 078	3 218 309	1 575 976	592 649	505 147
Value of construction work .....	30 032 845	4 594 882	4 004 207	4 915 725	7 071 018	3 697 672	3 147 747	1 548 324	565 575	487 695
Net value of construction work† .....	21 604 733	3 347 422	3 045 242	3 740 394	4 934 732	2 601 340	2 094 056	1 073 382	768 164	(D)
Value added†† .....	12 025 405	1 785 925	1 675 585	2 092 644	2 859 402	1 423 934	1 235 091	619 377	165 589	167 859
Cost of materials, components, supplies, and fuels .....	10 091 882	1 632 233	1 406 154	1 729 555	2 203 700	1 229 813	929 527	481 657	479 242	(D)
Cost of construction work subcontracted out to others .....	8 428 112	1 247 460	958 965	1 175 331	2 136 286	1 096 332	1 053 691	474 942	285 106	(D)
Rental cost for machinery, equipment, and buildings .....	440 839	51 200	51 309	70 061	106 766	56 088	58 463	29 490	17 462	(D)
Capital expenditures, other than land .....	394 569	55 672	45 380	68 956	76 171	50 980	47 882	38 996	10 532	(D)
End-of-year gross book value of depreciable assets .....	3 684 470	442 803	470 828	538 747	775 681	457 420	592 468	296 838	109 685	(D)
<b>1987</b>										
All employees** .....	329 877	37 373	49 160	59 843	75 844	48 147	36 863	14 914	7 731	—
Value of construction work .....	30 391 051	4 151 903	3 825 351	4 835 627	6 786 225	4 598 130	3 907 047	1 571 049	715 717	—
Value added†† .....	12 538 541	1 471 173	1 653 801	2 094 199	2 917 397	1 862 656	1 569 733	622 919	346 661	—
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	(Z)	2	3	2	2	2	(Z)	(Z)	(Z)	(Z)
Net value of construction work† .....	1	3	3	2	1	1	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land .....	2	11	9	8	4	1	(Z)	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	34 291	(S)	(S)	(S)	8 850	5 801	4 285	3 362	1 243	601	410
All employees** .....	274 503	(S)	(S)	(S)	27 942	32 158	37 148	51 974	35 273	26 554	50 542
Payroll, all employees .....	5 709 605	(S)	(S)	(S)	389 607	531 837	708 889	1 112 392	815 154	700 225	1 320 595
Dollar value of business done .....	30 545 399	(S)	(S)	(S)	1 456 641	2 052 708	3 002 596	5 096 942	4 264 238	4 162 408	10 047 021
Value of construction work .....	30 032 845	(S)	(S)	(S)	1 440 109	2 027 903	2 959 024	5 002 395	4 203 845	4 101 418	9 838 716
Net value of construction work† .....	21 604 733	(S)	(S)	(S)	1 285 457	1 747 804	2 423 540	4 004 759	3 124 788	2 785 720	5 808 927
Value added†† .....	12 025 405	(S)	(S)	(S)	762 779	998 226	1 379 233	2 229 254	1 699 089	1 541 125	3 160 176
Cost of materials, components, supplies, and fuels .....	10 091 882	(S)	(S)	(S)	539 209	774 383	1 087 879	1 870 054	1 486 093	1 305 586	2 857 057
Cost of construction work subcontracted out to others .....	8 428 112	(S)	(S)	(S)	(S)	280 100	535 484	997 635	1 079 056	1 315 697	4 029 789
Rental cost for machinery, equipment, and buildings .....	440 839	(S)	(S)	(S)	24 950	28 970	50 936	78 469	59 630	54 529	135 490
Capital expenditures, other than land .....	394 569	(S)	(S)	(S)	28 362	32 523	53 088	63 081	49 037	47 794	113 608
End-of-year gross book value of depreciable assets .....	3 684 470	(S)	(S)	(S)	217 841	302 425	453 204	605 848	433 127	441 490	1 157 602
<b>1987</b>											
All employees** .....	329 877	(S)	(S)	(S)	(S)	36 476	43 938	65 856	48 667	32 894	54 695
Value of construction work .....	30 391 051	(S)	(S)	(S)	(S)	1 974 524	2 965 154	5 635 859	4 903 204	4 005 473	9 165 357
Value added†† .....	12 538 541	(S)	(S)	(S)	(S)	1 014 963	1 412 834	2 503 265	1 976 822	1 539 290	3 113 993
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	(Z)	(S)	(S)	(S)	3	3	3	2	2	2	(Z)
Net value of construction work† .....	1	(S)	(S)	(S)	3	3	3	2	3	3	1
Capital expenditures, other than land .....	2	(S)	(S)	(S)	9	12	9	7	10	3	1

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b>	<b>30 032 845</b>	<b>20 326 097</b>	<b>5 599 442</b>	<b>3 005 296</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Building construction	23 367 764	16 549 765	4 569 117	2 248 881	1	1	2	2
Single-family houses	11 176 912	8 922 331	1 383 651	870 930	2	2	3	3
Single-family houses, detached	10 210 898	8 224 443	1 245 189	741 265	2	2	3	3
Single-family houses, attached, including townhouses and townhouse-type condominiums	966 015	697 888	138 462	129 665	4	4	9	4
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	1 630 709	1 207 959	227 552	195 197	3	3	6	6
Other residential buildings, including hotels, motels, and tourist cabins	403 085	225 417	111 439	66 229	3	5	6	6
Office buildings	1 994 188	1 150 098	630 762	213 328	2	3	5	3
Other commercial buildings such as stores, restaurants, and automobile service stations	2 551 823	1 518 528	687 170	346 125	2	2	5	4
Industrial buildings and warehouses	1 980 952	1 168 256	503 987	308 709	3	4	3	2
Industrial buildings	1 437 189	805 378	375 279	256 532	3	6	3	2
Warehouses	543 763	362 878	128 708	52 177	3	3	7	5
Religious buildings	310 059	204 335	73 283	32 441	6	8	6	7
Educational buildings	1 511 516	1 056 804	377 143	77 569	2	2	4	5
Hospitals and institutional buildings	1 112 850	640 849	405 808	66 193	2	2	3	5
Amusement, social, and recreational buildings, indoors	236 585	165 404	50 217	20 963	5	5	14	18
Other nonresidential buildings	459 085	289 784	118 105	51 196	3	4	7	7
Nonbuilding construction	5 563 071	3 776 332	1 030 325	756 415	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 921 743	1 174 753	482 286	264 704	1	2	1	3
Outdoor swimming pools	363 078	287 603	37 541	37 934	8	9	14	17
Private driveways and parking areas	167 502	97 415	38 967	31 120	9	9	23	18
Bridges, tunnels, and elevated highways	375 773	324 649	33 366	17 758	2	1	3	24
Marine construction	162 258	108 133	33 247	20 878	4	4	4	13
Conservation and development construction	270 234	205 066	34 749	30 419	4	4	14	15
Power and communication transmission lines, towers, and related facilities	416 023	258 760	78 308	78 955	4	5	4	4
Sewers, water mains, and related facilities	716 956	557 156	85 230	74 571	2	3	6	4
Sewers, sewer lines, septic systems, and related facilities	401 672	303 392	52 134	46 146	3	3	7	5
Water mains and related facilities	315 284	253 764	33 096	28 425	3	3	11	5
Power plants	219 646	119 432	38 447	61 767	3	5	2	3
Sewage treatment and water treatment plants	259 885	194 906	53 611	11 368	4	3	12	13
Other nonbuilding construction	689 972	448 460	114 574	126 939	4	4	7	8
Construction work, n.s.k.	1 102 010	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b>	<b>30 391 051</b>	<b>22 862 530</b>	<b>3 818 975</b>	<b>2 194 339</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Building construction	23 511 240	18 921 077	3 000 469	1 589 693	1	1	1	2
Single-family houses	10 552 538	9 120 395	881 234	550 909	2	2	3	3
Single-family houses, detached	8 704 488	7 417 294	810 855	476 339	2	2	3	3
Single-family houses, attached, including townhouses and townhouse-type condominiums	1 848 049	1 703 101	70 379	74 569	4	4	6	7
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	2 162 704	1 919 860	114 915	127 928	2	3	6	5
Other residential buildings, including hotels, motels, and tourist cabins	1 071 443	845 493	129 798	96 151	2	2	10	6
Office buildings	2 404 623	1 817 636	424 575	162 411	1	1	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations	2 734 494	2 022 766	469 989	241 738	2	2	3	4
Industrial buildings and warehouses	1 857 966	1 293 406	359 871	204 688	2	2	3	4
Industrial buildings	1 198 624	765 461	266 241	166 921	2	3	3	4
Warehouses	659 341	527 944	93 629	37 767	3	3	5	7
Religious buildings	296 476	222 141	46 077	28 256	3	3	5	16
Educational buildings	912 999	649 297	200 139	63 563	3	3	4	5
Hospitals and institutional buildings	821 547	517 367	245 782	58 396	2	2	3	5
Amusement, social, and recreational buildings, indoors	236 249	192 025	30 042	14 180	3	3	6	6
Other nonresidential buildings	460 201	320 691	98 047	41 473	5	5	8	8
Nonbuilding construction	5 364 606	3 941 453	818 506	604 645	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 807 353	1 223 875	391 044	192 433	1	2	1	4
Outdoor swimming pools	309 591	241 839	33 897	33 854	8	7	21	14
Private driveways and parking areas	214 118	142 897	34 761	36 459	6	6	7	13
Bridges, tunnels, and elevated highways	227 099	197 359	18 906	10 834	1	1	1	22
Marine construction	154 599	112 706	19 400	22 492	6	7	8	9
Power and communication transmission lines, towers, and related facilities	409 837	265 979	90 436	53 422	2	2	4	4
Sewers, water mains, and related facilities	820 447	706 148	52 710	61 587	2	2	6	9
Sewers, sewer lines, septic systems, and related facilities	460 314	397 523	28 168	34 621	3	3	7	12
Water mains and related facilities	360 133	308 625	24 542	26 965	3	3	6	12
Power plants	119 253	68 519	14 970	35 764	2	3	3	2
Sewage treatment and water treatment plants	347 094	273 112	46 136	27 846	3	3	12	6
Other nonbuilding construction	955 215	709 019	116 246	129 954	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	1 515 205	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>34 291</b>	<b>203 988</b>	<b>195 863</b>	<b>204 382</b>	<b>210 059</b>	<b>205 648</b>	<b>(Z)</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	5 435	17 623	16 471	17 321	18 577	18 121	2	3	3	4	4	4	4
1522	Other residential buildings -----	325	2 654	2 587	2 537	2 650	2 843	11	8	8	8	8	8	11
1531	Operative builders -----	1 263	4 600	4 525	4 685	4 714	4 476	5	3	5	3	3	3	3
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	310	3 512	3 553	3 189	3 537	3 769	10	4	5	5	4	5	5
1542	Nonresidential buildings, n.e.c. ---	1 872	13 885	13 350	14 388	14 157	13 647	4	3	3	3	3	3	3
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	480	12 010	11 103	12 200	12 402	12 334	7	2	2	2	2	2	2
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	32	1 476	1 420	1 495	1 509	1 480	10	4	5	4	3	4	4
1623	Water, sewer, and utility lines -----	561	9 400	9 076	9 273	9 565	9 685	5	2	2	2	2	2	2
1629	Heavy construction, n.e.c. -----	865	7 903	7 976	7 957	7 774	7 907	5	3	3	3	3	3	3
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	4 584	26 905	25 543	27 002	28 030	27 046	1	1	1	1	1	1	1
1721	Painting and paper hanging -----	1 977	7 612	7 810	7 518	7 877	7 242	3	4	4	4	5	5	5
1731	Electrical work -----	3 643	25 019	24 252	24 577	25 746	25 502	1	1	1	1	1	1	1
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	1 047	6 457	6 479	6 626	6 376	6 346	4	4	4	4	5	5	5
1742	Plastering, drywall, and insulation work -----	1 405	11 328	10 907	11 346	11 319	11 741	3	4	4	4	4	4	4
1743	Terrazzo, tile, marble, and mosaic work -----	793	2 537	2 586	2 565	2 537	2 458	5	6	7	6	7	6	6
175	Carpentry and floor work:													
1751	Carpentry -----	2 050	7 919	7 434	8 101	8 139	8 002	3	4	4	4	4	4	5
1752	Floor laying and other floor work --	448	1 418	1 389	1 421	1 483	1 378	6	6	6	6	6	6	6
1761	Roofing, siding, and sheet metal work -----	2 024	11 984	11 321	11 611	12 328	12 676	3	3	3	3	3	3	3
1771	Concrete work -----	1 470	8 324	8 091	8 860	8 445	7 901	4	4	4	4	4	4	4
1781	Water well drilling -----	224	788	758	799	804	790	8	7	7	7	8	7	7
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	225	2 209	1 913	2 420	2 289	2 215	9	10	8	11	11	11	11
1793	Glass and glazing work -----	303	1 285	1 244	1 240	1 311	1 346	8	6	6	6	7	7	7
1794	Excavation work -----	617	3 090	2 812	3 138	3 170	3 238	7	6	6	7	7	6	6
1795	Wrecking and demolition work -----	45	341	323	337	378	328	20	10	10	9	10	10	10
1796	Installing building equipment, n.e.c. -----	169	3 609	3 781	3 097	4 108	3 452	10	2	2	2	1	2	2
1799	Special trade contractors, n.e.c. ---	2 124	10 100	9 160	10 680	10 835	9 724	4	4	4	4	4	4	4

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>8.0</b>	<b>20.8</b>	<b>147.2</b>	<b>.190</b>	<b>.336</b>	<b>.281</b>	<b>.260</b>	<b>.015</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.8	17.3	231.0	.112	.356	.363	.031	.006
1522	Other residential buildings -----	12.5	21.2	258.4	.126	.233	.538	.041	.007
1531	Operative builders -----	9.5	25.1	893.4	.073	.297	.388	.010	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	16.5	27.5	279.3	.143	.350	.394	.039	.014
1542	Nonresidential buildings, n.e.c. -----	11.0	24.6	303.6	.120	.208	.587	.028	.009
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	30.6	23.0	156.0	.180	.334	.275	.221	.033
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	55.8	25.3	211.8	.144	.411	.342	.123	.039
1623	Water, sewer, and utility lines -----	20.3	21.1	100.6	.255	.325	.169	.246	.027
1629	Heavy construction, n.e.c. -----	11.6	24.6	147.2	.213	.319	.188	.173	.045
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	8.1	21.6	108.2	.273	.432	.090	.535	.015
1721	Painting and paper hanging -----	4.8	16.5	61.2	.336	.294	.077	.534	.023
1731	Electrical work -----	8.8	21.8	88.0	.316	.427	.038	.625	.015
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.9	16.3	53.8	.340	(D)	(D)	.742	.015
1742	Plastering, drywall, and insulation work -----	10.0	19.6	83.4	.290	.373	.151	.759	.011
1743	Terrazzo, tile, marble, and mosaic work -----	4.0	16.4	69.5	.294	.450	.061	.648	.010
175	Carpentry and floor work:								
1751	Carpentry -----	4.8	17.9	79.7	.277	.347	.135	.748	.021
1752	Floor laying and other floor work -----	4.5	18.8	130.1	.204	.476	.115	.539	.012
1761	Roofing, siding, and sheet metal work -----	7.8	18.1	95.2	.251	.433	.097	.394	.014
1771	Concrete work -----	6.9	18.2	75.0	.297	.355	.085	.686	.022
1781	Water well drilling -----	4.6	20.8	109.5	.250	.449	.031	.204	.010
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	12.1	21.2	87.3	.301	.405	.124	.756	.026
1793	Glass and glazing work -----	6.4	19.7	108.0	.275	.524	.030	.673	.024
1794	Excavation work -----	6.2	21.0	99.1	.261	.328	.121	.594	.041
1795	Wrecking and demolition work -----	10.5	18.0	102.6	.242	(D)	.132	.164	.046
1796	Installing building equipment, n.e.c. -----	27.3	25.3	97.5	.331	.226	(D)	.216	.011
1799	Special trade contractors, n.e.c. -----	6.4	18.7	92.7	.272	.356	.143	.361	.021

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>MIAMI-FORT LAUDERDALE, FL CMSA</b>											
15,16,17	<b>Construction industries .....</b>	(S)	61 526	1 337 283	7 053 611	4 978 041	2 876 623	2 181 609	2 075 570	91 650	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	(S)	(S)	81 799	605 275	402 665	237 320	(S)	202 610	4 820	(S)	7
1522	Other residential buildings .....	(S)	1 294	25 382	213 749	108 324	64 901	46 431	105 425	(S)	18	12
1531	Operative builders .....	(S)	2 854	69 993	1 021 165	599 183	352 862	262 775	421 982	3 350	3	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	81	539	13 309	85 606	(D)	25 192	20 775	(D)	452	13	(D)
1542	Nonresidential buildings, n.e.c. ....	472	5 432	144 727	1 129 374	456 693	257 991	205 380	672 681	4 363	5	4
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	(S)	3 360	81 754	483 412	336 867	202 876	143 793	146 546	18 444	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	11	1 243	32 546	237 354	154 387	52 950	102 984	82 967	7 021	2	1
1623	Water, sewer, and utility lines .....	(S)	2 556	54 639	221 567	185 390	114 670	70 780	36 177	4 168	4	5
1629	Heavy construction, n.e.c. ....	119	1 562	42 734	195 761	147 929	92 124	60 233	47 832	7 938	6	4
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning.....	1 074	8 593	191 013	747 778	644 491	334 844	316 501	103 286	8 821	3	3
1721	Painting and paper hanging.....	(S)	1 984	30 940	91 731	80 010	55 426	24 639	11 721	(S)	13	10
1731	Electrical work .....	975	7 099	163 731	518 296	504 689	292 691	219 035	13 607	7 743	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	(S)	1 063	22 766	71 979	64 180	41 940	22 265	7 799	(D)	5	11
1742	Plastering, drywall, and insulation work .....	361	2 764	57 662	233 624	187 461	102 348	85 935	46 163	2 540	7	7
1743	Terrazzo, tile, marble, and mosaic work .....	200	726	12 451	37 927	36 009	20 082	16 523	1 918	814	8	7
175	Carpentry and floor work:											
1751	Carpentry .....	(S)	2 542	50 866	176 006	154 096	95 692	60 448	21 910	2 140	10	9
1752	Floor laying and other floor work .....	(S)	751	15 416	68 163	61 756	30 608	31 716	6 406	*1 072	10	14
1761	Roofing, siding, and sheet metal work .....	(S)	3 362	64 630	287 773	250 412	124 968	126 463	37 360	3 407	6	6
1771	Concrete work .....	(S)	2 152	39 085	149 753	130 009	84 233	47 204	19 744	2 508	9	10
1781	Water well drilling .....	(S)	(S)	(S)	(D)	(D)	(S)	(S)	(D)	(D)	(S)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	48	899	17 113	48 651	45 028	32 388	12 834	3 623	358	24	18
1793	Glass and glazing work .....	80	444	7 113	26 960	26 694	13 031	14 190	266	*337	12	11
1794	Excavation work .....	76	524	14 512	61 716	48 124	35 465	14 944	13 592	1 721	16	13
1795	Wrecking and demolition work .....	11	112	2 013	(D)	5 732	4 444	(D)	(D)	221	13	28
1796	Installing building equipment, n.e.c. ....	51	1 689	38 225	138 548	(D)	95 062	40 079	(D)	(D)	2	(D)
1799	Special trade contractors, n.e.c. ....	(S)	3 283	60 958	189 070	162 771	108 749	58 174	26 300	5 385	6	7
	<b>Fort Lauderdale, FL PMSA</b>											
15,16,17	<b>Construction industries .....</b>	3 565	28 171	638 317	3 242 896	2 326 973	1 333 169	1 030 560	915 923	44 618	2	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	(S)	(S)	33 491	246 603	161 116	101 754	(S)	85 486	(S)	(S)	10
1522	Other residential buildings .....	(S)	602	13 759	112 948	58 438	44 308	16 496	54 511	(S)	34	17
1531	Operative builders .....	99	1 214	31 885	436 538	262 008	150 539	119 167	174 530	1 093	6	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	24	(S)	(S)	(S)	(D)	(S)	(S)	(D)	(S)	(S)	(D)
1542	Nonresidential buildings, n.e.c. ....	203	2 413	63 110	495 837	202 051	111 180	94 841	293 786	1 945	9	6
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	(S)	1 443	36 582	205 472	139 275	65 458	75 220	66 197	7 624	7	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	3	386	10 519	71 581	47 984	22 093	26 892	23 597	(D)	(Z)	(Z)
1623	Water, sewer, and utility lines .....	78	1 294	32 739	127 682	102 192	50 288	51 926	25 489	3 293	6	3
1629	Heavy construction, n.e.c. ....	50	671	20 056	86 065	73 446	50 294	23 742	12 619	4 752	6	5

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CONSTRUCTION—GEOGRAPHIC AREA SERIES



**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>MIAMI-FORT LAUDERDALE, FL CMSA—Con.</b>											
	<b>Fort Lauderdale, FL PMSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	508	3 622	84 666	332 656	292 774	155 764	141 292	39 882	(S)	4	4
1721	Painting and paper hanging-----	211	898	15 860	43 452	39 267	25 430	13 866	(S)	(S)	9	8
1731	Electrical work-----	471	3 083	70 660	242 424	236 173	135 559	103 226	6 251	3 338	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	773	19 189	63 016	(D)	36 433	19 015	(D)	(D)	5	(D)
1742	Plastering, drywall, and insulation work-----	184	1 469	32 645	127 974	99 902	56 532	44 179	28 072	1 436	9	10
1743	Terrazzo, tile, marble, and mosaic work-----	101	496	8 426	26 467	(D)	13 552	11 845	(D)	595	9	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	185	1 505	30 757	94 348	84 399	53 472	31 454	(S)	1 264	12	10
1752	Floor laying and other floor work---	(S)	464	8 724	39 271	36 041	17 673	18 742	3 230	(S)	12	18
1761	Roofing, siding, and sheet metal work-----	210	1 753	36 201	184 195	155 631	74 903	81 550	28 564	2 813	8	10
1771	Concrete work-----	114	1 273	23 841	92 304	77 143	48 812	29 714	15 162	1 872	12	13
1781	Water well drilling-----	(S)	(S)	(S)	(D)	(D)	(S)	(D)	(D)	(D)	(S)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	35	275	5 589	15 236	13 064	9 281	3 977	2 172	81	20	15
1793	Glass and glazing work-----	44	221	4 357	14 772	14 627	7 056	7 889	145	*227	15	13
1794	Excavation work-----	57	365	11 286	49 465	36 111	27 499	10 550	13 355	1 503	20	15
1795	Wrecking and demolition work-----	6	52	1 171	(D)	(D)	*2 867	(D)	(D)	(D)	28	(D)
1796	Installing building equipment, n.e.c.---	(S)	444	10 399	30 323	(D)	17 134	10 468	(D)	100	3	(D)
1799	Special trade contractors, n.e.c.---	(S)	1 553	29 364	85 502	72 463	49 942	26 360	13 039	3 582	9	8
	<b>Miami, FL PMSA</b>											
<b>15,16,17</b>	<b>Construction industries-----</b>	<b>(S)</b>	<b>33 355</b>	<b>698 966</b>	<b>3 810 715</b>	<b>2 651 068</b>	<b>1 543 454</b>	<b>1 151 049</b>	<b>1 159 647</b>	<b>47 032</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses-----	(S)	(S)	(S)	358 672	241 548	(S)	112 241	117 123	3 780	(S)	10
1522	Other residential buildings-----	(S)	692	11 623	100 801	49 886	20 593	29 935	50 914	(S)	17	18
1531	Operative builders-----	(S)	1 640	38 108	584 627	337 175	202 323	143 608	247 453	2 257	3	14
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	57	407	11 130	74 028	36 264	21 498	16 588	37 763	304	15	17
1542	Nonresidential buildings, n.e.c.-----	269	3 018	81 617	633 536	254 642	146 811	110 539	378 895	2 418	6	6
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction---	41	1 917	45 172	277 940	197 591	137 418	68 573	80 349	10 820	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	8	857	22 027	165 773	106 403	30 857	76 092	59 370	(D)	3	2
1623	Water, sewer, and utility lines-----	(S)	1 262	21 900	93 886	83 198	64 381	18 854	10 688	(S)	5	10
1629	Heavy construction, n.e.c.-----	(S)	891	22 678	109 696	74 483	(S)	36 491	35 214	(S)	9	6
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	565	4 971	106 347	415 121	351 717	179 080	175 209	63 404	6 294	4	4
1721	Painting and paper hanging-----	(S)	1 086	15 080	48 279	40 743	29 996	10 773	7 536	257	22	17
1731	Electrical work-----	(S)	4 017	93 071	275 872	268 517	157 132	115 808	(S)	(S)	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	(S)	(S)	(S)	(D)	5 507	(S)	(D)	(S)	(S)	(D)
1742	Plastering, drywall, and insulation work-----	(S)	1 296	25 018	105 650	87 559	45 817	41 756	(S)	1 104	12	11
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(D)	220	(S)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	1 036	20 109	81 657	69 698	42 221	28 993	11 960	876	18	16
1752	Floor laying and other floor work---	47	(S)	6 692	28 891	25 715	12 936	12 974	3 176	*811	(S)	21
1761	Roofing, siding, and sheet metal work-----	(S)	(S)	28 429	103 578	94 782	50 065	44 913	8 796	(S)	(S)	8
1771	Concrete work-----	(S)	880	15 243	(S)	(S)	35 422	(S)	(S)	636	11	(S)

CONSTRUCTION—GEOGRAPHIC AREA SERIES

FLORIDA FL-15

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>MIAMI-FORT LAUDERDALE, FL CMSA—Con.</b>											
	<b>Miami, FL PMSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
<b>1781</b>	<b>Special trade contractors—Con.</b>											
	Water well drilling -----	8	(S)	*1 041	(D)	(D)	*2 112	(D)	(D)	(D)	(S)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	13	623	11 524	33 415	31 964	23 107	8 857	1 451	277	33	24
1793	Glass and glazing work -----	35	222	2 756	12 189	12 068	5 975	6 301	(S)	110	19	19
1794	Excavation work -----	19	159	3 227	12 250	12 013	7 966	4 393	237	(S)	26	25
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(D)	(D)	(S)	(D)	(D)	(D)	(S)	(D)
1796	Installing building equipment, n.e.c. -	26	1 245	27 826	108 225	107 491	77 928	29 611	734	(D)	3	2
1799	Special trade contractors, n.e.c.-----	(S)	1 731	31 594	103 569	90 308	58 807	31 815	*13 261	(S)	8	11
	<b>JACKSONVILLE, FL MSA</b>											
<b>15,16,17</b>	<b>Construction industries -----</b>	<b>2 266</b>	<b>22 457</b>	<b>513 920</b>	<b>2 692 260</b>	<b>1 992 262</b>	<b>1 049 433</b>	<b>972 990</b>	<b>699 998</b>	<b>26 991</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	327	1 613	27 771	259 008	164 605	84 059	85 109	94 402	2 124	14	15
1522	Other residential buildings -----	*27	192	4 058	33 059	14 562	8 704	5 986	18 497	(D)	28	29
1531	Operative builders -----	75	430	11 837	268 533	174 509	82 647	93 204	94 024	592	17	16
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	34	2 011	66 011	504 167	340 803	122 112	226 440	163 363	2 292	7	7
1542	Nonresidential buildings, n.e.c.-----	(S)	1 364	31 167	257 017	122 374	(S)	57 867	134 643	(S)	12	10
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction -----	27	1 034	22 044	118 717	93 362	44 265	50 668	25 355	3 857	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	5	*110	2 091	7 429	6 305	2 051	4 254	*1 124	-	48	21
1623	Water, sewer, and utility lines -----	27	594	13 995	62 344	50 461	37 180	13 616	11 883	(S)	17	16
1629	Heavy construction, n.e.c. -----	84	1 209	32 649	189 901	134 147	78 405	57 145	55 754	3 539	7	6
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning -----	296	3 489	80 062	287 367	247 790	140 384	109 306	39 577	2 073	3	3
1721	Painting and paper hanging -----	138	880	16 257	55 200	47 992	31 485	17 211	7 208	449	8	17
1731	Electrical work -----	207	3 269	84 226	235 917	227 756	143 950	86 961	8 161	2 187	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	(S)	(S)	9 468	27 693	26 455	17 950	8 598	(S)	(S)	(S)	16
1742	Plastering, drywall, and insulation work -----	79	973	21 294	69 091	56 503	33 318	24 369	12 588	880	5	7
1743	Terrazzo, tile, marble, and mosaic work -----	43	146	2 509	9 822	9 355	4 561	5 241	467	(S)	18	16
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	1 011	16 811	68 887	57 105	32 737	25 821	11 781	(S)	11	10
1752	Floor laying and other floor work -----	(S)	116	2 253	7 044	6 489	4 153	2 454	*555	(S)	13	11
1761	Roofing, siding, and sheet metal work -----	(S)	1 148	21 229	68 301	63 289	32 736	30 611	5 012	916	10	9
1771	Concrete work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1781	Water well drilling -----	12	56	1 363	4 538	4 536	2 427	2 109	*2	(D)	9	11
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	17	331	8 363	41 505	(D)	14 574	22 408	(D)	157	1	(D)
1793	Glass and glazing work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	*41	(S)	(S)
1794	Excavation work -----	29	132	2 892	10 964	(D)	4 472	5 140	(D)	443	6	(D)
1795	Wrecking and demolition work -----	8	44	1 019	4 510	(D)	4 272	473	(D)	113	(Z)	(D)
1796	Installing building equipment, n.e.c. -	*19	238	5 295	13 303	(D)	9 657	3 432	(D)	(D)	13	(D)
1799	Special trade contractors, n.e.c.-----	126	783	15 303	48 888	42 853	23 816	19 754	6 035	3 301	15	13

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**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
<b>ORLANDO, FL MSA</b>												
15,16,17	Construction industries .....	3 421	32 430	701 135	3 819 073	2 634 008	1 458 611	1 250 741	1 185 065	49 413	2	2
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	542	2 427	43 009	382 210	235 438	124 037	121 336	146 772	2 795	16	15
1522	Other residential buildings .....	21	307	10 251	109 830	40 318	19 059	22 543	69 512	564	8	10
1531	Operative builders .....	(S)	2 318	61 156	661 781	415 004	203 260	241 146	246 777	3 205	3	5
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	(S)	(S)	(S)	43 371	(S)	(S)	(S)	16 517	551	(S)	(S)
1542	Nonresidential buildings, n.e.c. ....	184	3 124	80 235	705 549	276 662	155 091	124 752	428 887	1 834	5	5
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	48	1 964	44 917	262 113	175 968	105 245	75 797	86 144	10 336	7	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	(S)	1 145	25 372	102 836	80 928	45 632	35 508	21 908	4 873	6	4
1629	Heavy construction, n.e.c. ....	115	1 022	21 769	124 683	97 908	62 456	35 916	26 775	(S)	11	11
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	425	4 235	99 321	345 641	312 933	175 240	144 372	32 708	6 387	3	4
1721	Painting and paper hanging .....	191	961	15 412	47 368	44 521	30 978	13 778	*2 846	(S)	14	10
1731	Electrical work .....	353	4 252	84 409	275 739	258 022	128 668	133 385	17 717	3 537	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	131	991	16 462	47 207	44 736	28 443	16 497	2 470	707	10	8
1742	Plastering, drywall, and insulation work .....	150	1 980	43 893	142 497	115 511	72 430	53 215	*26 986	687	9	9
1743	Terrazzo, tile, marble, and mosaic work .....	(S)	164	(D)	9 982	(D)	(D)	4 684	(D)	120	7	(D)
175	Carpentry and floor work:											
1751	Carpentry .....	(S)	(S)	14 723	68 982	53 445	29 504	24 530	15 537	1 152	(S)	13
1752	Floor laying and other floor work .....	(S)	(D)	3 098	13 898	12 436	6 233	6 233	*1 462	*55	(D)	19
1761	Roofing, siding, and sheet metal work .....	249	2 216	41 658	168 057	151 635	81 673	70 114	16 422	2 506	10	10
1771	Concrete work .....	175	1 250	23 417	80 092	77 280	45 642	31 720	2 812	2 072	11	9
1781	Water well drilling .....	21	153	3 518	11 625	11 322	6 998	(D)	303	258	24	18
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	32	283	4 587	14 176	13 647	7 148	6 509	529	*44	17	18
1793	Glass and glazing work .....	30	261	6 077	23 299	22 262	10 618	13 377	*1 037	*55	12	12
1794	Excavation work .....	80	407	7 481	30 941	28 177	16 412	11 903	2 763	607	17	18
1795	Wrecking and demolition work .....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	(S)	228	6 259	(D)	(D)	14 189	4 828	(D)	(D)	20	(D)
1799	Special trade contractors, n.e.c. ....	(S)	1 220	27 289	113 566	101 340	60 007	42 022	12 226	3 143	10	11
<b>TAMPA-ST. PETERSBURG-CLEARWATER, FL MSA</b>												
15,16,17	Construction industries .....	4 773	39 916	809 754	4 242 494	3 067 607	1 688 212	1 442 645	1 174 887	56 136	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	596	3 974	64 614	639 359	416 719	165 204	254 336	222 639	2 716	5	5
1522	Other residential buildings .....	55	277	5 209	44 588	(D)	16 686	8 404	(D)	938	17	(D)
1531	Operative builders .....	150	1 497	33 355	477 413	267 614	151 168	124 408	209 799	(S)	5	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	34	(S)	(S)	80 831	36 679	16 872	20 018	44 152	(S)	(S)	10
1542	Nonresidential buildings, n.e.c. ....	285	2 584	69 629	637 537	249 167	117 566	146 371	388 370	3 683	6	11
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	(S)	1 873	45 118	237 345	168 822	110 267	61 953	68 523	3 917	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	*4	(D)	3 760	(D)	(D)	8 843	(D)	15 564	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	94	2 045	41 450	146 205	119 226	73 850	51 346	26 980	6 062	5	5
1629	Heavy construction, n.e.c. ....	95	1 649	44 549	232 554	202 112	125 971	84 272	30 443	5 477	7	3

CONSTRUCTION—GEOGRAPHIC AREA SERIES

FLORIDA FL-17

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>TAMPA-ST. PETERSBURG-CLEARWATER, FL MSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	655	5 598	118 160	421 310	391 303	208 321	187 574	30 007	5 945	3	3
1721	Painting and paper hanging-----	317	1 416	22 363	69 079	65 301	46 240	19 483	3 779	2 514	12	10
1731	Electrical work-----	443	5 205	110 451	355 198	342 997	201 023	145 721	12 201	3 671	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	192	1 000	14 751	47 483	45 118	29 832	15 570	*2 365	517	10	14
1742	Plastering, drywall, and insulation work-----	209	2 471	46 988	139 161	128 197	71 861	56 594	10 964	3 477	7	6
1743	Terrazzo, tile, marble, and mosaic work-----	115	535	9 320	30 159	28 477	14 824	14 130	1 681	*245	14	15
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	1 194	21 544	(S)	(S)	36 553	(S)	(S)	(S)	11	(S)
1752	Floor laying and other floor work---	(S)	260	5 658	38 768	32 021	12 505	19 517	6 747	(D)	17	16
1761	Roofing, siding, and sheet metal work-----	350	2 096	37 661	153 427	135 150	68 956	66 823	18 276	2 051	8	7
1771	Concrete work-----	185	1 098	17 058	64 610	60 887	40 328	23 644	3 723	(S)	11	11
1781	Water well drilling-----	29	156	(D)	11 414	11 270	(D)	5 315	144	288	18	15
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	63	499	11 247	34 935	29 033	19 931	9 997	5 902	1 122	16	14
1793	Glass and glazing work-----	37	209	4 267	14 883	14 735	7 064	8 436	148	55	19	22
1794	Excavation work-----	(S)	664	13 909	47 039	40 168	22 476	17 735	6 871	2 804	18	11
1795	Wrecking and demolition work-----	*11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.---	26	364	7 878	(D)	(D)	16 157	7 050	(D)	262	9	(D)
1799	Special trade contractors, n.e.c.---	356	2 600	44 328	177 395	142 777	86 963	59 566	34 618	2 376	11	7
	<b>WEST PALM BEACH-BOCA RATON, FL MSA</b>											
<b>15,16,17</b>	<b>Construction industries-----</b>	<b>2 934</b>	<b>21 281</b>	<b>459 936</b>	<b>2 300 232</b>	<b>1 713 403</b>	<b>941 927</b>	<b>809 112</b>	<b>586 829</b>	<b>21 415</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses-----	494	2 968	53 655	376 274	245 740	115 365	138 215	130 534	2 729	5	10
1522	Other residential buildings-----	30	250	6 124	*25 934	15 304	8 492	*6 812	*10 630	94	38	38
1531	Operative builders-----	(S)	1 520	44 510	470 178	288 322	190 139	109 545	181 856	1 439	4	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	34	253	5 524	44 827	17 875	10 442	7 630	26 951	262	28	21
1542	Nonresidential buildings, n.e.c.-----	161	1 366	33 708	259 008	145 308	57 640	90 554	113 700	1 936	10	10
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction-----	49	775	18 387	87 297	64 466	17 823	51 468	22 831	2 583	7	7
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	(S)	(S)	(S)	62 841	53 037	(S)	17 481	9 804	(S)	(S)	9
1629	Heavy construction, n.e.c.-----	(S)	492	11 646	47 113	42 920	23 785	20 337	4 194	(S)	10	13
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	388	2 454	59 156	197 272	183 953	104 134	82 603	(S)	2 212	4	4
1721	Painting and paper hanging-----	174	923	16 896	44 156	42 238	27 243	15 009	1 918	579	8	7
1731	Electrical work-----	361	2 453	55 748	182 168	178 896	103 997	77 024	(S)	1 183	5	9
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	86	588	9 299	29 103	27 872	18 494	9 385	1 230	325	21	12
1742	Plastering, drywall, and insulation work-----	110	990	21 691	79 950	63 592	36 398	27 445	16 358	(S)	9	12
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	283	5 425	17 592	15 728	7 752	8 112	*1 864	*181	21	20
175	Carpentry and floor work:											
1751	Carpentry-----	207	965	19 509	70 420	55 048	31 258	23 934	(S)	591	13	14
1752	Floor laying and other floor work---	(S)	98	1 845	9 298	8 205	3 914	4 410	*1 093	(S)	20	22
1761	Roofing, siding, and sheet metal work-----	133	1 392	26 276	99 803	93 439	52 128	41 530	6 364	2 157	11	8
1771	Concrete work-----	(S)	1 058	19 434	67 141	58 110	32 260	26 084	9 031	972	11	9

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**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

Table 11. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WEST PALM BEACH-BOCA RATON, FL MSA—Con.</b>											
	<b>Construction industries—Con.</b>											
15,16,17	<b>Special trade contractors—Con.</b>											
1781	Water well drilling -----	9	(D)	(D)	(D)	(D)	(D)	(D)	36	77	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	12	169	3 540	10 047	9 439	6 631	2 808	*608	*364	22	18
1793	Glass and glazing work -----	44	260	6 694	23 355	23 061	10 492	13 034	294	168	11	11
1794	Excavation work -----	(S)	(S)	2 112	9 763	8 530	5 411	(S)	*1 233	(S)	(S)	22
1795	Wrecking and demolition work -----	(S)	(S)	65	(D)	2 303	(D)	1 393	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. -	(S)	(S)	111	1 386	(D)	3 069	993	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.-----	167	955	19 460	75 731	62 104	35 947	28 528	13 627	(S)	15	9

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## Georgia

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Georgia. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 56,289 establishments in this State operating in the construction industries. These establishments accounted for \$15.4 billion in total dollar value of business done.

Most of the 56,289 construction establishments were small. Of the total, 42,708 were nonemployers, and over half of the employer establishments had less than 5 employees. The 5,391 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 77 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$14.0 billion in total dollar value of business done. Of this amount, \$13.8 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$3.9 billion, leaving net value of construction work of \$9.8 billion. In addition, these establishments paid out \$5.1 billion for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$5.4 billion. (See Introduction and appendixes for explanation of terms.)

There were 13,581 establishments with total employment averaging 123,888 during the year. Total payroll for 1992 was \$2.7 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 42,708 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.4 billion. Most of these establishments, about 81 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

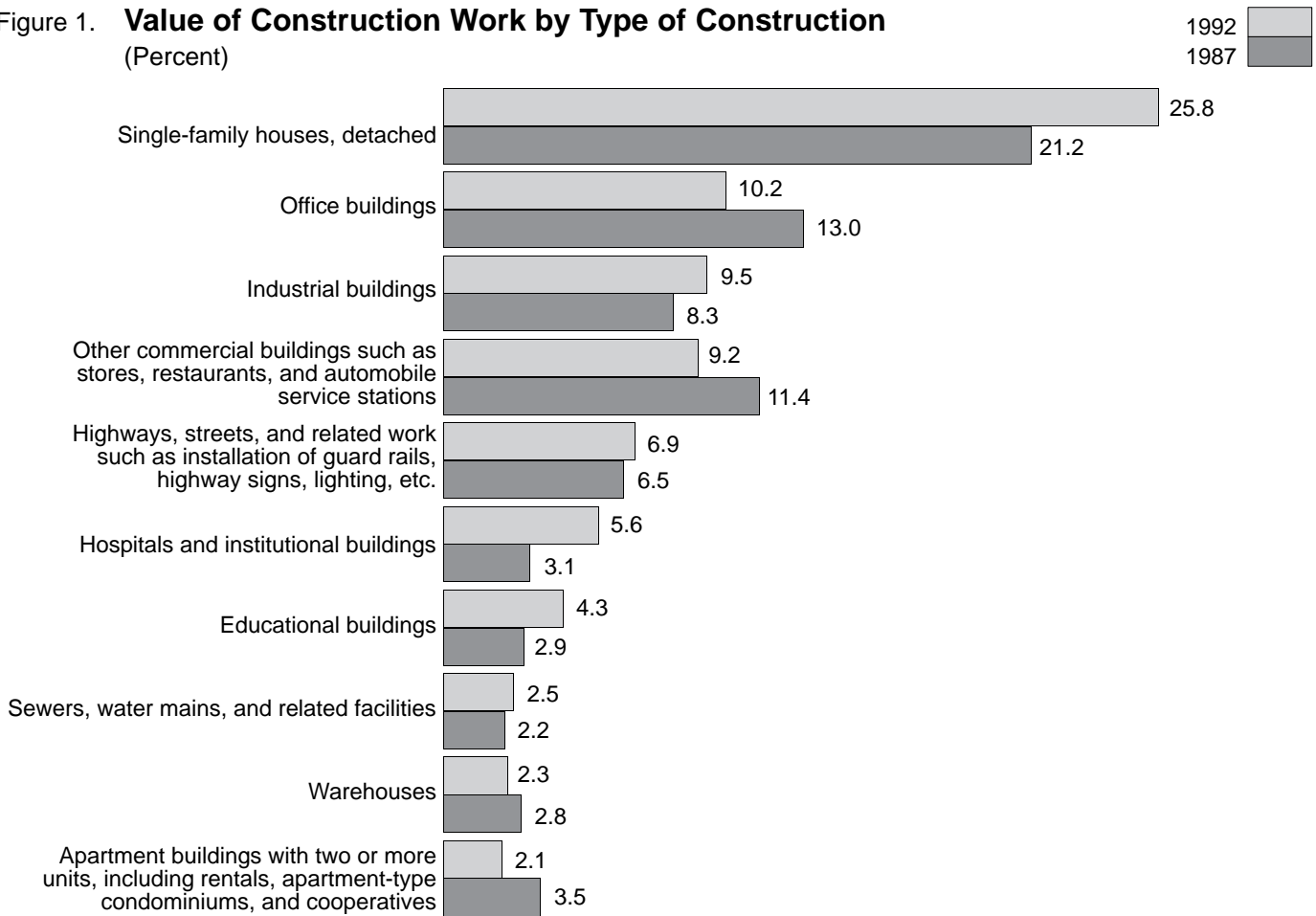
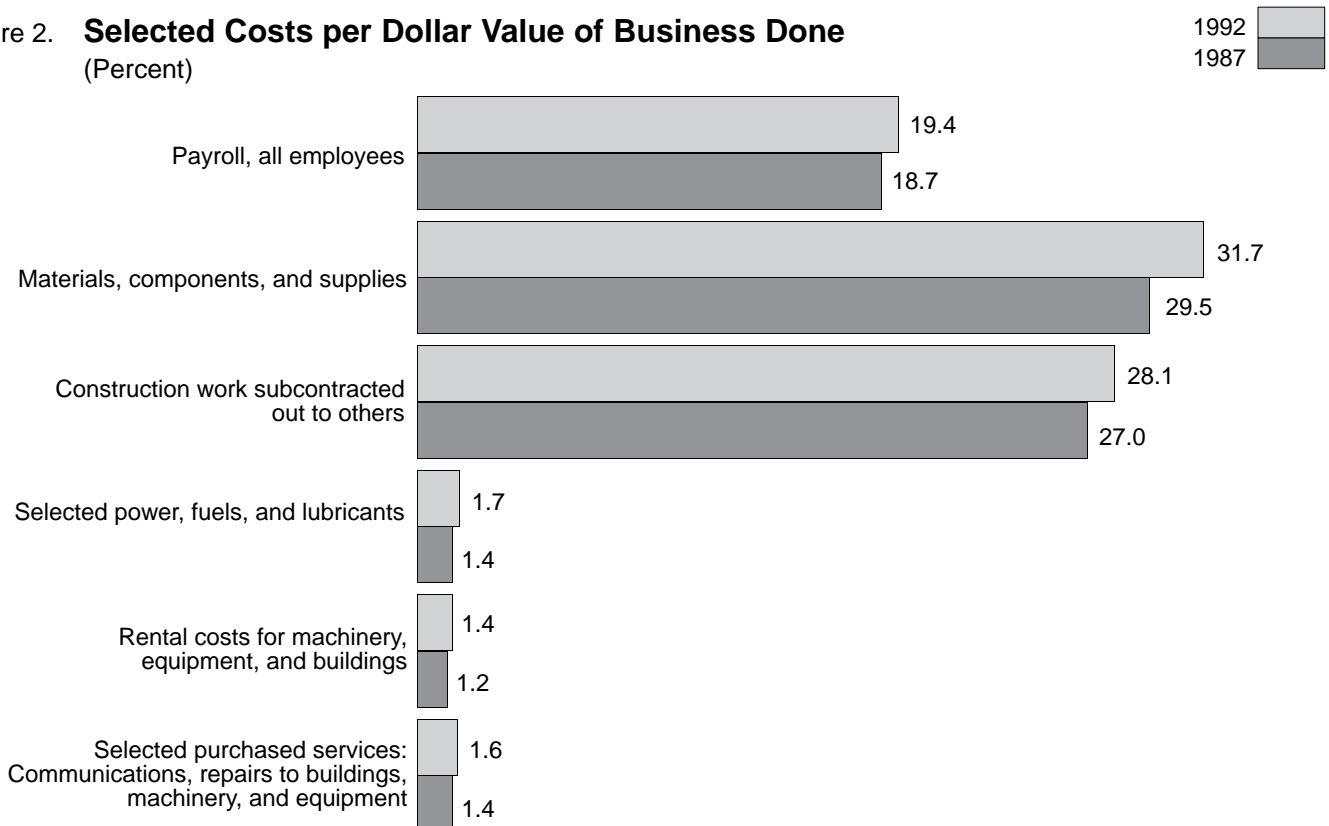


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)





**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column— J K	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	56 289	46 046	123 888	15 401 575	42 708	41 280	1 443 127	13 581	4 766	123 888	13 958 448	1	1
15	Building construction—General contractors and operative builders ----	11 066	7 258	30 836	7 212 733	7 154	6 241	640 454	3 912	1 017	30 836	6 572 279	1	2
16	Heavy construction other than building construction—contractors -----	1 909	1 035	22 335	2 358 795	824	788	31 631	1 085	(S)	22 335	2 327 164	2	1
17	Special trade contractors -----	43 314	37 753	70 718	5 830 047	34 730	34 251	771 042	8 584	3 502	70 718	5 059 005	1	1
1711	Plumbing, heating, and air-conditioning --	5 161	3 806	17 291	1 538 749	3 132	3 052	95 327	2 029	754	17 291	1 443 422	2	2
1731	Electrical work -----	4 002	2 912	13 887	1 043 965	2 595	2 513	52 222	1 407	399	13 887	991 743	2	2
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	60 192	48 455	149 698	18 039 517	46 291	45 125	2 970 224	13 901	3 330	149 698	15 069 293	1	1
15	Building construction—General contractors and operative builders ----	15 183	10 630	38 782	8 304 395	10 939	9 881	1 240 223	4 244	749	38 782	7 064 172	1	1
16	Heavy construction other than building construction—contractors -----	1 927	1 001	23 220	2 545 673	767	755	86 214	1 160	246	23 220	2 459 459	1	1
17	Special trade contractors -----	41 433	35 483	85 813	6 303 808	33 234	33 179	1 194 747	8 199	2 304	85 813	5 109 061	1	1
1711	Plumbing, heating, and air-conditioning --	5 096	3 643	19 379	1 608 573	3 154	3 144	159 391	1 942	499	19 379	1 449 182	2	2
1731	Electrical work -----	3 472	2 473	16 633	1 106 190	2 254	2 236	84 239	1 218	237	16 633	1 021 951	1	1

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries¹</b> .....	<b>13 581</b>	<b>123 888</b>	<b>95 113</b>	<b>2 712 171</b>	<b>1 860 397</b>	<b>13 761 145</b>	<b>9 840 063</b>	<b>5 372 566</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	2 014	7 665	5 372	128 817	78 249	1 151 671	771 847	382 047
1522	Other residential buildings .....	115	1 389	798	30 000	18 557	234 518	127 609	69 322
1531	Operative builders .....	739	3 573	1 556	99 276	28 159	1 486 249	974 894	386 648
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	214	3 453	2 646	91 635	60 132	525 246	290 159	165 241
1542	Nonresidential buildings, n.e.c. ....	831	14 756	10 350	370 607	215 507	3 082 659	1 306 529	635 369
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	264	8 445	7 116	169 464	127 661	984 560	740 535	399 994
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	27	1 002	802	22 065	15 706	110 442	85 024	53 428
1623	Water, sewer, and utility lines .....	352	6 077	4 935	136 427	102 783	546 358	483 214	285 575
1629	Heavy construction, n.e.c. ....	442	6 811	5 392	173 416	132 213	647 813	525 835	320 152
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	2 029	17 291	13 017	392 050	271 382	1 435 736	1 260 720	677 517
1721	Painting and paper hanging .....	628	4 153	3 516	79 151	60 857	237 998	202 945	146 136
1731	Electrical work .....	1 407	13 887	10 823	337 111	246 409	982 595	943 510	556 079
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	461	3 317	3 051	51 414	44 132	149 427	131 894	82 341
1742	Plastering, drywall, and insulation work .....	398	5 010	4 202	98 086	77 326	352 649	325 415	185 109
1743	Terrazzo, tile, marble, and mosaic work .....	164	1 021	825	20 127	15 204	74 139	68 147	36 759
175	Carpentry and floor work:								
1751	Carpentry .....	772	3 138	2 621	46 288	36 899	171 521	151 768	88 455
1752	Floor laying and other floor work .....	204	1 016	753	19 042	12 958	97 764	87 071	47 377
1761	Roofing, siding, and sheet metal work .....	593	4 977	3 951	99 235	66 105	330 874	307 522	170 873
1771	Concrete work .....	528	5 112	4 301	96 128	73 349	349 755	314 499	193 891
1781	Water well drilling .....	89	401	297	7 014	4 629	30 260	29 861	16 943
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	116	1 580	1 276	32 952	23 507	109 573	91 220	63 398
1793	Glass and glazing work .....	134	1 097	763	24 702	16 401	89 124	87 330	43 293
1794	Excavation work .....	300	1 608	1 353	34 627	26 998	129 447	114 066	80 091
1795	Wrecking and demolition work .....	*18	116	90	1 587	1 056	4 946	4 122	4 311
1796	Installing building equipment, n.e.c. ....	111	2 270	1 722	51 559	36 921	157 803	150 874	102 391
1799	Special trade contractors, n.e.c. ....	631	4 724	3 584	99 392	67 295	288 020	263 450	179 826

¹For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
4 664 801	3 921 082	3 275 086	189 150	185 957	1 798 389	149 698	14 405 566	5 963 428	1	1	4	15, 16, 17
405 881	379 824	23 031	6 545	8 197	49 623	8 816	(D)	308 826	4	6	19	152
59 525	106 908	6 311	1 807	(S)	(S)	1 842	266 475	88 981	9	12	(S)	1522
615 597	511 356	*7 093	2 483	10 157	68 983	5 754	(D)	408 852	6	6	34	1531
136 849	235 087	64 583	7 087	4 315	34 718	5 219	674 156	240 091	6	4	17	154
706 496	1 776 129	51 362	41 859	12 799	151 554	17 151	3 286 314	765 438	2	2	7	1542
												16
365 730	244 025	152 461	17 064	30 489	368 391	8 121	913 408	417 591	2	2	4	1611
31 612	25 417	30 420	888	3 913	36 247	1 212	122 850	54 093	11	6	10	162
204 540	63 144	87 526	13 940	19 347	181 507	7 813	846 225	508 260	3	3	13	1622
211 570	121 977	136 948	20 097	17 431	162 436	6 074	527 124	267 658	3	3	15	1623
												17
590 889	175 017	702 652	18 720	15 916	156 712	19 379	1 437 158	680 239	2	2	8	1711
57 185	35 053	134 103	4 643	2 836	29 687	4 142	183 033	128 760	5	6	16	1721
396 579	39 085	556 843	15 249	11 505	119 381	16 633	1 014 997	591 669	2	2	11	1731
49 595	17 533	112 355	2 472	2 631	14 255	4 081	122 890	81 550	6	8	30	174
147 052	27 234	281 909	3 085	3 278	31 332	6 337	371 905	205 098	4	4	21	1742
(D)	(S)	43 718	572	537	4 711	827	47 297	25 821	12	17	25	1743
64 941	19 753	91 104	2 195	2 067	14 737	7 477	173 535	97 090	8	9	33	175
42 507	10 693	40 956	(S)	(S)	6 749	825	69 643	33 805	15	12	(S)	1751
140 263	23 352	154 032	5 411	3 910	48 890	6 156	361 902	200 241	4	4	14	1761
125 055	35 256	231 098	7 067	15 068	104 959	5 805	349 706	195 278	4	5	25	1771
12 918	398	1 735	*323	(S)	23 673	384	24 045	12 573	13	17	(S)	1781
37 483	18 353	65 070	3 547	1 652	17 992	2 443	188 780	123 074	8	6	16	179
47 327	1 794	55 760	1 041	683	7 816	1 237	101 860	49 726	10	9	39	1791
36 179	15 381	64 564	3 945	5 585	80 115	1 868	128 976	88 334	8	8	25	1793
(D)	824	1 527	245	99	2 854	198	13 068	11 652	19	19	(Z)	1794
54 435	6 929	45 793	2 171	1 206	17 671	1 824	143 324	103 427	2	1	(Z)	1795
90 650	24 570	132 131	6 190	7 686	56 723	6 197	302 106	174 610	5	5	16	1796
												1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	13 581	13 901	10 126	10 928	1	1	2	2
Proprietors and working partners .....	4 766	3 330	3 430	6 194	2	4	4	4
All employees** .....	123 888	149 698	106 130	100 599	1	1	1	1
Construction workers:								
March .....	90 860	113 644	85 126	78 290	1	1	1	1
May .....	97 188	119 952	87 926	87 454	1	1	1	1
August .....	98 126	124 721	91 469	92 234	1	1	1	1
November .....	94 278	117 453	85 054	87 830	1	1	1	1
Average .....	95 113	118 942	88 225	86 505	1	1	1	1
Other employees:								
March .....	29 092	30 509	17 638	13 589	1	1	2	2
May .....	28 324	30 316	(NA)	(NA)	1	1	(NA)	(NA)
August .....	28 665	31 221	(NA)	(NA)	1	1	(NA)	(NA)
November .....	29 021	30 975	(NA)	(NA)	1	1	(NA)	(NA)
Average .....	28 776	30 755	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	2 712 171	2 822 054	1 548 390	1 000 898	(Z)	(Z)	1	1
Payroll, construction workers .....	1 860 397	1 973 385	1 186 662	788 355	1	1	1	1
Payroll, other employees .....	851 774	848 669	361 728	212 543	1	1	1	1
First-quarter payroll, all employees .....	615 216	633 141	351 394	208 261	1	1	1	1
Fringe benefits, all employees .....	554 959	515 576	274 710	158 295	1	1	1	1
Legally required expenditures .....	392 105	366 502	212 538	105 325	1	1	1	1
Voluntary expenditures .....	162 854	149 074	62 172	52 971	1	1	1	1
Dollar value of business done .....	13 958 448	15 069 293	7 080 992	4 379 392	1	1	1	1
Value of construction work .....	13 761 145	14 405 566	6 853 334	4 216 749	1	1	1	1
Value of construction work subcontracted in from others .....	3 275 086	3 325 502	1 554 665	929 059	2	2	4	(Z)
Other business receipts .....	197 303	279 649	141 669	162 642	5	3	2	4
Net value of construction† .....	9 840 063	10 341 232	5 003 363	3 219 980	1	1	1	1
Value added†† .....	5 372 566	5 963 428	2 846 983	1 759 556	1	1	1	1
Selected costs .....	8 585 882	8 721 787	4 148 020	2 556 326	1	1	1	1
Materials, components, and supplies .....	4 423 782	4 442 219	2 159 180	1 478 239	1	1	1	1
Construction work subcontracted out to others .....	3 921 082	4 064 334	1 849 971	996 769	2	1	1	2
Selected power, fuels, and lubricants .....	241 019	215 234	138 868	81 318	1	1	2	1
Electricity .....	41 398	32 302	18 040	9 430	2	2	2	2
Natural gas .....	13 067	10 427	5 826	3 833	3	4	2	4
Gasoline and diesel fuel .....	171 624	159 013	105 824	57 984	1	1	2	1
On highway use .....	117 126	115 799	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use .....	54 498	43 214	(NA)	(NA)	2	3	(NA)	(NA)
Other, including lubricating oils and greases .....	14 930	13 490	9 177	10 075	3	3	3	3
Rental cost for machinery, equipment, and buildings .....	189 150	179 082	77 150	47 550	2	2	2	2
For machinery and equipment .....	128 438	123 799	60 500	39 610	2	2	2	2
For buildings .....	60 712	55 282	16 649	7 940	3	2	3	3
Selected purchased services .....	226 929	204 004	111 332	92 593	2	1	1	3
Communication services .....	75 421	54 286	27 203	21 549	4	2	2	5
Repairs to buildings and other structures .....	10 769	11 702	5 127	3 550	8	4	3	4
Repairs to machinery and equipment .....	140 739	138 015	79 001	67 495	2	2	1	3
Ownership of construction projects:								
Value of construction work .....	13 761 145	14 405 566	6 853 334	4 216 749	1	1	1	1
Government owned .....	3 135 980	2 327 982	1 504 343	1 079 064	3	2	2	1
Federal .....	886 236	784 080	(NA)	(NA)	9	3	(NA)	(NA)
State and local .....	2 249 745	1 543 901	(NA)	(NA)	3	2	(NA)	(NA)
Privately owned .....	10 625 165	12 077 584	5 348 991	3 137 685	2	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	1 718 792	1 539 195	2	2
Capital expenditures, other than land .....	185 957	248 622	4	3
New .....	148 131	195 776	5	3
Used .....	37 826	52 846	8	7
Retirements and disposition of depreciable assets .....	106 359	74 587	6	9
End-of-year gross book value of depreciable assets .....	1 798 389	1 713 231	2	2
Depreciation charges during year .....	193 888	218 769	2	3
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	235 148	361 428	5	5
Capital expenditures, other than land .....	17 394	46 222	18	11
New buildings and other structures .....	13 774	35 471	22	14
Used buildings and other structures .....	3 620	10 750	19	16
Retirements and disposition of depreciable assets .....	6 519	18 126	18	23
End-of-year gross book value of depreciable assets .....	246 022	389 524	5	5
Depreciation charges during year .....	21 199	31 807	7	5
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	1 483 644	1 177 767	2	2
Capital expenditures, other than land .....	168 563	202 400	4	3
New machinery and equipment, including automobiles and trucks .....	134 357	160 304	4	3
New automobiles and trucks, intended primarily for highway use .....	47 809	73 086	5	3
Used machinery and equipment, including automobiles and trucks .....	34 206	42 095	9	7
Retirements and disposition of depreciable assets .....	99 840	56 460	6	7
End-of-year gross book value of depreciable assets .....	1 552 367	1 323 706	2	2
Depreciation charges during year .....	172 689	186 961	2	3

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	13 581	1
Value of construction work .....	13 761 145	1
Establishments with inventories:		
Number .....	3 551	2
Value of construction work .....	4 608 700	1
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	175 718	9
End of 1991, materials and supplies .....	154 360	8
Establishments with no inventories:		
Number .....	5 258	2
Value of construction work .....	5 695 584	2
Establishments not reporting:		
Number .....	4 772	2
Value of construction work .....	3 456 861	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	13 581	8 189	2 588	1 542	863	270	97	24	5	2
All employees** .....	123 888	16 254	16 604	20 020	25 551	17 889	13 907	8 233	5 432	(D)
Payroll, all employees .....	2 712 171	258 453	289 245	408 746	601 671	450 531	358 806	235 782	108 938	(D)
Dollar value of business done .....	13 958 448	2 041 257	1 571 615	1 993 113	2 806 833	2 077 084	1 686 198	1 200 386	581 962	(D)
Value of construction work .....	13 761 145	2 013 333	1 543 830	1 960 307	2 765 676	2 054 693	1 651 755	1 192 434	579 117	(D)
Net value of construction work† .....	9 840 063	1 482 785	1 183 746	1 512 416	2 017 356	1 470 185	1 122 829	735 545	315 202	(D)
Value added†† .....	5 372 566	736 112	652 305	836 161	1 096 791	793 215	650 603	460 597	146 782	(D)
Cost of materials, components, supplies, and fuels .....	4 664 801	774 597	559 226	709 061	961 721	699 362	506 669	282 900	171 265	(D)
Cost of construction work subcontracted out to others .....	3 921 082	530 548	360 084	447 891	748 320	584 508	528 926	456 889	263 915	(D)
Rental cost for machinery, equipment, and buildings .....	189 150	17 087	23 202	22 189	35 910	24 925	39 536	15 226	11 076	(D)
Capital expenditures, other than land .....	185 957	27 606	27 150	25 849	35 423	20 820	29 705	14 452	4 952	(D)
End-of-year gross book value of depreciable assets .....	1 798 389	212 324	227 929	214 088	427 325	275 339	282 849	123 651	34 884	(D)
<b>1987</b>										
All employees** .....	149 698	16 182	18 803	22 697	29 781	22 073	21 248	8 622	3 120	7 169
Value of construction work .....	14 405 566	1 811 183	1 544 123	1 768 567	2 668 625	2 168 218	2 248 734	2 196 115	(D)	(D)
Value added†† .....	5 963 428	678 480	656 234	776 809	1 215 484	897 086	902 035	444 818	392 480	(D)
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	3	4	4	2	2	(Z)	(Z)	(Z)	(D)
Net value of construction work† .....	1	4	5	4	2	1	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land .....	4	10	20	14	6	2	(Z)	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	13 581	(S)	(S)	1 825	3 756	2 025	1 666	1 585	515	286	202
All employees** .....	123 888	(S)	(S)	3 635	12 186	11 002	14 532	22 584	14 820	14 930	28 275
Payroll, all employees .....	2 712 171	(S)	(S)	36 589	162 134	184 783	279 881	480 498	364 810	410 380	776 827
Dollar value of business done .....	13 958 448	(S)	(S)	132 050	618 244	717 923	1 168 713	2 432 925	1 762 721	1 916 610	5 161 577
Value of construction work .....	13 761 145	(S)	(S)	130 272	613 092	708 335	1 148 071	2 397 724	1 732 331	1 889 329	5 094 635
Net value of construction work† .....	9 840 063	(S)	(S)	119 275	554 682	615 376	965 703	1 851 253	1 284 725	1 397 778	3 007 705
Value added†† .....	5 372 566	(S)	(S)	69 331	331 331	349 678	531 886	1 003 498	692 850	780 122	1 586 820
Cost of materials, components, supplies, and fuels .....	4 664 801	(S)	(S)	51 723	228 503	275 286	454 459	882 956	622 265	644 937	1 487 827
Cost of construction work subcontracted out to others .....	3 921 082	(S)	(S)	10 997	58 410	92 959	182 368	546 471	447 606	491 551	2 086 929
Rental cost for machinery, equipment, and buildings .....	189 150	(S)	(S)	2 044	(S)	11 606	14 830	29 716	21 302	25 653	72 299
Capital expenditures, other than land .....	185 957	(S)	(S)	3 951	13 722	13 537	24 294	31 326	17 859	21 748	58 841
End-of-year gross book value of depreciable assets .....	1 798 389	(S)	(S)	19 422	131 031	124 298	175 921	321 803	252 569	248 845	517 203
<b>1987</b>											
All employees** .....	149 698	(S)	(S)	(S)	(S)	13 352	16 068	24 846	21 948	17 014	36 601
Value of construction work .....	14 405 566	(S)	(S)	(S)	(S)	779 293	1 211 590	2 279 834	2 211 791	1 832 876	5 364 525
Value added†† .....	5 963 428	(S)	(S)	(S)	(S)	395 157	548 567	1 004 684	985 344	775 469	1 858 604
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	7	5	5	5	3	2	1	(Z)
Net value of construction work† .....	1	(S)	(S)	6	4	5	5	4	4	2	1
Capital expenditures, other than land .....	4	(S)	(S)	22	13	17	18	13	5	1	5

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>13 761 145</b>	<b>9 003 873</b>	<b>2 816 443</b>	<b>1 545 650</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
Building construction .....	10 523 470	7 290 050	2 230 442	1 002 978	1	2	2	2
Single-family houses .....	3 701 725	3 063 586	397 969	240 171	3	4	6	4
Single-family houses, detached .....	3 553 505	2 973 052	362 189	218 264	3	4	6	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	148 221	90 534	35 780	21 906	12	16	20	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	289 749	176 223	73 584	39 942	7	9	17	12
Other residential buildings, including hotels, motels, and tourist cabins .....	283 880	210 969	52 726	20 184	10	13	11	7
Office buildings .....	1 401 805	762 361	520 598	118 846	2	2	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 263 575	866 384	278 834	118 357	3	4	5	7
Industrial buildings and warehouses .....	1 616 279	911 033	358 572	346 674	1	2	3	2
Industrial buildings .....	1 303 595	737 802	284 874	280 918	2	2	4	3
Warehouses .....	312 684	173 230	73 698	65 755	3	5	3	4
Religious buildings .....	151 237	101 192	37 538	12 507	4	4	4	13
Educational buildings .....	587 603	418 822	139 884	28 897	4	4	9	4
Hospitals and institutional buildings .....	772 568	453 260	280 398	38 910	2	1	4	8
Amusement, social, and recreational buildings, indoors .....	223 355	180 984	30 002	12 369	3	3	8	24
Other nonresidential buildings .....	231 695	145 236	60 337	(S)	5	5	11	(S)
Nonbuilding construction .....	2 842 495	1 713 823	586 001	542 672	1	2	1	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	942 732	499 330	286 960	156 441	2	3	2	5
Airport runways and related work .....	83 064	(D)	(D)	(D)	1	(D)	(D)	(D)
Private driveways and parking areas .....	88 676	51 477	(D)	(D)	10	9	(D)	(D)
Bridges, tunnels, and elevated highways .....	174 630	122 471	36 966	15 193	5	7	2	8
Conservation and development construction .....	114 376	73 416	26 359	14 602	7	9	4	23
Power and communication transmission lines, towers, and related facilities .....	203 412	141 751	30 945	30 715	4	5	7	7
Sewers, water mains, and related facilities .....	349 334	263 597	55 811	29 927	5	5	6	18
Sewers, sewer lines, septic systems, and related facilities .....	198 907	149 698	32 075	17 133	6	6	7	24
Water mains and related facilities .....	150 428	113 899	23 736	12 793	6	8	11	18
Pipeline construction other than sewer or water lines .....	171 923	112 101	29 602	30 221	2	3	2	2
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	150 015	(D)	(D)	80 856	3	(D)	(D)	2
Power plants .....	142 369	65 108	12 570	64 692	7	10	13	4
Sewage treatment and water treatment plants .....	109 932	70 902	35 969	3 061	2	2	5	5
Other nonbuilding construction .....	312 031	218 780	22 810	70 441	7	5	9	23
Construction work, n.s.k. ....	395 179	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>14 405 566</b>	<b>10 360 446</b>	<b>2 230 994</b>	<b>1 071 999</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>
Building construction .....	10 637 865	8 139 339	1 749 321	749 205	1	1	2	2
Single-family houses .....	3 333 517	2 833 268	299 035	201 213	3	3	5	6
Single-family houses, detached .....	3 047 546	2 586 730	282 169	178 645	3	3	6	6
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	285 971	246 537	16 866	22 567	7	7	12	18
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	502 407	423 539	40 623	38 245	3	3	11	9
Other residential buildings, including hotels, motels, and tourist cabins .....	285 828	215 283	42 568	27 976	3	3	7	10
Office buildings .....	1 875 891	1 443 904	334 778	97 208	1	1	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 643 171	1 262 665	262 848	117 657	2	2	5	5
Industrial buildings and warehouses .....	1 594 844	1 055 289	355 935	183 619	1	2	2	3
Industrial buildings .....	1 196 979	738 516	303 496	154 966	1	2	2	2
Warehouses .....	397 864	316 772	52 439	28 652	4	4	5	16
Religious buildings .....	157 621	101 119	42 868	13 632	5	6	9	33
Educational buildings .....	418 438	263 400	139 189	15 849	3	2	6	4
Hospitals and institutional buildings .....	440 250	249 250	166 013	24 986	2	1	4	8
Amusement, social, and recreational buildings, indoors .....	105 636	69 114	32 457	4 063	3	4	3	17
Other nonresidential buildings .....	280 262	222 508	33 007	24 757	6	7	16	14
Nonbuilding construction .....	3 025 574	2 221 107	481 673	322 793	1	1	1	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	940 915	594 490	245 121	101 303	2	2	1	4
Private driveways and parking areas .....	113 775	79 762	20 505	13 507	9	9	10	10
Bridges, tunnels, and elevated highways .....	141 113	111 779	27 270	2 063	3	3	1	5
Power and communication transmission lines, towers, and related facilities .....	284 487	200 476	55 977	28 033	3	4	3	5
Sewers, water mains, and related facilities .....	323 408	282 112	23 785	17 510	4	4	6	8
Sewers, sewer lines, septic systems, and related facilities .....	184 898	164 896	11 858	8 143	4	4	5	12
Water mains and related facilities .....	138 510	117 215	11 926	9 367	5	6	9	8
Pipeline construction other than sewer or water lines .....	356 660	281 846	10 953	63 859	1	1	6	3
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	52 939	30 184	11 441	11 313	3	3	1	8
Power plants .....	134 975	110 368	9 254	15 352	1	(Z)	12	2
Sewage treatment and water treatment plants .....	120 936	92 445	24 162	4 328	4	4	3	11
Other nonbuilding construction .....	556 366	437 646	53 205	65 525	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k. ....	742 127	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>13 581</b>	<b>95 113</b>	<b>90 860</b>	<b>97 188</b>	<b>98 126</b>	<b>94 278</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	2 014	5 372	5 135	5 402	5 849	5 101	4	4	5	5	5	5	5
1522	Other residential buildings -----	115	798	722	883	814	774	17	12	14	10	13	15	15
1531	Operative builders -----	739	1 556	1 432	1 595	1 623	1 576	7	8	8	8	7	8	8
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	214	2 646	2 477	2 443	2 992	2 673	13	6	4	5	9	7	7
1542	Nonresidential buildings, n.e.c. ---	831	10 350	10 524	10 191	10 406	10 278	6	2	2	3	2	3	3
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	264	7 116	5 627	9 687	6 767	6 380	10	2	2	2	3	3	3
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	27	802	758	842	831	777	31	13	12	14	13	12	12
1623	Water, sewer, and utility lines -----	352	4 935	4 593	4 629	5 140	5 377	8	3	4	4	3	3	3
1629	Heavy construction, n.e.c. -----	442	5 392	5 176	5 403	5 641	5 348	8	3	3	3	3	3	3
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	2 029	13 017	12 648	12 922	13 628	12 872	2	2	2	2	2	2	2
1721	Painting and paper hanging -----	628	3 516	3 223	3 641	3 889	3 310	5	5	5	5	6	5	5
1731	Electrical work -----	1 407	10 823	10 540	10 589	11 024	11 140	3	2	2	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	461	3 051	2 983	3 282	3 234	2 706	5	6	6	9	7	8	8
1742	Plastering, drywall, and insulation work -----	398	4 202	4 378	4 301	4 168	3 963	7	4	4	4	4	4	4
1743	Terrazzo, tile, marble, and mosaic work -----	164	825	778	838	903	780	10	12	12	12	12	13	13
175	Carpentry and floor work:													
1751	Carpentry -----	772	2 621	2 369	2 762	2 744	2 608	5	8	8	9	8	8	8
1752	Floor laying and other floor work --	204	753	684	794	795	741	9	16	13	16	18	18	18
1761	Roofing, siding, and sheet metal work -----	593	3 951	3 860	3 773	4 108	4 064	5	4	4	4	4	4	4
1771	Concrete work -----	528	4 301	3 831	4 406	4 540	4 425	6	5	5	5	6	5	5
1781	Water well drilling -----	89	297	296	293	312	285	9	13	12	13	12	14	14
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	116	1 276	1 442	1 259	1 170	1 233	12	8	7	8	9	9	9
1793	Glass and glazing work -----	134	763	730	738	768	815	12	10	9	10	10	11	11
1794	Excavation work -----	300	1 353	1 277	1 388	1 391	1 356	10	8	8	8	9	8	8
1795	Wrecking and demolition work -----	*18	90	*134	89	67	71	42	25	45	17	(Z)	(Z)	(Z)
1796	Installing building equipment, n.e.c. -----	111	1 722	2 006	1 401	1 714	1 770	10	2	1	3	4	2	2
1799	Special trade contractors, n.e.c. ---	631	3 584	3 234	3 636	3 608	3 855	7	5	5	6	5	4	4

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.



**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>9.1</b>	<b>21.9</b>	<b>144.7</b>	<b>.197</b>	<b>.339</b>	<b>.285</b>	<b>.238</b>	<b>.014</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.8	16.8	214.4	.112	.352	.330	.020	.006
1522	Other residential buildings -----	12.1	21.6	293.9	.128	.254	.456	.027	.008
1531	Operative builders -----	4.8	27.8	955.2	.067	.414	.344	*.005	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	16.2	26.5	198.5	.174	.261	.448	.123	.013
1542	Nonresidential buildings, n.e.c. -----	17.8	25.1	297.8	.120	.229	.576	.017	.014
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	32.0	20.1	138.4	.172	.371	.248	.155	.017
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	37.1	22.0	137.7	.200	.286	.230	.275	.008
1623	Water, sewer, and utility lines -----	17.3	22.5	110.7	.250	.374	.116	.160	.026
1629	Heavy construction, n.e.c. -----	15.4	25.5	120.1	.268	.327	.188	.211	.031
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	8.5	22.7	110.3	.273	.412	.122	.489	.013
1721	Painting and paper hanging -----	6.6	19.1	67.7	.333	.240	.147	.563	.020
1731	Electrical work -----	9.9	24.3	90.8	.343	.404	.040	.567	.016
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	7.2	15.5	49.0	.344	.332	.117	.752	.017
1742	Plastering, drywall, and insulation work -----	12.6	19.6	83.9	.278	.417	.077	.799	.009
1743	Terrazzo, tile, marble, and mosaic work -----	6.2	19.7	89.9	.271	(D)	(S)	.590	.008
175	Carpentry and floor work:								
1751	Carpentry -----	4.1	14.8	65.4	.270	.379	.115	.531	.013
1752	Floor laying and other floor work -----	5.0	18.7	129.8	.195	.435	.109	.419	(S)
1761	Roofing, siding, and sheet metal work -----	8.4	19.9	83.7	.300	.424	.071	.466	.016
1771	Concrete work -----	9.7	18.8	81.3	.275	.358	.101	.661	.020
1781	Water well drilling -----	4.5	17.5	101.9	.232	.427	.013	.057	.011
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	13.6	20.9	85.9	.301	.342	.167	.594	.032
1793	Glass and glazing work -----	8.2	22.5	116.8	.277	.531	.020	.626	.012
1794	Excavation work -----	5.4	21.5	95.7	.267	.279	.119	.499	.030
1795	Wrecking and demolition work -----	6.4	13.7	55.0	.321	(D)	.167	.309	.050
1796	Installing building equipment, n.e.c. -----	20.5	22.7	91.6	.327	.345	.044	.290	.014
1799	Special trade contractors, n.e.c. -----	7.5	21.0	80.4	.345	.315	.085	.459	.021

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
<b>ATLANTA, GA MSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>7 077</b>	<b>73 991</b>	<b>1 752 988</b>	<b>9 317 025</b>	<b>6 440 197</b>	<b>3 501 736</b>	<b>3 059 787</b>	<b>2 876 829</b>	<b>110 864</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	(S)	4 197	77 981	715 264	471 967	237 517	240 455	243 297	(S)	6	8
1522	Other residential buildings .....	46	303	8 238	104 727	55 548	36 123	19 571	*49 179	(S)	16	19
1531	Operative builders .....	474	2 688	80 866	1 208 453	801 686	325 636	499 745	406 768	9 417	6	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	113	2 090	57 553	336 524	182 666	101 718	88 686	153 858	2 435	8	5
1542	Nonresidential buildings, n.e.c. ....	476	9 541	265 462	2 379 784	928 438	441 581	513 398	1 451 346	7 301	3	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	129	4 267	78 388	461 179	351 962	194 074	168 372	109 217	15 783	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	10	471	11 128	43 477	34 018	19 571	14 455	9 459	(D)	18	8
1623	Water, sewer, and utility lines .....	179	4 113	99 207	407 733	360 685	216 149	150 346	47 048	13 203	4	4
1629	Heavy construction, n.e.c. ....	213	3 550	96 668	386 147	312 277	185 415	128 277	73 870	8 144	4	4
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	993	9 785	238 203	898 115	765 642	409 662	359 449	132 473	8 529	2	2
1721	Painting and paper hanging .....	337	2 516	54 632	150 559	128 164	96 341	32 067	22 394	977	5	4
1731	Electrical work .....	745	8 450	219 402	642 239	612 541	362 403	256 233	29 698	5 964	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	(S)	1 756	32 686	101 229	85 865	51 508	34 388	15 363	(S)	8	12
1742	Plastering, drywall, and insulation work .....	235	3 026	65 275	233 928	213 144	123 760	93 648	20 784	1 956	5	6
1743	Terrazzo, tile, marble, and mosaic work .....	90	630	14 908	56 881	51 259	25 913	27 408	(S)	(D)	13	22
175	Carpentry and floor work:											
1751	Carpentry .....	398	1 806	27 288	89 883	80 798	46 605	35 154	9 085	1 398	11	9
1752	Floor laying and other floor work .....	109	477	12 021	65 600	57 927	32 446	28 030	7 673	(S)	11	11
1761	Roofing, siding, and sheet metal work .....	289	2 634	57 865	199 055	186 687	100 651	86 378	12 369	2 463	5	5
1771	Concrete work .....	292	3 731	71 826	261 272	232 631	140 346	93 528	28 641	12 062	5	6
1781	Water well drilling .....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	(S)	815	18 798	53 117	46 682	34 795	19 142	6 435	683	8	4
1793	Glass and glazing work .....	81	653	16 786	61 785	60 190	29 554	31 128	1 595	421	9	6
1794	Excavation work .....	178	1 189	27 102	101 577	87 119	60 120	29 012	14 457	4 741	10	10
1795	Wrecking and demolition work .....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	64	1 776	41 740	132 244	125 960	84 824	44 006	6 284	934	3	1
1799	Special trade contractors, n.e.c. ....	397	3 396	76 829	219 382	200 298	139 823	65 629	19 084	6 386	6	5

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## Maryland

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Maryland. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 36,296 establishments in this State operating in the construction industries. These establishments accounted for \$15.8 billion in total dollar value of business done.

Most of the 36,296 construction establishments were small. Of the total, 22,514 were nonemployers, and over half of the employer establishments had less than 5 employees. The 5,819 construction establishments with 5 employees or more, while representing only 16 percent of all establishments, accounted for more than 86 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$15.1 billion in total dollar value of business done. Of this amount, \$14.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$4.1 billion, leaving net value of construction work of \$10.5 billion. In addition, these establishments paid out \$4.9 billion for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$6.5 billion. (See Introduction and appendixes for explanation of terms.)

There were 13,782 establishments with total employment averaging 134,167 during the year. Total payroll for 1992 was \$3.4 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 22,514 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$738 million. Most of these establishments, about 81 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

1992   
1987 

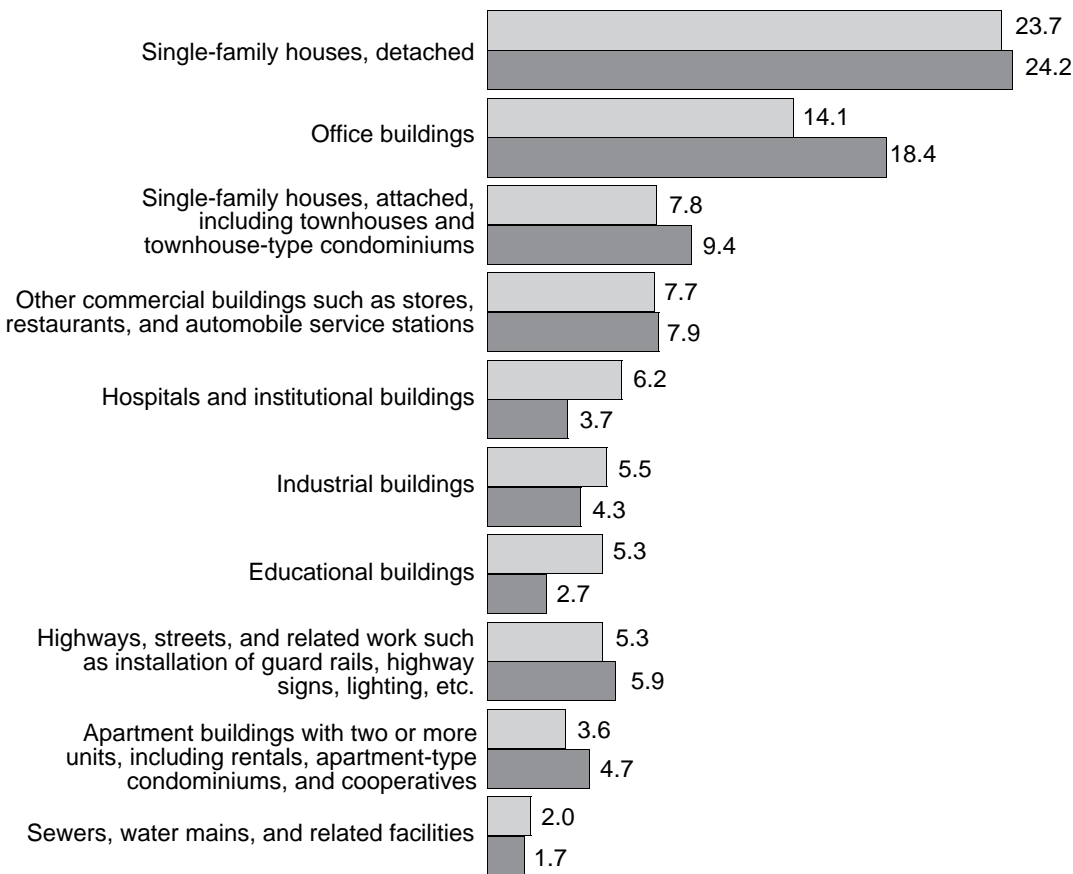


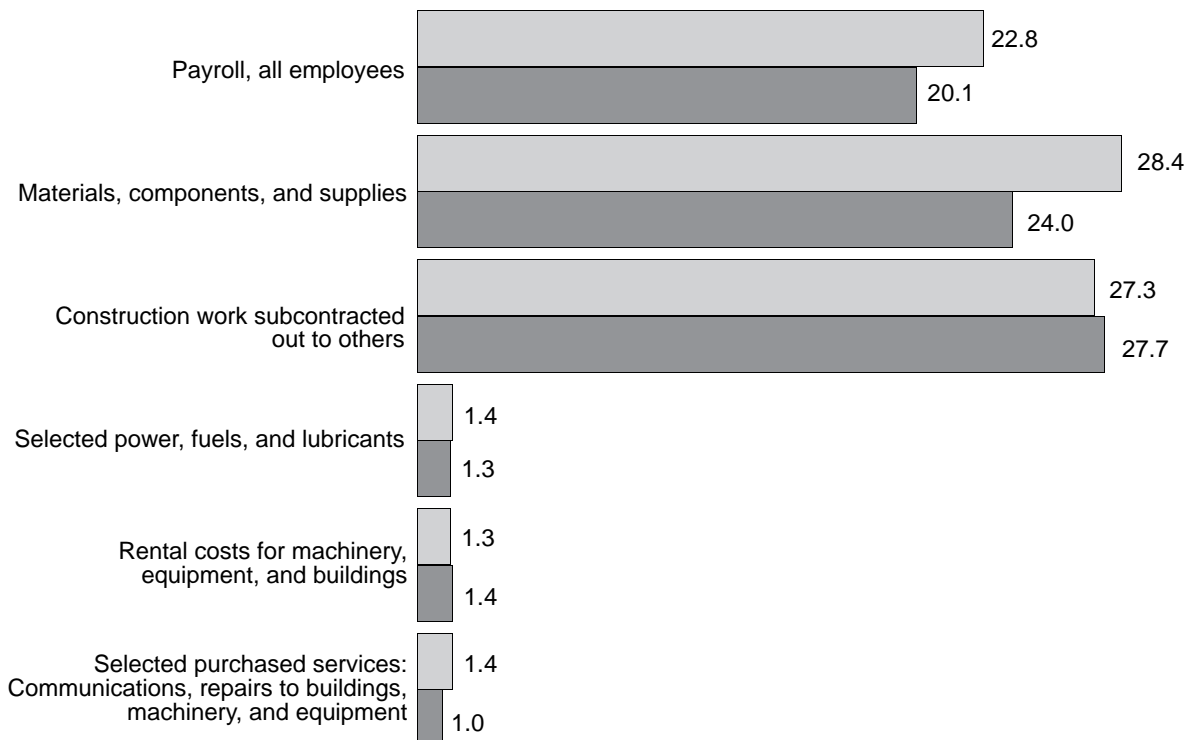


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)

1992   
1987 



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column— J K		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			
<b>1992</b>															
15, 16, 17	Construction industries -----	36 296	25 149	134 167	15 842 182	22 514	21 208	738 058	13 782	3 941	134 167	15 104 124	1	1	
15	Building construction—General contractors and operative builders ----	8 425	4 606	32 651	7 204 374	4 002	3 293	287 819	4 423	1 313	32 651	6 916 555	2	1	
16	Heavy construction other than building construction—contractors -----	826	268	19 289	2 084 678	248	213	8 606	578	(S)	19 289	2 076 072	1	1	
17	Special trade contractors -----	27 045	20 275	82 227	6 553 130	18 264	17 702	441 633	8 781	2 573	82 227	6 111 497	1	1	
1711	Plumbing, heating, and air-conditioning --	3 386	1 951	18 398	1 842 795	1 634	1 550	54 052	1 752	401	18 398	1 788 743	2	1	
1731	Electrical work -----	2 817	1 654	13 459	1 084 945	1 536	1 439	29 476	1 281	215	13 459	1 055 469	2	2	
<b>1987</b>															
15, 16, 17	Construction industries <sup>2</sup> -----	34 694	24 028	160 612	19 578 087	22 191	21 561	2 076 023	12 503	2 467	160 612	17 502 064	1	1	
15	Building construction—General contractors and operative builders ----	8 534	4 740	43 853	9 484 794	4 532	3 997	580 291	4 002	743	43 853	8 904 503	1	1	
16	Heavy construction other than building construction—contractors -----	791	233	20 800	2 013 009	198	191	19 879	593	42	20 800	1 993 130	1	1	
17	Special trade contractors -----	24 357	18 115	94 852	7 020 448	16 654	16 459	631 980	7 703	1 656	94 852	6 388 468	1	1	
1711	Plumbing, heating, and air-conditioning --	2 969	1 603	21 202	1 826 060	1 389	1 368	65 586	1 580	235	21 202	1 760 474	1	1	
1731	Electrical work -----	2 207	1 339	14 646	1 003 497	1 244	1 195	46 560	963	144	14 646	956 937	2	2	

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries<sup>1</sup></b> .....	<b>13 782</b>	<b>134 167</b>	<b>102 371</b>	<b>3 436 910</b>	<b>2 318 702</b>	<b>14 650 489</b>	<b>10 522 861</b>	<b>6 472 251</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	2 941	12 882	9 523	243 389	157 564	1 388 660	1 024 808	573 117
1522	Other residential buildings .....	185	1 117	754	27 252	13 594	187 961	81 586	60 852
1531	Operative builders .....	460	4 745	1 993	151 086	45 821	1 788 957	1 031 884	627 356
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	59	1 004	782	24 743	16 602	118 880	65 462	28 665
1542	Nonresidential buildings, n.e.c. ....	778	12 903	8 730	402 879	233 727	3 082 781	1 268 569	832 885
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	180	6 920	5 455	192 089	126 721	789 534	605 359	390 528
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	22	945	807	21 437	16 479	76 689	62 489	38 107
1623	Water, sewer, and utility lines .....	155	4 669	3 904	122 000	90 665	369 847	331 023	213 993
1629	Heavy construction, n.e.c. ....	221	6 755	5 542	274 934	210 011	805 266	586 254	360 471
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	1 752	18 398	13 654	511 809	344 231	1 771 689	1 487 191	866 750
1721	Painting and paper hanging .....	762	4 906	4 244	90 690	68 677	221 997	205 673	148 236
1731	Electrical work .....	1 281	13 459	10 389	361 050	255 213	1 044 831	1 018 324	603 062
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	643	6 009	5 171	108 898	83 662	271 407	261 622	161 492
1742	Plastering, drywall, and insulation work .....	469	6 844	5 771	174 245	131 795	449 112	399 132	263 559
1743	Terrazzo, tile, marble, and mosaic work .....	119	684	535	18 381	13 031	44 952	44 164	26 788
175	Carpentry and floor work:								
1751	Carpentry .....	1 066	5 323	4 332	97 670	76 040	304 201	262 439	165 546
1752	Floor laying and other floor work .....	265	1 482	1 039	33 564	22 267	142 947	130 338	60 533
1761	Roofing, siding, and sheet metal work .....	617	5 465	4 265	125 523	84 450	354 421	334 671	202 591
1771	Concrete work .....	610	6 944	5 695	132 581	97 551	484 056	438 921	239 836
1781	Water well drilling .....	51	469	375	12 902	10 149	38 547	37 902	25 513
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	59	1 091	909	33 722	25 992	96 505	91 273	57 376
1793	Glass and glazing work .....	106	877	547	23 080	13 380	72 213	69 873	35 398
1794	Excavation work .....	358	2 600	2 108	62 682	45 833	197 545	176 421	137 127
1795	Wrecking and demolition work .....	31	615	493	13 231	9 770	44 273	40 139	32 615
1796	Installing building equipment, n.e.c. ....	93	2 123	1 684	70 626	55 278	213 214	203 465	146 385
1799	Special trade contractors, n.e.c. ....	502	4 940	3 671	106 447	70 199	290 001	263 879	173 471

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
4 504 245	4 127 628	4 271 256	199 418	152 894	1 946 712	160 612	16 523 797	7 694 849	1	1	4	15, 16, 17
468 067	363 853	45 921	7 822	19 697	107 832	12 947	1 249 590	481 626	5	5	20	152
23 169	106 374	3 683	1 279	1 058	10 251	2 373	380 352	118 978	11	6	22	1522
616 433	757 073	6 288	10 816	4 915	98 255	9 480	2 927 423	1 193 160	3	4	15	1531
37 613	53 418	*1 750	1 503	*1 228	11 203	2 327	246 329	110 129	12	9	48	154
553 469	1 814 212	72 125	19 542	12 411	169 692	16 726	3 345 732	906 432	2	2	9	1542
												16
237 599	184 175	173 233	31 783	22 657	375 810	7 755	914 366	471 093	2	2	2	1611
24 803	14 200	2 323	1 806	1 635	30 542	850	98 568	45 631	2	3	1	162
120 499	38 824	117 889	10 165	8 632	153 771	4 568	320 870	187 042	3	2	12	1622
233 861	219 012	91 878	10 306	9 871	86 294	7 627	616 650	424 115	2	2	21	1623
												17
637 495	284 498	1 012 463	24 858	18 729	181 442	21 202	1 746 564	882 217	2	1	6	1711
59 361	16 325	111 191	3 035	2 282	21 471	4 983	249 416	165 316	6	4	31	1721
425 900	26 507	665 866	13 531	12 878	107 632	14 646	942 257	577 073	2	2	15	1731
(D)	9 784	224 851	3 997	5 112	53 155	8 825	409 134	269 277	4	3	19	174
137 750	49 981	409 776	4 796	4 320	40 736	8 135	534 534	319 049	4	2	16	1741
17 674	788	32 644	1 052	175	2 270	768	56 068	34 026	11	8	30	1742
												175
100 650	41 762	143 019	3 206	3 169	28 283	6 050	303 481	173 118	5	5	19	1751
70 348	12 609	103 995	2 818	802	14 572	1 893	169 199	85 219	7	9	27	1752
135 645	19 750	185 366	5 184	3 457	54 715	6 473	381 629	230 766	3	3	15	1761
199 415	45 135	382 232	15 723	7 939	129 379	8 417	533 499	293 854	3	3	12	1771
12 418	645	11 098	950	1 101	19 742	469	36 406	23 545	4	6	11	1781
34 836	5 231	76 945	1 763	(S)	27 768	1 788	112 878	85 322	7	6	(S)	179
35 105	2 340	47 154	1 854	234	7 852	944	77 111	38 035	6	5	29	1791
51 730	21 124	129 804	10 809	3 627	165 480	3 097	264 825	199 868	7	7	21	1793
(D)	4 135	21 425	2 360	802	12 031	766	37 403	33 514	4	4	(Z)	1794
60 458	9 750	89 586	2 236	865	9 282	1 675	140 957	97 035	3	4	35	1795
98 652	26 122	108 750	6 225	3 369	27 249	4 721	297 390	187 842	5	5	22	1796

CONSTRUCTION—GEOGRAPHIC AREA SERIES

MARYLAND MD-7



**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	13 782	12 503	9 158	9 693	(Z)	1	2	2
Proprietors and working partners.....	3 941	2 467	2 645	4 658	3	5	4	5
All employees** .....	134 167	160 612	103 805	105 018	1	1	1	1
Construction workers:								
March.....	95 903	115 455	74 980	76 700	1	1	1	1
May.....	103 688	126 889	82 050	88 887	1	1	1	1
August.....	108 680	133 154	84 662	94 911	1	1	1	1
November.....	101 216	127 278	83 994	87 028	1	1	1	1
Average.....	102 371	125 694	82 261	86 973	1	1	1	1
Other employees:								
March.....	31 825	34 733	21 503	17 529	1	1	1	1
May.....	31 770	34 848	(NA)	(NA)	1	1	(NA)	(NA)
August.....	31 770	35 131	(NA)	(NA)	1	1	(NA)	(NA)
November.....	31 818	34 960	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	31 796	34 918	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	3 436 910	3 513 804	1 870 863	1 310 695	(Z)	(Z)	1	1
Payroll, construction workers .....	2 318 702	2 389 182	1 355 029	977 827	(Z)	(Z)	1	1
Payroll, other employees .....	1 118 209	1 124 621	515 833	332 868	1	1	1	1
First-quarter payroll, all employees .....	784 902	782 110	427 542	274 576	1	1	1	1
Fringe benefits, all employees .....	710 900	718 717	339 992	217 364	1	1	1	1
Legally required expenditures.....	464 829	488 297	241 834	137 179	1	1	1	1
Voluntary expenditures.....	246 071	230 419	98 157	80 186	1	1	1	1
Dollar value of business done .....	15 104 124	17 502 064	7 982 720	5 548 818	1	1	1	1
Value of construction work .....	14 650 489	16 523 797	7 536 040	5 268 141	1	1	1	1
Value of construction work subcontracted in from others .....	4 271 256	4 179 728	1 902 335	1 237 468	1	2	2	(Z)
Other business receipts .....	453 635	445 246	325 102	280 677	1	1	1	2
Net value of construction† .....	10 522 861	11 679 832	5 436 573	3 851 968	1	1	1	1
Value added†† .....	6 472 251	7 694 849	3 538 825	2 324 577	1	1	1	1
Selected costs .....	8 631 873	9 274 193	4 322 317	3 111 485	1	1	1	1
Materials, components, and supplies .....	4 293 829	4 201 258	2 087 368	1 608 163	1	1	1	1
Construction work subcontracted out to others .....	4 127 628	4 843 964	2 099 467	1 416 173	1	1	1	1
Selected power, fuels, and lubricants .....	210 415	228 970	135 481	87 150	1	1	1	1
Electricity.....	35 201	35 709	18 215	10 932	3	1	2	1
Natural gas.....	9 840	7 063	4 122	3 606	3	1	2	4
Gasoline and diesel fuel .....	153 110	171 362	103 857	61 257	1	1	1	1
On highway use.....	119 392	130 224	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use.....	33 718	41 137	(NA)	(NA)	3	1	(NA)	(NA)
Other, including lubricating oils and greases.....	12 264	14 835	9 286	11 357	3	2	2	3
Rental cost for machinery, equipment, and buildings .....	199 418	239 862	119 066	77 287	2	1	1	1
For machinery and equipment .....	114 220	162 471	88 835	63 453	3	2	1	1
For buildings.....	85 198	77 391	30 231	13 833	2	1	1	1
Selected purchased services .....	209 934	181 874	105 647	179 370	2	1	1	3
Communication services .....	68 203	53 964	28 669	28 226	2	1	2	18
Repairs to buildings and other structures .....	13 028	11 571	5 788	4 078	7	4	3	3
Repairs to machinery and equipment .....	128 704	116 338	71 189	147 066	2	1	1	(Z)
Ownership of construction projects:								
Value of construction work .....	14 650 489	16 523 797	7 536 040	5 268 141	1	1	1	1
Government owned .....	3 779 266	2 794 512	1 950 121	1 458 584	2	2	1	(Z)
Federal .....	1 494 630	961 471	(NA)	(NA)	3	4	(NA)	(NA)
State and local .....	2 284 636	1 833 040	(NA)	(NA)	3	2	(NA)	(NA)
Privately owned .....	10 871 223	13 729 284	5 585 918	3 809 557	1	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	1 889 109	1 675 951	2	1
Capital expenditures, other than land .....	152 894	282 045	4	2
New .....	118 494	239 167	4	2
Used .....	34 400	42 877	9	6
Retirements and disposition of depreciable assets .....	95 291	73 083	4	5
End-of-year gross book value of depreciable assets .....	1 946 712	1 884 913	2	1
Depreciation charges during year .....	215 049	246 678	2	1
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	232 302	262 486	11	4
Capital expenditures, other than land .....	16 433	28 700	16	8
New buildings and other structures .....	12 759	18 985	18	8
Used buildings and other structures .....	(S)	9 714	(S)	15
Retirements and disposition of depreciable assets .....	9 342	10 308	23	29
End-of-year gross book value of depreciable assets .....	239 393	280 877	11	4
Depreciation charges during year .....	21 268	21 856	7	5
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	1 656 807	1 413 465	2	1
Capital expenditures, other than land .....	136 461	253 345	3	2
New machinery and equipment, including automobiles and trucks .....	105 735	220 181	3	2
New automobiles and trucks, intended primarily for highway use .....	48 990	105 785	5	3
Used machinery and equipment, including automobiles and trucks .....	30 726	33 163	8	6
Retirements and disposition of depreciable assets .....	85 949	62 775	4	3
End-of-year gross book value of depreciable assets .....	1 707 319	1 604 035	2	1
Depreciation charges during year .....	193 781	224 821	2	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	13 782	(Z)
Value of construction work .....	14 650 489	1
Establishments with inventories:		
Number .....	3 020	2
Value of construction work .....	5 126 017	1
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	131 919	9
End of 1991, materials and supplies .....	121 763	9
Establishments with no inventories:		
Number .....	6 258	2
Value of construction work .....	6 903 928	1
Establishments not reporting:		
Number .....	4 504	2
Value of construction work .....	2 620 544	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	13 782	7 962	2 916	1 527	957	266	131	14	6	2
All employees** .....	134 167	15 775	18 488	20 430	28 970	18 136	19 127	4 375	8 865	(D)
Payroll, all employees .....	3 436 910	276 118	388 487	489 629	763 997	517 578	539 398	126 959	334 745	(D)
Dollar value of business done .....	15 104 124	1 500 520	1 714 339	1 955 279	3 155 765	2 246 474	2 387 352	551 569	1 592 826	(D)
Value of construction work .....	14 650 489	1 484 949	1 696 622	1 931 447	3 072 883	2 121 512	2 311 290	520 091	1 511 695	(D)
Net value of construction work† .....	10 522 861	1 190 419	1 305 680	1 511 203	2 315 413	1 511 527	1 558 983	311 263	818 373	(D)
Value added†† .....	6 472 251	699 050	792 709	902 137	1 438 366	998 140	994 692	142 977	504 181	(D)
Cost of materials, components, supplies, and fuels .....	4 504 245	506 941	530 688	632 898	959 929	638 349	640 353	199 764	395 323	(D)
Cost of construction work subcontracted out to others .....	4 127 628	294 529	390 942	420 244	757 470	609 985	752 307	208 828	693 322	(D)
Rental cost for machinery, equipment, and buildings .....	199 418	17 781	25 184	23 868	40 520	29 626	35 890	9 442	17 106	(D)
Capital expenditures, other than land .....	152 894	17 710	25 275	23 294	32 315	16 183	25 248	8 806	4 063	(D)
End-of-year gross book value of depreciable assets .....	1 946 712	184 760	234 564	314 568	381 826	265 715	391 618	107 209	66 450	(D)
<b>1987</b>										
All employees** .....	160 612	(S)	18 421	22 185	34 425	24 480	22 830	10 228	5 829	9 379
Value of construction work .....	16 523 797	(S)	1 471 859	1 911 656	3 119 271	2 259 936	2 828 074	1 292 465	2 361 351	(D)
Value added†† .....	7 694 849	(S)	688 782	949 376	1 474 359	1 034 875	1 361 395	498 344	359 360	781 783
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	3	4	4	2	1	1	(Z)	(Z)	(D)
Net value of construction work† .....	1	5	5	3	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land .....	4	11	17	11	3	1	(Z)	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	13 782	(S)	(S)	1 993	3 538	2 590	1 588	1 347	525	269	229
All employees** .....	134 167	(S)	(S)	3 852	10 781	15 324	15 343	22 669	18 281	14 764	31 403
Payroll, all employees .....	3 436 910	(S)	(S)	44 715	170 252	285 412	331 858	569 088	480 101	440 277	1 099 873
Dollar value of business done .....	15 104 124	(S)	(S)	148 790	578 667	913 514	1 113 609	2 067 941	1 809 041	1 847 449	6 580 140
Value of construction work .....	14 650 489	(S)	(S)	147 677	574 649	907 337	1 104 362	2 039 361	1 770 888	1 807 188	6 254 373
Net value of construction work† .....	10 522 861	(S)	(S)	137 343	525 225	815 109	940 715	1 661 479	1 425 371	1 348 061	3 628 319
Value added†† .....	6 472 251	(S)	(S)	90 009	321 566	489 727	574 906	976 998	916 739	830 663	2 245 964
Cost of materials, components, supplies, and fuels .....	4 504 245	(S)	(S)	48 448	207 677	331 559	375 056	713 061	546 785	557 659	1 708 122
Cost of construction work subcontracted out to others .....	4 127 628	(S)	(S)	10 334	49 424	92 228	163 647	377 881	345 517	459 127	2 626 054
Rental cost for machinery, equipment, and buildings .....	199 418	(S)	(S)	(S)	8 513	17 228	14 836	29 779	24 338	30 017	72 271
Capital expenditures, other than land .....	152 894	(S)	(S)	(S)	8 830	18 573	15 614	23 891	23 455	16 519	43 066
End-of-year gross book value of depreciable assets .....	1 946 712	(S)	(S)	(S)	80 814	154 536	184 967	357 557	243 074	274 914	609 312
<b>1987</b>											
All employees** .....	160 612	(S)	(S)	(S)	(S)	13 153	17 853	27 775	22 789	18 848	44 057
Value of construction work .....	16 523 797	(S)	(S)	(S)	(S)	682 114	1 188 691	2 252 164	2 047 679	2 075 022	7 654 937
Value added†† .....	7 694 849	(S)	(S)	(S)	(S)	369 532	626 976	1 138 661	1 066 296	937 852	3 193 556
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	7	5	5	4	3	1	1	(Z)
Net value of construction work† .....	1	(S)	(S)	5	4	5	4	3	4	2	1
Capital expenditures, other than land .....	4	(S)	(S)	15	15	15	15	7	15	2	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>14 650 489</b>	<b>8 898 462</b>	<b>3 438 981</b>	<b>1 970 138</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Building construction .....	11 719 935	7 449 227	2 973 984	1 296 724	1	1	1	2
Single-family houses .....	4 611 437	3 507 194	744 738	359 504	2	3	4	4
Single-family houses, detached .....	3 474 987	2 588 477	618 391	268 120	2	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	1 136 450	918 718	126 347	91 385	4	4	10	9
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	533 318	289 401	132 419	111 498	3	3	6	7
Other residential buildings, including hotels, motels, and tourist cabins .....	132 219	52 487	49 030	30 702	5	3	9	13
Office buildings .....	2 069 648	1 058 342	780 319	230 987	1	1	2	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 134 807	621 696	332 222	180 889	2	2	4	3
Industrial buildings and warehouses .....	1 036 984	582 986	270 511	183 487	2	2	3	5
Industrial buildings .....	810 612	439 660	220 999	149 954	2	2	3	5
Warehouses .....	226 371	143 326	49 512	33 533	3	4	4	9
Religious buildings .....	195 639	95 257	77 087	23 296	4	7	5	10
Educational buildings .....	773 168	452 729	251 819	68 619	5	9	3	10
Hospitals and institutional buildings .....	909 815	558 331	268 597	82 887	1	1	3	3
Amusement, social, and recreational buildings, indoors .....	131 540	102 915	20 092	8 534	3	2	17	10
Other nonresidential buildings .....	191 360	127 889	47 150	16 321	3	2	9	12
Nonbuilding construction .....	2 587 645	1 449 234	464 997	673 414	1	1	2	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	772 468	463 163	201 314	107 991	2	3	1	3
Private driveways and parking areas .....	88 864	50 325	8 648	29 891	8	11	12	10
Bridges, tunnels, and elevated highways .....	115 072	67 543	28 732	18 796	2	4	(Z)	1
Power and communication transmission lines, towers, and related facilities .....	155 073	96 996	15 135	(S)	6	8	6	(S)
Sewers, water mains, and related facilities .....	295 907	192 103	73 164	30 641	2	3	2	10
Sewers, sewer lines, septic systems, and related facilities .....	170 341	113 304	39 653	17 383	3	3	2	15
Water mains and related facilities .....	125 567	78 798	33 511	13 258	3	4	4	8
Sewage treatment and water treatment plants .....	157 834	126 948	22 516	8 371	2	1	3	28
Other nonbuilding construction .....	1 002 426	452 156	115 487	434 783	2	2	7	1
Construction work, n.s.k. ....	342 909	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>16 523 797</b>	<b>11 642 176</b>	<b>2 862 082</b>	<b>1 533 697</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Building construction .....	13 516 215	10 202 481	2 275 568	1 038 167	1	1	2	2
Single-family houses .....	5 559 314	4 766 797	506 862	285 654	2	2	4	5
Single-family houses, detached .....	4 002 279	3 342 617	435 338	224 323	2	2	4	5
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	1 557 034	1 424 180	71 523	61 330	4	3	19	10
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	783 517	515 610	167 947	99 959	2	2	6	7
Other residential buildings, including hotels, motels, and tourist cabins .....	445 356	340 546	63 477	41 332	1	1	4	7
Office buildings .....	3 037 950	2 336 059	532 418	169 473	1	1	4	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 302 926	812 294	362 707	127 924	3	4	2	5
Industrial buildings and warehouses .....	1 046 486	634 291	223 215	188 978	1	2	2	3
Industrial buildings .....	705 250	387 903	160 820	156 526	1	2	2	3
Warehouses .....	341 235	246 387	62 395	32 451	3	3	4	10
Religious buildings .....	84 217	40 445	27 853	15 918	4	4	7	7
Educational buildings .....	448 182	254 615	152 336	41 230	1	1	3	7
Hospitals and institutional buildings .....	608 897	405 856	166 518	36 522	3	4	4	3
Other nonresidential buildings .....	199 370	95 968	72 235	31 177	6	6	5	25
Nonbuilding construction .....	2 521 739	1 439 695	586 514	495 530	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	971 260	493 715	355 362	122 182	2	2	2	3
Bridges, tunnels, and elevated highways .....	134 703	69 783	46 389	18 530	1	(Z)	1	5
Power and communication transmission lines, towers, and related facilities .....	83 000	54 151	13 798	15 051	7	7	4	14
Sewers, water mains, and related facilities .....	277 097	222 025	27 156	27 915	3	2	6	7
Sewers, sewer lines, septic systems, and related facilities .....	167 855	131 516	24 301	12 038	3	3	7	13
Water mains and related facilities .....	109 242	90 509	2 855	15 877	3	2	9	5
Sewage treatment and water treatment plants .....	117 932	71 160	43 583	3 188	3	4	2	7
Other nonbuilding construction .....	937 747	528 861	100 226	308 664	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k. ....	485 843	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>13 782</b>	<b>102 371</b>	<b>95 903</b>	<b>103 688</b>	<b>108 680</b>	<b>101 216</b>	<b>(Z)</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	2 941	9 523	8 979	9 628	10 506	8 981	3	6	6	6	7	5	
1522	Other residential buildings -----	185	754	554	702	790	971	15	13	11	11	12	22	
1531	Operative builders -----	460	1 993	1 946	2 087	2 102	1 836	8	5	5	5	5	5	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	59	782	612	1 185	672	659	25	11	10	7	13	16	
1542	Nonresidential buildings, n.e.c. ---	778	8 730	8 541	8 607	9 225	8 546	6	3	2	2	3	3	
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	180	5 455	4 192	5 312	5 758	6 557	9	2	2	2	2	3	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	22	807	711	805	879	832	34	3	2	3	3	2	
1623	Water, sewer, and utility lines ----	155	3 904	3 784	3 822	4 033	3 975	8	3	3	3	3	3	
1629	Heavy construction, n.e.c. -----	221	5 542	6 407	4 916	5 730	5 113	11	2	1	2	2	2	
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	1 752	13 654	13 292	13 681	14 247	13 395	2	2	2	2	2	2	
1721	Painting and paper hanging -----	762	4 244	3 162	4 948	5 060	3 807	4	6	4	10	9	4	
1731	Electrical work -----	1 281	10 389	10 110	10 252	10 800	10 392	2	2	2	2	2	3	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	643	5 171	4 709	5 353	5 320	5 301	3	4	4	3	4	5	
1742	Plastering, drywall, and insulation work -----	469	5 771	5 708	5 893	5 900	5 585	4	4	3	4	5	5	
1743	Terrazzo, tile, marble, and mosaic work -----	119	535	616	574	504	444	12	11	10	11	12	13	
175	Carpentry and floor work:													
1751	Carpentry -----	1 066	4 332	3 836	4 415	4 624	4 452	5	6	5	6	6	6	
1752	Floor laying and other floor work --	265	1 039	1 068	1 063	1 100	926	8	8	7	7	7	9	
1761	Roofing, siding, and sheet metal work -----	617	4 265	3 942	4 401	4 607	4 112	6	3	4	3	3	3	
1771	Concrete work -----	610	5 695	4 706	6 016	6 415	5 645	6	3	3	3	3	4	
1781	Water well drilling -----	51	375	357	391	403	348	7	4	5	4	4	5	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	59	909	888	907	946	895	12	6	6	7	8	6	
1793	Glass and glazing work -----	106	547	530	531	552	574	11	6	8	6	6	5	
1794	Excavation work -----	358	2 108	1 714	2 136	2 298	2 285	9	7	7	6	7	8	
1795	Wrecking and demolition work ----	31	493	456	502	512	503	25	4	4	4	5	4	
1796	Installing building equipment, n.e.c. -----	93	1 684	1 709	1 660	1 689	1 679	13	3	3	3	2	2	
1799	Special trade contractors, n.e.c. ---	502	3 671	3 375	3 900	4 006	3 404	8	6	6	6	5	6	

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>9.7</b>	<b>25.6</b>	<b>143.1</b>	<b>.235</b>	<b>.307</b>	<b>.282</b>	<b>.292</b>	<b>.014</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.4	18.9	145.8	.175	.337	.262	.033	.006
1522	Other residential buildings -----	6.0	24.4	249.3	.145	.123	.566	.020	.007
1531	Operative builders -----	10.3	31.8	897.6	.084	.345	.423	.004	.006
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	17.1	24.6	152.0	.208	.316	.449	.015	.013
1542	Nonresidential buildings, n.e.c. -----	16.6	31.2	353.1	.131	.180	.588	.023	.006
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	38.5	27.8	144.7	.243	.301	.233	.219	.040
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	43.0	22.7	95.0	.280	.323	.185	.030	.024
1623	Water, sewer, and utility lines -----	30.1	26.1	94.7	.330	.326	.105	.319	.027
1629	Heavy construction, n.e.c. -----	30.5	40.7	145.3	.341	.290	.272	.114	.013
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	10.5	27.8	129.8	.289	.360	.161	.571	.014
1721	Painting and paper hanging -----	6.4	18.5	52.3	.409	.267	.074	.501	.014
1731	Electrical work -----	10.5	26.8	100.6	.346	.408	.025	.637	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	9.4	18.1	52.5	.401	(D)	.036	.828	.015
1742	Plastering, drywall, and insulation work -----	14.6	25.5	77.8	.388	.307	.111	.912	.011
1743	Terrazzo, tile, marble, and mosaic work -----	5.8	26.9	84.0	.409	.393	.018	.726	.023
175	Carpentry and floor work:								
1751	Carpentry -----	5.0	18.3	70.2	.321	.331	.137	.470	.011
1752	Floor laying and other floor work -----	5.6	22.6	137.6	.235	.492	.088	.728	.020
1761	Roofing, siding, and sheet metal work -----	8.9	23.0	83.1	.354	.383	.056	.523	.015
1771	Concrete work -----	11.4	19.1	85.0	.274	.412	.093	.790	.032
1781	Water well drilling -----	9.2	27.5	102.8	.335	.322	.017	.288	.025
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	18.6	30.9	106.2	.349	.361	.054	.797	.018
1793	Glass and glazing work -----	8.3	26.3	132.0	.320	.486	.032	.653	.026
1794	Excavation work -----	7.3	24.1	93.7	.317	.262	.107	.657	.055
1795	Wrecking and demolition work -----	19.7	21.5	89.8	.299	(D)	.093	.484	.053
1796	Installing building equipment, n.e.c. -----	22.9	33.3	126.6	.331	.284	.046	.420	.010
1799	Special trade contractors, n.e.c. -----	9.8	21.5	79.0	.367	.340	.090	.375	.021

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>PHILADELPHIA–WILMINGTON–ATLANTIC CITY, PA–NJ–DE–MD CMSA</b>											
15,16,17	Construction industries .....	13 010	105 943	3 072 558	12 663 461	9 443 230	6 052 455	3 736 651	3 220 232	163 018	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	2 309	8 868	182 063	1 032 402	732 371	377 108	369 480	300 031	7 495	3	4
1522	Other residential buildings .....	97	1 003	29 588	139 771	82 251	57 972	27 975	57 520	499	13	10
1531	Operative builders .....	366	2 767	77 295	985 023	632 627	419 108	278 463	352 396	5 653	4	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	165	2 943	100 243	449 964	246 674	194 050	61 968	203 290	3 201	5	7
1542	Nonresidential buildings, n.e.c. ....	589	7 924	272 380	2 114 457	746 560	474 380	373 287	1 367 897	6 458	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	175	4 978	161 333	787 298	643 901	401 973	274 208	143 396	25 540	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	25	437	21 230	99 544	63 031	47 054	17 364	36 513	939	7	4
1623	Water, sewer, and utility lines .....	168	5 868	211 645	587 661	525 255	389 636	138 175	62 406	21 085	2	2
1629	Heavy construction, n.e.c. ....	226	3 526	126 055	527 677	419 197	285 302	150 112	108 480	16 971	5	3
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	1 828	16 046	510 888	1 681 450	1 441 079	849 431	629 554	240 371	17 100	2	2
1721	Painting and paper hanging .....	736	3 720	83 383	215 610	202 389	147 992	54 856	13 221	2 282	5	3
1731	Electrical work .....	1 346	11 310	372 617	1 078 973	1 036 199	670 112	381 387	42 774	12 375	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	639	4 460	110 528	307 555	292 198	194 808	97 827	15 357	3 402	4	4
1742	Plastering, drywall, and insulation work .....	281	2 746	76 553	221 158	199 875	129 583	73 567	21 284	1 451	4	5
1743	Terrazzo, tile, marble, and mosaic work .....	135	689	21 628	66 679	(D)	38 736	23 791	(D)	613	6	(D)
175	Carpentry and floor work:											
1751	Carpentry .....	986	4 346	93 612	361 174	289 994	173 571	118 488	71 180	3 280	5	7
1752	Floor laying and other floor work .....	263	1 166	28 190	114 342	104 567	53 392	56 511	9 775	999	7	5
1761	Roofing, siding, and sheet metal work .....	761	4 776	122 776	422 154	385 206	240 706	147 007	36 948	3 285	4	4
1771	Concrete work .....	672	4 801	112 339	391 724	354 987	211 219	147 824	36 738	7 322	4	4
1781	Water well drilling .....	45	316	8 685	30 873	(D)	17 797	9 789	(D)	432	7	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	89	1 974	51 920	158 925	138 188	93 524	48 807	20 737	2 078	2	2
1793	Glass and glazing work .....	110	866	24 974	91 016	86 079	49 478	41 391	4 937	307	9	8
1794	Excavation work .....	327	1 758	47 872	178 380	152 688	101 472	54 614	25 692	6 055	5	5
1795	Wrecking and demolition work .....	22	509	14 647	48 788	46 464	37 872	11 275	2 323	994	9	6
1796	Installing building equipment, n.e.c. ....	83	2 518	78 817	210 002	199 795	159 027	45 521	10 207	1 938	2	2
1799	Special trade contractors, n.e.c. ....	568	5 628	131 296	360 864	331 742	237 151	103 409	29 121	11 264	4	4
	<b>Atlantic–Cape May, NJ PMSA</b>											
15,16,17	Construction industries .....	1 032	6 001	176 618	722 675	591 515	367 391	239 927	131 160	7 973	2	2
	(See appropriate State for SIC detail.)											
	<b>Philadelphia, PA–NJ PMSA</b>											
15,16,17	Construction industries .....	10 203	84 254	2 477 200	10 256 615	7 564 572	4 872 495	2 991 358	2 692 042	128 446	1	1
	(See appropriate State for SIC detail.)											
	<b>Vineland–Millville–Bridgeton, NJ PMSA</b>											
15,16,17	Construction industries .....	311	1 891	52 851	224 524	178 191	115 784	65 657	46 332	(S)	4	3
	(See appropriate State for SIC detail.)											

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CONSTRUCTION—GEOGRAPHIC AREA SERIES

Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>PHILADELPHIA—WILMINGTON—ATLANTIC CITY, PA—NJ—DE—MD CMSA—Con.</b>											
	<b>Wilmington—Newark, DE—MD PMSA</b>											
15,16,17	Construction industries .....	1 464	13 797	365 890	1 459 648	1 108 951	696 784	439 709	350 697	23 149	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	296	1 214	27 177	121 935	89 414	48 571	41 548	32 521	1 314	11	9
1522	Other residential buildings .....	(S)	202	4 422	(S)	(D)	(D)	(S)	(D)	(D)	(Z)	(D)
1531	Operative builders .....	47	507	11 133	144 770	94 402	59 705	39 234	50 368	(D)	14	11
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c. ....	72	794	23 039	203 477	94 361	54 623	(S)	109 115	548	6	4
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	30	1 303	37 728	179 828	149 559	85 812	64 069	30 270	8 752	3	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	19	1 244	45 234	112 877	99 515	74 796	24 812	13 363	2 099	1	1
1629	Heavy construction, n.e.c. ....	(S)	193	4 742	(D)	(D)	10 047	(D)	(D)	1 011	7	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	147	1 887	50 829	157 469	133 626	86 043	50 682	23 843	1 772	4	3
1721	Painting and paper hanging .....	104	467	8 760	20 765	19 312	15 402	3 964	1 453	(D)	16	12
1731	Electrical work .....	130	1 109	33 385	95 624	92 268	57 801	35 219	3 356	546	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	80	647	14 531	39 281	38 343	25 082	13 260	938	832	11	12
1742	Plastering, drywall, and insulation work .....	(S)	383	8 944	24 035	21 858	13 223	9 380	2 177	(D)	11	8
1743	Terrazzo, tile, marble, and mosaic work .....	13	(D)	1 460	(D)	(D)	2 441	1 656	(S)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry .....	(S)	467	7 415	(S)	(S)	(S)	(S)	3 883	(S)	10	(S)
1752	Floor laying and other floor work .....	(S)	134	3 212	13 869	(D)	5 820	(S)	(D)	(D)	22	(D)
1761	Roofing, siding, and sheet metal work .....	74	589	16 187	44 340	42 507	25 595	17 318	1 833	392	7	7
1771	Concrete work .....	96	680	12 696	38 095	34 086	21 257	12 991	4 009	742	9	7
1781	Water well drilling .....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	15	(D)	(D)	25 166	(D)	(D)	(D)	(D)	333	(D)	(D)
1793	Glass and glazing work .....	*19	(D)	(D)	*5 363	(D)	*2 971	*2 871	(D)	—	(D)	(D)
1794	Excavation work .....	(S)	271	7 236	31 323	26 448	14 299	12 307	4 875	*1 215	8	10
1795	Wrecking and demolition work .....	*3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	6	(D)	1 639	(D)	(D)	(D)	1 448	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. ....	(S)	437	9 951	26 752	25 410	17 751	8 335	1 342	421	12	9
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA</b>											
15,16,17	Construction industries .....	17 387	176 268	4 603 770	20 018 974	14 144 696	8 669 507	6 022 675	5 874 278	192 779	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	3 588	15 929	309 642	1 698 388	1 241 643	695 235	566 367	456 745	20 692	4	4
1522	Other residential buildings .....	226	1 477	36 166	276 579	138 249	97 076	45 215	138 329	847	9	27
1531	Operative builders .....	678	7 392	236 515	2 926 613	1 717 507	1 050 013	922 273	1 209 106	11 497	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	80	1 195	31 408	165 692	90 417	48 216	43 526	75 275	1 460	11	11
1542	Nonresidential buildings, n.e.c. ....	1 059	18 505	585 079	4 356 708	1 674 712	1 048 575	758 462	2 681 996	14 054	2	2

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**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—		
											A	B	C
<b>WASHINGTON-BALTIMORE, DC-MD-VA-WV CMSA—Con.</b>													
<b>15,16,17</b>	<b>Construction industries—Con.</b>												
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>												
1611	Highway and street construction -----	245	8 767	251 414	1 021 315	792 948	491 292	332 230	228 367	25 055	2	1	
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	28	1 230	30 403	128 658	93 101	59 929	33 593	35 557	1 847	3	3	
1622		232	7 525	195 589	624 327	542 529	356 139	190 347	81 798	17 495	2	2	
1623		252	7 451	302 916	914 799	681 091	437 734	252 784	233 708	9 634	2	2	
1629	Heavy construction, n.e.c. -----												
<b>17</b>	<b>Special trade contractors:</b>												
1711	Plumbing, heating, and air-conditioning-----	2 187	24 142	675 399	2 221 471	1 903 537	1 111 170	813 141	317 934	24 730	1	1	
1721	Painting and paper hanging-----	1 034	6 502	127 442	311 669	286 571	209 593	78 866	25 098	3 125	5	4	
1731	Electrical work -----	1 621	18 541	512 527	1 475 819	1 429 858	841 135	606 962	45 961	17 122	2	1	
174	Masonry, stone work, tile setting, and plastering: Masonry, stone setting, and other stone work-----	794	7 256	137 152	351 135	334 418	206 847	129 792	16 717	5 647	3	3	
1741		547	8 514	218 153	556 510	496 262	322 717	175 708	60 248	6 108	3	2	
1742		193	1 107	27 990	77 320	75 029	42 743	32 750	2 291	*623	8	7	
1743	Plastering, drywall, and insulation work -----												
1743	Terrazzo, tile, marble, and mosaic work -----												
175	Carpentry and floor work: Carpentry-----	1 287	7 068	137 931	418 740	356 845	223 581	136 642	61 895	4 777	5	5	
1751		342	1 951	46 253	196 556	178 225	82 497	99 330	18 331	1 344	6	6	
1752	Floor laying and other floor work ---												
1761	Roofing, siding, and sheet metal work -----	790	7 361	172 130	484 263	455 997	272 976	186 542	28 266	4 393	3	3	
1771	Concrete work -----	771	8 849	182 629	650 557	590 618	337 123	256 713	59 939	10 278	3	2	
1781	Water well drilling -----	45	420	11 647	35 350	35 127	23 589	11 566	(S)	1 160	4	6	
179	Miscellaneous special trade contractors:												
1791		Structural steel erection -----	77	1 420	43 891	120 697	112 610	72 141	41 465	8 087	2 505	7	6
1793		Glass and glazing work -----	121	1 090	28 351	86 542	83 848	44 209	41 570	2 693	311	6	5
1794		Excavation work -----	417	2 874	71 092	244 695	211 045	162 126	62 327	33 649	3 288	7	6
1795		Wrecking and demolition work -----	33	631	13 288	44 454	40 376	32 910	9 327	4 078	842	4	3
1796		Installing building equipment, n.e.c. -	105	3 067	89 574	272 269	262 072	187 194	78 227	10 198	1 040	2	3
1799		Special trade contractors, n.e.c. -----	635	6 003	129 189	357 849	320 061	212 747	116 949	37 788	2 904	5	4
<b>Baltimore, MD PMSA</b>													
<b>15,16,17</b>	<b>Construction industries -----</b>	<b>6 647</b>	<b>59 167</b>	<b>1 447 718</b>	<b>6 196 218</b>	<b>4 592 118</b>	<b>2 854 549</b>	<b>1 975 464</b>	<b>1 604 100</b>	<b>74 913</b>	<b>1</b>	<b>1</b>	
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>												
152	General contractors, residential buildings: Single-family houses -----	1 392	6 082	110 751	699 184	517 614	308 961	215 979	181 569	9 907	7	6	
1521		82	(D)	(D)	(D)	(D)	(D)	(D)	(D)	324	(D)	(D)	
1522	Other residential buildings -----												
1531	Operative builders -----	218	1 972	(D)	(D)	(D)	(D)	225 702	(D)	2 839	5	(D)	
154	General contractors, nonresidential buildings: Industrial buildings and warehouses-----	31	437	(D)	(D)	(D)	(D)	20 559	(D)	138	14	(D)	
1541		377	4 388	128 583	1 029 496	381 971	222 460	252 322	647 525	2 554	5	5	
1542	Nonresidential buildings, n.e.c. -----												
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>												
1611	Highway and street construction -----	100	3 794	107 265	437 484	335 677	208 172	143 415	101 807	14 910	2	3	
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1622		68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1623		113	1 878	(D)	244 027	(D)	118 053	88 647	(D)	6 089	4	(D)	
1629	Heavy construction, n.e.c. -----												

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**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA—Con.</b>											
	<b>Baltimore, MD PMSA—Con.</b>											
<b>15,16, 17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	798	8 620	230 323	778 880	679 942	397 709	287 758	98 938	9 295	3	2
1721	Painting and paper hanging-----	376	2 139	44 326	110 405	103 883	73 350	31 210	6 522	1 632	6	6
1731	Electrical work-----	625	6 281	164 487	451 963	440 630	264 296	179 609	11 333	5 996	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	307	2 252	42 159	110 445	(D)	65 578	38 476	(D)	(D)	7	(D)
1742	Plastering, drywall, and insulation work-----	205	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1743	Terrazzo, tile, marble, and mosaic work-----	62	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	538	2 864	49 558	150 026	129 393	86 037	46 123	20 634	1 771	9	7
1752	Floor laying and other floor work---	130	583	(D)	48 716	(D)	20 717	24 137	(D)	483	14	(D)
1761	Roofing, siding, and sheet metal work-----	363	2 833	59 465	173 893	162 988	96 880	68 484	10 905	1 989	5	4
1771	Concrete work-----	267	3 001	66 969	209 222	(D)	114 306	81 519	(D)	3 974	5	(D)
1781	Water well drilling-----	23	(D)	7 052	20 390	20 305	(D)	(D)	85	634	(D)	9
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	32	(D)	(D)	(D)	(D)	(D)	22 790	(D)	907	(D)	(D)
1793	Glass and glazing work-----	38	(D)	(D)	(D)	(D)	(D)	(D)	916	(D)	(D)	(D)
1794	Excavation work-----	161	935	25 731	73 406	66 934	53 857	16 555	6 472	1 291	10	10
1795	Wrecking and demolition work-----	23	464	9 581	(D)	(D)	20 186	(D)	(D)	(D)	5	(D)
1796	Installing building equipment, n.e.c.---	47	617	19 845	56 195	(D)	(D)	14 895	(D)	(D)	4	(D)
1799	Special trade contractors, n.e.c.---	255	2 308	42 830	113 753	104 619	73 408	34 549	9 135	1 470	8	9
	<b>Hagerstown, MD PMSA</b>											
<b>15,16, 17</b>	<b>Construction industries-----</b>	<b>347</b>	<b>3 026</b>	<b>65 872</b>	<b>283 106</b>	<b>206 110</b>	<b>114 847</b>	<b>98 262</b>	<b>76 996</b>	<b>3 806</b>	<b>5</b>	<b>5</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses-----	103	344	6 158	34 165	27 936	12 214	15 752	6 228	(S)	24	23
1522	Other residential buildings-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1531	Operative builders-----	*8	43	(D)	(D)	(D)	(D)	2 701	(D)	8	8	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	287	(D)	(D)	(D)	(D)	(D)	(D)	438	(Z)	(D)
1542	Nonresidential buildings, n.e.c.-----	15	412	11 037	82 757	31 236	20 578	10 686	51 521	1 060	11	9
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction-----	—	—	—	—	—	—	—	—	—	—	—
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c.-----	4	124	(D)	14 526	13 080	6 690	6 976	(S)	(D)	(Z)	(Z)
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	40	265	6 453	20 139	18 813	10 235	8 818	1 326	(S)	18	21
1721	Painting and paper hanging-----	(S)	*84	*1 172	*2 950	*2 887	*2 095	*792	63	—	49	47
1731	Electrical work-----	(S)	341	8 046	23 821	23 586	12 152	12 527	235	676	11	13
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	*15	311	6 092	13 923	(D)	9 377	4 444	(D)	(D)	9	(D)
1742	Plastering, drywall, and insulation work-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1743	Terrazzo, tile, marble, and mosaic work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	100	1 822	4 040	3 596	2 545	1 121	444	249	38	32
1752	Floor laying and other floor work---	*12	*35	*525	*2 694	(D)	*663	*1 820	(D)	—	43	(D)
1761	Roofing, siding, and sheet metal work-----	*19	133	3 189	9 594	9 247	5 309	3 952	347	—	23	29
1771	Concrete work-----	*31	200	4 729	20 030	(D)	10 150	8 196	(D)	466	23	(D)

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA—Con.</b>											
	<b>Hagerstown, MD PMSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
<b>17</b>	<b>Special trade contractors—Con.</b>											
1781	Water well drilling -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1793	Glass and glazing work -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1794	Excavation work -----	*7	*62	*1 119	*4 826	*3 838	*2 519	*1 319	988	—	(S)	61 57
1795	Wrecking and demolition work -----	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c. -	*6	*51	*1 308	*5 992	(D)	(D)	*2 431	(D)	(D)	51	(D)
1799	Special trade contractors, n.e.c. ----	*12	*37	*976	*4 621	*4 001	*1 002	*3 416	*619	(D)	59	71
	<b>Washington, DC—MD—VA—WV PMSA</b>											
<b>15,16,17</b>	<b>Construction industries -----</b>	<b>10 393</b>	<b>114 075</b>	<b>3 090 179</b>	<b>13 539 649</b>	<b>9 346 467</b>	<b>5 700 111</b>	<b>3 948 948</b>	<b>4 193 182</b>	<b>114 060</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	2 093	9 503	192 733	965 039	696 093	374 061	334 635	268 947	10 749	5	6
1522	Other residential buildings -----	142	1 016	25 381	209 532	99 368	67 967	34 552	110 164	523	9	37
1531	Operative builders -----	452	5 377	173 629	2 104 677	1 228 742	702 215	693 870	875 935	8 651	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	45	471	15 366	96 313	47 475	32 419	(D)	48 838	884	24	19
1542	Nonresidential buildings, n.e.c. ----	667	13 705	445 460	3 244 455	1 261 505	805 537	495 454	1 982 950	10 441	2	2
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction ----	145	4 973	144 149	583 830	457 271	283 120	188 816	126 559	10 146	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	*10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	162	5 245	129 511	424 257	369 281	249 331	122 119	54 976	12 942	3	2
1629	Heavy construction, n.e.c. -----	(S)	5 450	243 005	656 246	(D)	312 991	157 161	(D)	(D)	2	(D)
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning -----	1 350	15 257	438 623	1 422 452	1 204 782	703 226	516 565	217 671	15 393	2	1
1721	Painting and paper hanging -----	637	4 279	81 944	198 314	179 801	134 149	46 864	18 513	1 493	6	4
1731	Electrical work -----	975	11 920	339 994	1 000 035	965 642	564 687	414 826	34 393	10 450	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	471	4 693	88 901	226 767	217 210	131 892	86 872	9 557	4 500	4	4
1742	Plastering, drywall, and insulation work -----	338	5 597	147 063	373 788	332 416	215 892	118 267	41 372	4 752	4	2
1743	Terrazzo, tile, marble, and mosaic work -----	131	846	21 602	62 044	59 951	33 638	26 768	2 093	(D)	9	7
175	Carpentry and floor work:											
1751	Carpentry -----	731	4 103	86 552	264 674	223 856	134 998	89 399	40 817	2 756	5	6
1752	Floor laying and other floor work ---	201	1 334	(D)	145 145	130 936	61 117	73 373	14 210	860	6	7
1761	Roofing, siding, and sheet metal work -----	409	4 396	109 476	300 776	283 762	170 788	114 107	17 014	2 404	3	3
1771	Concrete work -----	473	5 648	110 931	421 305	376 635	212 667	166 998	44 670	5 838	3	3
1781	Water well drilling -----	21	(D)	(D)	(D)	(D)	(D)	5 588	(D)	526	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	43	786	22 353	60 827	55 808	37 994	(D)	5 019	(S)	10	10
1793	Glass and glazing work -----	82	750	21 023	63 211	61 434	33 976	29 388	1 777	(D)	8	7
1794	Excavation work -----	250	1 877	44 243	166 462	140 273	105 750	44 452	26 190	1 910	9	8
1795	Wrecking and demolition work -----	10	167	3 707	(D)	(D)	12 724	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. -	52	2 399	68 420	210 083	204 030	143 129	60 901	6 053	870	3	4
1799	Special trade contractors, n.e.c. ----	369	3 659	85 383	239 475	211 441	138 336	78 984	28 035	(D)	6	5

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**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

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## North Carolina

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for North Carolina. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 64,482 establishments in this State operating in the construction industries. These establishments accounted for \$15.4 billion in total dollar value of business done.

Most of the 64,482 construction establishments were small. Of the total, 46,054 were nonemployers, and over half of the employer establishments had less than 5 employees. The 6,825 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 77 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$14.1 billion in total dollar value of business done. Of this amount, \$13.9 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$3.4 billion, leaving net value of construction work of \$10.5 billion. In addition, these establishments paid out \$5.4 billion for the cost of

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

materials, fuels, power, rental of equipment and buildings, and the cost of selected purchased services. Value added for 1992 was \$5.8 billion. (See Introduction and appendixes for explanation of terms.)

There were 18,428 establishments with total employment averaging 145,527 during the year. Total payroll for 1992 was \$3.0 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 46,054 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.3 billion. Most of these establishments, about 84 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

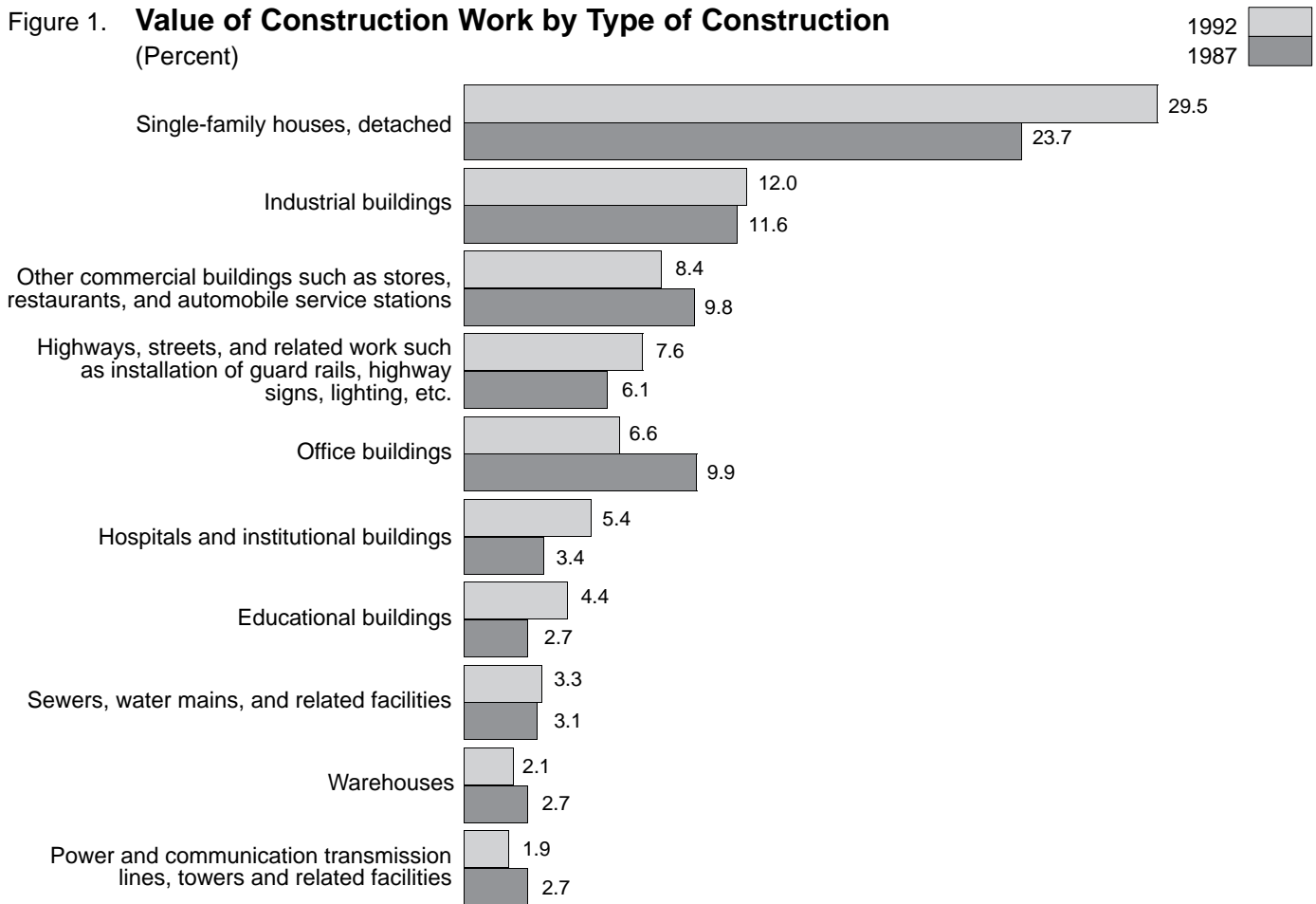
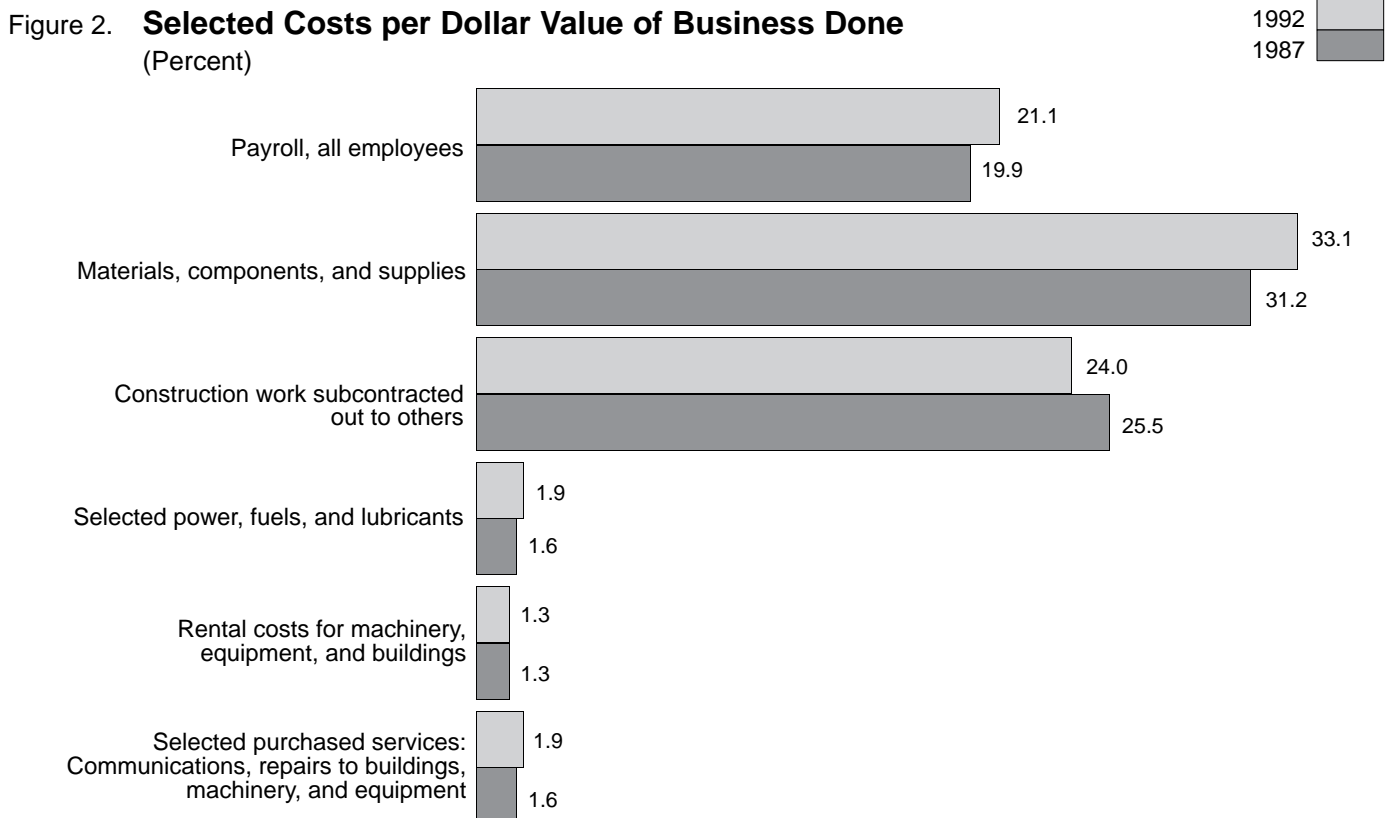


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	64 482	54 831	145 527	15 374 456	46 054	45 654	1 252 293	18 428	9 177	145 527	14 122 163	1	1
15	Building construction—General contractors and operative builders ----	11 703	8 065	35 823	6 543 702	6 540	6 090	493 377	5 163	1 975	35 823	6 050 325	1	2
16	Heavy construction other than building construction—contractors -----	2 044	1 170	22 649	2 482 640	768	752	23 934	1 276	418	22 649	2 458 706	2	1
17	Special trade contractors -----	50 735	45 596	87 056	6 348 114	38 746	38 812	734 982	11 989	6 784	87 056	5 613 132	1	1
1711	Plumbing, heating, and air-conditioning --	5 693	4 244	25 463	2 097 024	3 152	3 153	88 437	2 541	1 091	25 463	2 008 587	1	2
1731	Electrical work -----	5 039	3 971	15 227	1 013 810	3 179	3 137	52 426	1 860	834	15 227	961 384	2	2
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	63 708	51 351	154 844	16 645 666	46 323	46 041	2 160 706	17 385	5 310	154 844	13 484 960	1	1
15	Building construction—General contractors and operative builders ----	13 612	9 192	44 372	7 293 011	8 561	8 087	704 107	5 051	1 105	44 372	6 588 904	1	2
16	Heavy construction other than building construction—contractors -----	1 862	983	24 749	2 068 684	649	649	44 316	1 213	334	24 749	2 024 368	1	1
17	Special trade contractors -----	46 287	39 568	84 629	5 612 119	35 448	35 714	953 925	10 839	3 854	84 629	4 658 194	1	1
1711	Plumbing, heating, and air-conditioning --	5 293	3 690	21 528	1 521 359	2 961	2 994	118 163	2 332	696	21 528	1 403 196	2	1
1731	Electrical work -----	4 300	3 167	16 338	964 586	2 681	2 681	72 593	1 619	486	16 338	891 993	2	2

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries¹</b> .....	<b>18 428</b>	<b>145 527</b>	<b>113 374</b>	<b>2 975 840</b>	<b>2 071 720</b>	<b>13 851 639</b>	<b>10 456 584</b>	<b>5 786 198</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses.....	3 365	12 408	9 170	201 146	137 521	1 462 602	1 049 820	470 356
1522	Other residential buildings.....	69	587	432	10 654	6 502	62 890	38 510	19 877
1531	Operative builders.....	793	4 330	1 853	116 160	36 645	1 483 880	1 020 346	471 349
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses.....	190	5 480	3 936	122 837	84 329	632 104	392 110	217 183
1542	Nonresidential buildings, n.e.c.....	745	13 017	9 678	310 356	190 969	2 303 139	1 011 855	486 397
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction.....	324	9 090	7 553	202 792	146 754	1 013 997	788 777	417 695
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction.....	14	599	511	14 097	9 610	71 756	53 013	26 140
1623	Water, sewer, and utility lines.....	423	7 707	6 402	183 928	138 133	643 172	551 599	361 668
1629	Heavy construction, n.e.c.....	516	5 252	3 954	126 795	79 502	661 190	458 575	322 155
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning.....	2 541	25 463	19 708	579 449	413 223	1 983 422	1 822 909	987 613
1721	Painting and paper hanging.....	1 132	4 961	4 084	79 570	61 324	217 098	199 202	144 822
1731	Electrical work.....	1 860	15 227	12 197	313 705	227 072	948 060	905 650	518 022
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework.....	1 130	6 575	5 893	90 595	77 610	232 548	218 170	148 398
1742	Plastering, drywall, and insulation work.....	515	5 827	4 763	108 527	81 670	357 618	314 441	187 097
1743	Terrazzo, tile, marble, and mosaic work.....	184	835	647	17 521	12 171	59 749	53 586	29 533
175	Carpentry and floor work:								
1751	Carpentry.....	1 186	4 449	3 702	71 698	56 491	264 400	230 758	145 294
1752	Floor laying and other floor work.....	420	1 422	1 140	22 853	17 794	94 948	88 285	47 389
1761	Roofing, siding, and sheet metal work.....	878	5 794	4 642	96 627	67 931	354 002	330 322	189 863
1771	Concrete work.....	680	4 625	3 824	73 077	57 117	269 990	251 611	131 924
1781	Water well drilling.....	127	569	430	10 394	6 960	40 196	39 072	20 944
179	Miscellaneous special trade contractors:								
1791	Structural steel erection.....	99	1 191	996	22 886	17 355	63 665	58 811	45 505
1793	Glass and glazing work.....	101	887	593	20 241	12 196	63 198	59 655	32 097
1794	Excavation work.....	379	2 225	1 839	41 098	31 868	150 750	132 608	99 472
1795	Wrecking and demolition work.....	*23	321	186	5 553	4 009	16 188	10 957	16 730
1796	Installing building equipment, n.e.c.....	114	2 232	1 734	51 275	38 602	157 983	149 660	103 113
1799	Special trade contractors, n.e.c.....	618	4 452	3 508	82 005	58 362	243 096	226 283	145 561

¹For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.



1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
4 940 910	3 395 055	3 515 529	185 467	253 014	2 544 345	154 844	12 928 252	5 364 564	1	1	3	15, 16, 17 15
600 047 19 119	412 782 24 380	49 580 2 236	12 122 467	12 013 (S)	88 639 3 701	14 315 2 492	1 348 543 327 687	452 570 86 421	3 14	4 15	13 (S)	152 1522
598 653	463 534	*12 053	4 456	9 632	141 538	5 786	1 342 046	(D)	5	6	16	1531
186 788 548 583	239 994 1 291 283	41 001 35 569	7 390 19 641	5 245 11 854	43 738 226 234	8 606 13 173	1 248 633 2 026 515	257 847 597 499	4 2	3 2	20 8	154 1542
424 630	225 220	269 091	26 336	42 067	528 383	8 567	837 893	375 077	2	3	8	1611
26 979 194 646 146 641	18 743 91 573 202 615	22 375 151 608 162 571	3 647 14 037 18 827	2 521 36 469 21 086	18 246 311 887 191 470	1 694 10 347 4 141	144 088 678 904 290 159	44 494 413 071 171 677	(Z) 3 5	(Z) 3 3	(Z) 9 9	162 1622 1623 1629
860 462	160 512	853 326	25 578	47 305	383 810	21 528	1 380 772	705 150	1	2	4	1711
57 273	17 896	100 978	(D)	4 652	27 358	5 049	168 080	116 462	5	4	21	1721
400 952	42 410	451 668	10 711	12 756	123 976	16 338	880 489	469 475	2	2	12	1731
(D) 138 234 24 188	14 378 43 177 6 163	207 627 292 234 53 060	2 510 3 962 799	(D) 3 903 559	30 327 35 895 6 341	7 242 6 092 1 086	229 150 339 271 65 373	154 956 177 962 33 913	5 4 4	5 4 4	(D) 4 23	174 1741 1742 1743
90 166 42 198	33 642 6 663	134 091 45 569	(S) 716	3 941 654	25 125 8 019	4 442 774	203 491 46 571	114 013 22 317	6 9	6 8	24 12	175 1751 1752
144 893	23 680	134 440	5 331	6 859	55 414	6 266	310 919	169 277	3	4	38	1761
124 048	18 380	173 247	4 634	8 413	91 107	4 631	247 456	137 446	6	5	20	1771
18 639	*1 124	4 074	454	793	24 543	803	47 870	29 666	11	11	14	1781
15 554 32 743 39 265 (D) 48 437 (D)	4 854 3 543 18 142 5 231 8 323 16 813	38 907 43 522 95 419 2 448 47 297 91 540	2 931 1 147 4 476 (D) 2 170 5 027	1 847 445 6 689 (D) 1 078 5 703	16 137 8 555 88 986 (D) 18 733 (D)	1 385 1 116 2 176 357 1 319 4 025	59 395 72 739 153 057 17 729 113 296 220 988	37 878 39 623 94 919 (D) 81 046 128 173	11 6 7 24 4 5	11 7 7 25 2 5	29 30 20 (D) (Z) 16	1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

NORTH CAROLINA NC-7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	18 428	17 385	12 700	14 363	(Z)	1	2	2
Proprietors and working partners .....	9 177	5 310	5 159	9 260	2	3	3	3
All employees** .....	145 527	154 844	111 741	116 261	1	1	1	1
Construction workers:								
March .....	110 260	118 337	89 895	93 192	1	1	1	1
May .....	114 146	124 223	93 604	103 548	1	1	1	1
August .....	117 451	130 484	93 974	106 968	1	1	1	1
November .....	111 640	123 576	89 123	99 507	1	1	1	1
Average .....	113 374	124 155	92 814	100 865	1	1	1	1
Other employees:								
March .....	33 289	30 280	18 638	14 902	1	1	1	2
May .....	31 667	30 405	(NA)	(NA)	1	1	(NA)	(NA)
August .....	31 751	30 874	(NA)	(NA)	1	1	(NA)	(NA)
November .....	31 905	31 202	(NA)	(NA)	1	2	(NA)	(NA)
Average .....	32 153	30 690	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	2 975 840	2 680 093	1 496 029	1 031 016	(Z)	1	1	1
Payroll, construction workers .....	2 071 720	1 914 821	1 121 045	817 350	1	1	1	1
Payroll, other employees .....	904 120	765 272	374 983	213 667	1	1	1	1
First-quarter payroll, all employees .....	682 507	598 146	352 983	219 262	1	1	1	1
Fringe benefits, all employees .....	555 937	455 536	271 326	140 790	1	1	1	1
Legally required expenditures .....	398 973	342 429	204 666	102 776	1	1	1	1
Voluntary expenditures .....	156 964	113 107	66 660	38 014	1	1	1	1
Dollar value of business done .....	14 122 163	13 484 960	6 614 292	4 489 268	1	1	1	1
Value of construction work .....	13 851 639	12 928 252	6 430 837	4 329 842	1	1	1	1
Value of construction work subcontracted in from others .....	3 515 529	2 714 452	1 147 018	910 629	2	2	2	1
Other business receipts .....	270 524	304 597	123 815	159 427	4	3	3	3
Net value of construction† .....	10 456 584	9 487 132	4 866 088	3 414 120	1	1	1	1
Value added†† .....	5 786 198	5 364 564	2 659 520	1 833 095	1	1	1	1
Selected costs .....	8 335 965	7 868 285	3 895 132	2 600 238	1	1	1	1
Materials, components, and supplies .....	4 672 091	4 207 024	2 181 097	1 592 509	1	1	1	1
Construction work subcontracted out to others .....	3 395 055	3 441 119	1 564 749	915 722	1	1	1	1
Selected power, fuels, and lubricants .....	268 819	220 141	149 285	92 007	1	1	1	1
Electricity .....	43 779	31 546	18 563	10 025	2	3	2	3
Natural gas .....	11 462	6 223	3 612	3 853	3	5	4	4
Gasoline and diesel fuel .....	194 369	167 624	116 167	68 876	1	1	1	1
On highway use .....	146 121	123 654	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use .....	48 248	43 970	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases .....	19 209	14 747	10 943	9 253	3	2	2	3
Rental cost for machinery, equipment, and buildings .....	185 467	179 901	78 231	54 597	3	2	1	2
For machinery and equipment .....	125 845	133 209	61 583	46 523	4	2	2	2
For buildings .....	59 622	46 692	16 647	8 074	3	3	2	2
Selected purchased services .....	271 862	214 801	111 078	101 657	2	2	1	1
Communication services .....	78 797	53 385	27 720	19 177	4	2	2	2
Repairs to buildings and other structures .....	13 214	11 251	5 672	4 094	5	3	6	10
Repairs to machinery and equipment .....	179 850	150 163	77 686	78 386	2	2	1	1
Ownership of construction projects:								
Value of construction work .....	13 851 639	12 928 252	6 430 837	4 329 842	1	1	1	1
Government owned .....	2 958 636	2 005 317	1 362 700	1 072 155	2	2	2	1
Federal .....	581 434	658 525	(NA)	(NA)	4	3	(NA)	(NA)
State and local .....	2 377 202	1 346 792	(NA)	(NA)	2	3	(NA)	(NA)
Privately owned .....	10 893 004	10 922 934	5 068 137	3 257 687	2	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	2 417 904	1 805 920	2	2
Capital expenditures, other than land .....	253 014	284 885	3	3
New .....	190 878	231 836	3	3
Used .....	62 135	53 048	7	5
Retirements and disposition of depreciable assets .....	126 573	86 568	6	4
End-of-year gross book value of depreciable assets .....	2 544 345	2 004 237	2	2
Depreciation charges during year .....	261 028	253 761	3	2
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	389 768	387 432	11	5
Capital expenditures, other than land .....	20 802	51 714	10	10
New buildings and other structures .....	14 360	41 740	12	12
Used buildings and other structures .....	6 442	9 974	16	13
Retirements and disposition of depreciable assets .....	9 518	19 136	24	8
End-of-year gross book value of depreciable assets .....	401 052	420 011	11	5
Depreciation charges during year .....	38 237	40 510	15	8
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	2 028 136	1 418 487	2	2
Capital expenditures, other than land .....	232 211	233 171	3	3
New machinery and equipment, including automobiles and trucks .....	176 518	190 096	3	3
New automobiles and trucks, intended primarily for highway use .....	77 781	94 037	4	3
Used machinery and equipment, including automobiles and trucks .....	55 694	43 074	8	5
Retirements and disposition of depreciable assets .....	117 054	67 432	6	4
End-of-year gross book value of depreciable assets .....	2 143 293	1 584 226	2	2
Depreciation charges during year .....	222 791	213 251	2	2

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	18 428	(Z)
Value of construction work .....	13 851 639	1
<b>Establishments with inventories:</b>		
Number .....	5 124	2
Value of construction work .....	5 761 061	1
<b>Inventories<sup>1</sup>:</b>		
End of 1992, materials and supplies .....	254 153	7
End of 1991, materials and supplies .....	236 600	9
<b>Establishments with no inventories:</b>		
Number .....	6 748	2
Value of construction work .....	5 376 784	1
<b>Establishments not reporting:</b>		
Number .....	6 556	2
Value of construction work .....	2 713 794	1

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	18 428	11 604	3 628	1 893	937	242	94	20	8	3
All employees** .....	145 527	23 078	23 184	24 823	27 622	16 695	13 862	6 706	9 558	(D)
Payroll, all employees .....	2 975 840	332 130	387 125	460 385	619 182	391 618	356 727	186 406	242 267	(D)
Dollar value of business done .....	14 122 163	2 283 377	1 796 100	2 023 740	2 710 041	1 814 665	1 563 111	843 151	1 087 978	(D)
Value of construction work .....	13 851 639	2 249 401	1 773 430	1 984 386	2 656 608	1 786 734	1 506 091	833 966	1 061 022	(D)
Net value of construction work† .....	10 456 584	1 804 610	1 430 366	1 609 751	2 016 832	1 298 917	1 099 543	1 196 566	(D)	(D)
Value added†† .....	5 786 198	908 126	799 113	870 925	1 104 353	717 500	663 978	300 430	421 774	(D)
Cost of materials, components, supplies, and fuels .....	4 940 910	930 459	653 923	778 180	965 912	609 348	492 585	510 503	(D)	(D)
Cost of construction work subcontracted out to others .....	3 395 055	444 792	343 064	374 635	639 776	487 818	406 548	698 422	(D)	(D)
Rental cost for machinery, equipment, and buildings .....	185 467	18 282	23 347	26 327	39 949	18 403	26 709	11 912	20 539	(D)
Capital expenditures, other than land .....	253 014	30 730	26 995	40 561	43 056	21 161	27 453	16 668	46 389	(D)
End-of-year gross book value of depreciable assets .....	2 544 345	314 662	277 614	353 670	472 618	289 997	290 285	183 786	361 713	(D)
<b>1987</b>										
All employees** .....	154 844	(S)	24 595	25 854	29 571	18 396	16 997	9 457	9 534	(D)
Value of construction work .....	12 928 252	(S)	1 600 292	1 935 007	2 362 406	1 695 982	1 547 040	2 075 831	(D)	(D)
Value added†† .....	5 364 564	(S)	699 385	852 009	1 065 171	710 441	619 584	396 100	316 840	(D)
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	3	4	4	2	1	(Z)	(Z)	(Z)	(D)
Net value of construction work† .....	1	4	4	4	1	(Z)	(Z)	(Z)	(D)	(D)
Capital expenditures, other than land .....	3	9	15	11	5	(Z)	(Z)	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	18 428	(S)	(S)	2 928	5 271	2 917	2 010	1 609	545	235	175
All employees** .....	145 527	(S)	(S)	6 039	17 085	16 528	17 741	24 665	16 157	13 747	30 329
Payroll, all employees .....	2 975 840	(S)	(S)	60 098	221 821	267 031	325 444	528 361	380 444	354 235	813 272
Dollar value of business done .....	14 122 163	(S)	(S)	213 792	847 045	1 045 588	1 392 067	2 442 319	1 849 775	1 589 110	4 663 974
Value of construction work .....	13 851 639	(S)	(S)	212 823	837 147	1 035 441	1 368 543	2 392 463	1 803 607	1 564 994	4 558 668
Net value of construction work† .....	10 456 584	(S)	(S)	198 013	757 432	904 111	1 154 435	1 933 835	1 414 364	1 182 659	2 839 097
Value added†† .....	5 786 198	(S)	(S)	122 404	450 763	498 181	631 330	1 016 627	752 002	671 370	1 597 630
Cost of materials, components, supplies, and fuels .....	4 940 910	(S)	(S)	76 578	316 567	416 078	546 630	967 064	708 530	535 405	1 346 773
Cost of construction work subcontracted out to others .....	3 395 055	(S)	(S)	(S)	79 715	131 329	214 108	458 628	389 242	382 335	1 719 571
Rental cost for machinery, equipment, and buildings .....	185 467	(S)	(S)	(S)	9 133	13 833	18 369	36 538	20 959	20 829	63 005
Capital expenditures, other than land .....	253 014	(S)	(S)	(S)	18 154	16 167	25 047	43 150	33 900	25 905	85 417
End-of-year gross book value of depreciable assets .....	2 544 345	(S)	(S)	32 923	147 500	174 456	239 034	429 733	367 891	273 050	865 533
<b>1987</b>											
All employees** .....	154 844	(S)	(S)	(S)	17 379	17 640	18 415	24 795	19 453	13 714	32 687
Value of construction work .....	12 928 252	(S)	(S)	(S)	708 455	940 684	1 263 623	2 143 781	1 751 131	1 539 845	4 279 843
Value added†† .....	5 364 564	(S)	(S)	(S)	392 338	473 972	580 258	926 389	756 914	608 607	1 449 162
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	6	4	4	4	3	2	1	(Z)
Net value of construction work† .....	1	(S)	(S)	4	3	4	4	4	4	3	(Z)
Capital expenditures, other than land .....	3	(S)	(S)	(S)	12	11	12	11	8	2	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>13 851 639</b>	<b>9 361 345</b>	<b>2 569 579</b>	<b>1 425 125</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>
Building construction .....	10 474 445	7 317 057	2 072 917	1 084 471	1	1	2	2
Single-family houses .....	4 318 544	3 437 340	545 918	335 285	2	3	4	5
Single-family houses, detached .....	4 093 080	3 290 604	505 466	297 010	2	3	5	5
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	225 464	146 736	40 453	38 275	7	9	10	15
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	221 292	123 945	47 058	50 288	5	7	6	10
Other residential buildings, including hotels, motels, and tourist cabins .....	82 925	50 901	(S)	14 080	8	7	(S)	11
Office buildings .....	916 674	559 666	255 389	101 619	2	2	4	4
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 164 413	738 209	284 875	141 329	3	3	4	5
Industrial buildings and warehouses .....	1 951 979	1 115 535	508 920	327 524	1	2	2	2
Industrial buildings .....	1 662 701	903 523	450 724	308 454	1	1	2	2
Warehouses .....	289 278	212 011	58 197	19 069	4	5	6	10
Religious buildings .....	205 274	129 163	51 744	24 367	5	6	6	10
Educational buildings .....	616 381	429 680	148 244	38 457	2	2	5	8
Hospitals and institutional buildings .....	754 401	549 514	169 472	35 414	1	2	2	7
Other nonresidential buildings .....	242 563	183 103	43 352	16 109	6	7	8	17
Nonbuilding construction .....	2 881 605	2 044 288	496 662	340 654	1	1	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	1 047 427	715 299	197 583	134 545	2	3	2	5
Private driveways and parking areas .....	123 728	(D)	24 078	(D)	9	(D)	10	(D)
Bridges, tunnels, and elevated highways .....	182 096	139 111	36 031	6 955	1	1	1	18
Power and communication transmission lines, towers, and related facilities .....	260 713	140 654	42 878	77 180	4	4	7	4
Sewers, water mains, and related facilities .....	452 623	396 547	23 459	32 617	4	4	8	16
Sewers, sewer lines, septic systems, and related facilities .....	272 404	238 797	13 117	20 491	5	5	6	21
Water mains and related facilities .....	180 219	157 750	10 342	12 127	6	7	16	24
Power plants .....	210 752	(D)	6 803	(D)	1	(D)	20	(D)
Sewage treatment and water treatment plants .....	112 814	86 635	22 663	3 516	5	3	18	21
Other nonbuilding construction .....	491 451	299 554	143 166	48 731	3	3	2	10
Construction work, n.s.k. ....	495 590	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>12 928 252</b>	<b>9 147 510</b>	<b>1 984 259</b>	<b>1 121 025</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>
Building construction .....	9 833 754	7 497 545	1 602 776	733 434	1	1	2	2
Single-family houses .....	3 415 987	2 815 355	379 220	221 411	2	3	4	4
Single-family houses, detached .....	3 060 417	2 513 965	349 143	197 308	2	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	355 570	301 390	30 076	24 103	6	7	13	9
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	558 445	487 899	45 426	25 119	8	9	15	8
Other residential buildings, including hotels, motels, and tourist cabins .....	330 260	255 409	47 355	27 495	4	4	9	10
Office buildings .....	1 275 968	998 999	211 341	65 627	2	2	5	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 261 093	934 344	227 144	99 604	2	2	3	6
Industrial buildings and warehouses .....	1 844 987	1 203 040	425 515	216 431	1	2	2	3
Industrial buildings .....	1 502 196	938 997	368 310	194 888	2	2	2	3
Warehouses .....	342 790	264 043	57 204	21 542	2	3	5	5
Religious buildings .....	151 186	98 597	40 645	11 943	5	5	7	8
Educational buildings .....	343 163	237 938	82 149	23 074	4	5	4	4
Hospitals and institutional buildings .....	443 026	298 860	116 370	27 796	9	13	3	4
Other nonresidential buildings .....	209 639	167 104	27 611	14 934	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction .....	2 419 040	1 649 964	381 483	387 592	1	2	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	794 862	533 632	103 844	157 385	2	2	3	1
Bridges, tunnels, and elevated highways .....	165 154	(D)	(D)	* 4 153	4	(D)	(D)	45
Power and communication transmission lines, towers, and related facilities .....	342 887	183 931	69 374	89 582	2	3	2	2
Sewers, water mains, and related facilities .....	401 523	330 477	41 630	29 415	4	4	9	6
Sewers, sewer lines, septic systems, and related facilities .....	220 660	181 797	25 197	13 665	4	4	10	8
Water mains and related facilities .....	180 863	148 680	16 433	15 749	5	6	11	7
Power plants .....	44 300	22 251	3 982	18 066	3	3	15	3
Sewage treatment and water treatment plants .....	75 436	50 884	20 038	4 514	7	6	18	35
Other nonbuilding construction .....	594 878	(D)	(D)	84 477	(NA)	(D)	(D)	(NA)
Construction work, n.s.k. ....	675 457	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>18 428</b>	<b>113 374</b>	<b>110 260</b>	<b>114 146</b>	<b>117 451</b>	<b>111 640</b>	<b>(Z)</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	3 365	9 170	9 051	9 321	9 497	8 810	3	4	3	4	4	4	4
1522	Other residential buildings -----	69	432	444	460	420	404	22	16	14	17	16	17	
1531	Operative builders -----	793	1 853	1 894	1 872	1 915	1 731	7	7	7	7	7	7	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	190	3 936	5 053	3 660	3 532	3 497	12	4	3	5	5	4	
1542	Nonresidential buildings, n.e.c. ---	745	9 678	9 848	9 754	9 921	9 190	6	2	2	2	2	2	
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	324	7 553	6 316	7 834	8 247	7 814	9	2	2	3	3	2	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	14	511	476	540	534	494	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1623	Water, sewer, and utility lines -----	423	6 402	6 212	6 159	6 470	6 766	8	3	3	3	4	3	
1629	Heavy construction, n.e.c. -----	516	3 954	3 654	4 086	4 073	4 002	8	5	6	5	5	5	
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	2 541	19 708	18 292	19 836	20 766	19 937	2	1	1	1	2	1	
1721	Painting and paper hanging -----	1 132	4 084	3 720	4 192	4 441	3 984	4	5	5	5	5	5	
1731	Electrical work -----	1 860	12 197	12 025	12 209	12 539	12 016	2	2	2	2	2	2	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	1 130	5 893	5 888	6 011	6 031	5 644	3	5	5	5	5	5	
1742	Plastering, drywall, and insulation work -----	515	4 763	4 735	4 703	4 851	4 765	5	3	4	4	4	4	
1743	Terrazzo, tile, marble, and mosaic work -----	184	647	712	618	645	614	8	5	10	4	4	4	
175	Carpentry and floor work:													
1751	Carpentry -----	1 186	3 702	3 595	3 846	3 932	3 434	4	6	6	6	7	6	
1752	Floor laying and other floor work --	420	1 140	1 135	1 156	1 231	1 037	6	9	8	8	8	9	
1761	Roofing, siding, and sheet metal work -----	878	4 642	4 517	4 602	4 767	4 680	4	4	4	4	4	4	
1771	Concrete work -----	680	3 824	3 384	3 965	4 048	3 900	5	5	5	5	5	6	
1781	Water well drilling -----	127	430	416	436	443	427	12	11	12	11	11	12	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	99	996	938	1 094	1 001	951	14	11	11	13	11	11	
1793	Glass and glazing work -----	101	593	586	593	619	574	6	7	8	7	7	8	
1794	Excavation work -----	379	1 839	1 893	1 787	1 934	1 739	9	7	11	6	7	7	
1795	Wrecking and demolition work -----	*23	186	178	187	199	181	41	24	25	24	23	25	
1796	Installing building equipment, n.e.c. -----	114	1 734	2 021	1 659	1 714	1 541	10	4	3	4	4	4	
1799	Special trade contractors, n.e.c. ---	618	3 508	3 277	3 567	3 680	3 508	7	5	5	5	5	5	

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>7.9</b>	<b>20.4</b>	<b>122.2</b>	<b>.215</b>	<b>.357</b>	<b>.245</b>	<b>.254</b>	<b>.013</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	16.2	159.5	.138	.410	.282	.034	.008
1522	Other residential buildings -----	8.5	18.2	145.6	.169	.304	.388	.036	.007
1531	Operative builders -----	5.5	26.8	800.8	.078	.403	.312	*.008	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	28.8	22.4	160.6	.194	.296	.380	.065	.012
1542	Nonresidential buildings, n.e.c. -----	17.5	23.8	238.0	.135	.238	.561	.015	.009
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	28.1	22.3	134.3	.200	.419	.222	.265	.026
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	42.8	23.5	140.4	.196	.376	.261	.312	.051
1623	Water, sewer, and utility lines -----	18.2	23.9	100.5	.286	.303	.142	.236	.022
1629	Heavy construction, n.e.c. -----	10.2	24.1	167.2	.192	.222	.306	.246	.028
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	10.0	22.8	100.6	.292	.434	.081	.430	.013
1721	Painting and paper hanging -----	4.4	16.0	53.2	.367	.264	.082	.465	(D)
1731	Electrical work -----	8.2	20.6	77.7	.331	.423	.045	.476	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.8	13.8	39.5	.390	(D)	.062	.893	.011
1742	Plastering, drywall, and insulation work -----	11.3	18.6	75.1	.303	.387	.121	.817	.011
1743	Terrazzo, tile, marble, and mosaic work -----	4.5	21.0	92.3	.293	.405	.103	.888	.013
175	Carpentry and floor work:								
1751	Carpentry -----	3.8	16.1	71.4	.271	.341	.127	.507	(S)
1752	Floor laying and other floor work -----	3.4	16.1	83.3	.241	.444	.070	.480	.008
1761	Roofing, siding, and sheet metal work -----	6.6	16.7	76.3	.273	.409	.067	.380	.015
1771	Concrete work -----	6.8	15.8	70.6	.271	.459	.068	.642	.017
1781	Water well drilling -----	4.5	18.3	93.5	.259	.464	.028	.101	.011
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	12.0	19.2	63.9	.359	.244	.076	.611	.046
1793	Glass and glazing work -----	8.8	22.8	106.6	.320	.518	.056	.689	.018
1794	Excavation work -----	5.9	18.5	82.0	.273	.260	.120	.633	.030
1795	Wrecking and demolition work -----	14.0	17.3	87.0	.343	(D)	.323	.151	(D)
1796	Installing building equipment, n.e.c. -----	19.6	23.0	91.1	.325	.307	.053	.299	.014
1799	Special trade contractors, n.e.c. -----	7.2	18.4	69.3	.337	(D)	.069	.377	.021

Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>CHARLOTTE-GASTONIA-ROCK HILL, NC-SC MSA</b>											
15,16,17	<b>Construction industries -----</b>	<b>3 507</b>	<b>35 793</b>	<b>820 669</b>	<b>3 891 328</b>	<b>2 727 292</b>	<b>1 524 019</b>	<b>1 258 910</b>	<b>1 164 036</b>	<b>62 675</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	471	1 819	31 844	270 911	196 167	84 624	113 403	74 745	1 816	7	8
1522	Other residential buildings -----	(S)	125	2 019	13 169	7 479	4 216	3 416	5 690	(D)	(Z)	(Z)
1531	Operative builders -----	156	956	32 107	340 774	209 948	103 767	116 121	130 826	975	7	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	48	1 109	26 214	135 442	(D)	51 713	37 915	(D)	*2 117	10	(D)
1542	Nonresidential buildings, n.e.c. -----	204	4 278	105 054	787 959	275 089	132 517	142 894	512 869	2 295	4	4
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction -----	49	2 263	54 637	253 903	205 254	82 978	133 932	48 649	15 114	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	87	2 244	58 891	214 670	171 487	108 830	67 291	43 183	7 818	3	3
1629	Heavy construction, n.e.c. -----	79	1 788	60 973	(D)	(D)	194 106	58 399	(D)	12 937	5	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning -----	521	5 868	143 046	483 839	437 903	221 650	222 824	45 936	4 834	2	3
1721	Painting and paper hanging -----	256	1 244	21 691	56 785	52 393	38 889	13 643	4 392	(S)	7	6
1731	Electrical work -----	340	3 222	76 449	206 933	200 949	119 763	83 296	5 983	2 523	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	177	1 364	26 554	66 110	63 200	41 265	22 136	2 910	(S)	8	7
1742	Plastering, drywall, and insulation work -----	131	1 929	39 528	126 022	110 633	68 181	47 105	15 389	2 321	5	6
1743	Terrazzo, tile, marble, and mosaic work -----	34	239	5 564	16 520	14 943	8 301	6 735	*1 577	(D)	6	6
175	Carpentry and floor work:											
1751	Carpentry -----	243	989	16 670	77 102	62 836	40 663	23 094	14 266	(S)	13	13
1752	Floor laying and other floor work -----	89	(S)	(S)	(S)	(S)	12 727	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	141	1 283	23 377	74 141	70 622	37 590	34 495	3 519	488	7	8
1771	Concrete work -----	148	1 182	18 219	66 468	62 930	34 742	28 188	3 538	(S)	9	10
1781	Water well drilling -----	13	63	(D)	5 875	5 705	(D)	(D)	170	*85	11	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	19	304	6 441	17 434	16 768	13 365	3 403	*667	127	26	21
1793	Glass and glazing work -----	32	375	9 012	30 551	(D)	14 257	14 344	(D)	*104	9	(D)
1794	Excavation work -----	61	485	10 990	32 898	27 632	21 825	6 880	5 266	*1 700	8	5
1795	Wrecking and demolition work -----	(S)	(D)	(S)	(D)	(D)	(D)	(S)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	31	1 017	19 068	72 155	(D)	42 191	24 926	(D)	212	(Z)	(D)
1799	Special trade contractors, n.e.c. -----	159	1 198	22 510	73 900	67 693	39 103	28 997	6 207	1 849	7	8
	<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC MSA</b>											
15,16,17	<b>Construction industries -----</b>	<b>3 082</b>	<b>24 402</b>	<b>540 844</b>	<b>2 313 434</b>	<b>1 822 978</b>	<b>1 047 370</b>	<b>845 053</b>	<b>490 456</b>	<b>44 231</b>	<b>2</b>	<b>2</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	524	1 770	29 613	212 392	152 971	71 620	83 673	59 421	(S)	8	12
1522	Other residential buildings -----	3	37	(D)	(D)	(D)	(D)	(D)	(D)	63	(Z)	(D)
1531	Operative builders -----	145	779	20 253	263 118	194 732	81 382	128 584	68 386	1 533	9	13
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	40	720	18 080	118 296	61 556	27 075	34 659	56 740	1 170	11	10
1542	Nonresidential buildings, n.e.c. -----	143	1 756	50 177	329 387	161 039	88 693	82 187	168 348	1 903	7	6
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction -----	52	780	14 471	97 637	81 555	53 840	37 206	16 082	6 982	9	19
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	70	1 586	45 365	152 711	140 223	33 771	33 771	12 488	12 999	8	6
1629	Heavy construction, n.e.c. -----	43	484	10 662	50 079	44 673	21 327	23 350	5 406	816	8	7

NC-14 NORTH CAROLINA

CONSTRUCTION—GEOGRAPHIC AREA SERIES



**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC MSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning	429	5 112	133 194	421 716	379 199	201 605	184 861	42 516	4 709	3	3
1721	Painting and paper hanging	231	956	16 141	40 291	(D)	28 530	10 584	(D)	299	10	(D)
1731	Electrical work	279	2 799	60 285	175 687	166 532	101 638	65 859	9 155	1 989	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	161	938	12 732	29 006	26 896	17 827	9 645	2 110	(S)	15	16
1742	Plastering, drywall, and insulation work	129	1 170	20 895	64 432	59 377	36 611	24 802	(S)	628	9	9
1743	Terrazzo, tile, marble, and mosaic work	44	215	4 247	10 448	9 771	6 181	3 592	*677	(S)	13	15
175	Carpentry and floor work:											
1751	Carpentry	148	514	9 220	28 909	26 351	17 768	10 168	2 558	416	16	12
1752	Floor laying and other floor work	83	245	3 932	16 267	14 733	9 106	6 610	1 535	108	20	19
1761	Roofing, siding, and sheet metal work	184	1 269	22 441	92 626	82 643	47 077	37 712	9 983	3 716	9	14
1771	Concrete work	128	844	15 219	56 838	52 409	30 540	22 893	4 430	1 502	14	7
1781	Water well drilling	21	(D)	1 168	5 345	5 328	2 698	2 856	17	(D)	(D)	26
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	26	422	9 182	22 529	19 820	18 702	2 714	2 709	1 364	20	15
1793	Glass and glazing work	17	182	3 627	8 431	(D)	5 769	4 593	(D)	58	20	(D)
1794	Excavation work	65	452	8 916	33 482	27 956	20 956	8 407	5 526	1 184	15	16
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	14	204	6 517	16 688	16 055	9 532	6 528	633	150	(Z)	(Z)
1799	Special trade contractors, n.e.c.	101	849	18 000	44 512	40 851	26 429	15 093	3 660	898	12	11
	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA</b>											
<b>15,16,17</b>	<b>Construction industries</b>	<b>2 812</b>	<b>22 388</b>	<b>472 491</b>	<b>2 356 262</b>	<b>1 754 111</b>	<b>970 371</b>	<b>810 399</b>	<b>602 151</b>	<b>27 578</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses	511	1 696	30 303	243 787	164 670	73 595	92 869	79 117	927	11	11
1522	Other residential buildings	(S)	38	889	(D)	(D)	1 449	(D)	(D)	(D)	(Z)	(D)
1531	Operative builders	175	1 056	28 631	461 666	329 936	157 396	183 414	131 730	3 840	8	11
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	743	22 206	97 462	49 667	36 378	13 638	47 795	562	5	6
1542	Nonresidential buildings, n.e.c.	101	1 701	45 904	377 692	169 164	75 311	95 484	208 527	1 581	4	6
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction	34	1 056	21 853	110 306	(D)	45 306	36 976	(D)	(S)	3	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	61	1 131	23 669	81 517	72 905	41 533	31 613	8 612	3 347	7	8
1629	Heavy construction, n.e.c.	91	470	8 741	32 393	29 120	20 044	9 825	3 273	1 655	15	17
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning	356	3 675	85 060	327 224	286 951	154 087	133 780	40 273	3 527	4	4
1721	Painting and paper hanging	200	1 149	19 049	55 405	49 463	34 500	14 995	(S)	2 124	14	10
1731	Electrical work	305	2 614	57 086	159 537	151 220	93 368	63 200	8 317	2 552	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	140	1 111	14 655	41 894	39 033	26 620	12 440	*2 861	399	16	17
1742	Plastering, drywall, and insulation work	73	1 214	25 862	78 718	68 144	40 893	27 360	10 574	(S)	7	4
1743	Terrazzo, tile, marble, and mosaic work	23	209	5 315	22 363	(D)	9 323	9 616	(D)	(D)	4	(D)
175	Carpentry and floor work:											
1751	Carpentry	210	(S)	(S)	(S)	(S)	(S)	15 256	(S)	(S)	(S)	(S)
1752	Floor laying and other floor work	(S)	362	5 629	19 882	18 871	10 116	8 865	1 011	155	20	16
1761	Roofing, siding, and sheet metal work	149	974	15 695	57 348	54 269	35 329	19 256	3 079	319	8	6

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
<b>17</b>	<b>Special trade contractors—Con.</b>											
1771	Concrete work -----	74	612	10 545	30 033	28 520	16 632	11 888	1 513	*798	13	13
1781	Water well drilling -----	(S)	42	971	3 270	(D)	1 933	1 213	(D)	172	11	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(S)	(S)
1793	Glass and glazing work -----	(S)	113	(S)	10 212	(S)	(S)	*6 372	*614	(D)	22	(S)
1794	Excavation work -----	(S)	393	6 828	23 356	21 083	17 007	4 992	2 273	1 545	18	8
1795	Wrecking and demolition work -----	*5	*6	*44	(D)	(D)	*294	*81	(D)	(D)	59	(D)
1796	Installing building equipment, n.e.c. -	12	231	7 412	20 673	(D)	15 295	4 035	(D)	314	(Z)	(D)
1799	Special trade contractors, n.e.c. ----	93	667	12 363	35 522	33 956	23 940	10 173	1 566	1 299	13	12
	<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC MSA</b>											
<b>15,16,17</b>	<b>Construction industries -----</b>	<b>3 475</b>	<b>31 916</b>	<b>661 209</b>	<b>3 264 139</b>	<b>2 370 699</b>	<b>1 311 542</b>	<b>1 107 870</b>	<b>893 440</b>	<b>37 724</b>	<b>1</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	618	1 945	32 464	281 541	189 762	80 358	111 758	91 779	(S)	9	13
1522	Other residential buildings -----	62	566	11 690	81 345	40 374	16 639	23 880	*40 971	433	17	19
1531	Operative builders -----	153	1 356	34 587	545 208	383 373	262 391	143 290	161 834	(S)	13	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	(S)	571	15 070	96 276	60 619	29 503	31 697	35 658	(S)	9	12
1542	Nonresidential buildings, n.e.c. ----	132	2 180	57 306	551 452	191 636	76 171	119 639	359 816	3 125	4	4
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction ----	56	1 902	43 906	184 283	139 793	63 672	82 879	44 490	4 007	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	8	329	8 677	37 456	31 907	11 472	20 450	5 549	391	(Z)	(Z)
1623	Water, sewer, and utility lines -----	59	1 330	27 646	93 246	84 772	54 914	30 655	8 475	2 632	6	6
1629	Heavy construction, n.e.c. -----	87	2 419	66 520	216 101	172 139	106 150	66 529	43 962	4 275	5	4
<b>17</b>	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning -----	478	4 169	90 488	329 514	294 906	157 417	141 256	34 609	4 136	4	3
1721	Painting and paper hanging -----	248	1 823	29 840	82 257	73 970	54 415	19 730	8 287	(S)	6	5
1731	Electrical work -----	300	2 839	59 202	191 267	183 953	97 864	86 299	7 315	1 629	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	181	1 958	27 234	73 080	66 810	36 152	30 658	(S)	1 521	11	10
1742	Plastering, drywall, and insulation work -----	137	1 440	30 229	92 321	81 340	46 963	34 948	10 980	995	7	7
1743	Terrazzo, tile, marble, and mosaic work -----	34	332	5 344	14 865	14 716	7 058	7 889	149	96	22	8
175	Carpentry and floor work:											
1751	Carpentry -----	276	1 352	22 140	75 354	63 755	35 811	27 999	(S)	569	9	7
1752	Floor laying and other floor work ---	66	283	4 741	16 450	14 549	9 079	6 141	*1 900	*190	13	11
1761	Roofing, siding, and sheet metal work -----	148	1 617	28 907	93 511	90 715	48 721	42 068	2 796	2 056	7	6
1771	Concrete work -----	119	1 033	17 206	55 759	51 140	30 308	21 281	4 619	(S)	12	11
1781	Water well drilling -----	10	*56	*1 091	*4 423	*4 349	2 151	*2 198	(S)	(D)	41	46
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	20	276	5 265	13 197	12 026	8 790	4 210	1 171	(D)	13	22
1793	Glass and glazing work -----	28	187	3 583	18 337	18 209	9 236	9 103	128	22	21	27
1794	Excavation work -----	21	200	4 322	13 511	10 792	4 715	6 277	2 719	1 044	20	18
1795	Wrecking and demolition work -----	*6	*57	*1 555	*3 462	*2 999	*2 053	*1 018	*463	*61	57	59
1796	Installing building equipment, n.e.c. -	12	210	6 757	16 849	14 650	11 877	5 573	2 199	438	10	13
1799	Special trade contractors, n.e.c. ----	174	1 486	25 440	83 076	77 445	47 664	30 446	5 631	1 755	12	11

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**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

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## South Carolina

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for South Carolina. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 26,699 establishments in this State operating in the construction industries. These establishments accounted for \$6.8 billion in total dollar value of business done.

Most of the 26,699 construction establishments were small. Of the total, 18,255 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,362 construction establishments with 5 employees or more, while representing only 13 percent of all establishments, accounted for more than 77 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$6.3 billion in total dollar value of business done. Of this amount, \$6.2 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.6 billion, leaving net value of construction work of \$4.6 billion. In addition, these establishments paid out \$2.4 billion for the cost of

materials, fuels, power, rental of equipment and buildings, and the cost of selected purchased services. Value added for 1992 was \$2.5 billion. (See Introduction and appendixes for explanation of terms.)

There were 8,444 establishments with total employment averaging 69,688 during the year. Total payroll for 1992 was \$1.4 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.



### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 18,255 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$532 million. Most of these establishments, about 83 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

1992   
1987 

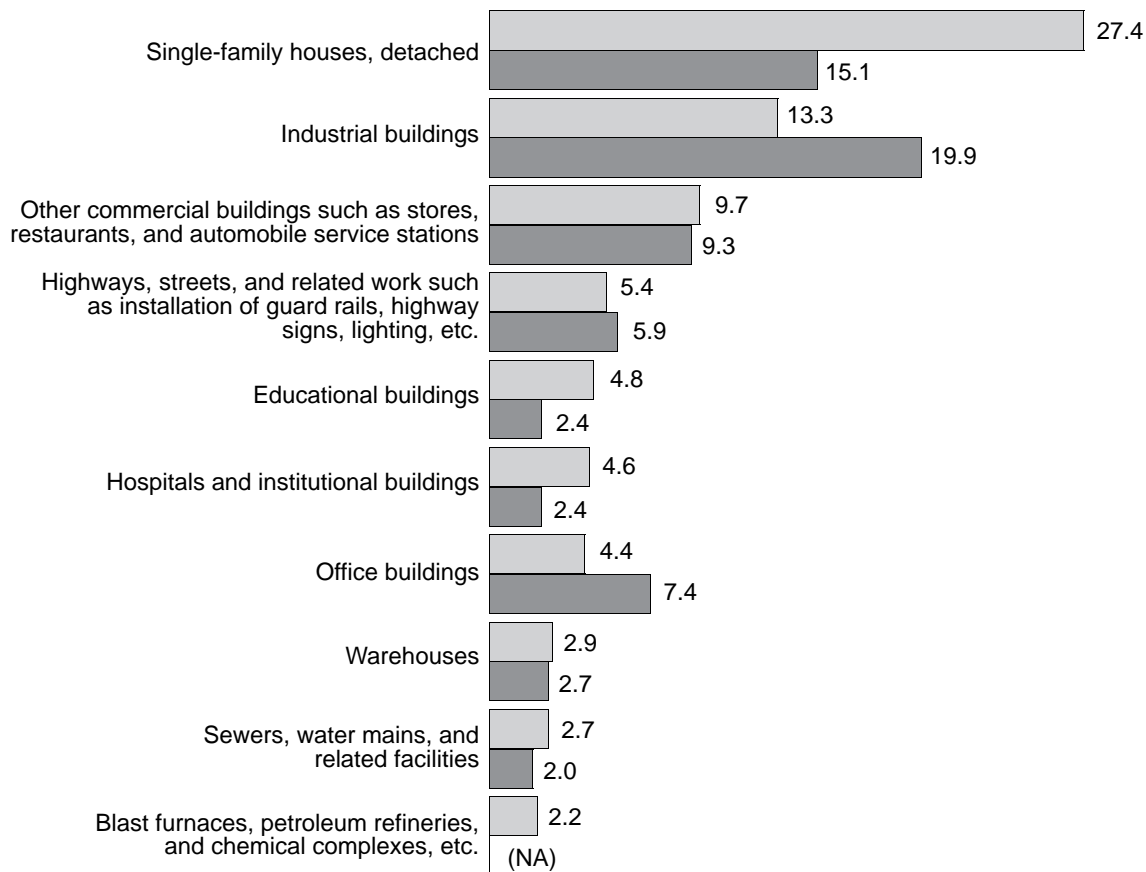


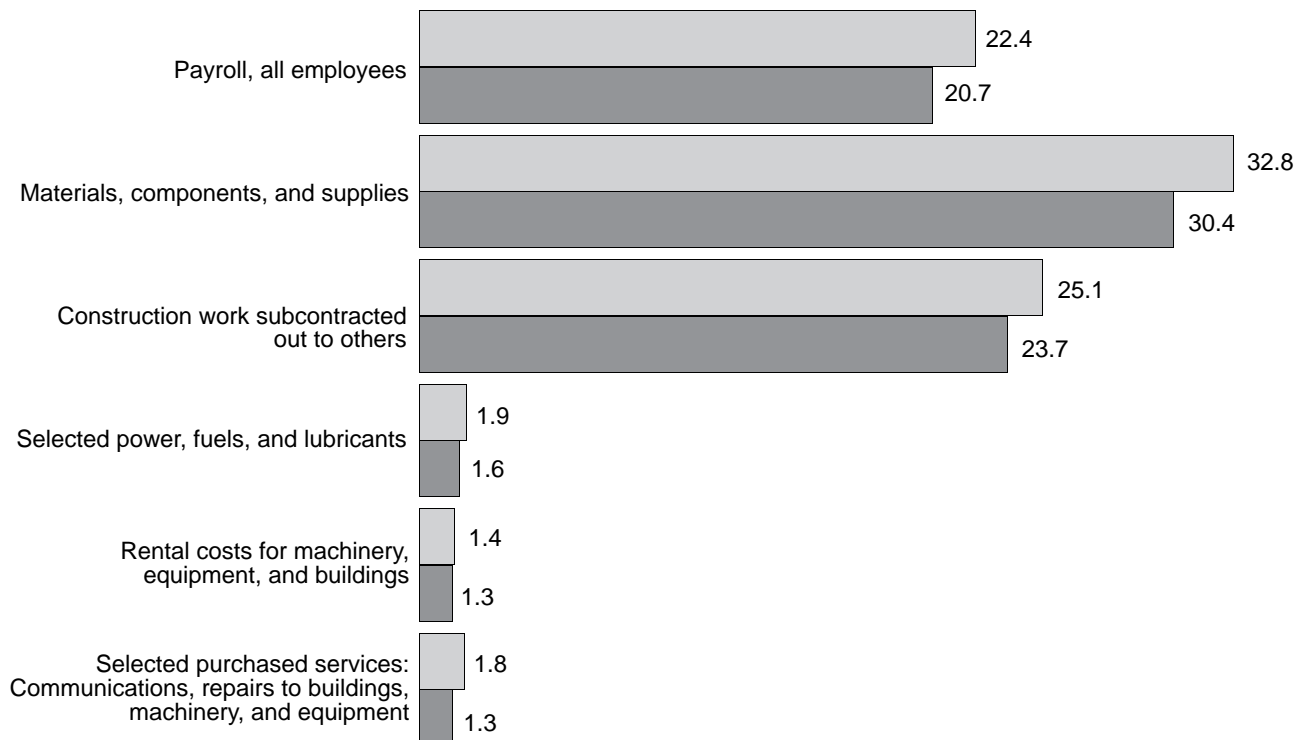


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)

1992   
1987 



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	26 699	22 028	69 688	6 836 959	18 255	17 835	531 949	8 444	4 193	69 688	6 305 010	1	1
15	Building construction—General contractors and operative builders ----	5 462	3 526	18 024	3 033 566	2 867	2 514	225 309	2 595	(S)	18 024	2 808 257	2	2
16	Heavy construction other than building construction—contractors -----	898	481	12 271	1 094 968	310	299	8 377	588	182	12 271	1 086 591	2	2
17	Special trade contractors -----	20 339	18 021	39 393	2 708 424	15 078	15 022	298 263	5 261	2 999	39 393	2 410 161	1	2
1711	Plumbing, heating, and air-conditioning --	2 606	2 025	9 811	729 869	1 461	1 447	36 410	1 145	578	9 811	693 459	2	2
1731	Electrical work -----	1 867	1 421	7 662	508 174	1 201	1 180	22 434	666	241	7 662	485 740	2	2
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	25 455	19 216	95 354	9 815 592	17 679	17 379	1 066 463	7 776	1 837	95 354	8 749 129	1	1
15	Building construction—General contractors and operative builders ----	5 991	3 731	23 356	3 844 713	3 610	3 277	394 383	2 381	454	23 356	3 450 330	2	2
16	Heavy construction other than building construction—contractors -----	818	310	29 911	3 084 442	241	247	38 544	577	63	29 911	3 045 898	1	1
17	Special trade contractors -----	17 819	14 456	41 722	2 544 013	13 119	13 167	385 774	4 700	1 289	41 722	2 158 239	1	1
1711	Plumbing, heating, and air-conditioning --	2 416	1 664	10 514	738 175	1 356	1 360	60 123	1 060	304	10 514	678 052	2	2
1731	Electrical work -----	1 654	1 100	9 542	487 093	1 009	1 001	27 865	645	99	9 542	459 228	2	2

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	<b>Construction industries<sup>1</sup></b> .....	<b>8 444</b>	<b>69 688</b>	<b>53 984</b>	<b>1 414 933</b>	<b>1 017 277</b>	<b>6 217 724</b>	<b>4 632 778</b>	<b>2 537 367</b>
15	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	1 696	6 620	4 936	104 281	70 248	777 883	533 410	240 583
1522	Other residential buildings .....	72	422	294	9 441	5 369	(S)	30 405	16 531
1531	Operative builders .....	293	1 051	395	29 003	6 993	483 247	327 754	148 379
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	159	4 227	3 359	96 151	66 299	497 802	212 004	106 806
1542	Nonresidential buildings, n.e.c. ....	375	5 703	4 226	133 538	83 450	938 151	456 084	227 919
16	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	121	3 169	2 590	66 235	47 672	369 917	272 789	134 997
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	13	440	364	10 917	7 332	49 741	40 952	(D)
1623	Water, sewer, and utility lines .....	187	2 788	2 347	58 300	44 983	211 453	183 697	109 676
1629	Heavy construction, n.e.c. ....	266	5 875	3 624	167 001	132 155	440 689	375 259	224 430
17	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	1 145	9 811	7 475	204 251	144 479	687 125	627 204	334 437
1721	Painting and paper hanging .....	475	2 169	1 824	32 070	25 412	92 974	83 960	59 892
1731	Electrical work .....	666	7 662	6 355	177 785	137 048	482 458	466 286	290 165
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	447	2 657	2 429	31 177	27 356	80 939	(D)	51 449
1742	Plastering, drywall, and insulation work .....	228	2 809	2 294	53 732	40 602	172 100	158 331	91 492
1743	Terrazzo, tile, marble, and mosaic work .....	88	367	313	6 185	4 854	18 988	18 377	11 325
175	Carpentry and floor work:								
1751	Carpentry .....	574	2 233	1 813	35 112	26 725	152 582	127 586	71 202
1752	Floor laying and other floor work .....	153	472	354	6 210	4 410	28 329	26 632	14 578
1761	Roofing, siding, and sheet metal work .....	366	2 736	2 227	41 492	30 341	163 418	155 922	84 838
1771	Concrete work .....	294	2 203	1 889	32 902	25 015	119 740	110 839	61 304
1781	Water well drilling .....	55	249	184	4 802	3 555	20 185	19 721	12 551
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	60	714	587	15 670	12 286	38 458	33 947	27 601
1793	Glass and glazing work .....	46	403	259	8 430	5 100	25 001	24 634	11 898
1794	Excavation work .....	218	1 168	938	21 397	15 181	91 521	81 290	53 581
1795	Wrecking and demolition work .....	6	41	29	645	339	2 386	(D)	(D)
1796	Installing building equipment, n.e.c. ....	51	1 209	949	25 780	20 211	58 007	55 718	43 600
1799	Special trade contractors, n.e.c. ....	389	2 491	1 931	42 428	29 861	144 868	133 205	86 304

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
2 182 697	1 584 946	1 644 893	86 122	103 110	988 460	95 354	7 870 379	3 787 970	1	1	5	15, 16, 17
306 756 14 052	244 473 (S)	29 686 (S)	5 085 491	8 003 (S)	66 083 *3 715	6 838 1 300	642 020 199 197	222 500 36 859	5 20	6 22	32 (S)	152 1522
186 378	155 492	931	966	3 505	(S)	1 924	328 818	53 427	11	10	35	1531
112 501 241 165	285 798 482 067	27 557 21 456	6 506 8 675	2 922 5 448	37 063 65 792	6 181 7 113	1 272 287 882 236	443 024 248 366	5 3	6 3	25 14	154 1541 1542
144 740	97 128	79 781	7 769	16 440	136 191	4 786	481 091	195 099	4	3	4	1611
21 205 77 234 155 161	8 789 27 756 65 431	23 931 66 539 112 131	1 513 5 336 7 911	1 030 6 949 20 252	13 086 86 896 130 948	825 3 170 21 130	102 591 184 473 1 596 464	31 931 114 204 1 213 412	4 5 3	4 5 3	25 20 18	162 1622 1623 1629
299 102	59 920	333 861	12 298	10 112	99 455	10 514	669 171	320 578	2	2	14	1711
24 601 179 403	9 014 16 172	46 918 281 505	1 806 8 296	1 686 5 272	11 604 76 199	2 790 9 542	96 043 455 758	61 875 281 256	8 2	7 2	24 13	1721 1731
(D) 69 816 7 715	(D) 13 769 612	(S) (S) 14 051	1 208 (S) 264	(D) 1 063 173	11 531 14 782 2 635	3 241 2 327 604	94 081 132 538 28 996	62 445 72 098 17 436	6 5 10	(D) 9 13	(D) 24 (Z)	174 1742 1743
57 257 (D)	(S) 1 697	80 817 9 224	(S) 194	852 289	9 062 4 782	1 878 404	82 365 21 529	48 313 11 325	8 14	9 17	31 16	175 1751 1752
71 435	7 495	59 645	3 037	2 235	22 916	2 593	126 373	66 796	6	9	21	1761
53 043	8 901	66 898	2 143	4 057	55 860	2 201	95 921	54 817	9	8	14	1771
7 262	*464	5 109	219	1 010	7 788	294	19 316	11 942	17	13	16	1781
8 182 15 713 28 585 571 (D) 51 455	4 511 367 10 231 (D) 2 288 11 663	28 451 17 411 52 614 809 14 079 35 880	1 769 442 2 949 78 916 3 160	1 050 (S) 4 333 (D) 1 305 2 976	10 093 2 760 62 908 (D) 12 970 (D)	648 585 930 *55 677 2 439	34 924 37 242 64 769 1 757 37 322 123 568	23 962 19 173 48 470 1 545 27 610 72 845	11 6 8 (Z) 5 7	9 7 8 (D) 5 11	31 (S) 21 (D) 4 31	179 1791 1793 1794 1795 1796 1799

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**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	8 444	7 776	6 028	6 478	1	1	2	3
Proprietors and working partners .....	4 193	1 837	2 308	4 299	2	6	4	5
All employees** .....	69 688	95 354	99 580	84 877	1	1	1	1
Construction workers:								
March .....	52 022	76 723	81 326	73 720	1	1	1	1
May .....	54 367	78 264	83 909	77 721	1	1	1	1
August .....	55 276	79 737	79 538	79 114	1	1	1	1
November .....	54 270	76 205	77 943	75 943	1	1	1	1
Average .....	53 984	77 732	81 183	76 654	1	1	1	1
Other employees:								
March .....	16 214	17 826	18 188	7 950	1	1	1	2
May .....	15 562	17 163	(NA)	(NA)	1	1	(NA)	(NA)
August .....	15 412	17 683	(NA)	(NA)	1	1	(NA)	(NA)
November .....	15 627	17 815	(NA)	(NA)	1	1	(NA)	(NA)
Average .....	15 704	17 622	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	1 414 933	1 812 753	1 917 734	933 801	1	1	(Z)	1
Payroll, construction workers .....	1 017 277	1 315 337	1 662 937	809 610	1	1	(Z)	1
Payroll, other employees .....	397 657	497 416	254 797	124 191	1	1	1	2
First-quarter payroll, all employees .....	323 981	425 809	211 740	209 276	1	1	1	1
Fringe benefits, all employees .....	257 694	516 363	339 401	125 305	1	(Z)	1	1
Legally required expenditures .....	199 074	320 952	285 848	86 191	1	1	(Z)	1
Voluntary expenditures .....	58 620	195 410	53 553	39 114	2	(Z)	1	1
Dollar value of business done .....	6 305 010	8 749 129	5 843 469	3 104 040	1	1	1	1
Value of construction work .....	6 217 724	7 870 379	5 679 199	3 025 605	1	1	1	1
Value of construction work subcontracted in from others .....	1 644 893	1 308 331	1 127 203	529 041	3	3	1	2
Other business receipts .....	87 286	791 499	124 405	78 435	6	1	2	4
Net value of construction† .....	4 632 778	5 798 488	3 926 774	2 397 898	1	1	1	1
Value added†† .....	2 537 367	3 787 970	2 312 738	1 281 897	1	1	1	1
Selected costs .....	3 767 643	4 873 908	3 490 866	1 798 147	1	1	1	1
Materials, components, and supplies .....	2 065 069	2 661 780	1 617 335	1 125 522	2	1	1	1
Construction work subcontracted out to others .....	1 584 946	2 071 890	1 752 425	627 707	2	1	1	1
Selected power, fuels, and lubricants .....	117 628	140 237	121 106	44 917	2	1	1	2
Electricity .....	16 997	18 476	16 504	6 154	3	3	1	2
Natural gas .....	4 699	3 565	2 896	1 267	4	2	2	9
Gasoline and diesel fuel .....	89 508	108 266	93 174	32 628	2	1	2	2
On highway use .....	65 904	76 940	(NA)	(NA)	3	1	(NA)	(NA)
Off highway use .....	23 604	31 325	(NA)	(NA)	4	2	(NA)	(NA)
Other, including lubricating oils and greases .....	6 424	9 928	8 531	4 872	6	2	2	4
Rental cost for machinery, equipment, and buildings .....	86 122	114 973	42 267	32 334	3	2	2	2
For machinery and equipment .....	59 201	77 787	31 331	27 458	4	3	3	2
For buildings .....	26 921	36 431	10 936	4 876	4	2	3	3
Selected purchased services .....	115 322	114 973	65 111	44 338	3	2	2	3
Communication services .....	37 546	31 123	19 702	10 906	7	2	2	2
Repairs to buildings and other structures .....	5 410	5 839	3 310	2 083	11	4	4	14
Repairs to machinery and equipment .....	72 367	78 010	42 098	31 349	4	2	2	3
Ownership of construction projects:								
Value of construction work .....	6 217 724	7 870 379	5 679 199	3 025 605	1	1	1	1
Government owned .....	1 274 489	1 096 415	644 669	409 279	3	3	4	1
Federal .....	274 600	318 263	(NA)	(NA)	5	6	(NA)	(NA)
State and local .....	999 889	778 152	(NA)	(NA)	3	3	(NA)	(NA)
Privately owned .....	4 943 235	6 773 964	5 034 529	2 616 326	2	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	944 892	733 964	3	3
Capital expenditures, other than land .....	103 110	120 952	5	3
New .....	72 277	97 276	5	4
Used .....	30 833	23 676	13	7
Retirements and disposition of depreciable assets .....	59 542	36 338	7	5
End-of-year gross book value of depreciable assets .....	988 460	818 578	3	3
Depreciation charges during year .....	119 386	103 355	4	3
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	140 050	167 569	16	8
Capital expenditures, other than land .....	11 357	13 855	22	10
New buildings and other structures .....	7 748	10 331	27	11
Used buildings and other structures .....	3 609	3 523	38	26
Retirements and disposition of depreciable assets .....	* 4 162	7 508	57	10
End-of-year gross book value of depreciable assets .....	147 245	173 915	15	8
Depreciation charges during year .....	14 094	17 103	19	8
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	804 842	566 395	3	3
Capital expenditures, other than land .....	91 753	107 097	4	4
New machinery and equipment, including automobiles and trucks .....	64 529	86 945	4	4
New automobiles and trucks, intended primarily for highway use .....	30 267	40 830	6	5
Used machinery and equipment, including automobiles and trucks .....	27 224	20 152	11	7
Retirements and disposition of depreciable assets .....	55 380	28 829	6	6
End-of-year gross book value of depreciable assets .....	841 215	644 662	3	3
Depreciation charges during year .....	105 292	86 251	3	3

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	8 444	1
Value of construction work .....	6 217 724	1
Establishments with inventories:		
Number .....	2 280	3
Value of construction work .....	2 227 133	2
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	69 085	14
End of 1991, materials and supplies .....	65 480	11
Establishments with no inventories:		
Number .....	2 896	3
Value of construction work .....	2 550 005	2
Establishments not reporting:		
Number .....	3 267	2
Value of construction work .....	1 440 587	3

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	8 444	(S)	1 824	919	441	122	40	11	2	3
All employees** .....	69 688	9 631	11 484	12 077	12 978	8 305	6 173	4 944	(D)	4 097
Payroll, all employees .....	1 414 933	137 006	185 036	218 697	283 934	186 701	147 016	134 180	(D)	122 363
Dollar value of business done .....	6 305 010	(S)	868 384	956 695	1 274 848	834 746	527 707	473 766	(D)	346 089
Value of construction work .....	6 217 724	(S)	857 369	940 676	1 255 481	821 787	514 585	471 279	(D)	346 089
Net value of construction work† .....	4 632 778	(S)	698 028	751 673	949 774	562 070	385 308	239 872	280 995	(D)
Value added†† .....	2 537 367	(S)	380 483	434 526	517 744	320 302	214 045	125 204	177 758	(D)
Cost of materials, components, supplies, and fuels .....	2 182 697	410 070	328 560	333 166	451 397	254 727	184 385	126 642	(D)	93 750
Cost of construction work subcontracted out to others .....	1 584 946	(S)	159 342	189 003	305 706	259 717	129 277	296 501	(D)	(D)
Rental cost for machinery, equipment, and buildings .....	86 122	7 591	10 734	12 540	19 088	11 075	11 636	8 181	(D)	5 277
Capital expenditures, other than land .....	103 110	20 423	17 414	14 176	13 857	11 632	16 812	7 228	(D)	1 569
End-of-year gross book value of depreciable assets .....	988 460	161 929	139 735	149 451	193 598	164 499	108 098	59 193	(D)	11 957
<b>1987</b>										
All employees** .....	95 354	(S)	(S)	12 566	14 676	10 854	7 279	4 840	5 009	20 334
Value of construction work .....	7 870 379	(S)	(S)	2 003 336	(D)	1 631 398	(D)	2 858 756	(D)	(D)
Value added†† .....	3 787 970	(S)	(S)	379 414	887 851	(D)	393 736	(D)	1 548 933	(D)
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	4	5	5	3	1	(Z)	(Z)	(D)	(Z)
Net value of construction work† .....	1	(S)	6	5	2	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land .....	5	16	22	15	5	(Z)	(Z)	(Z)	(D)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	8 444	(S)	(S)	(S)	2 506	1 251	949	802	259	104	76
All employees** .....	69 688	(S)	(S)	(S)	8 801	7 471	8 579	12 016	7 984	6 074	15 006
Payroll, all employees .....	1 414 933	(S)	(S)	(S)	109 034	116 390	155 799	247 423	183 112	155 234	414 046
Dollar value of business done .....	6 305 010	(S)	(S)	(S)	395 236	440 745	664 812	1 220 555	902 407	716 406	1 844 576
Value of construction work .....	6 217 724	(S)	(S)	(S)	390 878	437 109	649 861	1 200 595	892 579	709 338	1 818 369
Net value of construction work† .....	4 632 778	(S)	(S)	(S)	352 520	382 616	543 785	932 138	697 321	499 455	1 113 495
Value added†† .....	2 537 367	(S)	(S)	(S)	209 311	217 817	300 631	475 840	383 220	268 387	614 120
Cost of materials, components, supplies, and fuels .....	2 182 697	(S)	(S)	(S)	147 567	168 434	258 105	476 258	323 928	238 136	525 582
Cost of construction work subcontracted out to others .....	1 584 946	(S)	(S)	(S)	(S)	(S)	106 076	268 457	195 258	209 883	704 874
Rental cost for machinery, equipment, and buildings .....	86 122	(S)	(S)	(S)	5 685	5 886	10 261	14 380	10 482	10 446	28 034
Capital expenditures, other than land .....	103 110	(S)	(S)	(S)	11 843	8 654	15 813	17 469	9 168	10 380	27 098
End-of-year gross book value of depreciable assets .....	988 460	(S)	(S)	(S)	82 712	65 978	165 921	187 040	137 409	115 318	214 148
<b>1987</b>											
All employees** .....	95 354	(S)	(S)	(S)	(S)	9 468	8 851	11 085	10 284	7 944	35 502
Value of construction work .....	7 870 379	(S)	(S)	(S)	(S)	473 621	573 035	1 739 256	(D)	4 652 789	(D)
Value added†† .....	3 787 970	(S)	(S)	(S)	(S)	229 001	263 988	408 877	652 820	(D)	1 999 215
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	(S)	6	6	5	4	2	1	(Z)
Net value of construction work† .....	1	(S)	(S)	(S)	5	6	6	5	5	3	(Z)
Capital expenditures, other than land .....	5	(S)	(S)	(S)	15	22	26	12	9	(Z)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>6 217 724</b>	<b>3 999 334</b>	<b>1 210 624</b>	<b>760 624</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>
Building construction .....	4 627 343	3 178 882	955 596	492 864	2	2	2	3
Single-family houses .....	1 778 100	1 422 226	218 943	136 932	4	4	6	5
Single-family houses, detached .....	1 702 068	1 366 802	208 990	126 475	4	4	6	6
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	76 032	55 423	(S)	10 457	12	15	(S)	11
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	114 038	(S)	21 754	13 320	17	(S)	16	14
Other residential buildings, including hotels, motels, and tourist cabins .....	41 697	19 577	13 886	8 234	9	10	17	13
Office buildings .....	273 854	144 139	89 967	39 749	4	6	7	6
Other commercial buildings such as stores, restaurants, and automobile service stations .....	602 213	374 145	153 132	74 936	3	3	5	9
Industrial buildings and warehouses .....	1 008 034	555 149	280 251	172 635	2	2	3	4
Industrial buildings .....	827 092	413 571	253 656	159 865	2	3	4	4
Warehouses .....	180 942	141 578	26 594	12 770	4	4	4	24
Religious buildings .....	123 573	90 211	25 591	7 771	5	7	6	12
Educational buildings .....	301 233	212 973	71 814	16 445	3	3	7	10
Hospitals and institutional buildings .....	287 636	207 898	65 617	14 121	4	4	9	4
Amusement, social, and recreational buildings, indoors .....	43 711	33 705	7 584	2 422	7	8	4	6
Other nonresidential buildings .....	53 252	39 897	(S)	6 298	6	7	(S)	13
Nonbuilding construction .....	1 343 239	820 452	255 028	267 760	2	2	3	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	335 720	193 413	80 949	61 359	3	4	2	5
Outdoor swimming pools .....	34 562	23 894	3 650	7 018	22	24	27	36
Private driveways and parking areas .....	59 208	31 449	10 906	16 854	10	11	13	20
Bridges, tunnels, and elevated highways .....	81 786	62 464	11 111	8 211	3	3	3	10
Conservation and development construction .....	56 801	49 447	2 181	*5 173	15	17	11	41
Power and communication transmission lines, towers, and related facilities .....	122 358	80 891	15 973	25 494	4	3	9	8
Sewers, water mains, and related facilities .....	169 035	132 764	17 010	19 261	6	8	6	10
Sewers, sewer lines, septic systems, and related facilities .....	84 398	66 970	8 666	8 761	9	10	7	13
Water mains and related facilities .....	84 638	65 794	8 344	10 500	7	8	8	14
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	137 679	64 474	19 684	53 521	(Z)	(Z)	1	(Z)
Power plants .....	100 051	52 503	6 975	40 572	(Z)	(Z)	(Z)	(Z)
Sewage treatment and water treatment plants .....	73 196	31 903	38 962	*2 331	8	2	15	43
Other nonbuilding construction .....	172 843	97 250	47 626	27 966	9	11	9	8
Construction work, n.s.k. ....	247 142	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>7 870 379</b>	<b>5 524 998</b>	<b>1 158 119</b>	<b>751 857</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
Building construction .....	5 349 992	4 085 014	842 382	422 595	1	1	2	2
Single-family houses .....	1 319 201	1 012 361	212 170	94 670	4	5	6	6
Single-family houses, detached .....	1 185 410	905 401	194 597	85 411	4	5	6	6
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	133 790	106 959	17 572	9 259	9	11	25	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	235 890	200 478	*22 876	12 535	8	8	40	13
Other residential buildings, including hotels, motels, and tourist cabins .....	161 967	141 259	12 673	8 034	4	4	15	7
Office buildings .....	580 081	443 199	81 074	55 808	2	2	9	3
Other commercial buildings such as stores, restaurants, and automobile service stations .....	731 584	532 233	139 776	59 574	2	2	4	4
Industrial buildings and warehouses .....	1 780 468	1 417 334	219 084	144 049	1	1	1	2
Industrial buildings .....	1 567 046	1 249 536	178 057	139 451	1	1	2	2
Warehouses .....	213 422	167 797	41 026	4 597	3	4	3	14
Religious buildings .....	71 997	48 957	18 442	4 597	8	8	11	12
Educational buildings .....	192 314	125 819	52 544	13 949	4	4	8	23
Hospitals and institutional buildings .....	187 918	114 262	61 509	12 147	4	4	7	8
Amusement, social, and recreational buildings, indoors .....	32 101	24 447	5 711	1 942	7	7	23	11
Other nonresidential buildings .....	56 471	24 665	16 523	15 290	11	12	24	9
Nonbuilding construction .....	2 084 983	1 439 984	315 736	329 262	1	1	3	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	467 346	271 713	105 510	90 121	4	5	7	3
Outdoor swimming pools .....	37 405	29 678	2 696	5 031	22	23	28	28
Private driveways and parking areas .....	36 123	23 515	8 707	3 900	19	18	29	35
Bridges, tunnels, and elevated highways .....	101 075	85 971	14 090	1 014	2	2	(Z)	(Z)
Power and communication transmission lines, towers, and related facilities .....	227 306	153 645	40 007	33 653	1	1	(Z)	1
Sewers, water mains, and related facilities .....	158 447	136 564	9 507	12 374	5	6	17	8
Sewers, sewer lines, septic systems, and related facilities .....	94 697	82 054	6 523	6 120	6	6	24	14
Water mains and related facilities .....	63 749	54 510	2 983	6 254	7	8	8	7
Power plants .....	83 566	22 815	(D)	(D)	1	(Z)	(D)	(D)
Sewage treatment and water treatment plants .....	238 197	193 568	(D)	(D)	1	1	(D)	(D)
Other nonbuilding construction .....	735 518	522 515	99 485	113 524	16	17	24	27
Construction work, n.s.k. ....	435 403	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>8 444</b>	<b>53 984</b>	<b>52 022</b>	<b>54 367</b>	<b>55 276</b>	<b>54 270</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	1 696	4 936	4 731	5 067	5 155	4 792	4	6	6	6	6	6	6
1522	Other residential buildings -----	72	294	263	298	310	306	25	19	19	20	19	19	19
1531	Operative builders -----	293	395	384	408	429	359	12	19	18	18	19	21	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	159	3 359	3 218	3 277	3 502	3 437	14	4	4	4	5	5	
1542	Nonresidential buildings, n.e.c. ---	375	4 226	4 264	4 258	4 322	4 058	8	3	3	3	4	3	
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	121	2 590	2 301	2 611	2 797	2 652	13	4	5	4	4	4	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	13	364	402	369	368	318	21	4	4	4	4	4	
1623	Water, sewer, and utility lines ----	187	2 347	2 415	2 309	2 380	2 282	12	5	5	5	6	6	
1629	Heavy construction, n.e.c. -----	266	3 624	3 416	3 280	3 423	4 379	11	4	4	4	4	4	
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	1 145	7 475	7 168	7 754	7 636	7 342	2	2	2	4	2	2	
1721	Painting and paper hanging -----	475	1 824	1 768	1 863	1 929	1 737	3	8	9	8	8	8	
1731	Electrical work -----	666	6 355	6 613	6 529	6 384	5 896	3	2	2	2	2	2	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	447	2 429	2 355	2 469	2 466	2 426	3	6	7	7	7	7	
1742	Plastering, drywall, and insulation work -----	228	2 294	2 054	2 298	2 267	2 557	6	4	5	4	4	10	
1743	Terrazzo, tile, marble, and mosaic work -----	88	313	300	407	283	262	19	11	11	10	11	11	
175	Carpentry and floor work:													
1751	Carpentry -----	574	1 813	1 726	1 905	1 892	1 729	5	8	9	8	8	9	
1752	Floor laying and other floor work --	153	354	352	345	375	344	7	16	16	15	15	19	
1761	Roofing, siding, and sheet metal work -----	366	2 227	2 110	2 212	2 333	2 254	6	6	6	6	6	7	
1771	Concrete work -----	294	1 889	1 711	1 981	1 980	1 886	8	9	10	9	9	10	
1781	Water well drilling -----	55	184	186	187	187	174	17	18	18	18	18	19	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	60	587	640	550	557	600	20	10	10	10	10	9	
1793	Glass and glazing work -----	46	259	257	257	262	259	19	6	6	6	6	6	
1794	Excavation work -----	218	938	832	984	1 003	932	12	8	7	7	7	7	
1795	Wrecking and demolition work ----	6	29	24	33	30	28	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1796	Installing building equipment, n.e.c. -----	51	949	780	843	1 053	1 120	15	4	5	5	3	3	
1799	Special trade contractors, n.e.c. ---	389	1 931	1 751	1 876	1 953	2 141	9	7	8	8	9	6	

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>8.3</b>	<b>20.3</b>	<b>115.2</b>	<b>.228</b>	<b>.351</b>	<b>.255</b>	<b>.265</b>	<b>.014</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.9	15.8	157.6	.134	.394	.314	.038	.007
1522	Other residential buildings -----	5.9	22.4	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders -----	3.6	27.6	1 223.4	.060	.386	.322	.002	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	26.5	22.7	148.2	.193	.226	.574	.055	.013
1542	Nonresidential buildings, n.e.c. -----	15.2	23.4	222.0	.142	.257	.514	.023	.009
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	26.2	20.9	142.8	.179	.391	.263	.216	.021
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	33.0	24.8	136.7	.219	.426	.177	.481	.030
1623	Water, sewer, and utility lines -----	14.9	20.9	90.1	.276	.365	.131	.315	.025
1629	Heavy construction, n.e.c. -----	22.1	28.4	121.6	.379	.352	.148	.254	.018
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	8.6	20.8	91.9	.297	.435	.087	.486	.018
1721	Painting and paper hanging -----	4.6	14.8	51.0	.345	.265	.097	.505	.019
1731	Electrical work -----	11.5	23.2	75.9	.368	.372	.034	.583	.017
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.9	11.7	33.3	.385	(D)	(D)	(S)	.015
1742	Plastering, drywall, and insulation work -----	12.3	19.1	75.0	.312	.406	.080	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	4.2	16.9	60.7	.326	.406	.032	.740	.014
175	Carpentry and floor work:								
1751	Carpentry -----	3.9	15.7	84.2	.230	.375	(S)	.530	(S)
1752	Floor laying and other floor work -----	3.1	13.2	80.0	.219	(D)	.060	.326	.007
1761	Roofing, siding, and sheet metal work -----	7.5	15.2	73.4	.254	.437	.046	.365	.019
1771	Concrete work -----	7.5	14.9	63.4	.275	.443	.074	.559	.018
1781	Water well drilling -----	4.5	19.3	109.7	.238	.360	*.023	.253	.011
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	12.0	21.9	65.5	.407	.213	.117	.740	*.046
1793	Glass and glazing work -----	8.7	20.9	96.5	.337	.629	.015	.696	.018
1794	Excavation work -----	5.4	18.3	97.6	.234	.312	.112	.575	.032
1795	Wrecking and demolition work -----	6.8	15.7	82.3	.270	.239	(D)	.339	.033
1796	Installing building equipment, n.e.c. -----	23.7	21.3	61.1	.444	(D)	.039	.243	.016
1799	Special trade contractors, n.e.c. -----	6.4	17.0	75.0	.293	.355	.081	.248	.022

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>CHARLOTTE-GASTONIA-ROCK HILL, NC-SC MSA</b>											
15,16,17	<b>Construction industries -----</b>	<b>3 507</b>	<b>35 793</b>	<b>820 669</b>	<b>3 891 328</b>	<b>2 727 292</b>	<b>1 524 019</b>	<b>1 258 910</b>	<b>1 164 036</b>	<b>62 675</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	471	1 819	31 844	270 911	196 167	84 624	113 403	74 745	1 816	7	8
1522	Other residential buildings -----	(S) 125		2 019	13 169	7 479	4 216	3 416	5 690	(D)	(Z)	(Z)
1531	Operative builders -----	156	956	32 107	340 774	209 948	103 767	116 121	130 826	975	7	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	48	1 109	26 214	135 442	(D)	51 713	37 915	(D)	*2 117	10	(D)
1542	Nonresidential buildings, n.e.c. -----	204	4 278	105 054	787 959	275 089	132 517	142 894	512 869	2 295	4	4
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction -----	49	2 263	54 637	253 903	205 254	82 978	133 932	48 649	15 114	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	87	2 244	58 891	214 670	171 487	108 830	67 291	43 183	7 818	3	3
1629	Heavy construction, n.e.c. -----	79	1 788	60 973	(D)	(D)	194 106	58 399	(D)	12 937	5	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning -----	521	5 868	143 046	483 839	437 903	221 650	222 824	45 936	4 834	2	3
1721	Painting and paper hanging -----	256	1 244	21 691	56 785	52 393	38 889	13 643	4 392	(S)	7	6
1731	Electrical work -----	340	3 222	76 449	206 933	200 949	119 763	83 296	5 983	2 523	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	177	1 364	26 554	66 110	63 200	41 265	22 136	2 910	(S)	8	7
1742	Plastering, drywall, and insulation work -----	131	1 929	39 528	126 022	110 633	68 181	47 105	15 389	2 321	5	6
1743	Terrazzo, tile, marble, and mosaic work -----	34	239	5 564	16 520	14 943	8 301	6 735	*1 577	(D)	6	6
175	Carpentry and floor work:											
1751	Carpentry -----	243	989	16 670	77 102	62 836	40 663	23 094	14 266	(S)	13	13
1752	Floor laying and other floor work -----	89	(S)	(S)	(S)	(S)	12 727	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	141	1 283	23 377	74 141	70 622	37 590	34 495	3 519	488	7	8
1771	Concrete work -----	148	1 182	18 219	66 468	62 930	34 742	28 188	3 538	(S)	9	10
1781	Water well drilling -----	13	63	(D)	5 875	5 705	(D)	(D)	170	*85	11	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	19	304	6 441	17 434	16 768	13 365	3 403	*667	127	26	21
1793	Glass and glazing work -----	32	375	9 012	30 551	(D)	14 257	14 344	(D)	*104	9	(D)
1794	Excavation work -----	61	485	10 990	32 898	27 632	21 825	6 880	5 266	*1 700	8	5
1795	Wrecking and demolition work -----	(S)	(D)	(S)	(D)	(D)	(D)	(S)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	31	1 017	19 068	72 155	(D)	42 191	24 926	(D)	212	(Z)	(D)
1799	Special trade contractors, n.e.c. -----	159	1 198	22 510	73 900	67 693	39 103	28 997	6 207	1 849	7	8
	<b>GREENVILLE-SPARTANBURG-ANDERSON, SC MSA</b>											
15,16,17	<b>Construction industries -----</b>	<b>2 152</b>	<b>22 186</b>	<b>496 148</b>	<b>1 956 687</b>	<b>1 434 867</b>	<b>806 058</b>	<b>654 458</b>	<b>521 821</b>	<b>30 887</b>	<b>2</b>	<b>2</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	387	1 391	22 647	178 442	119 518	44 797	78 546	58 924	1 831	11	13
1522	Other residential buildings -----	*14	136	3 259	19 279	(S)	3 812	(S)	10 926	60	36	(S)
1531	Operative builders -----	94	233	7 473	115 461	80 099	26 257	55 643	35 362	1 488	23	22
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	43	2 390	62 983	331 804	126 031	61 479	71 338	205 773	1 945	3	6
1542	Nonresidential buildings, n.e.c. -----	75	1 256	30 392	224 940	111 194	58 595	53 282	113 746	1 360	6	6
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction -----	28	726	17 033	76 898	61 771	41 310	22 911	15 128	2 217	9	9
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
1623	Water, sewer, and utility lines -----	62	427	8 734	27 760	26 500	17 340	9 160	1 260	2 111	18	17
1629	Heavy construction, n.e.c. -----	35	2 278	(D)	147 642	126 687	73 794	52 906	20 955	*7 222	3	4

**SC-14 SOUTH CAROLINA**

**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.</b>											
<b>15,16,17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	303	3 362	75 513	238 639	218 567	128 749	92 830	20 072	3 171	4	4
1721	Painting and paper hanging-----	(S)	655	10 408	31 953	27 029	19 311	7 734	*4 925	479	13	14
1731	Electrical work-----	189	3 456	83 120	219 717	211 827	134 931	77 869	7 890	1 258	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	149	867	12 064	36 019	32 162	21 804	(S)	3 858	517	11	13
1742	Plastering, drywall, and insulation work-----	52	752	14 094	49 088	44 625	29 847	15 834	*4 463	*408	13	31
1743	Terrazzo, tile, marble, and mosaic work-----	31	180	3 172	9 724	9 418	5 563	3 937	(S)	(D)	17	19
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	(S)	(S)	44 156	37 211	(S)	18 478	*6 945	465	(S)	22
1752	Floor laying and other floor work---	55	199	2 758	13 039	12 320	*6 696	5 671	719	(S)	27	30
1761	Roofing, siding, and sheet metal work-----	(S)	1 001	15 042	63 228	60 726	34 453	26 390	2 503	809	10	20
1771	Concrete work-----	52	314	4 841	20 990	20 012	7 838	12 255	977	(D)	6	4
1781	Water well drilling-----	4	(D)	796	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	25	180	3 456	8 061	6 818	5 211	1 926	(S)	334	30	20
1793	Glass and glazing work-----	*12	106	1 749	4 069	(D)	2 389	2 140	(D)	(D)	24	(D)
1794	Excavation work-----	38	240	4 817	24 445	21 991	14 228	7 797	2 454	*1 457	22	21
1795	Wrecking and demolition work-----	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c. -	19	417	12 988	27 422	26 034	21 154	4 880	1 388	881	10	10
1799	Special trade contractors, n.e.c.-----	103	902	15 017	38 814	36 879	24 802	15 520	1 935	(S)	13	14



# Contents

## Virginia

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Virginia. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 50,537 establishments in this State operating in the construction industries. These establishments accounted for \$15.3 billion in total dollar value of business done.

Most of the 50,537 construction establishments were small. Of the total, 33,386 were nonemployers, and over half of the employer establishments had less than 5 employees. The 6,609 construction establishments with 5 employees or more, while representing only 13 percent of all establishments, accounted for more than 80 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$14.3 billion in total dollar value of business done. Of this amount, \$14.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$3.5 billion, leaving net value of construction work of \$10.5 billion. In addition, these establishments paid out \$5.1 billion for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$6.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 17,151 establishments with total employment averaging 143,644 during the year. Total payroll for 1992 was \$3.2 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 33,386 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$997 million. Most of these establishments, about 82 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

1992   
1987 

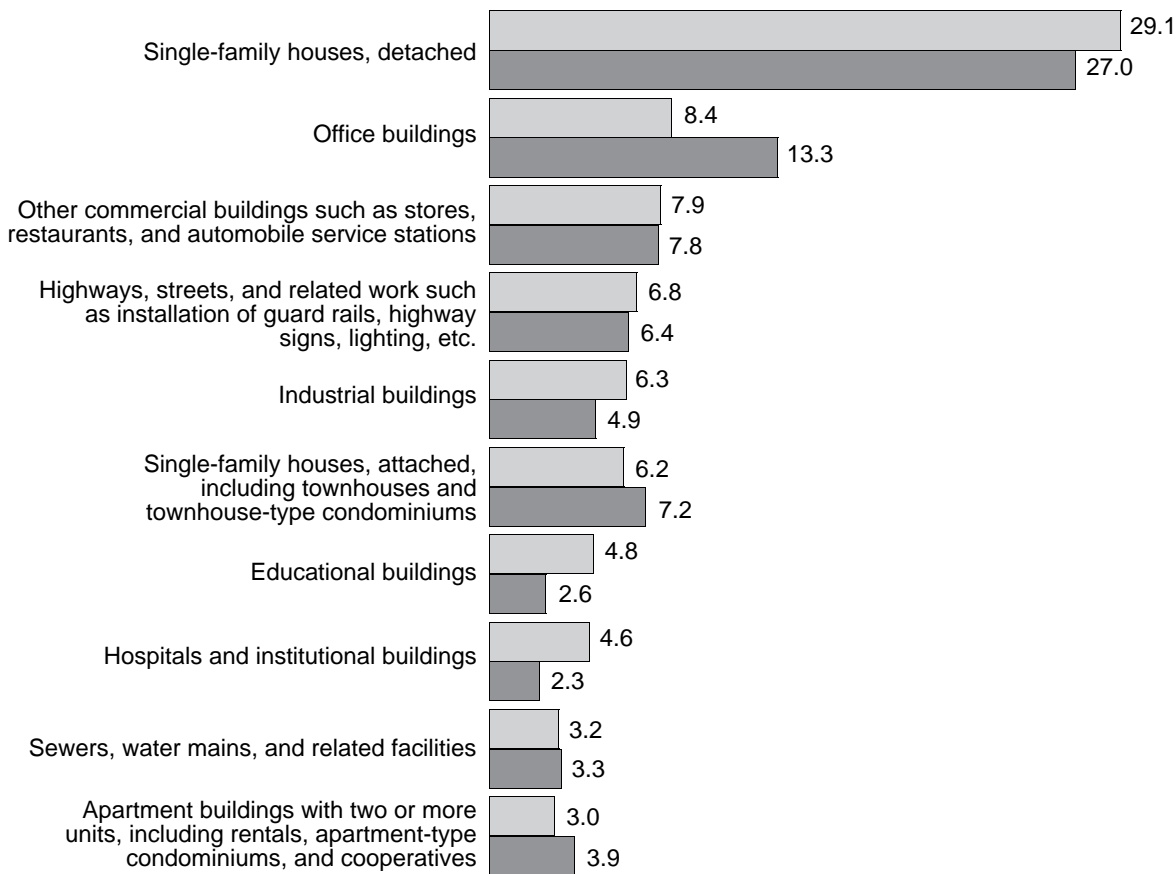


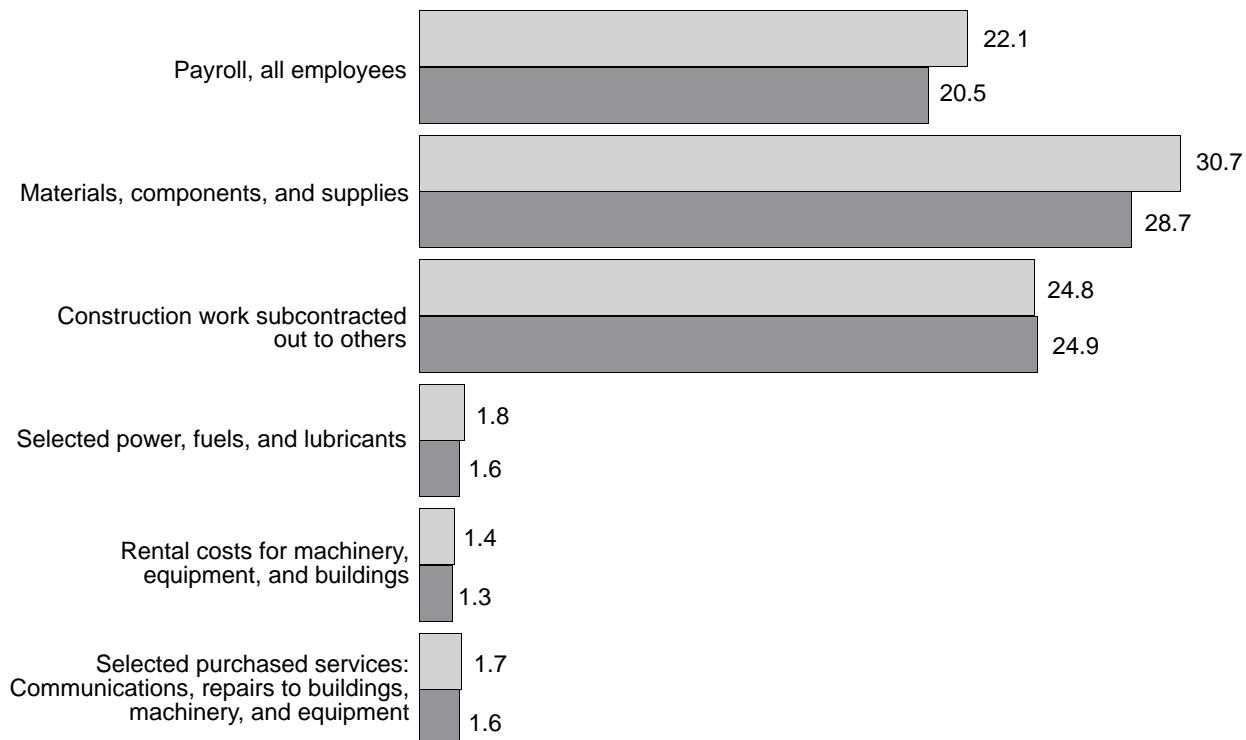


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)

1992   
1987 



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
<b>1992</b>														
15, 16, 17	Construction industries -----	50 537	39 279	143 644	15 290 546	33 386	32 228	997 111	17 151	7 051	143 644	14 293 435	1	1
15	Building construction—General contractors and operative builders ----	11 176	6 956	34 010	6 842 942	5 718	4 962	424 284	5 458	1 994	34 010	6 418 658	1	2
16	Heavy construction other than building construction—contractors -----	1 576	656	25 754	2 374 023	414	387	17 035	1 162	269	25 754	2 356 988	1	1
17	Special trade contractors -----	37 786	31 667	83 881	6 073 581	27 254	26 879	555 792	10 532	4 788	83 881	5 517 789	1	1
1711	Plumbing, heating, and air-conditioning --	4 507	3 042	18 503	1 453 241	2 339	2 280	61 233	2 168	762	18 503	1 392 008	2	1
1731	Electrical work -----	3 379	2 331	13 448	1 007 015	1 966	1 904	34 798	1 413	427	13 448	972 217	2	1
<b>1987</b>														
15, 16, 17	Construction industries <sup>2</sup> -----	52 115	39 214	171 298	18 295 113	35 489	34 788	2 243 446	16 626	4 426	171 298	16 051 667	1	1
15	Building construction—General contractors and operative builders ----	12 547	7 802	44 859	8 320 157	7 393	6 711	687 081	5 154	1 091	44 859	7 633 076	1	1
16	Heavy construction other than building construction—contractors -----	1 421	493	27 468	2 346 818	401	387	32 841	1 020	106	27 468	2 313 977	2	2
17	Special trade contractors -----	36 694	29 603	97 783	6 658 979	26 451	26 412	773 292	10 243	3 191	97 783	5 885 687	1	1
1711	Plumbing, heating, and air-conditioning --	4 188	2 720	21 062	1 489 037	2 234	2 208	83 600	1 954	512	21 062	1 405 437	2	1
1731	Electrical work -----	3 172	2 180	14 928	981 807	1 900	1 880	51 024	1 272	300	14 928	930 783	2	2

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries<sup>1</sup>.....</b>	<b>17 151</b>	<b>143 644</b>	<b>111 868</b>	<b>3 160 154</b>	<b>2 183 285</b>	<b>14 033 074</b>	<b>10 495 150</b>	<b>6 110 086</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses.....	3 654	14 307	10 597	240 756	164 293	1 403 512	1 014 818	510 060
1522	Other residential buildings.....	167	1 345	960	27 651	17 363	204 247	117 718	65 826
1531	Operative builders.....	800	5 671	2 691	160 738	51 793	2 177 750	1 411 931	858 173
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses.....	141	2 218	1 601	52 503	32 429	288 409	163 327	90 114
1542	Nonresidential buildings, n.e.c.....	696	10 469	7 361	283 974	164 774	2 215 492	846 191	381 436
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction.....	358	8 856	7 209	205 941	149 691	905 678	722 444	412 764
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction.....	29	987	836	25 829	19 333	126 648	91 448	49 892
1623	Water, sewer, and utility lines.....	292	8 438	7 199	203 119	156 625	636 711	558 734	381 968
1629	Heavy construction, n.e.c.....	483	7 473	6 094	192 658	138 628	643 173	543 077	364 907
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning.....	2 168	18 503	13 953	428 557	302 312	1 374 534	1 270 564	701 906
1721	Painting and paper hanging.....	1 156	5 554	4 640	97 665	74 945	256 904	234 934	172 663
1731	Electrical work.....	1 413	13 448	10 661	331 203	235 797	959 376	919 972	525 171
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework.....	986	7 175	6 398	112 856	93 957	304 464	(D)	168 608
1742	Plastering, drywall, and insulation work.....	468	6 885	5 724	149 324	112 635	401 947	368 674	229 416
1743	Terrazzo, tile, marble, and mosaic work.....	194	1 133	889	20 471	13 884	66 424	63 977	34 548
175	Carpentry and floor work:								
1751	Carpentry.....	1 062	5 233	4 320	95 735	73 048	331 460	290 175	177 421
1752	Floor laying and other floor work.....	362	1 619	1 180	33 275	21 949	123 301	112 397	58 069
1761	Roofing, siding, and sheet metal work.....	766	6 755	5 434	128 846	90 042	412 490	385 392	207 054
1771	Concrete work.....	661	5 490	4 609	105 792	79 460	345 643	321 344	197 935
1781	Water well drilling.....	103	625	469	14 778	9 512	50 509	(D)	29 097
179	Miscellaneous special trade contractors:								
1791	Structural steel erection.....	73	1 197	982	32 340	24 975	89 745	79 260	54 771
1793	Glass and glazing work.....	95	760	501	16 725	10 423	56 209	55 455	31 667
1794	Excavation work.....	318	2 218	1 838	45 376	34 932	178 256	148 494	97 565
1795	Wrecking and demolition work.....	14	128	103	2 661	1 889	7 267	6 711	5 295
1796	Installing building equipment, n.e.c.....	78	2 317	1 830	60 210	46 984	185 399	175 488	130 520
1799	Special trade contractors, n.e.c.....	614	4 840	3 791	91 172	61 613	287 527	260 071	173 240

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††	B	G	M	
I	J	K	L	M	N	O	P	Q				
4 645 426	3 537 923	3 984 035	200 477	186 642	2 320 362	171 298	15 218 417	6 624 200	1	1	3	15, 16, 17
												15
519 904	388 694	42 473	10 647	12 416	106 810	14 995	1 265 562	499 634	3	4	13	152
53 803	86 529	*8 645	1 434	*534	7 217	2 421	340 988	88 372	10	32	44	1522
638 015	765 819	17 672	8 227	14 456	153 664	10 224	2 776 228	851 474	5	5	32	1531
77 911	125 083	9 885	2 928	2 569	36 312	2 753	392 775	98 034	5	7	10	154
487 990	1 369 301	58 289	14 193	9 851	131 092	14 466	2 245 655	565 368	3	3	9	1542
												16
341 258	183 234	232 034	22 245	23 962	455 888	9 218	909 538	459 291	3	2	6	1611
41 620	35 200	18 671	5 297	1 089	26 413	2 440	278 343	84 944	7	6	14	162
179 277	77 977	138 277	20 657	27 365	332 806	9 849	677 443	412 314	2	2	6	1622
188 796	100 096	106 870	19 613	15 292	249 865	5 961	405 087	221 412	3	3	10	1623
												1629
												17
586 131	103 970	832 426	19 497	19 447	183 623	21 062	1 385 283	715 838	2	1	9	1711
63 074	21 970	135 829	3 834	3 409	23 622	6 218	248 746	174 181	4	4	23	1721
407 642	39 403	587 577	13 604	12 333	100 833	14 928	923 952	534 661	2	1	7	1731
(D)	(D)	232 884	4 069	4 688	45 062	8 902	369 628	240 392	4	(D)	15	174
146 479	33 272	329 225	6 026	4 055	33 898	8 202	513 328	298 943	3	3	14	1742
30 351	2 446	51 105	1 128	*665	5 976	1 495	73 017	39 531	10	7	46	1743
												175
113 548	41 285	224 175	5 533	3 907	32 029	5 962	289 388	151 165	5	4	16	1751
60 399	10 904	87 916	1 626	1 742	17 128	2 074	153 528	75 861	7	6	23	1752
179 244	27 099	207 523	6 281	5 700	56 194	7 039	377 384	210 561	3	3	20	1761
128 341	24 298	248 294	11 986	6 111	74 363	7 870	492 301	269 927	4	3	17	1771
23 445	(D)	4 173	509	469	32 473	753	50 279	26 400	7	(D)	32	1781
												179
26 556	10 486	74 506	2 710	1 400	31 851	1 896	150 433	89 538	7	6	17	1791
29 783	754	35 131	1 112	264	6 422	1 061	94 576	42 846	9	11	17	1793
56 198	29 762	100 768	6 451	7 246	86 676	3 545	276 291	184 398	6	6	18	1794
(D)	*556	4 545	234	165	*7 424	425	25 551	24 155	26	27	21	1795
51 177	9 911	82 095	4 468	2 594	37 123	1 202	105 333	73 130	1	3	6	1796
96 636	27 456	113 047	6 166	4 912	45 598	5 149	257 699	154 486	6	6	23	1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

VIRGINIA VA—7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	17 151	16 626	11 734	13 148	(Z)	1	1	2
Proprietors and working partners.....	7 051	4 426	4 174	7 837	2	3	3	4
All employees** .....	143 644	171 298	105 935	117 462	1	1	1	1
Construction workers:								
March.....	106 087	128 069	80 350	88 733	1	1	1	1
May.....	113 444	137 471	87 638	102 680	1	1	1	1
August.....	117 088	145 375	91 069	110 649	1	1	1	1
November.....	110 855	134 098	85 348	98 575	1	1	1	1
Average.....	111 868	136 253	87 157	100 232	1	1	1	1
Other employees:								
March.....	32 124	34 372	18 572	16 656	1	1	1	1
May.....	31 579	34 667	(NA)	(NA)	1	1	(NA)	(NA)
August.....	31 660	35 509	(NA)	(NA)	1	1	(NA)	(NA)
November.....	31 740	35 629	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	31 776	35 044	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees .....	3 160 154	3 287 807	1 566 101	1 177 913	(Z)	1	1	1
Payroll, construction workers .....	2 183 285	2 263 697	1 171 706	915 003	(Z)	1	1	1
Payroll, other employees .....	976 869	1 024 110	394 395	262 910	1	1	1	1
First-quarter payroll, all employees .....	716 550	728 722	350 140	239 222	1	1	1	1
Fringe benefits, all employees .....	596 478	574 532	285 260	168 738	1	1	1	1
Legally required expenditures.....	418 739	412 512	209 485	114 575	1	1	1	1
Voluntary expenditures.....	177 739	162 019	75 774	54 163	1	1	1	1
Dollar value of business done .....	14 293 435	16 051 667	6 721 709	5 110 287	1	1	1	1
Value of construction work .....	14 033 074	15 218 417	6 445 787	4 870 706	1	1	1	1
Value of construction work subcontracted in from others .....	3 984 035	3 937 361	1 693 082	1 296 053	2	2	1	1
Other business receipts .....	260 361	261 071	162 806	239 582	3	3	2	3
Net value of construction† .....	10 495 150	11 223 932	4 820 910	3 695 200	1	1	1	1
Value added†† .....	6 110 086	6 624 200	2 852 040	2 131 151	1	1	1	1
Selected costs .....	8 183 349	8 855 287	3 756 552	2 854 222	1	1	1	1
Materials, components, and supplies .....	4 394 885	4 603 748	1 983 456	1 575 870	1	1	1	1
Construction work subcontracted out to others .....	3 537 923	3 994 485	1 624 876	1 175 505	1	1	1	1
Selected power, fuels, and lubricants.....	250 541	257 054	148 219	102 847	1	1	1	1
Electricity.....	44 089	34 869	18 531	14 572	2	3	2	4
Natural gas.....	12 188	8 790	4 209	5 186	3	4	8	3
Gasoline and diesel fuel .....	178 791	197 532	115 389	70 984	1	1	1	1
On highway use.....	128 747	138 676	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use.....	50 044	58 856	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases.....	15 473	15 861	10 089	12 109	3	2	2	4
Rental cost for machinery, equipment, and buildings .....	200 477	203 361	95 475	63 080	2	2	2	1
For machinery and equipment .....	123 572	139 597	72 652	50 625	3	2	2	1
For buildings.....	76 904	63 763	22 822	12 454	3	2	2	4
Selected purchased services .....	239 731	250 240	116 256	101 028	2	2	1	1
Communication services .....	74 088	57 278	28 768	21 680	3	2	2	4
Repairs to buildings and other structures .....	9 182	14 867	5 022	3 968	5	16	4	5
Repairs to machinery and equipment .....	156 461	178 094	82 465	75 381	2	2	1	1
Ownership of construction projects:								
Value of construction work .....	14 033 074	15 218 417	6 445 787	4 870 706	1	1	1	1
Government owned .....	3 430 131	2 570 037	1 469 019	1 113 441	2	2	2	1
Federal .....	1 134 883	849 368	(NA)	(NA)	3	2	(NA)	(NA)
State and local .....	2 295 249	1 720 668	(NA)	(NA)	2	2	(NA)	(NA)
Privately owned .....	10 602 942	12 648 380	4 976 768	3 757 264	2	1	1	1

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	2 267 149	1 992 370	3	2
Capital expenditures, other than land .....	186 642	340 238	3	3
New .....	138 208	280 005	4	3
Used .....	48 435	60 232	5	7
Retirements and disposition of depreciable assets .....	133 429	123 380	6	5
End-of-year gross book value of depreciable assets .....	2 320 362	2 209 228	3	2
Depreciation charges during year .....	240 510	275 572	2	3
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	308 051	430 320	14	4
Capital expenditures, other than land .....	21 942	51 920	13	4
New buildings and other structures .....	17 562	40 374	16	4
Used buildings and other structures .....	4 379	11 545	16	13
Retirements and disposition of depreciable assets .....	(S)	29 284	(S)	13
End-of-year gross book value of depreciable assets .....	317 021	452 955	14	4
Depreciation charges during year .....	22 224	40 864	10	4
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	1 959 098	1 562 050	2	3
Capital expenditures, other than land .....	164 701	288 318	3	3
New machinery and equipment, including automobiles and trucks .....	120 645	239 631	3	3
New automobiles and trucks, intended primarily for highway use .....	50 498	101 229	5	3
Used machinery and equipment, including automobiles and trucks .....	44 055	48 687	5	8
Retirements and disposition of depreciable assets .....	120 458	94 096	5	5
End-of-year gross book value of depreciable assets .....	2 003 341	1 756 272	2	3
Depreciation charges during year .....	218 286	234 707	2	3

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	17 151	(Z)
Value of construction work .....	14 033 074	1
Establishments with inventories:		
Number .....	4 441	2
Value of construction work .....	4 945 320	1
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	199 898	13
End of 1991, materials and supplies .....	207 220	15
Establishments with no inventories:		
Number .....	7 021	2
Value of construction work .....	6 174 848	2
Establishments not reporting:		
Number .....	5 690	2
Value of construction work .....	2 912 906	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.



**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	17 151	10 542	3 412	1 727	1 045	284	116	18	5	2
All employees** .....	143 644	20 618	21 892	22 600	30 969	19 501	16 635	5 969	5 460	(D)
Payroll, all employees .....	3 160 154	312 463	395 107	488 149	739 565	488 969	439 914	149 392	146 596	(D)
Dollar value of business done .....	14 293 435	2 068 742	1 670 733	2 021 273	3 167 081	2 279 122	2 118 285	557 178	411 021	(D)
Value of construction work .....	14 033 074	2 040 006	1 649 467	1 994 865	3 096 209	2 218 005	2 077 766	550 239	406 517	(D)
Net value of construction work† .....	10 495 150	1 605 525	1 338 458	1 556 312	2 337 539	1 591 684	1 281 110	440 972	343 550	(D)
Value added†† .....	6 110 086	853 908	794 083	869 377	1 397 756	979 784	695 716	269 072	250 390	(D)
Cost of materials, components, supplies, and fuels .....	4 645 426	780 354	565 641	713 343	1 010 656	673 016	625 913	178 839	97 664	(D)
Cost of construction work subcontracted out to others .....	3 537 923	434 481	311 010	438 553	758 669	626 321	796 656	109 267	62 967	(D)
Rental cost for machinery, equipment, and buildings .....	200 477	17 356	23 165	32 724	40 317	36 527	30 531	11 384	8 472	(D)
Capital expenditures, other than land .....	186 642	(S)	27 806	25 288	37 927	32 559	23 102	12 453	1 345	(D)
End-of-year gross book value of depreciable assets .....	2 320 362	217 448	283 673	317 781	483 535	420 723	368 601	136 458	92 143	(D)
<b>1987</b>										
All employees** .....	171 298	18 739	22 436	27 960	37 865	23 575	25 650	7 862	7 208	(D)
Value of construction work .....	15 218 417	1 686 452	1 578 004	2 073 806	3 425 695	2 310 739	2 957 627	1 186 092	(D)	(D)
Value added†† .....	6 624 200	720 463	699 158	960 254	1 512 055	987 939	1 197 953	317 778	228 598	(D)
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	3	4	3	2	1	1	(Z)	(Z)	(D)
Net value of construction work† .....	1	5	4	3	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land .....	3	(S)	15	8	4	(Z)	1	(Z)	(Z)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	17 151	(S)	(S)	2 536	4 678	3 006	1 849	1 461	525	289	208
All employees** .....	143 644	(S)	(S)	4 751	15 441	16 291	17 286	25 976	17 449	15 556	27 929
Payroll, all employees .....	3 160 154	(S)	(S)	53 350	211 626	284 320	343 070	590 648	443 153	416 808	794 939
Dollar value of business done .....	14 293 435	(S)	(S)	184 565	754 733	1 052 275	1 310 702	2 238 126	1 812 992	1 976 109	4 893 077
Value of construction work .....	14 033 074	(S)	(S)	183 190	745 315	1 035 968	1 295 404	2 204 827	1 786 023	1 929 882	4 782 169
Net value of construction work† .....	10 495 150	(S)	(S)	168 977	672 535	896 651	1 085 371	1 816 447	1 407 267	1 468 358	2 914 777
Value added†† .....	6 110 086	(S)	(S)	101 876	394 848	507 982	624 962	1 023 030	804 326	860 227	1 753 442
Cost of materials, components, supplies, and fuels .....	4 645 426	(S)	(S)	68 476	287 105	404 977	475 708	826 717	629 911	654 358	1 272 244
Cost of construction work subcontracted out to others .....	3 537 923	(S)	(S)	14 213	72 780	139 317	210 032	388 379	378 756	461 524	1 867 391
Rental cost for machinery, equipment, and buildings .....	200 477	(S)	(S)	1 409	10 474	14 362	22 992	33 682	27 774	31 629	57 450
Capital expenditures, other than land .....	186 642	(S)	(S)	2 683	15 170	17 488	17 273	35 106	24 934	29 605	43 014
End-of-year gross book value of depreciable assets .....	2 320 362	(S)	(S)	30 792	110 721	170 665	223 612	383 030	332 508	381 984	673 954
<b>1987</b>											
All employees** .....	171 298	(S)	(S)	(S)	(S)	17 246	18 524	29 485	25 295	20 591	34 580
Value of construction work .....	15 218 417	(S)	(S)	(S)	(S)	898 276	1 239 697	2 452 774	2 322 579	1 991 401	5 398 036
Value added†† .....	6 624 200	(S)	(S)	(S)	(S)	450 978	608 151	1 184 068	1 051 655	886 148	1 923 490
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	(S)	6	4	4	4	2	1	1	1
Net value of construction work† .....	1	(S)	(S)	5	4	4	4	3	3	5	1
Capital expenditures, other than land .....	3	(S)	(S)	20	12	13	11	8	4	12	1

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>14 033 074</b>	<b>9 017 866</b>	<b>2 976 157</b>	<b>1 603 408</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Building construction .....	10 711 414	7 154 020	2 499 195	1 058 199	1	2	2	2
Single-family houses .....	4 952 286	3 890 081	666 462	395 743	2	3	3	4
Single-family houses, detached .....	4 084 331	3 138 797	603 177	342 357	3	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	867 955	751 284	63 285	53 386	3	3	10	8
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	414 861	266 664	80 149	68 048	12	19	9	8
Other residential buildings, including hotels, motels, and tourist cabins .....	148 035	73 712	55 398	18 926	6	8	8	19
Office buildings .....	1 183 422	584 777	443 236	155 409	1	1	3	4
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 108 532	662 345	321 517	124 669	2	2	4	4
Industrial buildings and warehouses .....	1 056 913	561 908	317 416	177 590	2	2	3	5
Industrial buildings .....	884 874	448 177	279 508	157 190	2	2	3	5
Warehouses .....	172 039	113 731	37 908	20 399	4	5	4	6
Religious buildings .....	200 698	118 514	66 871	15 312	3	3	4	7
Educational buildings .....	667 203	428 043	194 783	44 376	1	2	3	6
Hospitals and institutional buildings .....	643 363	367 267	239 127	36 969	2	1	5	3
Other nonresidential buildings .....	336 101	200 709	114 235	21 157	4	4	9	4
Nonbuilding construction .....	2 886 018	1 863 846	476 963	545 210	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	954 210	560 956	163 713	229 542	1	1	3	3
Private driveways and parking areas .....	91 428	51 767	10 431	29 231	8	10	14	12
Bridges, tunnels, and elevated highways .....	185 533	136 768	37 859	10 905	2	2	3	18
Conservation and development construction .....	161 302	123 743	16 035	21 524	10	9	20	19
Power and communication transmission lines, towers, and related facilities .....	289 550	152 827	84 422	52 301	3	3	4	2
Sewers, water mains, and related facilities .....	444 786	375 856	36 254	32 676	3	3	7	10
Sewers, sewer lines, septic systems, and related facilities .....	291 709	252 142	21 023	18 544	3	3	9	16
Water mains and related facilities .....	153 077	123 714	15 231	14 132	4	4	8	7
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	167 442	133 381	12 829	21 233	2	2	4	10
Sewage treatment and water treatment plants .....	87 214	(D)	28 988	(D)	3	(D)	8	(D)
Ships .....	84 389	(D)	13 667	(D)	4	(D)	8	(D)
Other nonbuilding construction .....	420 163	236 450	72 764	110 949	3	5	5	4
Construction work, n.s.k. ....	435 642	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>15 218 417</b>	<b>10 999 181</b>	<b>2 218 182</b>	<b>1 325 191</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
Building construction .....	11 559 951	8 871 981	1 845 133	842 838	1	1	2	2
Single-family houses .....	5 208 077	4 406 373	524 458	277 245	2	2	4	4
Single-family houses, detached .....	4 110 586	3 381 269	493 915	235 400	2	2	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	1 097 491	1 025 103	30 542	41 845	3	4	6	7
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	599 004	446 555	95 218	57 231	3	4	5	7
Other residential buildings, including hotels, motels, and tourist cabins .....	425 339	323 115	71 189	31 034	3	4	7	7
Office buildings .....	2 023 548	1 495 774	374 268	153 505	2	2	3	4
Other commercial buildings such as stores, restaurants, and automobile service stations .....	1 183 406	847 515	233 157	102 733	2	2	4	6
Industrial buildings and warehouses .....	1 031 046	697 833	202 128	131 083	2	2	4	5
Industrial buildings .....	745 849	463 906	172 046	109 896	2	2	4	5
Warehouses .....	285 197	233 927	30 082	21 187	4	5	5	5
Religious buildings .....	146 346	90 844	43 165	12 336	2	2	5	11
Educational buildings .....	392 674	243 939	123 743	24 991	2	2	4	11
Hospitals and institutional buildings .....	345 841	191 420	127 471	26 949	2	4	3	6
Other nonresidential buildings .....	204 670	128 613	50 336	26 631	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction .....	2 982 603	2 127 200	373 049	482 353	2	2	3	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	966 945	621 591	151 918	193 436	2	2	2	4
Private driveways and parking areas .....	106 008	74 211	14 665	17 131	7	7	8	17
Bridges, tunnels, and elevated highways .....	267 049	214 484	38 766	13 799	2	2	4	20
Power and communication transmission lines, towers, and related facilities .....	204 476	125 223	28 710	50 542	3	3	13	2
Sewers, water mains, and related facilities .....	503 259	399 223	44 079	59 956	3	3	8	5
Sewers, sewer lines, septic systems, and related facilities .....	339 808	262 438	31 894	45 474	2	3	5	2
Water mains and related facilities .....	163 450	136 784	12 185	14 481	5	4	16	20
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	52 931	40 539	2 598	9 793	6	4	22	19
Sewage treatment and water treatment plants .....	83 015	60 433	17 949	4 632	6	4	20	16
Other nonbuilding construction .....	798 920	591 496	74 364	133 064	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k. ....	675 863	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—						
				January to March	April to June	July to September	October to December	A	B	C	D	E	F	
				A	B	C	D	E	F	A	B	C	D	E
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>17 151</b>	<b>111 868</b>	<b>106 087</b>	<b>113 444</b>	<b>117 088</b>	<b>110 855</b>	<b>(Z)</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings:													
1521	Single-family houses -----	3 654	10 597	10 252	10 804	11 260	10 072	2	3	3	3	3	3	3
1522	Other residential buildings -----	167	960	952	993	972	922	16	11	12	11	10	11	11
1531	Operative builders -----	800	2 691	2 555	2 723	2 848	2 638	7	8	8	8	7	8	8
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	141	1 601	1 537	1 583	1 657	1 629	14	5	6	5	5	5	5
1542	Nonresidential buildings, n.e.c. ---	696	7 361	7 187	7 283	7 801	7 174	6	3	3	3	3	3	3
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction ----	358	7 209	5 878	7 571	7 945	7 440	9	3	3	3	3	3	3
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	29	836	799	850	883	812	16	7	6	7	7	7	7
1623	Water, sewer, and utility lines ----	292	7 199	6 401	7 163	7 512	7 721	8	2	2	2	2	2	2
1629	Heavy construction, n.e.c. -----	483	6 094	5 955	5 891	6 389	6 140	8	2	2	3	2	2	2
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning -----	2 168	13 953	13 426	14 116	14 299	13 972	2	2	2	2	2	2	2
1721	Painting and paper hanging -----	1 156	4 640	4 185	4 824	5 058	4 493	3	4	4	4	4	4	4
1731	Electrical work -----	1 413	10 661	10 341	10 617	11 012	10 673	2	2	2	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	986	6 398	6 179	6 682	6 463	6 269	3	4	5	5	4	4	4
1742	Plastering, drywall, and insulation work -----	468	5 724	5 565	6 084	5 752	5 496	5	3	3	3	3	3	3
1743	Terrazzo, tile, marble, and mosaic work -----	194	889	863	954	898	840	11	10	9	12	10	9	9
175	Carpentry and floor work:													
1751	Carpentry -----	1 062	4 320	4 099	4 603	4 479	4 097	4	5	5	5	5	5	5
1752	Floor laying and other floor work --	362	1 180	1 092	1 198	1 285	1 144	6	6	6	7	7	7	7
1761	Roofing, siding, and sheet metal work -----	766	5 434	5 080	5 302	5 781	5 573	4	4	4	4	4	4	4
1771	Concrete work -----	661	4 609	4 066	4 637	5 033	4 699	5	4	4	4	4	4	4
1781	Water well drilling -----	103	469	462	498	486	429	15	8	8	7	8	8	8
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	73	982	1 160	883	918	968	16	6	8	6	8	6	6
1793	Glass and glazing work -----	95	501	495	516	520	472	17	9	10	7	9	12	12
1794	Excavation work -----	318	1 838	1 652	1 829	2 002	1 870	9	6	6	6	6	6	6
1795	Wrecking and demolition work ----	14	103	110	95	85	122	25	24	25	29	26	18	18
1796	Installing building equipment, n.e.c. -----	78	1 830	2 358	1 652	1 687	1 624	4	1	1	2	2	2	2
1799	Special trade contractors, n.e.c. ---	614	3 791	3 438	4 094	4 063	3 567	7	6	6	6	6	6	6

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>8.4</b>	<b>22.0</b>	<b>125.4</b>	<b>.225</b>	<b>.331</b>	<b>.252</b>	<b>.284</b>	<b>.014</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.9	16.8	132.4	.172	.370	.277	.030	.008
1522	Other residential buildings -----	8.1	20.6	212.8	.135	.263	.424	*.042	.007
1531	Operative builders -----	7.1	28.3	809.3	.074	.293	.352	.008	.004
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	15.8	23.7	180.1	.182	.270	.434	.034	.010
1542	Nonresidential buildings, n.e.c. -----	15.0	27.1	301.0	.128	.220	.618	.026	.006
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	24.8	23.3	125.6	.227	.377	.202	.256	.025
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	33.5	26.2	151.5	.204	.329	.278	.147	.042
1623	Water, sewer, and utility lines -----	28.9	24.1	88.4	.319	.282	.122	.217	.032
1629	Heavy construction, n.e.c. -----	15.5	25.8	105.5	.300	.294	.156	.166	.030
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	8.5	23.2	98.5	.312	.426	.076	.606	.014
1721	Painting and paper hanging -----	4.8	17.6	55.4	.380	.246	.086	.529	.015
1731	Electrical work -----	9.5	24.6	90.0	.345	.425	.041	.612	.014
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	7.3	15.7	47.6	.371	(D)	(D)	.765	.013
1742	Plastering, drywall, and insulation work -----	14.7	21.7	70.2	.372	.364	.083	.819	.015
1743	Terrazzo, tile, marble, and mosaic work -----	5.8	18.1	74.7	.308	.457	.037	.769	.017
175	Carpentry and floor work:								
1751	Carpentry -----	4.9	18.3	76.7	.289	.343	.125	.676	.017
1752	Floor laying and other floor work -----	4.5	20.6	104.5	.270	.490	.088	.713	.013
1761	Roofing, siding, and sheet metal work -----	8.8	19.1	75.9	.312	.435	.066	.503	.015
1771	Concrete work -----	8.3	19.3	75.0	.306	.371	.070	.718	.035
1781	Water well drilling -----	6.1	23.6	107.7	.293	.464	(D)	.083	.010
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	16.5	27.0	91.4	.360	.296	.117	.830	.030
1793	Glass and glazing work -----	8.0	22.0	112.2	.298	.530	.013	.625	.020
1794	Excavation work -----	7.0	20.5	97.0	.255	.315	.167	.565	.036
1795	Wrecking and demolition work -----	9.0	20.8	70.6	.366	(D)	.077	.625	.032
1796	Installing building equipment, n.e.c. -----	29.9	26.0	101.3	.325	.276	.053	.443	.024
1799	Special trade contractors, n.e.c. -----	7.9	18.8	75.8	.317	.336	.095	.393	.021

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
<b>WASHINGTON-BALTIMORE, DC-MD-VA-WV CMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>17 387</b>	<b>176 268</b>	<b>4 603 770</b>	<b>20 018 974</b>	<b>14 144 696</b>	<b>8 669 507</b>	<b>6 022 675</b>	<b>5 874 278</b>	<b>192 779</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	3 588	15 929	309 642	1 698 388	1 241 643	695 235	566 367	456 745	20 692	4	4
1522	Other residential buildings .....	226	1 477	36 166	276 579	138 249	97 076	45 215	138 329	847	9	27
1531	Operative builders .....	678	7 392	236 515	2 926 613	1 717 507	1 050 013	922 273	1 209 106	11 497	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	80	1 195	31 408	165 692	90 417	48 216	43 526	75 275	1 460	11	11
1542	Nonresidential buildings, n.e.c. ....	1 059	18 505	585 079	4 356 708	1 674 712	1 048 575	758 462	2 681 996	14 054	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	245	8 767	251 414	1 021 315	792 948	491 292	332 230	228 367	25 055	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	28	1 230	30 403	128 658	93 101	59 929	33 593	35 557	1 847	3	3
1623	Water, sewer, and utility lines .....	232	7 525	195 589	624 327	542 529	356 139	190 347	81 798	17 495	2	2
1629	Heavy construction, n.e.c. ....	252	7 451	302 916	914 799	681 091	437 734	252 784	233 708	9 634	2	2
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	2 187	24 142	675 399	2 221 471	1 903 537	1 111 170	813 141	317 934	24 730	1	1
1721	Painting and paper hanging .....	1 034	6 502	127 442	311 669	286 571	209 593	78 866	25 098	3 125	5	4
1731	Electrical work .....	1 621	18 541	512 527	1 475 819	1 429 858	841 135	606 962	45 961	17 122	2	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	794	7 256	137 152	351 135	334 418	206 847	129 792	16 717	5 647	3	3
1742	Plastering, drywall, and insulation work .....	547	8 514	218 153	556 510	496 262	322 717	175 708	60 248	6 108	3	2
1743	Terrazzo, tile, marble, and mosaic work .....	193	1 107	27 990	77 320	75 029	42 743	32 750	2 291	*623	8	7
175	Carpentry and floor work:											
1751	Carpentry .....	1 287	7 068	137 931	418 740	356 845	223 581	136 642	61 895	4 777	5	5
1752	Floor laying and other floor work .....	342	1 951	46 253	196 556	178 225	82 497	99 330	18 331	1 344	6	6
1761	Roofing, siding, and sheet metal work .....	790	7 361	172 130	484 263	455 997	272 976	186 542	28 266	4 393	3	3
1771	Concrete work .....	771	8 849	182 629	650 557	590 618	337 123	256 713	59 939	10 278	3	2
1781	Water well drilling .....	45	420	11 647	35 350	35 127	23 589	11 566	(S)	1 160	4	6
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	77	1 420	43 891	120 697	112 610	72 141	41 465	8 087	2 505	7	6
1793	Glass and glazing work .....	121	1 090	28 351	86 542	83 848	44 209	41 570	2 693	311	6	5
1794	Excavation work .....	417	2 874	71 092	244 695	211 045	162 126	62 327	33 649	3 288	7	6
1795	Wrecking and demolition work .....	33	631	13 288	44 454	40 376	32 910	9 327	4 078	842	4	3
1796	Installing building equipment, n.e.c. ....	105	3 067	89 574	272 269	262 072	187 194	78 227	10 198	1 040	2	3
1799	Special trade contractors, n.e.c. ....	635	6 003	129 189	357 849	320 061	212 747	116 949	37 788	2 904	5	4
<b>Baltimore, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>6 647</b>	<b>59 167</b>	<b>1 447 718</b>	<b>6 196 218</b>	<b>4 592 118</b>	<b>2 854 549</b>	<b>1 975 464</b>	<b>1 604 100</b>	<b>74 913</b>	<b>1</b>	<b>1</b>
(See appropriate State for SIC detail.)												
<b>Hagerstown, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>347</b>	<b>3 026</b>	<b>65 872</b>	<b>283 106</b>	<b>206 110</b>	<b>114 847</b>	<b>98 262</b>	<b>76 996</b>	<b>3 806</b>	<b>5</b>	<b>5</b>
(See appropriate State for SIC detail.)												

VA-14 VIRGINIA

CONSTRUCTION—GEOGRAPHIC AREA SERIES

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA—Con.</b>											
	<b>Washington, DC—MD—VA—WV PMSA</b>											
15,16,17	<b>Construction industries .....</b>	<b>10 393</b>	<b>114 075</b>	<b>3 090 179</b>	<b>13 539 649</b>	<b>9 346 467</b>	<b>5 700 111</b>	<b>3 948 948</b>	<b>4 193 182</b>	<b>114 060</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	2 093	9 503	192 733	965 039	696 093	374 061	334 635	268 947	10 749	5	6
1522	Other residential buildings .....	142	1 016	25 381	209 532	99 368	67 967	34 552	110 164	523	9	37
1531	Operative builders .....	452	5 377	173 629	2 104 677	1 228 742	702 215	693 870	875 935	8 651	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	45	471	15 366	96 313	47 475	32 419	(D)	48 838	884	24	19
1542	Nonresidential buildings, n.e.c. ....	667	13 705	445 460	3 244 455	1 261 505	805 537	495 454	1 982 950	10 441	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction ....	145	4 973	144 149	583 830	457 271	283 120	188 816	126 559	10 146	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	*10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	162	5 245	129 511	424 257	369 281	249 331	122 119	54 976	12 942	3	2
1629	Heavy construction, n.e.c. ....	(S)	5 450	243 005	656 246	(D)	312 991	157 161	(D)	(D)	2	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	1 350	15 257	438 623	1 422 452	1 204 782	703 226	516 565	217 671	15 393	2	1
1721	Painting and paper hanging .....	637	4 279	81 944	198 314	179 801	134 149	46 864	18 513	1 493	6	4
1731	Electrical work .....	975	11 920	339 994	1 000 035	965 642	564 687	414 826	34 393	10 450	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	471	4 693	88 901	226 767	217 210	131 892	86 872	9 557	4 500	4	4
1742	Plastering, drywall, and insulation work .....	338	5 597	147 063	373 788	332 416	215 892	118 267	41 372	4 752	4	2
1743	Terrazzo, tile, marble, and mosaic work .....	131	846	21 602	62 044	59 951	33 638	26 768	2 093	(D)	9	7
175	Carpentry and floor work:											
1751	Carpentry .....	731	4 103	86 552	264 674	223 856	134 998	89 399	40 817	2 756	5	6
1752	Floor laying and other floor work ...	201	1 334	(D)	145 145	130 936	61 117	73 373	14 210	860	6	7
1761	Roofing, siding, and sheet metal work .....	409	4 396	109 476	300 776	283 762	170 788	114 107	17 014	2 404	3	3
1771	Concrete work .....	473	5 648	110 931	421 305	376 635	212 667	166 998	44 670	5 838	3	3
1781	Water well drilling .....	21	(D)	(D)	(D)	(D)	(D)	5 588	(D)	526	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	43	786	22 353	60 827	55 808	37 994	(D)	5 019	(S)	10	10
1793	Glass and glazing work .....	82	750	21 023	63 211	61 434	33 976	29 388	1 777	(D)	8	7
1794	Excavation work .....	250	1 877	44 243	166 462	140 273	105 750	44 452	26 190	1 910	9	8
1795	Wrecking and demolition work .....	10	167	3 707	(D)	(D)	12 724	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ...	52	2 399	68 420	210 083	204 030	143 129	60 901	6 053	870	3	4
1799	Special trade contractors, n.e.c. ....	369	3 659	85 383	239 475	211 441	138 336	78 984	28 035	(D)	6	5
	<b>NORFOLK—VIRGINIA BEACH—NEWPORT NEWS, VA—NC MSA</b>											
15,16,17	<b>Construction industries .....</b>	<b>3 475</b>	<b>31 916</b>	<b>661 209</b>	<b>3 264 139</b>	<b>2 370 699</b>	<b>1 311 542</b>	<b>1 107 870</b>	<b>893 440</b>	<b>37 724</b>	<b>1</b>	<b>2</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	618	1 945	32 464	281 541	189 762	80 358	111 758	91 779	(S)	9	13
1522	Other residential buildings .....	62	566	11 690	81 345	40 374	16 639	23 880	*40 971	433	17	19
1531	Operative builders .....	153	1 356	34 587	545 208	383 373	262 391	143 290	161 834	(S)	13	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	(S)	571	15 070	96 276	60 619	29 503	31 697	35 658	(S)	9	12
1542	Nonresidential buildings, n.e.c. ....	132	2 180	57 306	551 452	191 636	76 171	119 639	359 816	3 125	4	4

CONSTRUCTION—GEOGRAPHIC AREA SERIES

VIRGINIA VA—15

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—			
											A	B	C	D
	<b>NORFOLK—VIRGINIA BEACH—NEWPORT NEWS, VA—NC MSA—Con.</b>													
<b>15,16,17</b>	<b>Construction industries—Con.</b>													
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction -----	56	1 902	43 906	184 283	139 793	63 672	82 879	44 490	4 007	5	4		
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	8	329	8 677	37 456	31 907	11 472	20 450	5 549	391	(Z)	(Z)		
1622		59	1 330	27 646	93 246	84 772	54 914	30 655	8 475	2 632	6	6		
1623		87	2 419	66 520	216 101	172 139	106 150	66 529	43 962	4 275	5	4		
1629	Heavy construction, n.e.c. -----													
<b>17</b>	<b>Special trade contractors:</b>													
1711	Plumbing, heating, and air-conditioning-----	478	4 169	90 488	329 514	294 906	157 417	141 256	34 609	4 136	4	3		
1721	Painting and paper hanging-----	248	1 823	29 840	82 257	73 970	54 415	19 730	8 287	(S)	6	5		
1731	Electrical work -----	300	2 839	59 202	191 267	183 953	97 864	86 299	7 315	1 629	4	4		
174	Masonry, stone work, tile setting, and plastering: Masonry, stone setting, and other stone work-----	181	1 958	27 234	73 080	66 810	36 152	30 658	(S)	1 521	11	10		
1741		1742	137	1 440	30 229	92 321	81 340	46 963	34 948	10 980	995	7	7	
1742		1743	34	332	5 344	14 865	14 716	7 058	7 889	149	96	22	8	
1743		175	276	1 352	22 140	75 354	63 755	35 811	27 999	(S)	569	9	7	
1751	Carpentry and floor work: Carpentry-----	66	283	4 741	16 450	14 549	9 079	6 141	*1 900	*190	13	11		
1752		1761	148	1 617	28 907	93 511	90 715	48 721	42 068	2 796	2 056	7	6	
1761	Roofing, siding, and sheet metal work-----													
1771	Concrete work -----	119	1 033	17 206	55 759	51 140	30 308	21 281	4 619	(S)	12	11		
1781	Water well drilling -----	10	*56	*1 091	*4 423	*4 349	2 151	*2 198	(S)	(D)	41	46		
179	Miscellaneous special trade contractors: Structural steel erection-----	20	276	5 265	13 197	12 026	8 790	4 210	1 171	(D)	13	22		
1791		1793	28	187	3 583	18 337	18 209	9 236	9 103	128	22	21	27	
1793		1794	21	200	4 322	13 511	10 792	4 715	6 277	2 719	1 044	20	18	
1794		1795	*6	*57	*1 555	*3 462	*2 999	*2 053	*1 018	*463	*61	57	59	
1795		1796	12	210	6 757	16 849	14 650	11 877	5 573	2 199	438	10	13	
1796		1799	174	1 486	25 440	83 076	77 445	47 664	30 446	5 631	1 755	12	11	
1799		Special trade contractors, n.e.c.-----												
	<b>RICHMOND—PETERSBURG, VA MSA</b>													
<b>15,16,17</b>	<b>Construction industries-----</b>	<b>2 951</b>	<b>26 400</b>	<b>595 052</b>	<b>2 454 846</b>	<b>1 913 486</b>	<b>1 142 623</b>	<b>821 860</b>	<b>541 360</b>	<b>33 222</b>	<b>1</b>	<b>3</b>		
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>													
152	General contractors, residential buildings: Single-family houses-----	524	2 089	37 105	237 530	172 619	88 889	85 046	64 911	2 211	8	11		
1521		1522	28	(S)	2 984	(S)	(S)	(S)	(S)	(S)	*28	(S)	(S)	
1531	Operative builders-----	218	856	26 845	343 382	235 108	116 292	127 191	108 274	1 460	12	20		
154	General contractors, nonresidential buildings: Industrial buildings and warehouses-----	30	433	8 793	54 269	23 560	10 779	13 257	30 709	(D)	8	20		
1541		1542	91	1 250	33 820	308 342	115 343	56 935	59 349	192 999	2 173	8	7	
1542	Nonresidential buildings, n.e.c.-----													
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>													
1611	Highway and street construction -----	46	1 478	35 945	148 788	129 099	82 347	52 709	19 689	5 067	4	3		
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
1622		50	1 851	46 842	127 112	114 891	89 599	25 730	12 221	4 291	4	4		
1623		1629	60	1 030	27 227	113 854	91 559	60 233	36 906	22 295	2 865	5	3	
1629	Heavy construction, n.e.c. -----													

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CONSTRUCTION—GEOGRAPHIC AREA SERIES

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>RICHMOND-PETERSBURG, VA MSA—Con.</b>											
<b>15,16, 17</b>	<b>Construction industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning-----	335	3 835	94 638	301 007	277 318	155 296	123 858	23 689	2 365	3	3
1721	Painting and paper hanging-----	221	1 127	19 918	48 273	45 573	33 481	12 439	2 700	455	7	7
1731	Electrical work -----	297	2 455	59 508	152 113	146 016	84 725	63 655	6 097	2 285	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	181	1 363	21 929	54 024	51 333	29 880	21 575	2 691	(S)	8	8
1742	Plastering, drywall, and insulation work -----	76	2 081	47 612	112 715	102 674	72 618	35 536	10 041	706	4	4
1743	Terrazzo, tile, marble, and mosaic work -----	26	139	2 566	7 618	7 332	4 518	2 953	*287	67	20	14
175	Carpentry and floor work:											
1751	Carpentry-----	165	704	12 131	42 010	38 280	24 063	14 390	(S)	409	13	11
1752	Floor laying and other floor work ---	115	564	10 538	33 743	31 084	16 037	17 131	2 659	736	15	15
1761	Roofing, siding, and sheet metal work -----	152	893	15 730	52 140	48 524	26 568	22 296	3 617	660	9	8
1771	Concrete work -----	91	1 114	19 909	56 966	54 228	32 522	23 168	2 738	1 141	6	6
1781	Water well drilling -----	*13	162	3 771	10 330	(D)	6 992	5 601	(D)	(D)	14	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	17	366	11 479	42 496	36 290	23 575	13 436	6 206	422	7	4
1793	Glass and glazing work -----	9	114	3 031	8 245	(D)	4 963	4 383	(D)	57	(Z)	(D)
1794	Excavation work-----	67	528	10 951	44 732	38 652	26 111	15 867	6 080	2 983	14	14
1795	Wrecking and demolition work -----	*4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	22	555	17 867	57 793	53 216	38 381	15 810	4 577	937	5	9
1799	Special trade contractors, n.e.c.-----	113	1 083	21 872	70 236	64 099	45 387	23 529	6 138	881	11	16



# Contents

## West Virginia

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## Summary of Findings

This report provides results from the 1992 Census of Construction Industries for West Virginia. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction or construction on their own account for sale, as defined in the *1987 Standard Industrial Classification (SIC) Manual*.<sup>1</sup> The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters.

During 1992, there were 11,569 establishments in this State operating in the construction industries. These establishments accounted for \$2.2 billion in total dollar value of business done.

Most of the 11,569 construction establishments were small. Of the total, 7,974 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,132 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 78 percent of the total dollar value of business done.

### ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$2.1 billion in total dollar value of business done. Of this amount, \$2.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$283 million, leaving net value of construction work of \$1.7 billion. In addition, these establishments paid out \$779 million for the cost of materials, fuels, power, rental of equipment and buildings,

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

and the cost of selected purchased services. Value added for 1992 was \$1.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 3,595 establishments with total employment averaging 24,982 during the year. Total payroll for 1992 was \$542 million.

The data in this report covering establishments with payroll were obtained from a sample survey. 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. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done, but excluded from the value of construction work done. For 1992, receipts from the sale of land were not collected separately, but are still excluded from the value of construction work done. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

### ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 7,974 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$155 million. Most of these establishments, about 78 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in table 1 of this report.

Figure 1. **Value of Construction Work by Type of Construction**  
(Percent)

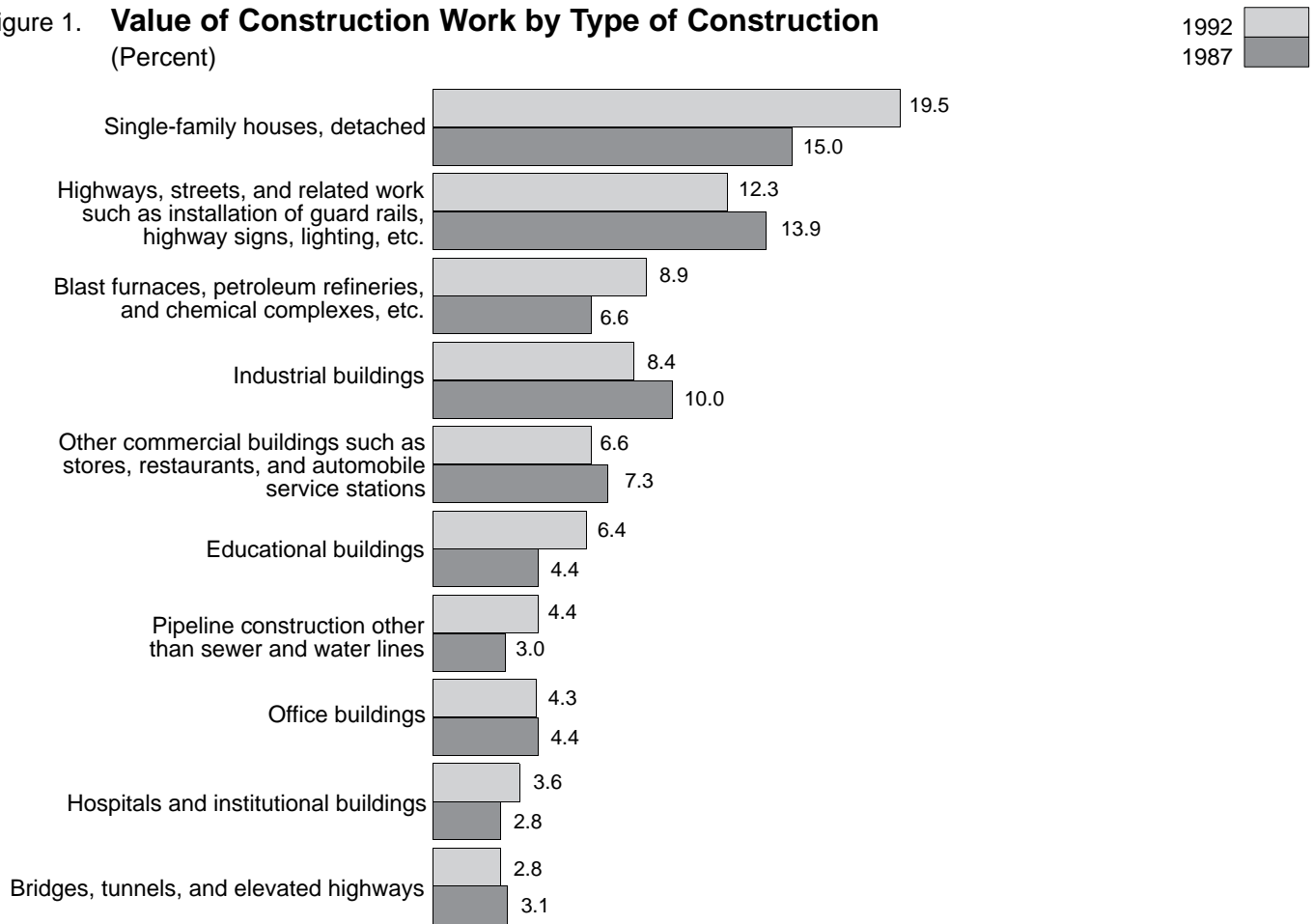
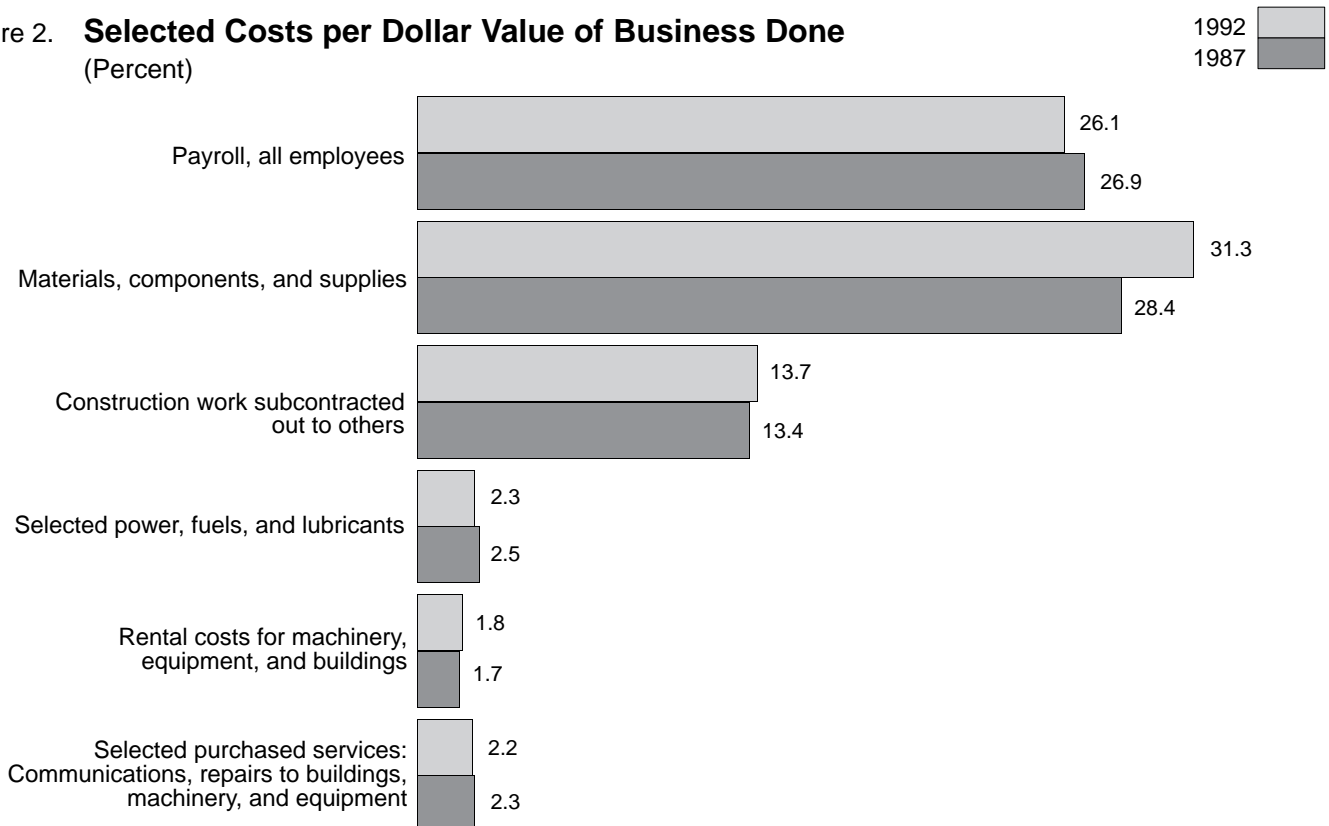


Figure 2. **Selected Costs per Dollar Value of Business Done**  
(Percent)



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done <sup>1</sup>	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			J
<b>1992</b>															
15, 16, 17	Construction industries -----	11 569	10 176	24 982	2 228 610	7 974	7 968	154 915	3 595	2 208	24 982	2 073 695	1	1	
15	Building construction—General contractors and operative builders ----	2 958	2 494	6 375	647 518	1 521	1 507	54 317	1 437	987	6 375	593 201	4	4	
16	Heavy construction other than building construction—contractors -----	556	319	7 941	754 091	221	208	5 637	335	111	7 941	748 454	2	1	
17	Special trade contractors -----	8 055	7 364	10 666	827 001	6 232	6 253	94 961	1 823	1 111	10 666	732 040	3	2	
1711	Plumbing, heating, and air-conditioning --	941	720	2 650	214 811	542	543	12 982	399	177	2 650	201 829	5	4	
1731	Electrical work -----	735	610	2 149	152 921	474	471	6 286	261	139	2 149	146 635	6	5	
<b>1987</b>															
15, 16, 17	Construction industries <sup>2</sup> -----	11 550	9 356	20 669	1 712 872	8 713	8 586	220 929	2 837	770	20 669	1 491 943	2	2	
15	Building construction—General contractors and operative builders ----	2 948	2 080	5 689	518 497	1 933	1 850	71 775	1 015	230	5 689	446 722	4	5	
16	Heavy construction other than building construction—contractors -----	492	259	6 207	523 331	178	175	13 761	314	84	6 207	509 570	2	2	
17	Special trade contractors -----	7 863	6 857	8 738	646 052	6 393	6 413	112 587	1 470	444	8 738	533 465	3	3	
1711	Plumbing, heating, and air-conditioning --	893	629	2 233	157 550	541	536	16 217	352	93	2 233	141 333	7	5	
1731	Electrical work -----	650	476	1 742	105 249	449	444	7 611	201	32	1 742	97 638	6	5	

<sup>1</sup>For 1992, nonemployer records showing revenues greater than \$1 million were excluded. See Introduction text.

<sup>2</sup>Includes data for "Land Subdividers and Developers," SIC 6552.

**Table 2. General Statistics for Establishments With Payroll by Industry: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
<b>15, 16, 17</b>	<b>Construction industries<sup>1</sup></b> .....	<b>3 595</b>	<b>24 982</b>	<b>20 244</b>	<b>541 649</b>	<b>411 521</b>	<b>1 998 433</b>	<b>1 715 113</b>	<b>1 093 773</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	1 031	3 139	2 506	42 174	32 827	220 794	175 864	88 170
1522	Other residential buildings .....	*28	*84	*75	*1 095	*906	*5 526	*4 667	*2 681
1531	Operative builders .....	116	408	273	9 412	4 115	66 201	49 332	30 156
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	69	709	564	16 006	11 772	61 953	48 589	33 378
1542	Nonresidential buildings, n.e.c. ....	194	2 035	1 615	45 852	34 490	223 044	134 836	86 021
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction .....	78	2 275	1 871	65 144	49 251	263 172	211 476	138 699
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	6	140	119	5 706	4 571	27 422	21 813	12 018
1623	Water, sewer, and utility lines .....	89	1 782	1 470	55 868	38 561	154 245	144 719	115 886
1629	Heavy construction, n.e.c. ....	162	3 744	3 145	85 566	67 165	259 820	246 449	154 687
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning .....	399	2 650	2 036	51 130	37 831	196 810	182 903	106 497
1721	Painting and paper hanging .....	95	294	262	5 467	4 224	13 906	13 608	10 342
1731	Electrical work .....	261	2 149	1 780	55 757	46 049	145 823	143 718	92 182
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework .....	177	(D)	584	6 963	6 435	(D)	(D)	18 234
1742	Plastering, drywall, and insulation work .....	30	249	211	5 613	4 512	15 640	13 584	9 612
1743	Terrazzo, tile, marble, and mosaic work .....	7	37	28	529	384	1 621	1 565	930
175	Carpentry and floor work:								
1751	Carpentry .....	188	755	609	12 602	9 743	47 805	43 702	26 971
1752	Floor laying and other floor work .....	34	112	87	1 518	1 239	4 583	4 075	2 516
1761	Roofing, siding, and sheet metal work .....	143	1 171	957	25 893	18 723	85 488	83 483	48 433
1771	Concrete work .....	123	703	544	11 160	8 565	48 485	42 862	30 152
1781	Water well drilling .....	46	100	88	1 331	1 204	7 648	7 581	4 174
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	22	252	187	4 754	3 666	16 536	15 345	9 644
1793	Glass and glazing work .....	16	95	67	2 123	1 396	7 013	6 843	3 863
1794	Excavation work .....	153	544	457	8 873	7 086	39 587	37 397	31 013
1795	Wrecking and demolition work .....	3	(D)	(D)	50	50	(D)	(D)	105
1796	Installing building equipment, n.e.c. ....	18	169	144	4 301	3 679	12 942	12 856	7 048
1799	Special trade contractors, n.e.c. ....	108	(D)	(D)	16 760	13 079	41 940	39 658	30 362

<sup>1</sup>For 1987, includes data for "Land Subdividers and Developers," SIC 6552. For 1992, SIC 6552 data are included in the Census of Financial, Insurance, and Real Estate Industries.

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
696 603	283 320	407 509	36 630	48 532	465 601	20 669	1 440 174	825 347	1	1	6	15, 16, 17
91 723 *2 139	(S) *860	7 291 (S)	1 750 (S)	3 718 —	16 808 (S)	2 440 302	139 313 25 915	65 780 8 993	7 47	7 63	24 —	152 1521 1522
26 295	(S)	257	149	(S)	3 719	305	38 457	18 738	19	21	(S)	1531
16 363 52 044	13 364 88 208	1 465 5 643	698 2 784	343 2 720	9 346 24 767	685 1 957	53 197 176 259	28 778 72 440	14 8	10 5	21 18	154 1541 1542
104 710	51 696	49 196	7 953	10 481	151 129	1 793	209 236	121 143	3	3	2	1611
9 869 31 430 100 953	5 609 9 526 13 371	— 7 386 58 283	601 5 477 8 014	376 5 920 10 659	10 513 63 812 67 864	290 1 769 2 355	31 295 100 584 146 887	15 174 77 029 106 930	(Z) 3 3	(Z) 2 3	(Z) 10 19	162 1622 1623 1629
81 425	13 907	82 143	2 183	2 811	21 234	2 233	138 243	75 795	5	5	26	1711
(D)	298	(D)	410	219	2 965	289	14 615	11 548	23	19	39	1721
52 348	2 105	67 390	(S)	(S)	16 201	1 742	96 078	64 001	6	5	(S)	1731
9 773 4 010 (D)	(D) *2 056 56	*26 245 *12 862 136	*351 420 *60	*811 (S) 21	4 053 *3 046 *267	484 331 39	12 511 19 425 3 165	9 265 13 316 2 023	(D) 22 22	(D) 12 21	41 (S) 14	174 1741 1742 1743
17 168 (D)	4 104 508	22 259 2 425	620 43	848 *82	4 952 620	398 *100	18 513 6 172	10 341 *2 748	13 10	15 8	30 41	175 1751 1752
36 826	2 005	19 827	922	1 708	14 918	935	55 959	33 798	7	5	27	1761
14 165	5 622	(S)	(D)	815	10 304	634	42 104	22 503	14	10	32	1771
3 407	67	370	(S)	*385	5 073	152	8 480	4 201	24	22	42	1781
5 701 3 874 9 436 75 5 808 10 284	1 191 170 2 190 (D) (D) 2 283	7 629 4 833 (S) (D) (D) 4 036	*831 77 563 (D) (D) (D)	*129 *87 1 826 (D) (D) *1 275	2 779 724 22 936 (D) (D) *6 250	191 82 431 42 202 453	10 555 5 590 32 213 (D) 33 729 18 479	8 459 3 085 21 636 1 882 14 444 10 869	23 4 17 (D) (Z) (D)	21 4 14 (D) (Z) 12	47 71 22 (D) (D) 61	179 1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

WEST VIRGINIA WV-7

**Table 3. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year .....	3 595	2 837	3 075	3 736	1	2	3	4
Proprietors and working partners.....	2 208	770	1 201	2 435	3	8	6	7
All employees** .....	24 982	20 669	23 068	30 801	1	2	2	2
Construction workers:								
March.....	16 843	14 391	17 812	22 725	2	2	2	2
May.....	20 637	17 046	20 071	29 149	1	2	2	2
August.....	22 459	19 210	20 697	29 685	2	2	2	2
November.....	21 038	17 587	19 239	27 032	2	2	2	2
Average.....	20 244	17 059	19 789	27 168	1	2	2	2
Other employees:								
March.....	4 635	3 534	3 235	3 475	2	3	2	5
May.....	4 561	3 574	(NA)	(NA)	2	3	(NA)	(NA)
August.....	4 796	3 748	(NA)	(NA)	2	3	(NA)	(NA)
November.....	4 960	3 586	(NA)	(NA)	3	3	(NA)	(NA)
Average.....	4 738	3 610	(NA)	(NA)	2	3	(NA)	(NA)
Payroll, all employees .....	541 649	401 356	413 918	369 459	1	1	1	1
Payroll, construction workers .....	411 521	309 579	344 602	312 001	1	1	1	1
Payroll, other employees .....	130 128	91 776	69 316	57 458	2	2	2	3
First-quarter payroll, all employees .....	108 560	76 136	89 091	67 734	2	2	2	1
Fringe benefits, all employees .....	144 170	93 030	81 005	75 442	2	2	1	7
Legally required expenditures.....	94 348	61 960	54 871	40 953	2	2	2	5
Voluntary expenditures.....	49 822	31 069	26 133	34 489	3	2	1	10
Dollar value of business done .....	2 073 695	1 491 943	1 284 769	1 170 625	1	2	2	2
Value of construction work .....	1 998 433	1 440 174	1 236 899	1 107 206	1	2	2	1
Value of construction work subcontracted in from others .....	407 509	214 993	264 364	210 391	5	5	3	2
Other business receipts .....	75 262	45 486	43 590	63 419	5	4	3	5
Net value of construction† .....	1 715 113	1 240 308	1 071 405	972 374	1	2	2	1
Value added†† .....	1 093 773	825 347	741 182	634 943	1	2	1	1
Selected costs .....	979 922	630 312	539 307	523 149	2	3	2	2
Materials, components, and supplies .....	648 666	423 681	337 514	363 696	2	2	2	2
Construction work subcontracted out to others .....	283 320	199 865	165 494	134 832	3	5	3	3
Selected power, fuels, and lubricants.....	47 936	36 765	36 298	24 622	3	3	3	2
Electricity.....	4 841	3 887	3 077	3 286	4	3	6	5
Natural gas.....	2 112	2 274	2 377	1 624	5	12	4	8
Gasoline and diesel fuel .....	38 392	27 525	28 132	16 907	3	3	3	2
On highway use.....	22 228	16 970	(NA)	(NA)	3	3	(NA)	(NA)
Off highway use.....	16 164	10 554	(NA)	(NA)	4	6	(NA)	(NA)
Other, including lubricating oils and greases.....	2 591	3 078	2 711	2 805	6	9	5	5
Rental cost for machinery, equipment, and buildings .....	36 630	25 846	20 010	13 584	6	5	4	2
For machinery and equipment .....	28 555	20 433	15 974	11 779	8	5	4	2
For buildings.....	8 075	5 412	4 035	1 805	6	8	7	5
Selected purchased services .....	46 037	34 448	30 759	30 308	5	4	3	9
Communication services .....	9 824	6 336	6 023	4 809	4	4	4	4
Repairs to buildings and other structures .....	1 886	1 734	919	1 403	7	30	7	10
Repairs to machinery and equipment .....	34 326	26 377	23 816	24 096	5	4	3	11
Ownership of construction projects:								
Value of construction work .....	1 998 433	1 440 174	1 236 899	1 107 206	1	2	2	1
Government owned .....	557 388	398 675	268 256	210 922	5	3	5	1
Federal .....	118 372	133 353	(NA)	(NA)	7	6	(NA)	(NA)
State and local .....	439 016	265 321	(NA)	(NA)	6	4	(NA)	(NA)
Privately owned .....	1 441 045	1 041 498	968 642	896 284	3	3	2	2

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 4. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>				
Beginning-of-year gross book value of depreciable assets .....	445 305	293 689	4	5
Capital expenditures, other than land .....	48 532	39 628	6	6
New .....	34 299	30 990	6	6
Used .....	14 232	8 638	10	14
Retirements and disposition of depreciable assets .....	28 236	25 159	11	37
End-of-year gross book value of depreciable assets .....	465 601	308 158	3	4
Depreciation charges during year .....	52 181	32 365	5	5
<b>Buildings and Other Structures, Additions, and Related Facilities</b>				
Beginning-of-year gross book value of depreciable assets .....	43 554	39 912	7	9
Capital expenditures, other than land .....	3 404	2 970	16	15
New buildings and other structures .....	2 481	2 140	18	17
Used buildings and other structures .....	923	829	32	26
Retirements and disposition of depreciable assets .....	1 255	921	36	14
End-of-year gross book value of depreciable assets .....	45 703	41 961	6	8
Depreciation charges during year .....	3 882	3 650	11	9
<b>Machinery and Equipment</b>				
Beginning-of-year gross book value of depreciable assets .....	401 751	253 776	4	5
Capital expenditures, other than land .....	45 127	36 658	6	7
New machinery and equipment, including automobiles and trucks .....	31 818	28 849	7	7
New automobiles and trucks, intended primarily for highway use .....	11 070	8 480	9	9
Used machinery and equipment, including automobiles and trucks .....	13 309	7 809	11	16
Retirements and disposition of depreciable assets .....	26 980	24 238	11	38
End-of-year gross book value of depreciable assets .....	419 898	266 197	4	4
Depreciation charges during year .....	48 299	28 715	5	5

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 5. Value of Inventories for Establishments With Payroll: 1992 and 1991**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	3 595	1
Value of construction work .....	1 998 433	1
Establishments with inventories:		
Number .....	895	5
Value of construction work .....	757 106	2
Inventories <sup>1</sup> :		
End of 1992, materials and supplies .....	24 215	9
End of 1991, materials and supplies .....	24 704	8
Establishments with no inventories:		
Number .....	1 511	4
Value of construction work .....	707 497	2
Establishments not reporting:		
Number .....	1 189	4
Value of construction work .....	533 829	3

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.



**Table 6. Selected Statistics for Establishments With Payroll by Employment Size Class: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1992</b>										
Number of establishments .....	3 595	2 464	583	334	155	38	16	4		
All employees** .....	24 982	4 491	3 728	4 284	4 669	2 660	2 292	2 858	(D)	—
Payroll, all employees .....	541 649	55 430	63 495	86 622	118 618	79 249	65 115	73 119	(D)	—
Dollar value of business done .....	2 073 695	345 546	241 829	321 369	445 255	288 404	163 097	268 196	(D)	—
Value of construction work .....	1 998 433	338 007	231 428	312 867	433 486	285 781	152 131	244 734	(D)	—
Net value of construction work† .....	1 715 113	287 533	205 321	278 452	355 476	238 752	349 580	(D)	(D)	—
Value added‡ .....	1 093 773	165 809	126 257	168 634	220 089	138 842	118 276	155 865	(D)	—
Cost of materials, components, supplies, and fuels .....	696 603	129 262	89 465	118 319	147 155	102 533	109 867	(D)	(D)	—
Cost of construction work subcontracted out to others .....	283 320	(S)	26 106	34 415	78 010	47 029	47 285	(D)	(D)	—
Rental cost for machinery, equipment, and buildings .....	36 630	5 178	2 810	7 945	7 896	3 815	3 839	5 147	(D)	—
Capital expenditures, other than land .....	48 532	6 139	4 857	9 307	10 260	8 105	1 730	8 134	(D)	—
End-of-year gross book value of depreciable assets .....	465 601	53 984	41 362	75 999	89 382	83 991	56 766	64 116	(D)	—
<b>1987</b>										
All employees** .....	20 669	(S)	3 585	4 065	4 368	1 966	3 400	(D)	(D)	—
Value of construction work .....	1 440 174	(S)	217 021	233 919	358 727	168 957	248 281	(D)	(D)	—
Value added‡ .....	825 347	(S)	111 680	134 683	197 091	91 020	182 621	(D)	(D)	—
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	6	9	8	4	4	(Z)	(Z)	(D)	—
Net value of construction work† .....	1	7	9	7	2	1	(Z)	(Z)	(D)	—
Capital expenditures, other than land .....	6	15	23	19	5	(Z)	(Z)	(Z)	(D)	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 7. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1992</b>											
Number of establishments .....	3 595	(S)	(S)	548	1 032	515	362	216	78	38	27
All employees** .....	24 982	(S)	666	1 018	3 159	2 633	3 464	3 797	2 655	2 414	4 965
Payroll, all employees .....	541 649	(S)	(S)	9 778	38 230	40 604	64 408	90 759	66 022	74 994	150 315
Dollar value of business done .....	2 073 695	(S)	18 340	40 120	165 371	172 183	253 513	332 983	268 310	260 203	558 635
Value of construction work .....	1 998 433	(S)	18 124	39 368	162 946	168 278	244 105	318 153	264 618	256 376	522 461
Net value of construction work† .....	1 715 113	(S)	16 798	36 553	147 658	145 646	217 248	286 606	213 281	209 325	438 284
Value added‡ .....	1 093 773	(S)	10 471	22 471	88 084	83 757	129 823	183 193	128 580	143 856	301 425
Cost of materials, components, supplies, and fuels .....	696 603	(S)	6 544	14 834	61 999	65 793	96 832	118 243	88 393	69 296	173 033
Cost of construction work subcontracted out to others .....	283 320	(S)	(S)	(S)	(S)	22 633	26 857	(S)	51 337	47 051	84 177
Rental cost for machinery, equipment, and buildings .....	36 630	(S)	(S)	248	3 215	2 822	4 254	4 879	6 764	6 679	7 313
Capital expenditures, other than land .....	48 532	(S)	(S)	914	4 628	3 992	5 751	7 840	7 453	4 901	12 654
End-of-year gross book value of depreciable assets .....	465 601	(S)	*3 706	5 370	36 141	31 300	40 543	61 596	80 078	63 975	142 370
<b>1987</b>											
All employees** .....	20 669	(S)	(S)	(S)	(S)	2 542	2 853	3 213	2 681	1 916	2 827
Value of construction work .....	1 440 174	(S)	(S)	(S)	(S)	140 591	177 122	276 506	218 135	176 301	280 525
Value added‡ .....	825 347	(S)	(S)	(S)	(S)	72 775	100 639	153 025	127 296	105 842	172 560
<b>1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	(S)	14	13	9	11	9	6	3	(Z)	(Z)
Net value of construction work† .....	1	(S)	11	10	8	10	9	7	4	(Z)	(Z)
Capital expenditures, other than land .....	6	(S)	32	18	25	26	15	3	(Z)	(Z)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 8. Value of Construction Work for Establishments With Payroll by Type of Construction: 1992 and 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>1992</b>								
<b>Value of construction work</b> .....	<b>1 998 433</b>	<b>1 062 426</b>	<b>470 925</b>	<b>368 665</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>
Building construction .....	1 091 422	630 458	312 313	148 651	3	4	4	4
Single-family houses .....	418 125	290 926	93 087	34 112	6	7	10	11
Single-family houses, detached .....	389 801	268 142	90 349	31 310	6	8	10	11
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	28 324	22 784	2 738	(S)	16	18	28	(S)
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	18 473	6 744	9 253	2 476	17	18	30	10
Office buildings .....	84 941	42 594	29 625	12 722	8	8	11	22
Other commercial buildings such as stores, restaurants, and automobile service stations .....	131 927	67 859	43 485	20 583	7	12	8	12
Industrial buildings and warehouses .....	193 391	71 819	66 595	54 977	4	6	6	4
Industrial buildings .....	168 297	61 817	54 680	51 800	3	6	4	4
Warehouses .....	25 094	10 002	11 914	(S)	15	14	19	(S)
Religious buildings .....	17 233	(S)	8 055	3 234	11	(S)	15	15
Educational buildings .....	128 530	83 915	33 289	11 326	6	5	18	14
Hospitals and institutional buildings .....	71 320	45 737	20 538	5 045	6	7	8	5
Other nonresidential buildings .....	27 483	14 921	8 386	4 175	10	9	18	12
Nonbuilding construction .....	810 595	431 969	158 612	220 014	1	2	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	246 232	147 479	32 044	66 709	3	2	8	6
Private driveways and parking areas .....	(S)	(S)	*2 225	(S)	(S)	(S)	55	(S)
Bridges, tunnels, and elevated highways .....	56 646	47 094	3 385	6 168	1	(Z)	5	9
Conservation and development construction .....	47 635	30 918	4 328	12 389	11	12	20	24
Power and communication transmission lines, towers, and related facilities .....	34 361	17 468	8 248	(S)	17	22	20	(S)
Sewers, water mains, and related facilities .....	55 471	46 458	5 698	3 316	3	2	7	22
Sewers, sewer lines, septic systems, and related facilities .....	28 396	23 127	3 409	1 860	5	4	8	34
Water mains and related facilities .....	27 075	23 331	2 289	(S)	3	2	9	(S)
Pipeline construction other than sewer or water lines .....	88 275	61 332	18 794	8 150	2	3	1	1
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	177 199	32 811	55 837	88 552	1	(Z)	2	2
Power plants .....	23 795	5 052	2 211	16 532	4	10	34	1
Sewage treatment and water treatment plants .....	20 762	16 489	2 475	1 799	1	(Z)	3	3
Other nonbuilding construction .....	47 891	18 816	23 368	5 707	11	20	4	33
Construction work, n.s.k. ....	96 416	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
<b>1987</b>								
<b>Value of construction work</b> .....	<b>1 440 174</b>	<b>791 670</b>	<b>307 667</b>	<b>236 456</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>
Building construction .....	736 216	414 848	216 743	102 110	3	5	4	5
Single-family houses .....	233 979	143 981	61 731	28 266	7	9	11	11
Single-family houses, detached .....	216 282	132 134	58 481	25 665	7	9	12	11
Single-family houses, attached, including townhouses and townhouse-type condominiums .....	17 697	11 846	*3 250	2 600	30	26	49	39
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives .....	21 491	14 126	2 881	4 482	12	14	35	28
Office buildings .....	63 433	32 766	23 710	6 956	5	7	9	7
Other commercial buildings such as stores, restaurants, and automobile service stations .....	105 282	65 819	22 555	16 906	6	8	7	11
Industrial buildings and warehouses .....	163 426	70 482	60 256	32 687	5	8	5	9
Industrial buildings .....	143 410	56 091	55 815	31 503	6	10	5	9
Warehouses .....	20 016	14 390	4 440	1 184	8	10	15	16
Religious buildings .....	11 715	4 927	4 911	1 876	14	18	26	19
Educational buildings .....	63 739	45 151	14 825	3 762	23	32	16	19
Hospitals and institutional buildings .....	40 544	21 190	15 258	4 095	5	5	11	4
Other nonresidential buildings .....	32 607	18 180	10 877	3 556	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction .....	599 578	375 047	90 661	133 869	2	2	3	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc. ....	200 395	116 069	29 375	54 950	3	3	2	6
Private driveways and parking areas .....	15 413	10 641	1 894	2 876	21	21	23	36
Bridges, tunnels, and elevated highways .....	44 901	(D)	(D)	(D)	7	(D)	(D)	(D)
Conservation and development construction .....	15 969	10 710	2 196	3 061	7	(Z)	37	16
Power and communication transmission lines, towers, and related facilities .....	26 167	11 449	6 981	7 737	14	24	20	22
Sewers, water mains, and related facilities .....	59 911	47 345	7 485	5 081	10	10	9	26
Sewers, sewer lines, septic systems, and related facilities .....	32 531	26 182	3 879	2 469	10	10	12	22
Water mains and related facilities .....	27 380	21 163	3 605	*2 611	17	17	8	45
Pipeline construction other than sewer or water lines .....	43 112	23 445	4 707	14 959	4	4	12	8
Blast furnaces, petroleum refineries, chemical complexes, etc. ....	95 757	64 639	16 015	15 102	2	2	3	6
Power plants .....	22 476	*1 750	5 772	14 954	11	73	32	3
Sewage treatment and water treatment plants .....	24 584	19 425	2 702	2 457	9	8	11	39
Other nonbuilding construction .....	50 893	(D)	(D)	(D)	19	(D)	(D)	(D)
Construction work, n.s.k. ....	104 378	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Financial, Insurance, and Real Estate Industries.

**Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers <sup>1</sup>				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December	A	B	C	D	E	F
				A	B	C	D	E	F	A	B	C	D
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>3 595</b>	<b>20 244</b>	<b>16 843</b>	<b>20 637</b>	<b>22 459</b>	<b>21 038</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>												
152	General contractors, residential buildings:												
1521	Single-family houses -----	1 031	2 506	2 173	2 529	2 807	2 514	4	7	7	7	7	7
1522	Other residential buildings -----	*28	*75	*37	*62	*105	*96	42	46	61	51	48	50
1531	Operative builders -----	116	273	279	277	320	216	17	21	22	19	23	24
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	69	564	506	576	567	606	25	13	12	14	14	12
1542	Nonresidential buildings, n.e.c. ---	194	1 615	1 277	1 587	1 941	1 654	14	8	8	9	9	9
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>												
1611	Highway and street construction ----	78	1 871	1 289	2 168	2 117	1 908	13	2	3	2	2	3
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	6	119	80	115	147	132	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1623	Water, sewer, and utility lines -----	89	1 470	1 229	1 379	1 593	1 679	15	3	3	3	3	5
1629	Heavy construction, n.e.c. -----	162	3 145	2 367	3 365	3 306	3 543	14	3	4	3	3	2
<b>17</b>	<b>Special trade contractors:</b>												
1711	Plumbing, heating, and air-conditioning -----	399	2 036	1 861	1 943	2 212	2 125	3	5	5	5	5	5
1721	Painting and paper hanging -----	95	262	210	269	330	240	15	22	26	22	19	21
1731	Electrical work -----	261	1 780	1 642	1 867	1 908	1 703	6	6	6	6	6	7
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	177	584	582	625	565	566	6	12	15	12	12	13
1742	Plastering, drywall, and insulation work -----	30	211	243	213	185	206	36	25	23	26	30	25
1743	Terrazzo, tile, marble, and mosaic work -----	7	28	25	28	28	29	22	24	26	24	24	23
175	Carpentry and floor work:												
1751	Carpentry -----	188	609	594	615	674	552	9	13	13	13	14	14
1752	Floor laying and other floor work --	34	87	68	77	108	94	6	9	12	11	7	8
1761	Roofing, siding, and sheet metal work -----	143	957	785	857	1 115	1 071	6	7	7	7	7	8
1771	Concrete work -----	123	544	342	494	739	601	10	14	16	13	14	18
1781	Water well drilling -----	46	88	79	83	94	94	16	27	29	28	25	25
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	22	187	159	181	211	197	17	24	33	28	25	20
1793	Glass and glazing work -----	16	67	66	64	74	65	(Z)	6	6	6	5	6
1794	Excavation work -----	153	457	362	482	478	506	14	16	16	19	17	16
1795	Wrecking and demolition work -----	3	(D)	9	9	(D)	(D)	(Z)	(D)	(Z)	(Z)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	18	144	120	131	173	151	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1799	Special trade contractors, n.e.c. ---	108	(D)	462	641	(D)	(D)	18	(D)	12	9	(D)	(D)

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.

**Table 10. Selected Industry Ratios for Establishments With Payroll in This State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
<b>15, 16, 17</b>	<b>Construction industries -----</b>	<b>6.9</b>	<b>21.7</b>	<b>98.7</b>	<b>.271</b>	<b>.349</b>	<b>.142</b>	<b>.204</b>	<b>.018</b>
<b>15</b>	<b>Building construction—General contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.0	13.4	88.1	.191	.415	(S)	.033	.008
1522	Other residential buildings -----	3.0	13.0	* 73.7	.198	.387	.156	(S)	(S)
1531	Operative builders -----	3.5	23.1	242.5	.142	.397	(S)	.004	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	10.3	22.6	109.8	.258	.264	.216	.024	.011
1542	Nonresidential buildings, n.e.c. -----	10.5	22.5	138.1	.206	.233	.395	.025	.012
<b>16</b>	<b>Heavy construction other than building construction—contractors:</b>								
1611	Highway and street construction -----	29.0	28.6	140.7	.248	.398	.196	.187	.030
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	23.3	40.8	230.4	.208	.360	.205	—	.022
1623	Water, sewer, and utility lines -----	20.0	31.4	104.9	.362	.204	.062	.048	.036
1629	Heavy construction, n.e.c. -----	23.1	22.9	82.6	.329	.389	.051	.224	.031
<b>17</b>	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air-conditioning -----	6.6	19.3	96.7	.260	.414	.071	.417	.011
1721	Painting and paper hanging -----	3.1	18.6	53.1	.393	(D)	.021	(D)	.029
1731	Electrical work -----	8.2	25.9	81.9	.382	.359	.014	.462	(S)
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1742	Plastering, drywall, and insulation work -----	8.3	22.5	74.1	.359	.256	*.131	.822	.027
1743	Terrazzo, tile, marble, and mosaic work -----	5.3	14.3	57.9	.326	(D)	.035	.084	*.037
175	Carpentry and floor work:								
1751	Carpentry -----	4.0	16.7	78.5	.264	.359	.086	.466	.013
1752	Floor laying and other floor work -----	3.3	13.6	52.7	.331	(D)	.111	.529	.009
1761	Roofing, siding, and sheet metal work -----	8.2	22.1	89.3	.303	.431	.023	.232	.011
1771	Concrete work -----	5.7	15.9	89.1	.230	.292	.116	(S)	(D)
1781	Water well drilling -----	2.2	13.3	86.9	.174	.445	.009	(S)	*.029
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	11.6	18.9	88.4	.287	.345	.072	.461	*.050
1793	Glass and glazing work -----	5.9	22.3	104.7	.303	.552	.024	.689	.011
1794	Excavation work -----	3.5	16.3	86.6	.224	.238	.055	(S)	.014
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	9.4	25.5	89.9	.332	.449	.007	.187	.009
1799	Special trade contractors, n.e.c. -----	(D)	(D)	(D)	.400	.245	.054	.096	(D)

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
<b>WASHINGTON-BALTIMORE, DC-MD-VA-WV CMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>17 387</b>	<b>176 268</b>	<b>4 603 770</b>	<b>20 018 974</b>	<b>14 144 696</b>	<b>8 669 507</b>	<b>6 022 675</b>	<b>5 874 278</b>	<b>192 779</b>	<b>1</b>	<b>1</b>
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	3 588	15 929	309 642	1 698 388	1 241 643	695 235	566 367	456 745	20 692	4	4
1522	Other residential buildings .....	226	1 477	36 166	276 579	138 249	97 076	45 215	138 329	847	9	27
1531	Operative builders .....	678	7 392	236 515	2 926 613	1 717 507	1 050 013	922 273	1 209 106	11 497	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	80	1 195	31 408	165 692	90 417	48 216	43 526	75 275	1 460	11	11
1542	Nonresidential buildings, n.e.c. ....	1 059	18 505	585 079	4 356 708	1 674 712	1 048 575	758 462	2 681 996	14 054	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	245	8 767	251 414	1 021 315	792 948	491 292	332 230	228 367	25 055	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	28	1 230	30 403	128 658	93 101	59 929	33 593	35 557	1 847	3	3
1623	Water, sewer, and utility lines .....	232	7 525	195 589	624 327	542 529	356 139	190 347	81 798	17 495	2	2
1629	Heavy construction, n.e.c. ....	252	7 451	302 916	914 799	681 091	437 734	252 784	233 708	9 634	2	2
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	2 187	24 142	675 399	2 221 471	1 903 537	1 111 170	813 141	317 934	24 730	1	1
1721	Painting and paper hanging .....	1 034	6 502	127 442	311 669	286 571	209 593	78 866	25 098	3 125	5	4
1731	Electrical work .....	1 621	18 541	512 527	1 475 819	1 429 858	841 135	606 962	45 961	17 122	2	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	794	7 256	137 152	351 135	334 418	206 847	129 792	16 717	5 647	3	3
1742	Plastering, drywall, and insulation work .....	547	8 514	218 153	556 510	496 262	322 717	175 708	60 248	6 108	3	2
1743	Terrazzo, tile, marble, and mosaic work .....	193	1 107	27 990	77 320	75 029	42 743	32 750	2 291	*623	8	7
175	Carpentry and floor work:											
1751	Carpentry .....	1 287	7 068	137 931	418 740	356 845	223 581	136 642	61 895	4 777	5	5
1752	Floor laying and other floor work .....	342	1 951	46 253	196 556	178 225	82 497	99 330	18 331	1 344	6	6
1761	Roofing, siding, and sheet metal work .....	790	7 361	172 130	484 263	455 997	272 976	186 542	28 266	4 393	3	3
1771	Concrete work .....	771	8 849	182 629	650 557	590 618	337 123	256 713	59 939	10 278	3	2
1781	Water well drilling .....	45	420	11 647	35 350	35 127	23 589	11 566	(S)	1 160	4	6
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	77	1 420	43 891	120 697	112 610	72 141	41 465	8 087	2 505	7	6
1793	Glass and glazing work .....	121	1 090	28 351	86 542	83 848	44 209	41 570	2 693	311	6	5
1794	Excavation work .....	417	2 874	71 092	244 695	211 045	162 126	62 327	33 649	3 288	7	6
1795	Wrecking and demolition work .....	33	631	13 288	44 454	40 376	32 910	9 327	4 078	842	4	3
1796	Installing building equipment, n.e.c. ....	105	3 067	89 574	272 269	262 072	187 194	78 227	10 198	1 040	2	3
1799	Special trade contractors, n.e.c. ....	635	6 003	129 189	357 849	320 061	212 747	116 949	37 788	2 904	5	4
<b>Baltimore, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>6 647</b>	<b>59 167</b>	<b>1 447 718</b>	<b>6 196 218</b>	<b>4 592 118</b>	<b>2 854 549</b>	<b>1 975 464</b>	<b>1 604 100</b>	<b>74 913</b>	<b>1</b>	<b>1</b>
(See appropriate State for SIC detail.)												
<b>Hagerstown, MD PMSA</b>												
15,16,17	<b>Construction industries .....</b>	<b>347</b>	<b>3 026</b>	<b>65 872</b>	<b>283 106</b>	<b>206 110</b>	<b>114 847</b>	<b>98 262</b>	<b>76 996</b>	<b>3 806</b>	<b>5</b>	<b>5</b>
(See appropriate State for SIC detail.)												

**WV-14 WEST VIRGINIA**

**CONSTRUCTION—GEOGRAPHIC AREA SERIES**

**Table 11. Selected Statistics for Establishments With Payroll for Selected Metropolitan Areas: 1992—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	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	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	<b>WASHINGTON—BALTIMORE, DC—MD—VA—WV CMSA—Con.</b>											
	<b>Washington, DC—MD—VA—WV PMSA</b>											
15,16,17	<b>Construction industries</b> .....	10 393	114 075	3 090 179	13 539 649	9 346 467	5 700 111	3 948 948	4 193 182	114 060	1	1
15	<b>Building construction—General contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	2 093	9 503	192 733	965 039	696 093	374 061	334 635	268 947	10 749	5	6
1522	Other residential buildings .....	142	1 016	25 381	209 532	99 368	67 967	34 552	110 164	523	9	37
1531	Operative builders .....	452	5 377	173 629	2 104 677	1 228 742	702 215	693 870	875 935	8 651	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	45	471	15 366	96 313	47 475	32 419	(D)	48 838	884	24	19
1542	Nonresidential buildings, n.e.c. ....	667	13 705	445 460	3 244 455	1 261 505	805 537	495 454	1 982 950	10 441	2	2
16	<b>Heavy construction other than building construction—contractors:</b>											
1611	Highway and street construction .....	145	4 973	144 149	583 830	457 271	283 120	188 816	126 559	10 146	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	*10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines .....	162	5 245	129 511	424 257	369 281	249 331	122 119	54 976	12 942	3	2
1629	Heavy construction, n.e.c. ....	(S)	5 450	243 005	656 246	(D)	312 991	157 161	(D)	(D)	2	(D)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air-conditioning .....	1 350	15 257	438 623	1 422 452	1 204 782	703 226	516 565	217 671	15 393	2	1
1721	Painting and paper hanging .....	637	4 279	81 944	198 314	179 801	134 149	46 864	18 513	1 493	6	4
1731	Electrical work .....	975	11 920	339 994	1 000 035	965 642	564 687	414 826	34 393	10 450	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work .....	471	4 693	88 901	226 767	217 210	131 892	86 872	9 557	4 500	4	4
1742	Plastering, drywall, and insulation work .....	338	5 597	147 063	373 788	332 416	215 892	118 267	41 372	4 752	4	2
1743	Terrazzo, tile, marble, and mosaic work .....	131	846	21 602	62 044	59 951	33 638	26 768	2 093	(D)	9	7
175	Carpentry and floor work:											
1751	Carpentry .....	731	4 103	86 552	264 674	223 856	134 998	89 399	40 817	2 756	5	6
1752	Floor laying and other floor work .....	201	1 334	(D)	145 145	130 936	61 117	73 373	14 210	860	6	7
1761	Roofing, siding, and sheet metal work .....	409	4 396	109 476	300 776	283 762	170 788	114 107	17 014	2 404	3	3
1771	Concrete work .....	473	5 648	110 931	421 305	376 635	212 667	166 998	44 670	5 838	3	3
1781	Water well drilling .....	21	(D)	(D)	(D)	(D)	(D)	5 588	(D)	526	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	43	786	22 353	60 827	55 808	37 994	(D)	5 019	(S)	10	10
1793	Glass and glazing work .....	82	750	21 023	63 211	61 434	33 976	29 388	1 777	(D)	8	7
1794	Excavation work .....	250	1 877	44 243	166 462	140 273	105 750	44 452	26 190	1 910	9	8
1795	Wrecking and demolition work .....	10	167	3 707	(D)	(D)	12 724	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. ....	52	2 399	68 420	210 083	204 030	143 129	60 901	6 053	870	3	4
1799	Special trade contractors, n.e.c. ....	369	3 659	85 383	239 475	211 441	138 336	78 984	28 035	(D)	6	5

## Appendix A.

# Explanation of Terms

**Construction.** Is composed of three broad categories:

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

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

**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.

**All employees.** Comprises 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.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

**Construction workers.** Includes all 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 but are included in the "other employees" category.

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

**Payroll.** Includes the gross earnings paid in the calendar year 1992 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 such deductions 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.

**Fringe benefits.** Represents expenditures made by the employer during 1992 for legally required and voluntary fringe benefit programs for employees.

**Legally required contributions.** Includes Social Security contributions, unemployment compensation, worker's compensation, and State temporary disability payments.

**Voluntary payments.** Includes life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

**Value of construction work done.** Includes all value of construction work done during 1992 for construction work performed by general contractors and special trades contractors. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is 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 1992 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 such construction components 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 was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

**Other business receipts.** Includes business receipts not reported as value of construction work done. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, 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 was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

**Net value of construction work.** Derived for each establishment by subtracting the costs for construction work subcontracted out to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

**Value added.** Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted out to others, and costs for materials, components, supplies, and fuels. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

**Selected costs.** Represents 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.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1992 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)

- freight and other direct charges representing only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/ structures for themselves which are chargeable to their fixed assets accounts, as well as costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment such as printing presses and computer systems, which are not an integral part of a structure.
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted out to others include:

- all costs during 1992 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- the 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."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal, and coke products.

**Rental costs for machinery, equipment, and buildings.** Includes all costs during 1992 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 which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

**Selected purchased services.** Includes all costs during 1992 for communication 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



repair 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."

**Assets and depreciation.** Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices and shops); stationary machinery (generators and shop equipment); mobile machinery (tractors and trucks); and other equipment (office furniture and fixtures). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, and destroyed during 1992.

**Capital expenditures.** Refers to all costs actually incurred during 1992 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1992.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

**Inventories.** 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 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.

**Ownership of construction projects.** Shows the distribution of the value of construction work done by ownership of the project; that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal and State and local governments.

**Value of construction work subcontracted in from others.** Includes the value of construction work during 1992 for work done by reporting establishments as subcontractors. 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.

**Types of construction.** Provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1992. 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. See the definition of "Construction" for the meanings of these terms.

#### **Building construction:**

- **Single-family houses, detached.** Includes all 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 with two or more units, including rentals, apartment-type condominiums, and cooperatives.** Includes high-rise, low-rise, or any structures containing two or more housing units other than attached single-family houses.
- **Hotels, motels, and tourist cabins.** Includes hotels, motels, bed and breakfast inns, and tourist cabins intended for transient accommodations. Also included are hotel and motel conference centers.
- **Other residential buildings.** Includes dormitories, fraternity and sorority houses, and other nonhousekeeping residential structures.
- **Office buildings.** Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more. Medical office buildings are reported under hospitals and institutional buildings.

- **Other commercial buildings, such as stores, restaurants, and automobile service stations.** Includes all buildings which 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.
  - **Industrial buildings.** Includes all industrial buildings and plants which 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.
  - **Warehouses.** Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
  - **Religious buildings.** Includes all buildings which are intended for religious services or functions such as churches, synagogues, convents, monasteries, and seminaries.
  - **Educational buildings.** Includes all buildings which 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 which are not a part of a manufacturing or commercial establishment, are also included.
  - **Hospitals and institutional buildings.** Includes medical office buildings and all other buildings which are intended to provide hospital and institutional care such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
  - **Farm buildings, nonresidential.** Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
  - **Amusement, social, and recreational buildings.** Includes buildings which 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.
  - **Other nonresidential buildings.** Includes nonresidential buildings which 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.
  - **Outdoor swimming pools.** Includes wading pools and reflecting pools.
  - **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.
  - **Fencing.** Includes all types of fencing.
  - **Recreational facilities.** Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
  - **Tunnels.** Includes highway, pedestrian, railroad, and water distribution tunnels.
  - **Bridges and elevated highways.** Includes viaducts and overpasses, roads, highways, railroads, and causeways built on structural supports.
  - **Dam and reservoir construction.** Includes hydroelectric, water supply, and flood control dams and reservoirs.
  - **Marine construction.** Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
  - **Harbor and port facilities.** Includes docks, piers, and wharves.
  - **Conservation and development construction.** Includes land reclamation, irrigation projects, drainage canals, levees, jetties, breakwaters, and flood control projects.
  - **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.
  - **Sewers, sewerlines, 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.
  - **Urban mass transit.** Includes subways, trollies, 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.
  - **Blast furnaces, petroleum refineries, chemical complexes, etc.** Includes coke ovens and mining appurtenances such as tipples and washeries.

- **Power plants, nuclear.** Includes atomic energy plants and nuclear reactors.
- **Power plants, and cogeneration plants, except nuclear.** Includes electric and steam generating plants and cogenerating plants.
- **Sewage treatment plants.** Includes sewage treatment and waste disposal plants.
- **Water treatment plants.** Includes water filtration and water softening plants.
- **Ships.** Includes special trade contractors working on ships and boats such as painters, carpenters, joiners, electricians, etc.
- **Other nonbuilding construction.** Includes all types of nonbuilding construction not included elsewhere.

# Appendix B. Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
<b>15</b>	<b>BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS</b>	<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.</b>
<b>152</b>	<b>General Building Contractors—Residential Buildings</b>	<b>173</b>	<b>Electrical Work Special Trade Contractors</b>
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	<b>174</b>	<b>Masonry, Stone Work, Tile Setting, and Plastering Special Trade Contractors</b>
<b>153</b>	<b>Operative Builders</b>	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
<b>154</b>	<b>General Building Contractors—Nonresidential Buildings</b>	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	<b>175</b>	<b>Carpentry and Floor Work Special Trade Contractors</b>
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
<b>16</b>	<b>HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS</b>	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
<b>161</b>	<b>Highway and Street Construction, Except Elevated Highways</b>	<b>176</b>	<b>Roofing, Siding, and Sheet Metal Work Special Trade Contractors</b>
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
<b>162</b>	<b>Heavy Construction, Except Highway and Street Construction</b>	<b>177</b>	<b>Concrete Work Special Trade Contractors</b>
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Power Line Construction Contractors	<b>178</b>	<b>Water Well Drilling Special Trade Contractors</b>
1629	Heavy Construction Contractors, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS</b>	<b>179</b>	<b>Miscellaneous Special Trade Contractors</b>
<b>171</b>	<b>Plumbing, Heating, and Air-Conditioning Special Trade Contractors</b>	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
<b>172</b>	<b>Painting and Paper Hanging Special Trade Contractors</b>	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified

## Appendix C. Geographic Divisions and States

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### NEW ENGLAND STATES

Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont

### MIDDLE ATLANTIC STATES

New Jersey  
New York  
Pennsylvania

### EAST NORTH CENTRAL STATES

Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin

### WEST NORTH CENTRAL STATES

Iowa  
Kansas  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

### SOUTH ATLANTIC STATES

Delaware  
District of Columbia  
Florida  
Georgia  
Maryland

### SOUTH ATLANTIC STATES—Con.

North Carolina  
South Carolina  
Virginia  
West Virginia

### EAST SOUTH CENTRAL STATES

Alabama  
Kentucky  
Mississippi  
Tennessee

### WEST SOUTH CENTRAL STATES

Arkansas  
Louisiana  
Oklahoma  
Texas

### MOUNTAIN STATES

Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming

### PACIFIC STATES

Alaska  
California  
Hawaii  
Oregon  
Washington

## Appendix D. Metropolitan Areas

[Titles and definitions shown for MSA's, CMSA's, and PMSA's are those established by the Office of Management and Budget as of June 30, 1993]

### Abilene, TX MSA

Taylor County, TX

### Akron, OH PMSA—see Cleveland–Akron, OH CMSA

### Albany, GA MSA

Dougherty County, GA  
Lee County, GA

### Albany–Schenectady–Troy, NY MSA

Albany County, NY  
Montgomery County, NY  
Rensselaer County, NY  
Saratoga County, NY  
Schenectady County, NY  
Schoharie County, NY

### Albuquerque, NM MSA

Bernalillo County, NM  
Sandoval County, NM  
Valencia County, NM

### Alexandria, LA MSA

Rapides Parish, LA

### Allentown–Bethlehem–Easton, PA MSA

Carbon County, PA  
Lehigh County, PA  
Northampton County, PA

### Altoona, PA MSA

Blair County, PA

### Amarillo, TX MSA

Potter County, TX  
Randall County, TX

### Anchorage, AK MSA

Anchorage Borough, AK

### Ann Arbor, MI PMSA—see Detroit–Ann Arbor–Flint, MI CMSA

### Anniston, AL MSA

Calhoun County, AL

### Appleton–Oshkosh–Neenah, WI MSA

Calumet County, WI  
Outagamie County, WI  
Winnebago County, WI

### Asheville, NC MSA

Buncombe County, NC  
Madison County, NC

### Athens, GA MSA

Clarke County, GA  
Madison County, GA  
Oconee County, GA

### Atlanta, GA MSA

Barrow County, GA  
Bartow County, GA

### Atlanta, GA MSA—Con.

Carroll County, GA  
Cherokee County, GA  
Clayton County, GA  
Cobb County, GA  
Coweta County, GA  
DeKalb County, GA  
Douglas County, GA  
Fayette County, GA  
Forsyth County, GA  
Fulton County, GA  
Gwinnett County, GA  
Henry County, GA  
Newton County, GA  
Paulding County, GA  
Pickens County, GA  
Rockdale County, GA  
Spalding County, GA  
Walton County, GA

### Atlantic–Cape May, NJ PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA

### Augusta–Aiken, GA–SC MSA

Columbia County, GA  
McDuffie County, GA  
Richmond County, GA  
Aiken County, SC  
Edgefield County, SC

### Austin–San Marcos, TX MSA

Bastrop County, TX  
Caldwell County, TX  
Hays County, TX  
Travis County, TX  
Williamson County, TX

### Bakersfield, CA MSA

Kern County, CA

### Baltimore, MD PMSA—see Washington–Baltimore, DC–MD–VA–WV CMSA

### Bangor, ME MSA

Penobscot County, ME (part)  
Bangor city, ME  
Brewer city, ME  
Eddington town, ME  
Glenburn town, ME  
Hampden town, ME  
Hermon town, ME  
Holden town, ME  
Kenduskeag town, ME  
Milford town, ME  
Old Town city, ME  
Orono town, ME  
Orrington town, ME  
Penobscot Indian Island  
Reservation, ME  
Veazie town, ME

### Bangor, ME MSA—Con.

Waldo County, ME (part)  
Winterport town, ME

### Barnstable–Yarmouth, MA MSA

Barnstable County, MA (part)  
Barnstable city, MA  
Brewster town, MA  
Chatham town, MA  
Dennis town, MA  
Eastham town, MA  
Harwich town, MA  
Mashpee town, MA  
Orleans town, MA  
Sandwich town, MA  
Yarmouth town, MA

### Baton Rouge, LA MSA

Ascension Parish, LA  
East Baton Rouge Parish, LA  
Livingston Parish, LA  
West Baton Rouge Parish, LA

### Beaumont–Port Arthur, TX MSA

Hardin County, TX  
Jefferson County, TX  
Orange County, TX

### Bellingham, WA MSA

Whatcom County, WA

### Benton Harbor, MI MSA

Berrien County, MI

### Bergen–Passaic, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA

### Billings, MT MSA

Yellowstone County, MT

### Biloxi–Gulfport–Pascagoula, MS MSA

Hancock County, MS  
Harrison County, MS  
Jackson County, MS

### Binghamton, NY MSA

Broome County, NY  
Tioga County, NY

### Birmingham, AL MSA

Blount County, AL  
Jefferson County, AL  
St. Clair County, AL  
Shelby County, AL

### Bismarck, ND MSA

Burleigh County, ND  
Morton County, ND

### Bloomington, IN MSA

Monroe County, IN

**Bloomington–Normal, IL MSA**  
McLean County, IL

**Boise City, ID MSA**  
Ada County, ID  
Canyon County, ID

**Boston, MA–NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

**Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

- Boston, MA–NH PMSA
  - Bristol County, MA (part)
  - Berkley town, MA
  - Dighton town, MA
  - Mansfield town, MA
  - Norton town, MA
  - Taunton city, MA
- Essex County, MA (part)
  - Amesbury town, MA
  - Beverly city, MA
  - Danvers town, MA
  - Essex town, MA
  - Gloucester city, MA
  - Hamilton town, MA
  - Ipswich town, MA
  - Lynn city, MA
  - Lynnfield town, MA
  - Manchester town, MA
  - Marblehead town, MA
  - Middleton town, MA
  - Nahant town, MA
  - Newbury town, MA
  - Newburyport city, MA
  - Peabody city, MA
  - Rockport town, MA
  - Rowley town, MA
  - Salem city, MA
  - Salisbury town, MA
  - Saugus town, MA
  - Swampscott town, MA
  - Topsfield town, MA
  - Wenham town, MA
- Middlesex County, MA (part)
  - Acton town, MA
  - Arlington town, MA
  - Ashland town, MA
  - Ayer town, MA
  - Bedford town, MA
  - Belmont town, MA
  - Boxborough town, MA
  - Burlington town, MA
  - Cambridge city, MA
  - Carlisle town, MA
  - Concord town, MA
  - Everett city, MA
  - Framingham town, MA
  - Holliston town, MA
  - Hopkinton town, MA
  - Hudson town, MA
  - Lexington town, MA
  - Lincoln town, MA
  - Littleton town, MA
  - Malden city, MA
  - Marlborough city, MA
  - Maynard town, MA
  - Medford city, MA
  - Melrose city, MA
  - Natick town, MA
  - Newton city, MA
  - North Reading town, MA
  - Reading town, MA
  - Sherborn town, MA
  - Shirley town, MA
  - Somerville city, MA
  - Stoneham town, MA

**Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA—Con.**

- Boston, MA–NH PMSA—Con.
  - Middlesex County, MA (part)
    - Stow town, MA
    - Sudbury town, MA
    - Townsend town, MA
    - Wakefield town, MA
    - Waltham city, MA
    - Watertown city, MA
    - Wayland town, MA
    - Weston town, MA
    - Wilmington town, MA
    - Winchester town, MA
    - Woburn city, MA
- Norfolk County, MA (part)
  - Bellingham town, MA
  - Braintree town, MA
  - Brookline town, MA
  - Canton town, MA
  - Cohasset town, MA
  - Dedham town, MA
  - Dover town, MA
  - Foxborough town, MA
  - Franklin city, MA
  - Holbrook town, MA
  - Medfield town, MA
  - Medway town, MA
  - Millis town, MA
  - Milton town, MA
  - Needham town, MA
  - Norfolk town, MA
  - Norwood town, MA
  - Plainville town, MA
  - Quincy city, MA
  - Randolph town, MA
  - Sharon town, MA
  - Stoughton town, MA
  - Walpole town, MA
  - Wellesley town, MA
  - Westwood town, MA
  - Weymouth town, MA
  - Wrentham town, MA
- Plymouth County, MA (part)
  - Carver town, MA
  - Duxbury town, MA
  - Hanover town, MA
  - Hingham town, MA
  - Hull town, MA
  - Kingston town, MA
  - Marshfield town, MA
  - Norwell town, MA
  - Pembroke town, MA
  - Plymouth town, MA
  - Rockland town, MA
  - Scituate town, MA
  - Wareham town, MA
- Suffolk County, MA
  - Boston city, MA
  - Chelsea city, MA
  - Revere city, MA
  - Winthrop town, MA
- Worcester County, MA (part)
  - Berlin town, MA
  - Blackstone town, MA
  - Bolton town, MA
  - Harvard town, MA
  - Hopedale town, MA
  - Lancaster town, MA
  - Mendon town, MA
  - Milford town, MA
  - Millville town, MA
  - Southborough town, MA
  - Upton town, MA

**Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA—Con.**

- Boston, MA–NH PMSA—Con.
  - Rockingham County, NH (part)
    - Seabrook town, NH
    - South Hampton town, NH
- Brockton, MA PMSA
  - Bristol County, MA (part)
    - Easton town, MA
    - Raynham town, MA
  - Norfolk County, MA (part)
    - Avon town, MA
  - Plymouth County, MA (part)
    - Abington town, MA
    - Bridgewater town, MA
    - Brockton city, MA
    - East Bridgewater town, MA
    - Halifax town, MA
    - Hanson town, MA
    - Lakeville town, MA
    - Middleborough town, MA
    - Plympton town, MA
    - West Bridgewater town, MA
    - Whitman town, MA
- Fitchburg–Leominster, MA PMSA
  - Middlesex County, MA (part)
    - Ashby town, MA
  - Worcester County, MA (part)
    - Ashburnham town, MA
    - Fitchburg city, MA
    - Gardner city, MA
    - Leominster city, MA
    - Lunenburg town, MA
    - Templeton town, MA
    - Westminster town, MA
    - Winchendon town, MA
- Lawrence, MA–NH PMSA
  - Essex County, MA (part)
    - Andover town, MA
    - Boxford town, MA
    - Georgetown town, MA
    - Groveland town, MA
    - Haverhill city, MA
    - Lawrence city, MA
    - Merrimac town, MA
    - Methuen city, MA
    - North Andover town, MA
    - West Newbury town, MA
  - Rockingham County, NH (part)
    - Atkinson town, NH
    - Chester town, NH
    - Danville town, NH
    - Derry town, NH
    - Fremont town, NH
    - Hampstead town, NH
    - Kingston town, NH
    - Newton town, NH
    - Plaistow town, NH
    - Raymond town, NH
    - Salem town, NH
    - Sandown town, NH
    - Windham town, NH
- Lowell, MA–NH PMSA
  - Middlesex County, MA (part)
    - Billerica town, MA
    - Chelmsford town, MA
    - Dracut town, MA
    - Dunstable town, MA
    - Groton town, MA
    - Lowell city, MA
    - Pepperell town, MA
    - Tewksbury town, MA
    - Tyngsborough town, MA
    - Westford town, MA
  - Hillsborough County, NH (part)
    - Pelham town, NH

**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Manchester, NH PMSA  
 Hillsborough County, NH (part)  
 Bedford town, NH  
 Goffstown town, NH  
 Manchester city, NH  
 Weare town, NH  
 Merrimack County, NH (part)  
 Allentown town, NH  
 Hooksett town, NH  
 Rockingham County, NH (part)  
 Auburn town, NH  
 Candia town, NH  
 Londonderry town, NH  
 Nashua, NH PMSA  
 Hillsborough County, NH (part)  
 Amherst town, NH  
 Brookline town, NH  
 Greenville town, NH  
 Hollis town, NH  
 Hudson town, NH  
 Litchfield town, NH  
 Mason town, NH  
 Merrimack town, NH  
 Milford town, NH  
 Mont Vernon town, NH  
 Nashua city, NH  
 New Ipswich town, NH  
 Wilton town, NH  
 New Bedford, MA PMSA  
 Bristol County, MA (part)  
 Acushnet town, MA  
 Dartmouth town, MA  
 Fairhaven town, MA  
 Freetown town, MA  
 New Bedford city, MA  
 Plymouth County, MA (part)  
 Marion town, MA  
 Mattapoisett town, MA  
 Rochester town, MA  
 Portsmouth–Rochester, NH–ME PMSA  
 York County, ME (part)  
 Berwick town, ME  
 Eliot town, ME  
 Kittery town, ME  
 South Berwick town, ME  
 York town, ME  
 Rockingham County, NH (part)  
 Brentwood town, NH  
 East Kingston town, NH  
 Epping town, NH  
 Exeter town, NH  
 Greenland town, NH  
 Hampton town, NH  
 Hampton Falls town, NH  
 Kensington town, NH  
 New Castle town, NH  
 Newfields town, NH  
 Newington town, NH  
 Newmarket town, NH  
 North Hampton town, NH  
 Portsmouth city, NH  
 Rye town, NH  
 Stratham town, NH  
 Strafford County, NH (part)  
 Barrington town, NH  
 Dover city, NH  
 Durham town, NH  
 Farmington town, NH  
 Lee town, NH  
 Madbury town, NH  
 Milton town, NH  
 Rochester city, NH  
 Rollinsford town, NH  
 Somersworth city, NH

**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Worcester, MA–CT PMSA  
 Windham County, CT (part)  
 Thompson town, CT  
 Hampden County, MA (part)  
 Holland town, MA  
 Worcester County, MA (part)  
 Auburn town, MA  
 Barre town, MA  
 Boylston town, MA  
 Brookfield town, MA  
 Charlton town, MA  
 Clinton town, MA  
 Douglas town, MA  
 Dudley town, MA  
 East Brookfield town, MA  
 Grafton town, MA  
 Holden town, MA  
 Leicester town, MA  
 Millbury town, MA  
 Northborough town, MA  
 Northbridge town, MA  
 North Brookfield town, MA  
 Oakham town, MA  
 Oxford town, MA  
 Paxton town, MA  
 Princeton town, MA  
 Rutland town, MA  
 Shrewsbury town, MA  
 Southbridge town, MA  
 Spencer town, MA  
 Sterling town, MA  
 Sturbridge town, MA  
 Sutton town, MA  
 Uxbridge town, MA  
 Webster town, MA  
 Westborough town, MA  
 West Boylston town, MA  
 West Brookfield town, MA  
 Worcester city, MA

**Boulder–Longmont, CO PMSA—see  
Denver–Boulder–Greeley, CO CMSA****Brazoria, TX PMSA—see Houston–  
Galveston–Brazoria, TX CMSA****Bremerton, WA PMSA—see Seattle–  
Tacoma–Bremerton, WA CMSA****Bridgeport, CT PMSA—see New York–  
Northern New Jersey–Long Island, NY–  
NJ–CT–PA CMSA****Brockton, MA PMSA—see Boston–  
Worcester–Lawrence, MA–NH–ME–CT CMSA****Brownsville–Harlingen–San Benito, TX MSA**  
Cameron County, TX**Bryan–College Station, TX MSA**  
Brazos County, TX**Buffalo–Niagara Falls, NY MSA**  
Erie County, NY  
Niagara County, NY**Burlington, VT MSA**

Chittenden County, VT (part)  
 Burlington city, VT  
 Charlotte town, VT  
 Colchester town, VT  
 Essex Junction village, VT  
 Essex town balance, VT  
 Hinesburg town, VT  
 Jericho town, VT  
 Jericho village, VT  
 Milton town, VT  
 Milton village, VT  
 Richmond town, VT  
 St. George town, VT  
 Shelburne town, VT

**Burlington, VT MSA—Con.**

Chittenden County, VT (part)—Con.  
 South Burlington city, VT  
 Williston town, VT  
 Winooski city, VT  
 Franklin County, VT (part)  
 Fairfax town, VT  
 Georgia town, VT  
 St. Albans city, VT  
 St. Albans town, VT  
 Swanton town, VT  
 Swanton village, VT  
 Grand Isle County, VT (part)  
 Grand Isle town, VT  
 South Hero town, VT

**Canton–Massillon, OH MSA**

Carroll County, OH  
 Stark County, OH

**Casper, WY MSA**

Natrona County, WY

**Cedar Rapids, IA MSA**

Linn County, IA

**Champaign–Urbana, IL MSA**

Champaign County, IL

**Charleston–North Charleston, SC MSA**

Berkeley County, SC  
 Charleston County, SC  
 Dorchester County, SC

**Charleston, WV MSA**

Kanawha County, WV  
 Putnam County, WV

**Charlotte–Gastonia–Rock Hill, NC–SC MSA**

Cabarrus County, NC  
 Gaston County, NC  
 Lincoln County, NC  
 Mecklenburg County, NC  
 Rowan County, NC  
 Union County, NC  
 York County, SC

**Charlottesville, VA MSA**

Albemarle County, VA  
 Fluvanna County, VA  
 Greene County, VA  
 Charlottesville city, VA

**Chattanooga, TN–GA MSA**

Catoosa County, GA  
 Dade County, GA  
 Walker County, GA  
 Hamilton County, TN  
 Marion County, TN

**Cheyenne, WY MSA**

Laramie County, WY

**Chicago, IL PMSA—see Chicago–Gary–  
Kenosha, IL–IN–WI CMSA****Chicago–Gary–Kenosha, IL–IN–WI CMSA**

Chicago, IL PMSA  
 Cook County, IL  
 DeKalb County, IL  
 DuPage County, IL  
 Grundy County, IL  
 Kane County, IL  
 Kendall County, IL  
 Lake County, IL  
 McHenry County, IL  
 Will County, IL  
 Gary, IN PMSA  
 Lake County, IN  
 Porter County, IN  
 Kankakee, IL PMSA  
 Kankakee County, IL



- Chicago-Gary-Kenosha, IL-IN-WI CMSA—Con.**  
Kenosha, WI PMSA  
Kenosha County, WI
- Chico-Paradise, CA MSA**  
Butte County, CA
- Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA**
- Cincinnati-Hamilton, OH-KY-IN CMSA**  
Cincinnati, OH-KY-IN PMSA  
Dearborn County, IN  
Ohio County, IN  
Boone County, KY  
Campbell County, KY  
Gallatin County, KY  
Grant County, KY  
Kenton County, KY  
Pendleton County, KY  
Brown County, OH  
Clermont County, OH  
Hamilton County, OH  
Warren County, OH  
Hamilton-Middletown, OH PMSA  
Butler County, OH
- Clarksville-Hopkinsville, TN-KY MSA**  
Christian County, KY  
Montgomery County, TN
- Cleveland-Lorain-Elyria, OH PMSA—see Cleveland-Akron, OH CMSA**
- Cleveland-Akron, OH CMSA**  
Akron, OH PMSA  
Portage County, OH  
Summit County, OH  
Cleveland-Lorain-Elyria, OH PMSA  
Ashtabula County, OH  
Cuyahoga County, OH  
Geauga County, OH  
Lake County, OH  
Lorain County, OH  
Medina County, OH
- Colorado Springs, CO MSA**  
El Paso County, CO
- Columbia, MO MSA**  
Boone County, MO
- Columbia, SC MSA**  
Lexington County, SC  
Richland County, SC
- Columbus, GA-AL MSA**  
Russell County, AL  
Chattahoochee County, GA  
Harris County, GA  
Muscookee County, GA
- Columbus, OH MSA**  
Delaware County, OH  
Fairfield County, OH  
Franklin County, OH  
Licking County, OH  
Madison County, OH  
Pickaway County, OH
- Corpus Christi, TX MSA**  
Nueces County, TX  
San Patricio County, TX
- Cumberland, MD-WV MSA**  
Allegany County, MD  
Mineral County, WV
- Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA**
- Dallas-Fort Worth, TX CMSA**  
Dallas, TX PMSA  
Collin County, TX  
Dallas County, TX  
Denton County, TX  
Ellis County, TX  
Henderson County, TX  
Hunt County, TX  
Kaufman County, TX  
Rockwall County, TX  
Fort Worth-Arlington, TX PMSA  
Hood County, TX  
Johnson County, TX  
Parker County, TX  
Tarrant County, TX
- Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**
- Danville, VA MSA**  
Pittsylvania County, VA  
Danville city, VA
- Davenport-Moline-Rock Island, IA-IL MSA**  
Henry County, IL  
Rock Island County, IL  
Scott County, IA
- Dayton-Springfield, OH MSA**  
Clark County, OH  
Greene County, OH  
Miami County, OH  
Montgomery County, OH
- Daytona Beach, FL MSA**  
Flagler County, FL  
Volusia County, FL
- Decatur, AL MSA**  
Lawrence County, AL  
Morgan County, AL
- Decatur, IL MSA**  
Macon County, IL
- Denver, CO PMSA—see Denver-Boulder-Greeley, CO CMSA**
- Denver-Boulder-Greeley, CO CMSA**  
Boulder-Longmont, CO PMSA  
Boulder County, CO  
Denver, CO PMSA  
Adams County, CO  
Arapahoe County, CO  
Denver County, CO  
Douglas County, CO  
Jefferson County, CO  
Greeley, CO PMSA  
Weld County, CO
- Des Moines, IA MSA**  
Dallas County, IA  
Polk County, IA  
Warren County, IA
- Detroit, MI PMSA—see Detroit-Ann Arbor-Flint, MI CMSA**
- Detroit-Ann Arbor-Flint, MI CMSA**  
Ann Arbor, MI PMSA  
Lenawee County, MI  
Livingston County, MI  
Washtenaw County, MI  
Detroit, MI PMSA  
Lapeer County, MI  
Macomb County, MI  
Monroe County, MI  
Oakland County, MI  
St. Clair County, MI  
Wayne County, MI
- Detroit-Ann Arbor-Flint, MI CMSA—Con.**  
Flint, MI PMSA  
Genesee County, MI
- Dothan, AL MSA**  
Dale County, AL  
Houston County, AL
- Dover, DE MSA**  
Kent County, DE
- Dubuque, IA MSA**  
Dubuque County, IA
- Duluth-Superior, MN-WI MSA**  
St. Louis County, MN  
Douglas County, WI
- Dutchess County, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**
- Eau Claire, WI MSA**  
Chippewa County, WI  
Eau Claire County, WI
- El Paso, TX MSA**  
El Paso County, TX
- Elkhart-Goshen, IN MSA**  
Elkhart County, IN
- Elmira, NY MSA**  
Chemung County, NY
- Enid, OK MSA**  
Garfield County, OK
- Erie, PA MSA**  
Erie County, PA
- Eugene-Springfield, OR MSA**  
Lane County, OR
- Evansville-Henderson, IN-KY MSA**  
Posey County, IN  
Vanderburgh County, IN  
Warrick County, IN  
Henderson County, KY
- Fargo-Moorhead, ND-MN MSA**  
Clay County, MN  
Cass County, ND
- Fayetteville, NC MSA**  
Cumberland County, NC
- Fayetteville-Springdale-Rogers, AR MSA**  
Benton County, AR  
Washington County, AR
- Fitchburg-Leominster, MA PMSA—see Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA**
- Flint, MI PMSA—see Detroit-Ann Arbor-Flint, MI CMSA**
- Florence, AL MSA**  
Colbert County, AL  
Lauderdale County, AL
- Florence, SC MSA**  
Florence County, SC
- Fort Collins-Loveland, CO MSA**  
Larimer County, CO
- Fort Lauderdale, FL PMSA—see Miami-Fort Lauderdale, FL CMSA**
- Fort Myers-Cape Coral, FL MSA**  
Lee County, FL
- Fort Pierce-Port St. Lucie, FL MSA**  
Martin County, FL  
St. Lucie County, FL

**Fort Smith, AR—OK MSA**  
 Crawford County, AR  
 Sebastian County, AR  
 Sequoyah County, OK

**Fort Walton Beach, FL MSA**  
 Okaloosa County, FL

**Fort Wayne, IN MSA**  
 Adams County, IN  
 Allen County, IN  
 De Kalb County, IN  
 Huntington County, IN  
 Wells County, IN  
 Whitley County, IN

**Fort Worth—Arlington, TX PMSA—see  
 Dallas—Fort Worth, TX CMSA**

**Fresno, CA MSA**  
 Fresno County, CA  
 Madera County, CA

**Gadsden, AL MSA**  
 Etowah County, AL

**Gainesville, FL MSA**  
 Alachua County, FL

**Galveston—Texas City, TX PMSA—see  
 Houston—Galveston—Brazoria, TX CMSA**

**Gary, IN PMSA—see Chicago—Gary—  
 Kenosha, IL—IN—WI CMSA**

**Glens Falls, NY MSA**  
 Warren County, NY  
 Washington County, NY

**Goldsboro, NC MSA**  
 Wayne County, NC

**Grand Forks, ND—MN MSA**  
 Polk County, MN  
 Grand Forks County, ND

**Grand Rapids—Muskegon—Holland, MI MSA**  
 Allegan County, MI  
 Kent County, MI  
 Muskegon County, MI  
 Ottawa County, MI

**Great Falls, MT MSA**  
 Cascade County, MT

**Greeley, CO PMSA—see Denver—Boulder—  
 Greeley, CO CMSA**

**Green Bay, WI MSA**  
 Brown County, WI

**Greensboro—Winston-Salem—High Point, NC  
 MSA**  
 Alamance County, NC  
 Davidson County, NC  
 Davie County, NC  
 Forsyth County, NC  
 Guilford County, NC  
 Randolph County, NC  
 Stokes County, NC  
 Yadkin County, NC

**Greenville, NC MSA**  
 Pitt County, NC

**Greenville—Spartanburg—Anderson, SC MSA**  
 Anderson County, SC  
 Cherokee County, SC  
 Greenville County, SC  
 Pickens County, SC  
 Spartanburg County, SC

**Hagerstown, MD PMSA—see Washington—  
 Baltimore, DC—MD—VA—WV CMSA**

**Hamilton—Middletown, OH PMSA—see  
 Cincinnati—Hamilton, OH—KY—IN CMSA**

**Harrisburg—Lebanon—Carlisle, PA MSA**  
 Cumberland County, PA  
 Dauphin County, PA  
 Lebanon County, PA  
 Perry County, PA

**Hartford, CT MSA**  
 Hartford County, CT (part)  
 Avon town, CT  
 Berlin town, CT  
 Bloomfield town, CT  
 Bristol city, CT  
 Burlington town, CT  
 Canton town, CT  
 East Granby town, CT  
 East Hartford town, CT  
 East Windsor town, CT  
 Enfield town, CT  
 Farmington town, CT  
 Glastonbury town, CT  
 Granby town, CT  
 Hartford city, CT  
 Manchester town, CT  
 Marlborough town, CT  
 New Britain city, CT  
 Newington town, CT  
 Plainville town, CT  
 Rocky Hill town, CT  
 Simsbury town, CT  
 Southington town, CT  
 South Windsor town, CT  
 Suffield town, CT  
 West Hartford town, CT  
 Wethersfield town, CT  
 Windsor town, CT  
 Windsor Locks town, CT

Litchfield County, CT (part)  
 Barkhamsted town, CT  
 Harwinton town, CT  
 New Hartford town, CT  
 Plymouth town, CT  
 Winchester town, CT

Middlesex County, CT (part)  
 Cromwell town, CT  
 Durham town, CT  
 East Haddam town, CT  
 East Hampton town, CT  
 Haddam town, CT  
 Middlefield town, CT  
 Middletown city, CT  
 Portland town, CT

New London County, CT (part)  
 Colchester town, CT  
 Lebanon town, CT

Tolland County, CT (part)  
 Andover town, CT  
 Bolton town, CT  
 Columbia town, CT  
 Coventry town, CT  
 Ellington town, CT  
 Hebron town, CT  
 Mansfield town, CT  
 Somers town, CT  
 Stafford town, CT  
 Tolland town, CT  
 Vernon town, CT  
 Willington town, CT

Windham County, CT (part)  
 Ashford town, CT  
 Chaplin town, CT  
 Windham town, CT

**Hickory—Morganton, NC MSA**  
 Alexander County, NC  
 Burke County, NC  
 Caldwell County, NC  
 Catawba County, NC

**Honolulu, HI MSA**  
 Honolulu County, HI

**Houma, LA MSA**  
 Lafourche Parish, LA  
 Terrebonne Parish, LA

**Houston, TX PMSA—see Houston—Galveston—  
 Brazoria, TX CMSA**

**Houston—Galveston—Brazoria, TX CMSA**  
 Brazoria, TX PMSA  
 Brazoria County, TX  
 Galveston—Texas City, TX PMSA  
 Galveston County, TX  
 Houston, TX PMSA  
 Chambers County, TX  
 Fort Bend County, TX  
 Harris County, TX  
 Liberty County, TX  
 Montgomery County, TX  
 Waller County, TX

**Huntington—Ashland, WV—KY—OH MSA**  
 Boyd County, KY  
 Carter County, KY  
 Greenup County, KY  
 Lawrence County, OH  
 Cabell County, WV  
 Wayne County, WV

**Huntsville, AL MSA**  
 Limestone County, AL  
 Madison County, AL

**Indianapolis, IN MSA**  
 Boone County, IN  
 Hamilton County, IN  
 Hancock County, IN  
 Hendricks County, IN  
 Johnson County, IN  
 Madison County, IN  
 Marion County, IN  
 Morgan County, IN  
 Shelby County, IN

**Iowa City, IA MSA**  
 Johnson County, IA

**Jackson, MI MSA**  
 Jackson County, MI

**Jackson, MS MSA**  
 Hinds County, MS  
 Madison County, MS  
 Rankin County, MS

**Jackson, TN MSA**  
 Madison County, TN

**Jacksonville, FL MSA**  
 Clay County, FL  
 Duval County, FL  
 Nassau County, FL  
 St. Johns County, FL

**Jacksonville, NC MSA**  
 Onslow County, NC

**Jamestown, NY MSA**  
 Chautauqua County, NY

**Janesville—Beloit, WI MSA**  
 Rock County, WI

**Jersey City, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**

**Johnson City–Kingsport–Bristol, TN–VA MSA**

Carter County, TN  
Hawkins County, TN  
Sullivan County, TN  
Unicoi County, TN  
Washington County, TN  
Scott County, VA  
Washington County, VA  
Bristol city, VA

**Johnstown, PA MSA**

Cambria County, PA  
Somerset County, PA

**Joplin, MO MSA**

Jasper County, MO  
Newton County, MO

**Kalamazoo–Battle Creek, MI MSA**

Calhoun County, MI  
Kalamazoo County, MI  
Van Buren County, MI

**Kankakee, IL PMSA—see Chicago–Gary–Kenosha, IL–IN–WI CMSA**

**Kansas City, MO–KS MSA**

Johnson County, KS  
Leavenworth County, KS  
Miami County, KS  
Wyandotte County, KS  
Cass County, MO  
Clay County, MO  
Clinton County, MO  
Jackson County, MO  
Lafayette County, MO  
Platte County, MO  
Ray County, MO

**Kenosha, WI PMSA—see Chicago–Gary–Kenosha, IL–IN–WI CMSA**

**Killeen–Temple, TX MSA**

Bell County, TX  
Coryell County, TX

**Knoxville, TN MSA**

Anderson County, TN  
Blount County, TN  
Knox County, TN  
Loudon County, TN  
Sevier County, TN  
Union County, TN

**Kokomo, IN MSA**

Howard County, IN  
Tipton County, IN

**La Crosse, WI–MN MSA**

Houston County, MN  
La Crosse County, WI

**Lafayette, LA MSA**

Acadia Parish, LA  
Lafayette Parish, LA  
St. Landry Parish, LA  
St. Martin Parish, LA

**Lafayette, IN MSA**

Clinton County, IN  
Tippecanoe County, IN

**Lake Charles, LA MSA**

Calcasieu Parish, LA

**Lakeland–Winter Haven, FL MSA**

Polk County, FL

**Lancaster, PA MSA**

Lancaster County, PA

**Lansing–East Lansing, MI MSA**

Clinton County, MI  
Eaton County, MI  
Ingham County, MI

**Laredo, TX MSA**

Webb County, TX

**Las Cruces, NM MSA**

Dona Ana County, NM

**Las Vegas, NV–AZ MSA**

Mohave County, AZ  
Clark County, NV  
Nye County, NV

**Lawrence, KS MSA**

Douglas County, KS

**Lawrence, MA–NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

**Lawton, OK MSA**

Comanche County, OK

**Lewiston–Auburn, ME MSA**

Androscoggin County, ME (part)  
Auburn city, ME  
Greene town, ME  
Lewiston city, ME  
Lisbon town, ME  
Mechanic Falls town, ME  
Poland town, ME  
Sabattus town, ME  
Turner town, ME  
Wales town, ME

**Lexington, KY MSA**

Bourbon County, KY  
Clark County, KY  
Fayette County, KY  
Jessamine County, KY  
Madison County, KY  
Scott County, KY  
Woodford County, KY

**Lima, OH MSA**

Allen County, OH  
Auglaize County, OH

**Lincoln, NE MSA**

Lancaster County, NE

**Little Rock–North Little Rock, AR MSA**

Faulkner County, AR  
Lonoke County, AR  
Pulaski County, AR  
Saline County, AR

**Longview–Marshall, TX MSA**

Gregg County, TX  
Harrison County, TX  
Upshur County, TX

**Los Angeles–Riverside–Orange County, CA CMSA**

Los Angeles–Long Beach, CA PMSA  
Los Angeles County, CA  
Orange County, CA PMSA  
Orange County, CA  
Riverside–San Bernardino, CA PMSA  
Riverside County, CA  
San Bernardino County, CA  
Ventura, CA PMSA  
Ventura County, CA

**Los Angeles–Long Beach, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**

**Louisville, KY–IN MSA**

Clark County, IN  
Floyd County, IN  
Harrison County, IN  
Scott County, IN  
Bullitt County, KY  
Jefferson County, KY  
Oldham County, KY

**Lowell, MA–NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

**Lubbock, TX MSA**

Lubbock County, TX

**Lynchburg, VA MSA**

Amherst County, VA  
Bedford County, VA  
Campbell County, VA  
Bedford city, VA  
Lynchburg city, VA

**Macon, GA MSA**

Bibb County, GA  
Houston County, GA  
Jones County, GA  
Peach County, GA  
Twiggs County, GA

**Madison, WI MSA**

Dane County, WI

**Manchester, NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

**Mansfield, OH MSA**

Crawford County, OH  
Richland County, OH

**McAllen–Edinburg–Mission, TX MSA**

Hidalgo County, TX

**Medford–Ashland, OR MSA**

Jackson County, OR

**Melbourne–Titusville–Palm Bay, FL MSA**

Brevard County, FL

**Memphis, TN–AR–MS MSA**

Crittenden County, AR  
DeSoto County, MS  
Fayette County, TN  
Shelby County, TN  
Tipton County, TN

**Merced, CA MSA**

Merced County, CA

**Miami–Fort Lauderdale, FL CMSA**

Fort Lauderdale, FL PMSA  
Broward County, FL  
Miami, FL PMSA  
Dade County, FL

**Miami, FL PMSA—see Miami–Fort Lauderdale, FL CMSA**

**Middlesex–Somerset–Hunterdon, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**

**Milwaukee–Waukesha, WI PMSA—see Milwaukee–Racine, WI CMSA**

**Milwaukee–Racine, WI CMSA**

Milwaukee–Waukesha, WI PMSA  
Milwaukee County, WI  
Ozaukee County, WI  
Washington County, WI  
Waukesha County, WI

**Milwaukee-Racine, WI CMSA—Con.**

Racine, WI PMSA  
Racine County, WI

**Minneapolis-St. Paul, MN-WI MSA**

Anoka County, MN  
Carver County, MN  
Chisago County, MN  
Dakota County, MN  
Hennepin County, MN  
Isanti County, MN  
Ramsey County, MN  
Scott County, MN  
Sherburne County, MN  
Washington County, MN  
Wright County, MN  
Pierce County, WI  
St. Croix County, WI

**Mobile, AL MSA**

Baldwin County, AL  
Mobile County, AL

**Modesto, CA MSA**

Stanislaus County, CA

**Monmouth-Ocean, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**

**Monroe, LA MSA**

Ouachita Parish, LA

**Montgomery, AL MSA**

Autauga County, AL  
Elmore County, AL  
Montgomery County, AL

**Muncie, IN MSA**

Delaware County, IN

**Myrtle Beach, SC MSA**

Horry County, SC

**Naples, FL MSA**

Collier County, FL

**Nashua, NH PMSA—see Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA**

**Nashville, TN MSA**

Cheatham County, TN  
Davidson County, TN  
Dickson County, TN  
Robertson County, TN  
Rutherford County, TN  
Sumner County, TN  
Williamson County, TN  
Wilson County, TN

**Nassau-Suffolk, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**

**New Bedford, MA PMSA—see Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA**

**New Haven-Meriden, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**

**New London-Norwich, CT-RI MSA**

Middlesex County, CT (part)  
Fenwick borough, CT  
Old Saybrook town, CT  
New London County, CT (part)  
Bozrah town, CT  
East Lyme town, CT  
Franklin town, CT  
Griswold town balance, CT  
Groton city, CT  
Groton town balance, CT

**New London-Norwich, CT-RI MSA—Con.**

New London County, CT (part)—Con.  
Groton Long Point borough, CT  
Jewett City borough, CT  
Ledyard town, CT  
Lisbon town, CT  
Montville town, CT  
New London city, CT  
North Stonington town, CT  
Norwich city, CT  
Old Lyme town, CT  
Preston town, CT  
Salem town, CT  
Sprague town, CT  
Stonington borough, CT  
Stonington town, CT  
Waterford town, CT  
Windham County, CT (part)  
Canterbury town, CT  
Plainfield town, CT  
Washington County, RI (part)  
Hopkinton town, RI  
Westerly town, RI

**New Orleans, LA MSA**

Jefferson Parish, LA  
Orleans Parish, LA  
Plaquemines Parish, LA  
St. Bernard Parish, LA  
St. Charles Parish, LA  
St. James Parish, LA  
St. John the Baptist Parish, LA  
St. Tammany Parish, LA

**New York, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**

**New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA**

Bergen-Passaic, NJ PMSA  
Bergen County, NJ  
Passaic County, NJ  
Bridgeport, CT PMSA  
Fairfield County, CT (part)  
Bridgeport city, CT  
Easton town, CT  
Fairfield town, CT  
Monroe town, CT  
Shelton city, CT  
Stratford town, CT  
Trumbull town, CT  
New Haven County, CT (part)  
Ansonia city, CT  
Beacon Falls town, CT  
Derby city, CT  
Milford city (balance), CT  
Oxford town, CT  
Seymour town, CT  
Woodmont borough, CT  
Danbury, CT PMSA  
Fairfield County, CT (part)  
Bethel town, CT  
Brookfield town, CT  
Danbury city, CT  
New Fairfield town, CT  
Newtown borough, CT  
Newtown town, CT  
Redding town, CT  
Ridgefield town, CT  
Sherman town, CT  
Litchfield County, CT (part)  
Bridgewater town, CT  
New Milford town, CT  
Roxbury town, CT  
Washington town, CT  
Dutchess County, NY PMSA  
Dutchess County, NY

**New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA—Con.**

Jersey City, NJ PMSA  
Hudson County, NJ  
Middlesex-Somerset-Hunterdon, NJ PMSA  
Hunterdon County, NJ  
Middlesex County, NJ  
Somerset County, NJ  
Monmouth-Ocean, NJ PMSA  
Monmouth County, NJ  
Ocean County, NJ  
Nassau-Suffolk, NY PMSA  
Nassau County, NY  
Suffolk County, NY  
New Haven-Meriden, CT PMSA  
Middlesex County, CT (part)  
Clinton town, CT  
Killingworth town, CT  
New Haven County, CT (part)  
Bethany town, CT  
Branford town, CT  
Cheshire town, CT  
East Haven town, CT  
Guilford town, CT  
Hamden town, CT  
Madison town, CT  
Meriden city, CT  
New Haven city, CT  
North Branford town, CT  
North Haven town, CT  
Orange town, CT  
Wallingford town, CT  
West Haven city, CT  
Woodbridge town, CT  
New York, NY PMSA  
Bronx County, NY  
Kings County, NY  
New York County, NY  
Putnam County, NY  
Queens County, NY  
Richmond County, NY  
Rockland County, NY  
Westchester County, NY  
Newark, NJ PMSA  
Essex County, NJ  
Morris County, NJ  
Sussex County, NJ  
Union County, NJ  
Warren County, NJ  
Newburgh, NY-PA PMSA  
Orange County, NY  
Pike County, PA  
Stamford-Norwalk, CT PMSA  
Fairfield County, CT (part)  
Darien town, CT  
Greenwich town, CT  
New Canaan town, CT  
Norwalk city, CT  
Stamford city, CT  
Weston town, CT  
Westport town, CT  
Wilton town, CT  
Trenton, NJ PMSA  
Mercer County, NJ  
Waterbury, CT PMSA  
Litchfield County, CT (part)  
Bethlehem town, CT  
Thomaston town, CT  
Watertown town, CT  
Woodbury town, CT  
New Haven County, CT (part)  
Middlebury town, CT  
Naukatuck borough, CT  
Prospect town, CT  
Southbury town, CT  
Waterbury city, CT  
Wolcott town, CT

**Newark, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**

**Newburgh, NY–PA PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**

**Norfolk–Virginia Beach–Newport News, VA–NC MSA**

Currituck County, NC  
 Gloucester County, VA  
 Isle of Wight County, VA  
 James City County, VA  
 Mathews County, VA  
 York County, VA  
 Chesapeake city, VA  
 Hampton city, VA  
 Newport News city, VA  
 Norfolk city, VA  
 Poquoson city, VA  
 Portsmouth city, VA  
 Suffolk city, VA  
 Virginia Beach city, VA  
 Williamsburg city, VA

**Oakland, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**

**Ocala, FL MSA**

Marion County, FL

**Odessa–Midland, TX MSA**

Ector County, TX  
 Midland County, TX

**Oklahoma City, OK MSA**

Canadian County, OK  
 Cleveland County, OK  
 Logan County, OK  
 McClain County, OK  
 Oklahoma County, OK  
 Pottawatomie County, OK

**Olympia, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA**

**Omaha, NE–IA MSA**

Pottawattamie County, IA  
 Cass County, NE  
 Douglas County, NE  
 Sarpy County, NE  
 Washington County, NE

**Orange County, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**

**Orlando, FL MSA**

Lake County, FL  
 Orange County, FL  
 Osceola County, FL  
 Seminole County, FL

**Owensboro, KY MSA**

Daviess County, KY

**Panama City, FL MSA**

Bay County, FL

**Parkersburg–Marietta, WV–OH MSA**

Washington County, OH  
 Wood County, WV

**Pensacola, FL MSA**

Escambia County, FL  
 Santa Rosa County, FL

**Peoria–Pekin, IL MSA**

Peoria County, IL  
 Tazewell County, IL  
 Woodford County, IL

**Philadelphia, PA–NJ PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**

**Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**

Atlantic–Cape May, NJ PMSA  
 Atlantic County, NJ  
 Cape May County, NJ

Philadelphia, PA–NJ PMSA

Burlington County, NJ  
 Camden County, NJ  
 Gloucester County, NJ  
 Salem County, NJ  
 Bucks County, PA  
 Chester County, PA  
 Delaware County, PA  
 Montgomery County, PA

Philadelphia County, PA  
 Vineland–Millville–Bridgeton, NJ PMSA  
 Cumberland County, NJ

Wilmington–Newark, DE–MD PMSA  
 New Castle County, DE  
 Cecil County, MD

**Phoenix–Mesa, AZ MSA**

Maricopa County, AZ  
 Pinal County, AZ

**Pine Bluff, AR MSA**

Jefferson County, AR

**Pittsburgh, PA MSA**

Allegheny County, PA  
 Beaver County, PA  
 Butler County, PA  
 Fayette County, PA  
 Washington County, PA  
 Westmoreland County, PA

**Pittsfield, MA MSA**

Berkshire County, MA (part)  
 Adams town, MA  
 Cheshire town, MA  
 Dalton town, MA  
 Hinsdale town, MA  
 Lanesborough town, MA  
 Lee town, MA  
 Lenox town, MA  
 Pittsfield city, MA  
 Richmond town, MA  
 Stockbridge town, MA

**Portland, ME MSA**

Cumberland County, ME (part)  
 Cape Elizabeth town, ME  
 Casco town, ME  
 Cumberland town, ME  
 Falmouth town, ME  
 Freeport town, ME  
 Gorham town, ME  
 Gray town, ME  
 North Yarmouth town, ME  
 Portland city, ME  
 Raymond town, ME  
 Scarborough town, ME  
 South Portland city, ME  
 Standish town, ME  
 Westbrook city, ME  
 Windham town, ME  
 Yarmouth town, ME  
 York County, ME (part)  
 Buxton town, ME  
 Hollis town, ME  
 Limington town, ME  
 Old Orchard Beach town, ME

**Portland–Vancouver, OR–WA PMSA—see Portland–Salem, OR–WA CMSA**

**Portland–Salem, OR–WA CMSA**

Portland–Vancouver, OR–WA PMSA

Clackamas County, OR  
 Columbia County, OR  
 Multnomah County, OR  
 Washington County, OR  
 Yamhill County, OR  
 Clark County, WA

Salem, OR PMSA

Marion County, OR  
 Polk County, OR

**Portsmouth–Rochester, NH–ME PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

**Providence–Fall River–Warwick, RI–MA MSA**

Bristol County, MA (part)  
 Attleboro city, MA  
 Fall River city, MA  
 North Attleborough town, MA  
 Rehoboth town, MA  
 Seekonk town, MA  
 Somerset town, MA  
 Swansea town, MA  
 Westport town, MA  
 Bristol County, RI  
 Barrington town, RI  
 Bristol town, RI  
 Warren town, RI  
 Kent County, RI  
 Coventry town, RI  
 East Greenwich town, RI  
 Warwick city, RI  
 West Greenwich town, RI  
 West Warwick town, RI  
 Newport County, RI (part)  
 Jamestown town, RI  
 Little Compton town, RI  
 Tiverton town, RI  
 Providence County, RI  
 Burrillville town, RI  
 Central Falls city, RI  
 Cranston city, RI  
 Cumberland town, RI  
 East Providence city, RI  
 Foster town, RI  
 Glocester town, RI  
 Johnston town, RI  
 Lincoln town, RI  
 North Providence town, RI  
 North Smithfield town, RI  
 Pawtucket city, RI  
 Providence city, RI  
 Scituate town, RI  
 Smithfield town, RI  
 Woonsocket city, RI  
 Washington County, RI (part)  
 Charlestown town, RI  
 Exeter town, RI  
 Narragansett town, RI  
 North Kingstown town, RI  
 Richmond town, RI  
 South Kingstown town, RI

**Provo–Orem, UT MSA**

Utah County, UT

**Pueblo, CO MSA**

Pueblo County, CO

**Punta Gorda, FL MSA**

Charlotte County, FL

**Racine, WI PMSA—see Milwaukee–Racine, WI CMSA**

**Raleigh–Durham–Chapel Hill, NC MSA**

Chatham County, NC  
Durham County, NC  
Franklin County, NC  
Johnston County, NC  
Orange County, NC  
Wake County, NC

**Rapid City, SD MSA**

Pennington County, SD

**Reading, PA MSA**

Berks County, PA

**Redding, CA MSA**

Shasta County, CA

**Reno, NV MSA**

Washoe County, NV

**Richland–Kennewick–Pasco, WA MSA**

Benton County, WA  
Franklin County, WA

**Richmond–Petersburg, VA MSA**

Charles City County, VA  
Chesterfield County, VA  
Dinwiddie County, VA  
Goochland County, VA  
Hanover County, VA  
Henrico County, VA  
New Kent County, VA  
Powhatan County, VA  
Prince George County, VA  
Colonial Heights city, VA  
Hopewell city, VA  
Petersburg city, VA  
Richmond city, VA

**Riverside–San Bernardino, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**

**Roanoke, VA MSA**

Botetourt County, VA  
Roanoke County, VA  
Roanoke city, VA  
Salem city, VA

**Rochester, MN MSA**

Olmsted County, MN

**Rochester, NY MSA**

Genesee County, NY  
Livingston County, NY  
Monroe County, NY  
Ontario County, NY  
Orleans County, NY  
Wayne County, NY

**Rockford, IL MSA**

Boone County, IL  
Ogle County, IL  
Winnebago County, IL

**Rocky Mount, NC MSA**

Edgecombe County, NC  
Nash County, NC

**Sacramento, CA PMSA—see Sacramento–Yolo, CA CMSA**

**Sacramento–Yolo, CA CMSA**

Sacramento, CA PMSA  
El Dorado County, CA  
Placer County, CA  
Sacramento County, CA  
Yolo, CA PMSA  
Yolo County, CA

**Saginaw–Bay City–Midland, MI MSA**

Bay County, MI  
Midland County, MI  
Saginaw County, MI

**St. Cloud, MN MSA**

Benton County, MN  
Stearns County, MN

**St. Joseph, MO MSA**

Andrew County, MO  
Buchanan County, MO

**St. Louis, MO–IL MSA**

Clinton County, IL  
Jersey County, IL  
Madison County, IL  
Monroe County, IL  
St. Clair County, IL  
Franklin County, MO  
Jefferson County, MO  
Lincoln County, MO  
St. Charles County, MO  
St. Louis County, MO  
Warren County, MO  
St. Louis city, MO

**Salem, OR PMSA—see Portland–Salem, OR–WA CMSA**

**Salinas, CA MSA**

Monterey County, CA

**Salt Lake City–Ogden, UT MSA**

Davis County, UT  
Salt Lake County, UT  
Weber County, UT

**San Angelo, TX MSA**

Tom Green County, TX

**San Antonio, TX MSA**

Bexar County, TX  
Comal County, TX  
Guadalupe County, TX  
Wilson County, TX

**San Diego, CA MSA**

San Diego County, CA

**San Francisco, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**

**San Francisco–Oakland–San Jose, CA CMSA**

Oakland, CA PMSA  
Alameda County, CA  
Contra Costa County, CA  
San Francisco, CA PMSA  
Marin County, CA  
San Francisco County, CA  
San Mateo County, CA  
San Jose, CA PMSA  
Santa Clara County, CA  
Santa Cruz–Watsonville, CA PMSA  
Santa Cruz County, CA  
Santa Rosa, CA PMSA  
Sonoma County, CA  
Vallejo–Fairfield–Napa, CA PMSA  
Napa County, CA  
Solano County, CA

**San Jose, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**

**San Luis Obispo–Atascadero–Paso Robles, CA MSA**

San Luis Obispo County, CA

**Santa Barbara–Santa Maria–Lompoc, CA MSA**

Santa Barbara County, CA

**Santa Cruz–Watsonville, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**

**Santa Fe, NM MSA**

Los Alamos County, NM  
Santa Fe County, NM

**Santa Rosa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**

**Sarasota–Bradenton, FL MSA**

Manatee County, FL  
Sarasota County, FL

**Savannah, GA MSA**

Bryan County, GA  
Chatham County, GA  
Effingham County, GA

**Scranton–Wilkes-Barre–Hazleton, PA MSA**

Columbia County, PA  
Lackawanna County, PA  
Luzerne County, PA  
Wyoming County, PA

**Seattle–Bellevue–Everett, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA**

**Seattle–Tacoma–Bremerton, WA CMSA**

Bremerton, WA PMSA  
Kitsap County, WA  
Olympia, WA PMSA  
Thurston County, WA  
Seattle–Bellevue–Everett, WA PMSA  
Island County, WA  
King County, WA  
Snohomish County, WA  
Tacoma, WA PMSA  
Pierce County, WA

**Sharon, PA MSA**

Mercer County, PA

**Sheboygan, WI MSA**

Sheboygan County, WI

**Sherman–Denison, TX MSA**

Grayson County, TX

**Shreveport–Bossier City, LA MSA**

Bossier Parish, LA  
Caddo Parish, LA  
Webster Parish, LA

**Sioux City, IA–NE MSA**

Woodbury County, IA  
Dakota County, NE

**Sioux Falls, SD MSA**

Lincoln County, SD  
Minnehaha County, SD

**South Bend, IN MSA**

St. Joseph County, IN

**Spokane, WA MSA**

Spokane County, WA

**Springfield, IL MSA**

Menard County, IL  
Sangamon County, IL

**Springfield, MO MSA**

Christian County, MO  
Greene County, MO  
Webster County, MO

**Springfield, MA MSA**

Franklin County, MA (part)  
Sunderland town, MA  
Hampden County, MA (part)  
Agawam city, MA  
Chicopee city, MA

- Springfield, MA MSA—Con.**  
 Hampden County, MA (part)—Con.  
 East Longmeadow town, MA  
 Hampden town, MA  
 Holyoke city, MA  
 Longmeadow town, MA  
 Ludlow town, MA  
 Monson town, MA  
 Montgomery town, MA  
 Palmer town, MA  
 Russell town, MA  
 Southwick town, MA  
 Springfield city, MA  
 Westfield city, MA  
 West Springfield town, MA  
 Wilbraham town, MA  
**Hampshire County, MA (part)**  
 Amherst town, MA  
 Belchertown town, MA  
 Easthampton town, MA  
 Granby town, MA  
 Hadley town, MA  
 Hatfield town, MA  
 Huntington town, MA  
 Northampton city, MA  
 Southampton town, MA  
 South Hadley town, MA  
 Ware town, MA  
 Williamsburg town, MA
- Stamford–Norwalk, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- State College, PA MSA**  
 Centre County, PA
- Steubenville–Weirton, OH–WV MSA**  
 Jefferson County, OH  
 Brooke County, WV  
 Hancock County, WV
- Stockton–Lodi, CA MSA**  
 San Joaquin County, CA
- Sumter, SC MSA**  
 Sumter County, SC
- Syracuse, NY MSA**  
 Cayuga County, NY  
 Madison County, NY  
 Onondaga County, NY  
 Oswego County, NY
- Tacoma, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA**
- Tallahassee, FL MSA**  
 Gadsden County, FL  
 Leon County, FL
- Tampa–St. Petersburg–Clearwater, FL MSA**  
 Hernando County, FL  
 Hillsborough County, FL  
 Pasco County, FL  
 Pinellas County, FL
- Terre Haute, IN MSA**  
 Clay County, IN  
 Vermillion County, IN  
 Vigo County, IN
- Texarkana, TX–Texarkana, AR MSA**  
 Miller County, AR  
 Bowie County, TX
- Toledo, OH MSA**  
 Fulton County, OH  
 Lucas County, OH  
 Wood County, OH
- Topeka, KS MSA**  
 Shawnee County, KS
- Trenton, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- Tucson, AZ MSA**  
 Pima County, AZ
- Tulsa, OK MSA**  
 Creek County, OK  
 Osage County, OK  
 Rogers County, OK  
 Tulsa County, OK  
 Wagoner County, OK
- Tuscaloosa, AL MSA**  
 Tuscaloosa County, AL
- Tyler, TX MSA**  
 Smith County, TX
- Utica–Rome, NY MSA**  
 Herkimer County, NY  
 Oneida County, NY
- Vallejo–Fairfield–Napa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- Ventura, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**
- Victoria, TX MSA**  
 Victoria County, TX
- Vineland–Millville–Bridgeton, NJ PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**
- Visalia–Tulare–Porterville, CA MSA**  
 Tulare County, CA
- Waco, TX MSA**  
 McLennan County, TX
- Washington, DC–MD–VA–WV PMSA—see Washington–Baltimore, DC–MD–VA–WV CMSA**
- Washington–Baltimore, DC–MD–VA–WV CMSA**  
 Baltimore, MD PMSA  
 Anne Arundel County, MD  
 Baltimore County, MD  
 Carroll County, MD  
 Harford County, MD  
 Howard County, MD  
 Queen Anne’s County, MD  
 Baltimore city, MD  
 Hagerstown, MD PMSA  
 Washington County, MD  
**Washington, DC–MD–VA–WV PMSA**  
 District of Columbia, DC  
 Calvert County, MD  
 Charles County, MD  
 Frederick County, MD  
 Montgomery County, MD  
 Prince George’s County, MD  
 Arlington County, VA  
 Clarke County, VA  
 Culpeper County, VA  
 Fairfax County, VA
- Washington–Baltimore, DC–MD–VA–WV CMSA—Con.**  
 Washington, DC–MD–VA–WV PMSA—Con.  
 Fauquier County, VA  
 King George County, VA  
 Loudoun County, VA  
 Prince William County, VA  
 Spotsylvania County, VA  
 Stafford County, VA  
 Warren County, VA  
 Alexandria city, VA  
 Fairfax city, VA  
 Falls Church city, VA  
 Fredericksburg city, VA  
 Manassas city, VA  
 Manassas Park city, VA  
 Berkeley County, WV  
 Jefferson County, WV
- Waterbury, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- Waterloo–Cedar Falls, IA MSA**  
 Black Hawk County, IA
- Wausau, WI MSA**  
 Marathon County, WI
- West Palm Beach–Boca Raton, FL MSA**  
 Palm Beach County, FL
- Wheeling, WV–OH MSA**  
 Belmont County, OH  
 Marshall County, WV  
 Ohio County, WV
- Wichita, KS MSA**  
 Butler County, KS  
 Harvey County, KS  
 Sedgwick County, KS
- Wichita Falls, TX MSA**  
 Archer County, TX  
 Wichita County, TX
- Williamsport, PA MSA**  
 Lycoming County, PA
- Wilmington–Newark, DE–MD PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**
- Wilmington, NC MSA**  
 Brunswick County, NC  
 New Hanover County, NC
- Worcester, MA–CT PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**
- Yakima, WA MSA**  
 Yakima County, WA
- Yolo, CA PMSA—see Sacramento–Yolo, CA CMSA**
- York, PA MSA**  
 York County, PA
- Youngstown–Warren, OH MSA**  
 Columbiana County, OH  
 Mahoning County, OH  
 Trumbull County, OH
- Yuba City, CA MSA**  
 Sutter County, CA  
 Yuba County, CA
- Yuma, AZ MSA**  
 Yuma County, AZ

# Publication Program

## 1992 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)

Data products in the census of construction industries are issued in four publication series and in three media:

- Printed reports [P]
- CD-ROM [C]
- Highlights online [+]

## Preliminary Industry Series (CC92-I-1(P) to -27(P))

(Available July 1994 through January 1995) [P] [C]

Twenty-six separate industry reports and a U.S. summary report, providing national statistics for establishments with payroll. Statistics shown for 1992 include:

- Number of establishments
- Number of employees
- Payroll
- Value of construction work done, by type of structure
- Selected operating costs

## Final Industry Series (CC92-I-1 to -27)

(Available April 1995 through January 1996) [P] [C] [+]

Twenty-six separate industry reports and a U.S. summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

## Geographic Area Series (CC92-A-1 to -10)

(Available March 1996 through May 1996) [P] [C] [+]

Nine reports on the construction industries, representing each census geographic division, and a U.S. summary report. Regional reports provide detailed data for States and metropolitan areas.

## Subject Report—Legal Form of Organization and Type of Operation (CC92-S-1)

(Available November 1995) [P] [C]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

## OTHER ECONOMIC CENSUS REPORTS

The census of construction industries is part of the 1992 Economic Census. The economic census is conducted at 5-year intervals in years ending in 2 and 7 and consists of eight separate censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the census of outlying areas, including separate economic census of Puerto Rico and other outlying areas. The census of agriculture and census of governments are conducted separately.

## HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300. If you have any questions, call Census Customer Services 1-301-457-4100.