

1992

Census of

Construction Industries

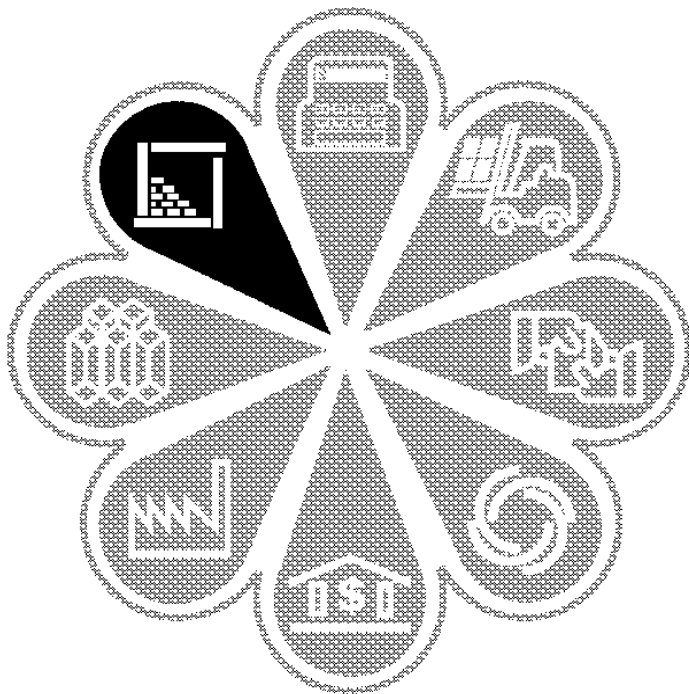
CC92-I-27

INDUSTRY SERIES

United States

Summary

Establishments With
and Without Payroll



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 **Juliana Van Berkum**, **Jennifer L. Evans**, **Susan L. Hostetter**, **Doris M. Kling**, **Carolyn J. Stone**, and **Linda M. Taylor**. The sampling plans and variance and estimation specifications were developed by **Dennis K. Duke**. Under the direction of **C. Lloyd Anderson**, the Systems Support Staff maintained the small computers and assisted in the management of computer output.

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Geographic coding procedures and associated computer programs were developed by the staff of the Geography Division, **Joel Morrison**, Chief.

The computer processing systems were developed and coordinated in the Economic Statistical Methods and Programming Division, **Charles P. Paulter, Jr.**, Chief, and **Sarah W. Baumgardner**, Assistant Chief. **Samuel Rozenel**, Chief, Current Construction Branch, was responsible for the design and implementation of the computer systems. The computer programs were prepared under the supervision of **Leonard S. Sammarco** and **Kevin J. Montgomery**.

Computer processing was performed in the Computer Services Division, **Marvin D. Raines**, Chief.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed planning, design, composition, editorial review, and printing planning and procurement for the publications and report forms. **Bernadette J. Gayle** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

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

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United States Summary

Establishments With
and Without Payroll

Issued December 1995



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Economics and Statistics Administration
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BUREAU OF THE CENSUS
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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

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 census 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*¹ (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.

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

¹*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.

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.

VIII CENSUS OF CONSTRUCTION

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	For U.S.	By industry	By employ- ment size	By size class of dollar value of business done	By type, class, kind of business, and location of con- struction ¹	Auxiliary establish- ments
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment	5, 6					
End of year—total	2, 5, 6	2	8	9		
End of year—buildings, machinery and equipment	5, 6					
Depreciation charges during year— buildings, machinery and equipment	5, 6					
Capital expenditures:						
Total capital expenditures	2, 5, 6	2	8	9		
New buildings—machinery and equipment	5, 6					
Used buildings—machinery and equipment	5, 6					
Communication services, costs for	3, 4					
Employees:						
All employees—average number	1, 2, 3, 4	1, 2	8	9		
Construction workers—average number	2, 3, 4, 11	2, 11				
Construction workers—quarterly	3, 4, 11	11				
Other employees—average number	3, 4					
Establishments—number in business during year:						
All	1	1				
With payroll	1, 2, 3, 4, 7, 11	1, 2, 11	8	9		17
Without payroll	1	1				
Fringe benefits—legally required and voluntary expenditures	3, 4					
Inventories	7					
Materials, components, supplies, and fuels—costs for	2, 3, 4	2	8	9		
Ownership—private or government owned	3, 4					
Payroll:						
First-quarter, all employees	3, 4					
Annual:						
All employees	2, 3, 4	2	8	9		17
Construction workers	2, 3, 4	2				
Other employees	3, 4					
Power, fuels, and lubricants—costs for	3, 4					
Proprietors and working partners:						
All establishments	1	1				
Establishments with payroll	1, 3, 4	1				
Establishments without payroll	1	1				
Ratios, selected industry	15, 16	15, 16				
Receipts and value:						
Dollar value of business done:						
All establishments	1	1				
Establishments with payroll	1, 3, 4	1	8	9	13, 14	
Establishments without payroll	1	1				
Value of construction work, total	2, 3, 4	2	8	9	10, 12	
For work subcontracted in from others	3, 4					
Other business receipts	3, 4					
Net value of construction work	2, 3, 4	2	8	9		
Value added	2, 3, 4	2	8	9		

See footnotes at end of table.

Statistics	For U.S.	By industry	By employ-ment size	By size class of dollar value of business done	By type, class, kind of business, and location of construction ¹	Auxiliary establish-ments
Rental costs:						
Total	2, 3, 4	2	8	9		
For machinery and equipment	3, 4					
For buildings	3, 4					
Repairs to buildings and other structures	3, 4					
Repairs to machinery and equipment	3, 4					
Subcontract work to others, costs for	2, 3, 4	2	8	9		

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

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work.

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United States Summary

Establishments With and Without Payroll

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SUMMARY OF FINDINGS

This report summarizes data previously published in 26 separate industry reports covering construction establishments with payroll. In addition, limited data on construction establishments with no payroll during 1992 obtained from administrative records of the Federal Government are included. (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 *Standard Industrial Classification Manual: 1987* (SIC). 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 nearly 2 million establishments in the United States operating in the construction industries. These establishments accounted for \$582 billion in total value of business done.

Most of the 2 million construction establishments were small. Of the total, 1.3 million were nonemployers, and over half of the employer establishments had less than 5 employees. However, the 214,207 establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 80 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$539 billion in total dollar value of business done. Of this amount, \$528 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$137 billion, leaving net value of construction work of \$391 billion. In addition, these establishments paid out \$26 billion for the cost of fuels, power, rental of equipment and buildings, and the cost of selected purchased services. Value added for 1992 was \$235 billion. (See Introduction and appendixes for explanation of terms.)

There were 572,851 establishments with total employment averaging 4,668,280 during the year. Total payroll for 1992 was \$118 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 1.3 million establishments with no payroll classified as construction. According to administrative records of the Federal Government, their value of business done during 1992 was \$43 billion. 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.

1992
1987

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

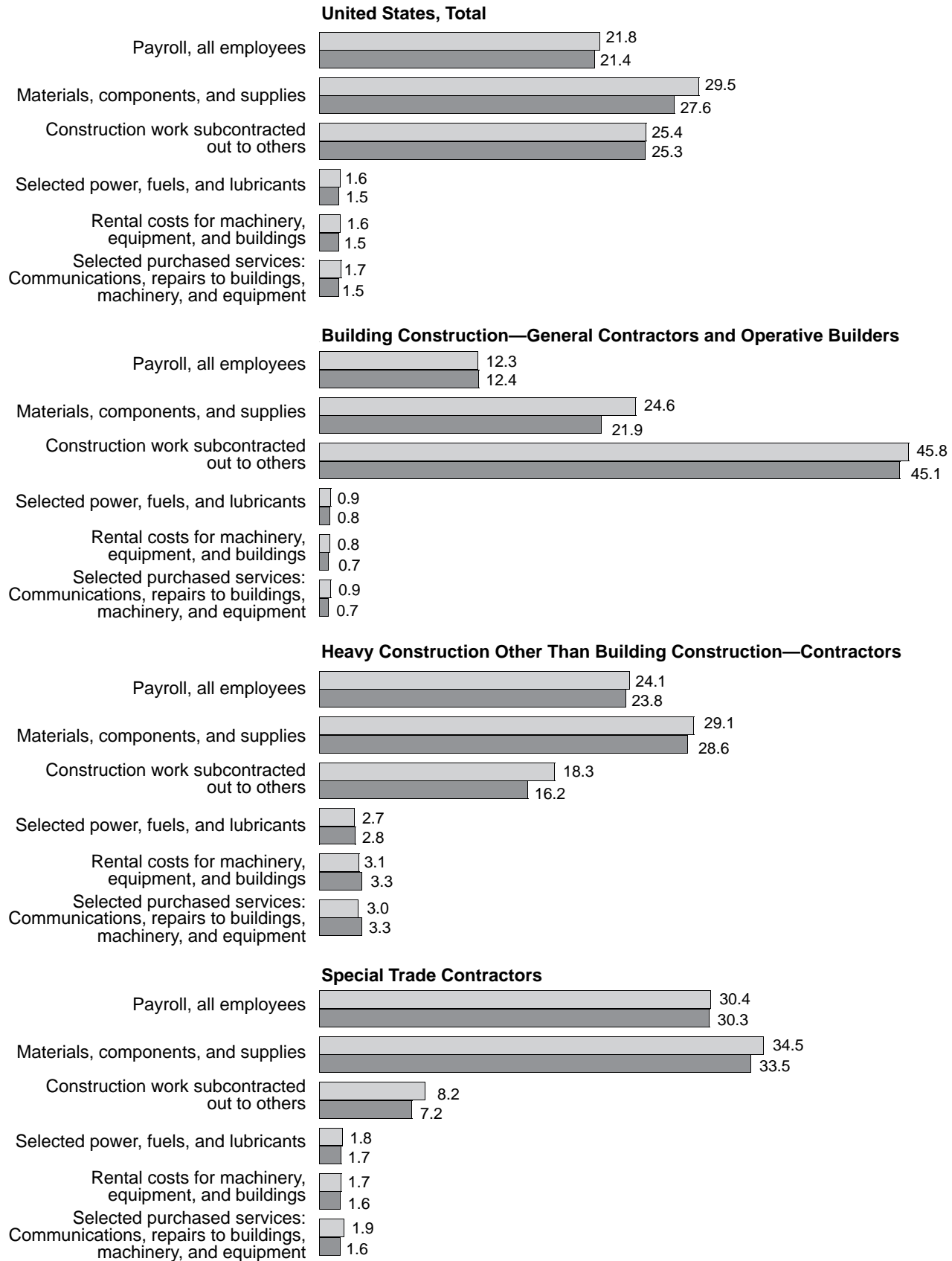


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

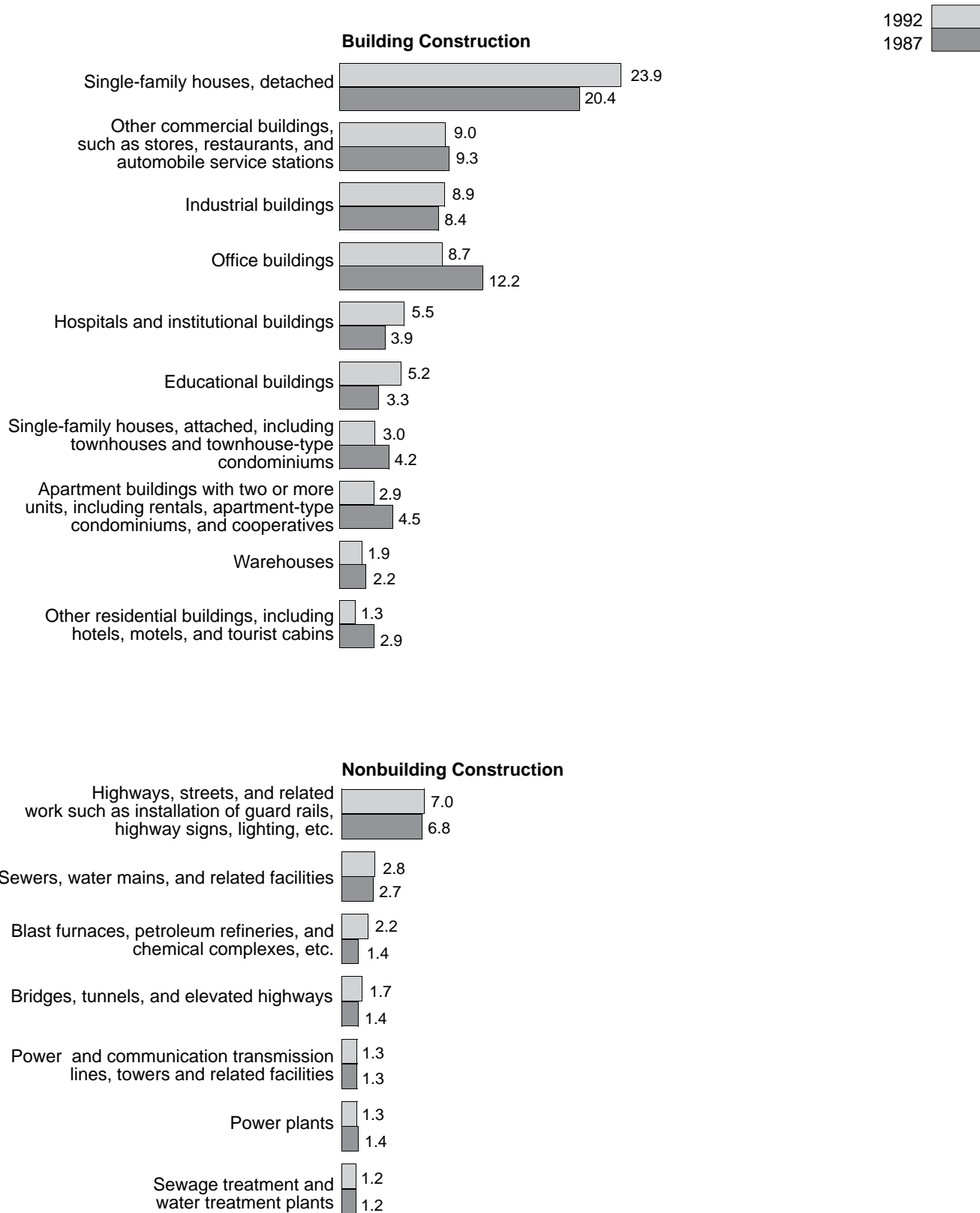


Table 1. Summary Statistics for Establishments With and Without Payroll: 1992 and 1987

[Thousand dollars. Detail may not add to total because of 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 ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K		
1992														
15, 16, 17	Construction industries	1 922 631	1 569 215	4 668 280	581 630 401	1 349 780	1 318 174	42 545 744	572 851	251 041	4 668 280	539 084 657	(Z)	(Z)
15	Building construction—general contractors and operative builders	395 043	277 129	1 096 859	236 462 718	226 636	206 080	16 231 503	168 407	71 049	1 096 859	220 231 215	(Z)	(Z)
152	General contractors, residential buildings	295 870	219 339	452 557	71 578 639	181 884	162 904	14 155 785	113 986	56 435	452 557	57 422 854	1	1
1531	Operative builders	45 076	31 944	114 194	47 452 859	28 087	27 171	1 325 148	16 989	4 773	114 194	46 127 711	1	1
154	General contractors, nonresidential buildings	54 097	25 845	530 108	117 431 220	16 665	16 005	750 570	37 432	9 840	530 108	116 680 650	(Z)	(Z)
16	Heavy construction other than building construction—contractors	59 464	32 569	799 422	99 319 134	22 284	21 072	790 952	37 180	11 497	799 422	98 528 182	(Z)	(Z)
1611	Highway and street construction	15 000	7 501	257 356	36 809 447	4 910	4 825	163 613	10 090	2 676	257 356	36 645 834	(Z)	(Z)
162	Heavy construction, except highway	44 464	25 068	542 066	62 509 687	17 374	16 247	627 339	27 090	8 821	542 066	61 882 348	(Z)	(Z)
17	Special trade contractors	1 468 123	1 259 517	2 771 999	245 848 549	1 100 860	1 091 022	25 523 289	367 263	168 495	2 771 999	220 325 260	(Z)	(Z)
1711	Plumbing, heating, and air-conditioning	168 663	119 985	612 516	60 752 005	93 268	91 391	3 084 024	75 395	28 594	612 516	57 667 981	(Z)	(Z)
1721	Painting and paper hanging	207 594	197 264	162 587	11 514 299	175 674	177 284	2 774 525	31 920	20 000	162 587	8 739 774	1	1
1731	Electrical work	135 087	96 728	487 072	42 555 710	81 065	78 697	1 828 669	54 022	18 031	487 072	40 727 041	(Z)	(Z)
174	Masonry, stonework, tile setting, and plastering	149 736	129 532	388 573	27 389 802	101 952	102 733	2 181 396	47 784	26 799	388 573	25 208 406	(Z)	(Z)
175	Carpentry and floor work	405 695	388 503	226 549	24 577 849	357 289	359 177	7 006 339	48 406	29 326	226 549	17 571 510	1	1
1761	Roofing, siding, and sheet metal work	91 300	76 821	215 545	18 567 644	63 731	64 333	1 593 033	27 569	12 488	215 545	16 974 611	1	1
1771	Concrete work	54 875	42 055	192 539	15 256 182	28 752	28 911	660 147	26 123	13 144	192 539	14 596 035	1	1
1781	Water well drilling	5 113	3 355	19 346	1 832 037	1 475	1 604	80 747	3 638	1 751	19 346	1 751 290	2	2
179	Miscellaneous special trade contractors	250 059	205 276	467 272	43 403 020	197 654	186 912	6 314 409	52 405	18 364	467 272	37 088 611	(Z)	(Z)
1987														
15, 16, 17	Construction industries	1 904 598	1 482 273	5 014 598	578 421 743	1 368 322	1 343 572	63 484 147	536 276	138 701	5 014 598	514 937 596	(Z)	(Z)
15	Building construction—general contractors and operative builders	443 428	297 549	1 278 422	252 552 632	285 789	262 578	27 364 492	157 639	34 971	1 278 422	225 188 140	(Z)	(Z)
152	General contractors, residential buildings	364 595	269 332	477 999	79 329 638	266 074	243 557	25 631 377	98 521	25 775	477 999	53 698 261	(Z)	1
1531	Operative builders	40 177	22 416	168 940	59 072 275	19 411	18 969	1 598 238	20 766	3 447	168 940	57 474 037	1	1
154	General contractors, nonresidential buildings	38 655	5 798	631 481	114 150 717	(S)	(S)	(S)	38 351	5 746	631 481	114 015 840	(Z)	(Z)
16	Heavy construction other than building construction—contractors	56 904	26 898	827 126	87 518 148	20 307	19 788	1 845 580	36 597	7 110	827 126	85 672 568	(Z)	(Z)
1611	Highway and street construction	15 853	6 591	284 380	36 052 415	4 867	4 954	524 380	10 986	1 637	284 380	35 528 035	(Z)	(Z)
162	Heavy construction, except highway	41 050	20 306	542 744	51 465 732	15 440	14 834	1 321 200	25 610	5 472	542 744	50 144 532	(Z)	(Z)
17	Special trade contractors	1 404 266	1 157 826	2 909 050	238 350 963	1 062 226	1 061 206	34 274 075	342 040	96 620	2 909 050	204 076 888	(Z)	(Z)
1711	Plumbing, heating, and air-conditioning	161 578	109 325	617 333	54 397 222	92 012	91 343	4 177 569	69 566	17 982	617 333	50 219 653	(Z)	(Z)
1721	Painting and paper hanging	196 458	180 098	169 968	11 658 175	166 591	168 573	3 630 202	29 867	11 525	169 968	8 027 973	1	1
1731	Electrical work	125 159	86 116	509 309	38 863 014	75 723	74 710	2 587 757	49 436	11 406	509 309	36 275 257	1	(Z)
174	Masonry, stonework, tile setting, and plastering	146 327	117 841	456 961	31 406 516	100 145	101 216	3 561 418	46 182	16 625	456 961	27 845 098	(Z)	(Z)
175	Carpentry and floor work	382 118	354 454	235 010	23 476 144	337 935	340 217	8 252 005	44 183	14 237	235 010	15 224 139	(Z)	1
1761	Roofing, siding, and sheet metal work	79 890	61 946	231 137	17 319 518	54 217	54 930	2 060 627	25 673	7 016	231 137	15 258 891	1	1
1771	Concrete work	49 874	34 155	218 194	16 478 407	26 452	26 989	1 266 358	23 422	7 166	218 194	15 212 049	1	1
1781	Water well drilling	8 601	6 567	17 598	1 653 360	5 187	5 417	285 013	3 414	1 150	17 598	1 368 347	2	2
179	Miscellaneous special trade contractors	254 254	207 317	453 532	43 098 601	203 964	197 811	8 453 126	50 290	9 506	453 532	34 645 475	(Z)	(Z)

Note: Number of establishments in this and subsequent tables represents those in business at any time during the year.

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

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

[Thousand dollars. Detail may not add to total because of 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			
15, 16, 17	Construction industries	572 851	4 668 280	3 596 200	117 729 651	83 048 158	528 105 847	391 189 891	234 617 817
15	Building construction—general contractors and operative builders	168 407	1 096 859	759 057	27 077 574	16 124 696	215 628 967	114 722 152	63 116 790
152	General contractors, residential buildings:								
1521	Single-family houses	107 495	403 754	296 236	7 277 890	4 869 474	48 633 331	33 660 224	17 183 012
1522	Other residential buildings	6 490	48 803	35 107	1 160 562	717 595	7 834 956	4 337 918	2 453 669
1531	Operative builders	16 989	114 194	49 693	3 358 753	1 044 923	44 588 033	26 843 321	15 288 760
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	7 693	122 970	92 068	3 476 400	2 309 756	20 585 807	10 967 289	6 437 735
1542	Nonresidential buildings, n.e.c.	29 739	407 138	285 952	11 803 969	7 182 947	93 986 840	38 913 401	21 753 615
16	Heavy construction other than building construction—contractors	37 180	799 422	647 406	23 728 285	17 621 730	95 571 457	77 526 108	49 165 312
1611	Highway and street construction	10 090	257 356	211 161	7 357 719	5 456 665	35 331 607	27 862 971	15 710 659
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	1 041	43 701	36 116	1 485 491	1 125 201	7 198 275	5 315 950	3 078 306
1623	Water, sewer, and utility lines	10 233	194 252	160 105	5 624 369	4 252 249	20 205 048	17 587 363	11 734 058
1629	Heavy construction, n.e.c.	15 816	304 113	240 024	9 260 705	6 787 615	32 836 527	26 759 824	18 642 289
17	Special trade contractors	367 263	2 771 999	2 189 738	66 923 793	49 301 733	216 905 423	198 941 631	122 335 715
1711	Plumbing, heating, and air-conditioning	75 395	612 516	455 117	16 613 239	11 781 219	56 902 406	50 755 709	29 431 529
1721	Painting and paper hanging	31 920	162 587	136 427	3 164 065	2 470 237	8 689 828	8 094 749	5 854 779
1731	Electrical work	54 022	487 072	379 052	13 623 816	10 038 862	40 259 410	38 541 019	23 548 293
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	22 637	147 892	129 762	2 882 520	2 366 390	8 457 864	7 955 909	5 146 139
1742	Plastering, drywall, and insulation work	18 648	206 670	173 465	4 910 081	3 825 766	14 055 774	12 824 151	8 143 169
1743	Terrazzo, tile, marble, and mosaic work	6 499	34 012	26 941	774 788	568 215	2 438 641	2 322 563	1 358 017
175	Carpentry and floor work:								
1751	Carpentry	38 210	177 601	145 394	3 488 844	2 683 124	12 852 280	11 334 464	6 759 711
1752	Floor laying and other floorwork	10 196	48 948	36 434	1 065 150	723 556	4 427 519	4 032 451	2 165 761
1761	Roofing, siding, and sheet metal work	27 569	215 545	168 764	4 622 510	3 229 953	16 787 979	15 589 833	8 905 974
1771	Concrete work	26 123	192 539	160 750	4 038 030	3 092 990	14 422 908	13 179 429	7 703 117
1781	Water well drilling	3 638	19 346	14 683	443 641	322 593	1 727 355	1 675 998	994 814
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	3 792	57 986	47 138	1 628 902	1 226 900	4 952 038	4 486 702	3 020 993
1793	Glass and glazing work	4 590	32 067	21 352	795 946	494 657	2 724 467	2 634 085	1 423 934
1794	Excavation work	13 898	77 126	62 437	1 816 814	1 400 643	6 869 692	6 129 178	4 339 605
1795	Wrecking and demolition work	966	13 112	10 409	296 028	214 621	1 059 133	927 986	775 026
1796	Installing building equipment, n.e.c.	3 889	82 648	64 380	2 324 139	1 742 093	6 611 040	6 132 131	4 494 378
1799	Special trade contractors, n.e.c.	25 270	204 333	157 231	4 435 282	3 119 913	13 667 090	12 325 277	8 270 475

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 for 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				
167 550 884	136 915 956	142 608 034	8 364 021	7 902 110	76 099 045	5 014 598	495 346 312	227 934 191	(Z)	(Z)	1	15, 16, 17
56 207 610	100 906 815	6 819 329	1 658 797	1 442 664	13 384 270	1 278 422	212 628 500	65 514 147	(Z)	(Z)	1	15
17 312 728 2 003 300	14 973 107 3 497 038	1 846 577 336 678	404 408 61 732	461 775 51 654	3 617 961 487 125	396 291 81 708	39 098 146 13 315 544	14 969 716 3 658 560	1 2	1 2	3 6	152 1522
13 094 239	17 744 712	380 183	154 484	236 229	2 493 600	168 940	48 959 809	15 173 454	1	1	5	1531
4 935 183 18 862 161	9 618 518 55 073 439	1 349 414 2 906 477	252 084 786 089	149 752 543 254	1 606 808 5 178 776	143 001 488 480	21 461 568 89 793 431	6 881 749 24 830 667	1 (Z)	1 (Z)	3 2	154 1541 1542
31 317 521	18 045 349	16 995 592	3 044 412	3 085 883	32 122 594	827 126	82 285 352	44 940 458	(Z)	(Z)	1	16
13 466 539	7 468 636	7 334 384	1 126 315	1 281 549	13 727 083	284 380	34 161 427	17 119 634	(Z)	(Z)	1	1611
2 326 306 6 078 014 9 446 662	1 882 325 2 617 685 6 076 703	874 650 3 763 945 5 022 613	182 852 753 998 981 246	155 163 765 509 883 662	1 602 798 6 980 524 9 812 189	47 494 197 632 297 618	5 480 936 17 010 019 25 632 969	2 430 434 10 089 749 15 300 639	1 1 (Z)	1 (Z) (Z)	1 2 2	162 1622 1623 1629
80 025 752	17 963 792	118 793 113	3 660 812	3 373 563	30 592 181	2 909 050	200 432 460	117 479 586	(Z)	(Z)	1	17
22 089 755	6 146 698	29 450 247	860 629	754 154	6 537 542	617 333	49 503 323	25 911 790	(Z)	(Z)	2	1711
2 289 916	595 079	4 487 597	158 190	144 930	1 084 015	169 968	7 953 323	5 716 473	1	1	3	1721
15 460 357	1 718 391	22 410 612	550 171	508 188	4 328 892	509 309	35 838 226	21 816 585	(Z)	(Z)	2	1731
2 851 160 4 852 512 1 007 752	501 955 1 231 623 116 078	6 012 068 11 646 187 1 909 362	120 700 174 422 30 363	135 397 141 601 27 446	1 172 557 1 183 465 283 791	168 978 253 563 34 420	8 714 161 16 426 850 2 271 593	5 475 753 9 747 631 1 317 632	1 1 2	1 1 1	3 3 7	174 1741 1742 1743
4 752 932 1 980 223	1 517 816 395 068	7 396 694 2 683 933	156 574 62 406	155 099 46 221	1 223 326 400 507	190 431 44 579	11 243 863 3 651 435	6 077 619 1 880 303	1 1	1 1	4 6	175 1751 1752
6 870 490	1 198 147	7 065 888	238 569	232 716	2 296 335	231 137	15 027 806	8 524 431	1	1	3	1761
5 649 439	1 243 479	8 806 421	312 771	330 208	3 234 505	218 194	15 055 670	8 443 003	1	1	3	1771
705 118	51 357	260 302	26 904	69 501	887 158	17 598	1 330 056	779 621	2	2	8	1781
1 608 375 1 399 569 1 973 899 207 375 1 776 845 4 550 035	465 336 90 382 740 514 131 147 478 909 1 341 813	3 423 692 1 908 755 3 942 704 433 308 1 806 984 5 148 359	139 831 58 274 304 352 52 055 116 126 298 476	77 261 23 581 331 411 23 130 71 517 301 201	814 369 291 378 3 678 478 302 912 721 129 2 151 822	65 348 40 511 95 329 14 109 62 151 176 084	4 862 655 3 222 472 8 244 398 912 484 5 359 826 10 814 313	3 253 345 1 700 519 5 707 716 781 854 3 723 074 6 622 229	1 1 1 2 1 1	1 1 1 2 (Z) 1	5 5 4 6 3 5	179 1791 1793 1794 1795 1796 1799

Table 3. Detailed Statistics for Establishments With Payroll by Industry Group: 1992

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

Item	Total	Building construction— general contractors and operative builders	Heavy construction other than building construction— contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
		A	B	C	D	A	B	C
Number of establishments in business during year	572 851	168 407	37 180	367 263	(Z)	(Z)	1	(Z)
Proprietors and working partners	251 041	71 049	11 497	168 495	(Z)	1	2	(Z)
All employees**	4 668 280	1 096 859	799 422	2 771 999	(Z)	(Z)	(Z)	(Z)
Construction workers:								
March	3 279 642	711 314	544 017	2 024 312	(Z)	(Z)	(Z)	(Z)
May	3 650 182	764 536	675 122	2 210 524	(Z)	(Z)	(Z)	(Z)
August	3 872 139	814 603	713 074	2 344 462	(Z)	(Z)	(Z)	(Z)
November	3 582 836	745 774	657 409	2 179 653	(Z)	(Z)	(Z)	(Z)
Average	3 596 200	759 057	647 406	2 189 738	(Z)	(Z)	(Z)	(Z)
Other employees:								
March	1 075 709	342 832	152 174	580 703	(Z)	(Z)	(Z)	(Z)
May	1 065 118	336 714	151 631	576 773	(Z)	(Z)	(Z)	(Z)
August	1 073 431	337 872	152 796	582 764	(Z)	(Z)	(Z)	(Z)
November	1 074 063	333 793	151 465	588 805	(Z)	(Z)	(Z)	(Z)
Average	1 072 080	337 803	152 016	582 261	(Z)	(Z)	(Z)	(Z)
Payroll, all employees	117 729 651	27 077 574	23 728 285	66 923 793	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	83 048 158	16 124 696	17 621 730	49 301 733	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	34 681 493	10 952 878	6 106 555	17 622 060	(Z)	(Z)	(Z)	(Z)
First-quarter payroll, all employees	25 769 714	6 122 806	4 699 442	14 947 466	(Z)	(Z)	(Z)	(Z)
Fringe benefits, all employees	29 397 159	5 986 636	6 404 012	17 006 510	(Z)	(Z)	(Z)	(Z)
Legally required expenditures	19 095 920	4 129 972	4 043 186	10 922 761	(Z)	(Z)	(Z)	(Z)
Voluntary expenditures	10 301 239	1 856 664	2 360 826	6 083 749	(Z)	(Z)	(Z)	(Z)
Dollar value of business done	539 084 657	220 231 215	98 528 182	220 325 260	(Z)	(Z)	(Z)	(Z)
Value of construction work	528 105 847	215 628 967	95 571 457	216 905 423	(Z)	(Z)	(Z)	(Z)
Value of construction work subcontracted in from others	142 608 034	6 819 329	16 995 592	118 793 113	1	1	1	(Z)
Other business receipts	10 978 810	4 602 248	2 956 725	3 419 836	1	1	1	1
Net value of construction work†	391 189 891	114 722 152	77 526 108	198 941 631	(Z)	(Z)	(Z)	(Z)
Value added††	234 617 817	63 116 790	49 165 312	122 335 715	(Z)	(Z)	(Z)	(Z)
Selected costs	304 466 840	157 114 425	49 362 870	97 989 545	(Z)	(Z)	(Z)	(Z)
Materials, components, and supplies	158 859 963	54 196 121	28 626 436	76 037 406	(Z)	(Z)	(Z)	(Z)
Construction work subcontracted out to others	136 915 956	100 906 815	18 045 349	17 963 792	(Z)	(Z)	(Z)	1
Selected power, fuels, and lubricants	8 690 921	2 011 489	2 691 085	3 988 347	(Z)	1	(Z)	(Z)
Electricity	1 469 035	585 499	262 815	620 720	(Z)	1	1	1
Natural and manufactured gas	464 155	158 839	140 388	164 929	(Z)	1	(Z)	1
Gasoline and diesel fuel	6 240 812	1 176 921	2 055 128	3 008 763	(Z)	1	(Z)	(Z)
On highway use	4 479 896	1 017 708	932 779	2 529 409	(Z)	1	(Z)	(Z)
Off highway use	1 760 915	159 212	1 122 348	479 354	(Z)	2	(Z)	1
Other, including lubricating oils and greases	516 919	90 231	232 754	193 934	1	2	1	1
Rental cost for machinery, equipment, and buildings	8 364 021	1 658 797	3 044 412	3 660 812	(Z)	1	1	1
For machinery and equipment	5 617 243	966 834	2 693 654	1 956 755	(Z)	1	1	1
For buildings	2 746 777	691 962	350 758	1 704 057	(Z)	1	1	1
Selected purchased services	9 050 015	1 924 318	2 994 920	4 130 777	(Z)	1	1	(Z)
Communication services	2 741 739	791 872	374 024	1 575 843	1	1	1	1
Repairs to buildings and other structures	496 632	160 891	99 652	236 089	1	3	2	1
Repairs to machinery and equipment	5 811 644	971 555	2 521 244	2 318 845	(Z)	1	1	1
Ownership of construction projects:								
Value of construction work	528 105 847	215 628 967	95 571 457	216 905 423	(Z)	(Z)	(Z)	(Z)
Government owned	133 767 207	38 243 577	54 091 977	41 431 653	(Z)	1	(Z)	1
Federal	30 243 555	10 234 786	9 270 607	10 738 162	1	1	1	1
State and local	103 523 652	28 008 791	44 821 370	30 693 491	(Z)	1	1	1
Privately owned	394 338 640	177 385 390	41 479 479	175 473 770	(Z)	(Z)	1	(Z)

Table 4. Detailed Statistics for Establishments With Payroll by Industry Group: 1987

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

Item	Total	Building construction— general contractors and operative builders	Heavy construction other than building construction— contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
		A	B	C	D	A	B	C
Number of establishments in business during year	536 276	157 639	36 597	342 040	(Z)	(Z)	1	(Z)
Proprietors and working partners	138 701	34 971	7 110	96 620	(Z)	1	3	(Z)
All employees**	5 014 598	1 278 422	827 126	2 909 050	(Z)	(Z)	(Z)	(Z)
Construction workers:								
March	3 641 188	866 593	572 514	2 202 081	(Z)	(Z)	(Z)	(Z)
May	4 013 101	925 726	705 876	2 381 499	(Z)	(Z)	(Z)	(Z)
August	4 272 270	990 623	752 713	2 528 934	(Z)	(Z)	(Z)	(Z)
November	3 990 976	919 925	702 123	2 368 928	(Z)	(Z)	(Z)	(Z)
Average	3 979 385	925 717	683 307	2 370 361	(Z)	(Z)	(Z)	(Z)
Other employees:								
March	1 020 820	346 752	142 258	531 810	(Z)	(Z)	(Z)	(Z)
May	1 029 151	352 217	143 452	533 482	(Z)	(Z)	(Z)	(Z)
August	1 049 248	359 265	145 612	544 371	(Z)	(Z)	(Z)	(Z)
November	1 042 012	352 605	144 013	545 394	(Z)	(Z)	(Z)	(Z)
Average	1 035 308	352 710	143 834	538 764	(Z)	(Z)	(Z)	(Z)
Payroll, all employees	110 199 890	27 870 467	20 408 161	61 921 262	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	79 588 691	17 204 455	15 461 273	46 922 963	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	30 611 196	10 666 011	4 946 887	14 998 298	(Z)	(Z)	(Z)	(Z)
First-quarter payroll, all employees	24 166 639	6 327 481	4 083 699	13 755 459	(Z)	(Z)	(Z)	(Z)
Fringe benefits, all employees	24 793 259	5 838 972	4 919 667	14 034 620	(Z)	(Z)	(Z)	(Z)
Legally required expenditures	16 908 658	4 080 599	3 238 955	9 589 104	(Z)	(Z)	(Z)	(Z)
Voluntary expenditures	7 884 599	1 758 372	1 680 712	4 445 515	(Z)	(Z)	(Z)	(Z)
Dollar value of business done.....	514 937 596	225 188 140	85 672 568	204 076 888	(Z)	(Z)	(Z)	(Z)
Value of construction work	495 346 312	212 628 500	82 285 352	200 432 460	(Z)	(Z)	(Z)	(Z)
Value of construction work subcontracted in from others	118 720 566	8 470 170	14 524 273	95 726 123	(Z)	2	1	(Z)
Other business receipts	19 591 285	12 559 641	3 387 216	3 644 428	1	1	(Z)	1
Net value of construction work†	365 240 579	111 019 219	68 435 258	185 786 102	(Z)	(Z)	(Z)	(Z)
Value added††	227 934 191	65 514 147	44 940 458	117 479 586	(Z)	(Z)	(Z)	(Z)
Selected costs	279 977 099	152 647 687	40 732 110	86 597 302	(Z)	(Z)	(Z)	(Z)
Materials, components, and supplies	142 232 703	49 315 553	24 517 891	68 399 259	(Z)	(Z)	(Z)	(Z)
Construction work subcontracted out to others	130 105 731	101 609 281	13 850 093	14 646 357	(Z)	(Z)	(Z)	1
Selected power, fuels, and lubricants	7 638 661	1 722 852	2 364 124	3 551 685	(Z)	(Z)	(Z)	(Z)
Electricity	1 089 309	405 976	214 108	469 225	(Z)	1	1	(Z)
Natural and manufactured gas	303 467	94 083	91 924	117 460	(Z)	1	1	1
Gasoline and diesel fuel	5 726 657	1 119 785	1 864 686	2 742 186	(Z)	1	(Z)	(Z)
On highway use	4 125 204	973 662	853 122	2 298 420	(Z)	(Z)	(Z)	(Z)
Off highway use	1 601 450	146 122	1 011 563	443 765	(Z)	2	(Z)	1
Other, including lubricating oils and greases	519 226	103 007	193 405	222 814	(Z)	1	1	1
Rental cost for machinery, equipment, and buildings	7 717 643	1 606 240	2 847 296	3 264 107	(Z)	1	1	(Z)
For machinery and equipment	5 441 521	951 880	2 582 690	1 906 951	(Z)	1	1	1
For buildings	2 276 121	654 360	264 605	1 357 156	(Z)	1	1	1
Selected purchased services	7 539 794	1 468 806	2 856 478	3 214 510	(Z)	1	(Z)	(Z)
Communication services.....	2 050 017	621 785	270 096	1 158 136	(Z)	1	1	(Z)
Repairs to buildings and other structures.....	436 677	145 695	77 564	213 418	1	1	2	1
Repairs to machinery and equipment	5 053 097	701 325	2 508 817	1 842 955	(Z)	1	(Z)	1
Ownership of construction projects:								
Value of construction work	495 346 312	212 628 500	82 285 352	200 432 460	(Z)	(Z)	(Z)	(Z)
Government owned	98 300 967	25 813 348	44 273 418	28 214 201	(Z)	1	(Z)	1
Federal	26 434 306	8 113 150	9 701 517	8 619 639	1	1	1	1
State and local	71 866 661	17 700 198	34 571 901	19 594 562	(Z)	1	(Z)	1
Privately owned	397 045 344	186 815 151	38 011 934	172 218 259	(Z)	(Z)	(Z)	(Z)

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll by Industry Group: 1992

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

Item	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets	72 145 630	12 826 704	30 753 316	28 565 611	(Z)	1	(Z)	(Z)
Capital expenditures, other than land	7 902 110	1 442 664	3 085 883	3 373 563	1	1	1	1
New	5 906 727	1 142 292	2 209 345	2 555 090	1	2	1	1
Used	1 995 383	300 373	876 538	818 473	1	2	2	2
Retirements and disposition of depreciable assets	3 948 695	885 098	1 716 605	1 346 993	1	3	1	2
End-of-year gross book value of depreciable assets	76 099 045	13 384 270	32 122 594	30 592 181	(Z)	1	(Z)	(Z)
Depreciation charges during year	7 959 106	1 445 971	3 095 291	3 417 844	(Z)	1	1	1
Buildings and Other Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets	11 194 295	3 809 993	2 896 580	4 487 722	1	2	1	1
Capital expenditures, other than land	784 990	256 800	164 365	363 824	2	4	3	3
New buildings and other structures	602 408	215 529	131 768	255 112	2	4	3	3
Used buildings and other structures	182 581	41 272	32 597	108 713	3	7	7	5
Retirements and disposition of depreciable assets	530 346	354 888	50 466	124 992	3	4	7	4
End-of-year gross book value of depreciable assets	11 448 939	3 711 906	3 010 479	4 726 554	1	2	1	1
Depreciation charges during year	828 553	286 171	174 604	367 779	1	3	2	1
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets	60 951 335	9 016 710	27 856 736	24 077 889	(Z)	1	(Z)	1
Capital expenditures, other than land	7 117 120	1 185 864	2 921 518	3 009 738	1	1	1	1
New machinery and equipment, including automobiles and trucks	5 304 318	926 763	2 077 577	2 299 978	1	1	1	1
New automobiles and trucks, intended primarily for highway use	1 974 643	405 558	517 065	1 052 020	1	2	1	1
Used machinery and equipment, including automobiles and trucks	1 812 802	259 101	843 941	709 760	1	3	2	2
Retirements and disposition of depreciable assets	3 418 349	530 210	1 666 139	1 222 000	1	4	1	2
End-of-year gross book value of depreciable assets	64 650 106	9 672 364	29 112 115	25 865 627	(Z)	1	(Z)	1
Depreciation charges during year	7 130 553	1 159 800	2 920 687	3 050 065	(Z)	1	1	1

Table 6. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll by Industry Group: 1987

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

Item	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets	56 583 766	13 370 117	21 870 669	21 342 980	(Z)	1	1	1
Capital expenditures, other than land	8 281 784	1 915 467	2 873 734	3 492 583	(Z)	1	1	1
New	6 453 092	1 537 901	2 199 684	2 715 507	1	1	1	1
Used	1 828 692	377 566	674 050	777 076	1	2	2	1
Retirements and disposition of depreciable assets	3 418 263	868 704	1 560 784	988 775	1	2	2	2
End-of-year gross book value of depreciable assets	61 447 288	14 416 880	23 183 620	23 846 788	(Z)	1	1	1
Depreciation charges during year	7 358 890	1 690 134	2 551 140	3 117 616	(Z)	1	1	1
Buildings and Other Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets	11 759 037	5 138 269	1 955 533	4 665 235	1	2	1	1
Capital expenditures, other than land	1 262 842	569 075	237 847	455 920	1	2	2	2
New buildings and other structures	930 262	446 093	189 283	294 886	2	3	2	2
Used buildings and other structures	332 578	122 982	48 563	161 033	2	4	6	3
Retirements and disposition of depreciable assets	614 777	369 730	111 534	133 513	4	5	2	4
End-of-year gross book value of depreciable assets	12 407 102	5 337 615	2 081 845	4 987 642	1	2	1	1
Depreciation charges during year	1 047 943	445 161	171 554	431 228	1	2	1	1
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets	44 824 727	8 231 847	19 915 136	16 677 744	(Z)	1	1	1
Capital expenditures, other than land	7 018 941	1 346 391	2 635 887	3 036 663	(Z)	1	1	1
New machinery and equipment, including automobiles and trucks	5 522 827	1 091 807	2 010 400	2 420 620	1	1	1	1
New automobiles and trucks, intended primarily for highway use	2 558 831	578 343	575 524	1 404 964	1	1	1	1
Used machinery and equipment, including automobiles and trucks	1 496 111	254 583	625 486	616 042	1	2	1	1
Retirements and disposition of depreciable assets	2 803 484	498 974	1 449 249	855 261	1	1	2	2
End-of-year gross book value of depreciable assets	49 040 183	9 079 264	21 101 774	18 859 145	(Z)	1	1	1
Depreciation charges during year	6 310 946	1 244 973	2 379 586	2 686 387	(Z)	1	1	1

Table 7. Value of Inventories for Establishments With Payroll by Industry Group: 1992 and 1991

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

Item	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
All establishments:								
Number	572 851	168 407	37 180	367 263	(Z)	(Z)	1	(Z)
Value of construction work	528 105 847	215 628 967	95 571 457	216 905 423	(Z)	(Z)	(Z)	(Z)
Establishments with inventories:								
Number	174 658	37 531	9 309	127 818	(Z)	1	1	(Z)
Value of construction work	214 442 835	55 890 156	39 742 335	118 810 343	(Z)	(Z)	(Z)	(Z)
Inventories¹:								
End of 1992, materials and supplies	7 186 087	2 656 977	703 903	3 825 207	1	3	1	1
End of 1991, materials and supplies	6 555 443	2 214 801	713 673	3 626 969	1	3	1	1
Establishments with no inventories:								
Number	204 929	72 197	15 055	117 678	(Z)	1	1	(Z)
Value of construction work	204 630 721	106 912 927	40 655 184	57 062 611	(Z)	(Z)	(Z)	(Z)
Establishments not reporting:								
Number	193 264	58 680	12 817	121 767	(Z)	1	1	(Z)
Value of construction work	109 032 291	52 825 884	15 173 938	41 032 469	(Z)	(Z)	1	(Z)

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 8. Selected Statistics for Establishments With Payroll by Industry Group and Employment Size Class: 1992

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

Selected statistics	Establishments with an average of—									
	Total	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
CONSTRUCTION INDUSTRIES										
Number of establishments	572 851	358 645	110 704	58 712	32 047	8 351	3 438	699	191	65
All employees**	4 668 280	675 891	706 582	773 139	944 903	565 746	500 345	234 165	128 169	139 341
Payroll, all employees	117 729 651	11 248 729	14 336 293	18 394 177	25 703 413	16 765 000	15 386 631	7 557 666	3 851 927	4 485 815
Dollar value of business done	539 084 657	71 037 464	65 424 512	78 548 805	110 769 948	74 418 934	71 186 421	34 249 700	18 074 607	15 374 265
Value of construction work	528 105 847	70 051 576	64 267 436	77 166 580	108 727 957	72 866 138	69 472 149	33 385 236	17 505 307	14 663 468
Net value of construction work†	391 189 891	55 312 453	51 005 349	60 298 622	80 759 203	52 066 587	46 856 641	22 636 348	11 748 707	10 505 981
Value added††	234 617 817	30 489 519	29 568 883	35 842 182	48 391 321	31 932 535	28 766 758	14 217 400	7 651 504	7 757 716
Cost of materials, components, supplies, and fuels	167 550 884	25 808 823	22 593 542	25 838 666	34 409 873	21 686 848	19 804 155	9 283 412	4 666 503	3 459 062
Cost of construction work subcontracted out to others	136 915 956	14 739 123	13 262 087	16 867 958	27 968 754	20 799 551	22 615 508	10 748 889	5 756 600	4 157 487
Rental cost for machinery, equipment, and buildings	8 364 021	833 694	955 475	1 243 586	1 755 670	1 195 396	1 204 467	667 715	284 906	223 112
Capital expenditures, other than land	7 902 110	1 124 552	1 031 751	1 243 050	1 546 008	1 048 839	1 027 267	524 965	177 649	178 029
End-of-year gross book value of depreciable assets	76 099 045	9 311 582	9 352 108	11 357 807	15 430 496	10 275 212	10 824 124	4 684 009	1 964 201	2 899 505
Relative standard error of estimate (percent)										
All employees**	(Z)	(Z)	1	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Net value of construction work	(Z)	1	1	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land	1	2	2	2	1	(Z)	(Z)	(Z)	(Z)	(Z)
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS										
Number of establishments	168 407	116 096	29 656	13 412	6 668	1 680	692	138	49	17
All employees**	1 096 859	216 754	187 600	176 127	195 434	114 012	101 673	47 452	32 489	25 317
Payroll, all employees	27 077 574	3 730 970	3 901 844	4 237 194	5 458 881	3 453 679	3 088 071	1 509 970	954 411	742 554
Dollar value of business done	220 231 215	36 140 445	28 717 313	30 469 685	42 725 452	28 827 194	27 703 001	12 725 582	7 950 562	4 971 982
Value of construction work	215 628 967	35 544 529	28 144 478	29 889 844	41 965 840	28 127 306	27 015 291	12 309 936	7 710 108	4 921 635
Net value of construction work†	114 722 152	23 645 958	17 659 396	17 122 716	21 173 805	13 030 291	10 922 793	5 284 645	3 381 741	2 500 807
Value added††	63 116 790	11 896 542	9 388 539	9 521 278	12 039 297	7 704 847	6 174 818	2 948 563	1 861 953	1 580 953
Cost of materials, components, supplies, and fuels	56 207 610	12 345 332	8 843 693	8 181 279	9 894 120	6 025 332	5 435 684	2 751 728	1 760 242	970 201
Cost of construction work subcontracted out to others	100 906 815	11 898 571	10 485 082	12 767 128	20 792 036	15 097 015	16 092 498	7 025 291	4 328 367	2 420 828
Rental cost for machinery, equipment, and buildings	1 658 797	249 242	237 996	259 830	299 537	200 640	205 812	98 195	53 732	53 813
Capital expenditures, other than land	1 442 664	344 859	243 295	218 415	226 773	145 079	157 435	65 969	22 907	17 933
End-of-year gross book value of depreciable assets	13 384 270	2 690 092	2 196 289	2 119 692	2 281 668	1 439 459	1 551 567	595 205	247 009	263 289
Relative standard error of estimate (percent)										
All employees**	(Z)	1	1	1	1	1	1	(Z)	(Z)	(Z)
Net value of construction work	(Z)	1	1	1	1	(Z)	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land	1	3	5	4	1	(Z)	(Z)	(Z)	(Z)	(Z)
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS										
Number of establishments	37 180	15 724	7 598	5 946	4 853	1 764	947	244	65	39
All employees**	799 422	31 285	49 419	79 063	147 675	121 161	142 394	81 723	44 236	102 467
Payroll, all employees	23 728 285	559 602	1 067 521	2 025 095	4 210 026	3 633 762	4 557 593	2 777 988	1 484 713	3 411 984
Dollar value of business done	98 528 182	3 092 571	4 654 488	8 763 948	18 122 446	16 288 671	20 376 682	11 947 246	5 735 949	9 546 181
Value of construction work	95 571 457	3 052 406	4 577 110	8 610 426	17 683 371	15 901 106	19 707 070	11 669 425	5 470 314	8 900 228
Net value of construction work†	77 526 108	2 722 186	4 046 510	7 391 592	14 581 425	12 798 652	15 447 587	8 784 189	4 464 262	7 289 706
Value added††	49 165 312	1 727 225	2 541 944	4 554 882	8 717 081	7 695 126	9 577 005	5 718 237	2 932 048	5 701 765
Cost of materials, components, supplies, and fuels	31 317 521	1 035 127	1 581 943	2 990 232	6 303 418	5 491 091	6 540 194	3 343 773	1 797 849	2 233 894
Cost of construction work subcontracted out to others	18 045 349	330 220	530 600	1 218 834	3 101 947	3 102 455	4 259 483	2 885 236	1 006 052	1 610 522
Rental cost for machinery, equipment, and buildings	3 044 412	99 251	170 695	283 786	596 613	515 034	655 880	429 486	143 893	149 773
Capital expenditures, other than land	3 085 883	159 571	197 621	342 426	595 406	545 139	643 619	353 048	117 974	131 079
End-of-year gross book value of depreciable assets	32 122 594	1 424 914	2 039 250	3 235 284	6 151 649	5 229 081	6 904 047	3 258 091	1 417 534	2 462 744
Relative standard error of estimate (percent)										
All employees**	(Z)	2	2	2	1	(Z)	(Z)	(Z)	(Z)	(Z)
Net value of construction work	(Z)	3	2	2	1	(Z)	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land	1	6	6	4	1	(Z)	(Z)	(Z)	(Z)	(Z)

Table 8. Selected Statistics for Establishments With Payroll by Industry Group and Employment Size Class: 1992—Con.

[Thousand dollars. Detail may not add to total because of 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
SPECIAL TRADE CONTRACTORS										
Number of establishments	367 263	226 825	73 450	39 354	20 526	4 907	1 799	317	77	9
All employees**	2 771 999	427 852	469 563	517 948	601 794	330 573	256 277	104 990	51 444	11 558
Payroll, all employees	66 923 793	6 958 157	9 366 929	12 131 889	16 034 506	9 677 558	7 740 966	3 269 708	1 412 803	331 277
Dollar value of business done	220 325 260	31 804 448	32 052 711	39 315 173	49 922 050	29 303 069	23 106 738	9 576 872	4 388 096	856 102
Value of construction work	216 905 423	31 454 641	31 545 849	38 666 309	49 078 745	28 837 726	22 749 788	9 405 875	4 324 885	841 605
Net value of construction work†	198 941 631	28 944 309	29 299 444	35 784 313	45 003 974	26 237 645	20 486 261	8 567 514	3 902 704	715 468
Value added††	122 335 715	16 865 752	17 638 400	21 766 022	27 634 943	16 532 563	13 014 934	5 550 600	2 857 503	474 998
Cost of materials, components, supplies, and fuels	80 025 752	12 428 364	12 167 906	14 667 155	18 212 336	10 170 425	7 828 277	3 187 911	1 108 412	254 967
Cost of construction work subcontracted out to others	17 963 792	2 510 332	2 246 405	2 881 996	4 074 771	2 600 081	2 263 527	838 362	422 181	126 137
Rental cost for machinery, equipment, and buildings	3 660 812	485 201	546 784	699 969	859 520	479 722	342 775	140 034	87 281	19 526
Capital expenditures, other than land	3 373 563	620 123	590 835	682 209	723 829	358 621	226 213	105 948	36 768	29 017
End-of-year gross book value of depreciable assets	30 592 181	5 196 576	5 116 569	6 002 831	6 997 179	3 606 672	2 368 510	830 713	299 658	173 472
Relative standard error of estimate (percent)										
All employees**	(Z)	1	1	1	(Z)	(Z)	(Z)	1	(Z)	(Z)
Net value of construction work	(Z)	1	1	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land	1	2	3	3	1	(Z)	(Z)	(Z)	(Z)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 9. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With Payroll by Industry Group: 1992

[Thousand dollars. Detail may not add to total because of 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
CONSTRUCTION INDUSTRIES											
Number of establishments	572 851	(S)	(S)	80 373	155 489	100 447	69 472	53 286	19 516	9 779	7 363
All employees**	4 668 280	(S)	(S)	131 881	443 950	506 870	588 368	810 356	562 967	480 439	1 069 009
Payroll, all employees	117 729 651	(S)	(S)	1 511 454	6 457 808	9 176 783	12 384 318	20 173 160	15 744 373	14 867 406	36 774 816
Dollar value of business done	539 084 657	(S)	(S)	5 884 097	25 291 274	35 268 284	48 463 582	81 266 534	67 404 403	67 022 344	206 398 207
Value of construction work	528 105 847	(S)	(S)	5 824 803	25 001 181	34 780 828	47 637 147	79 680 491	66 127 683	65 823 667	201 161 345
Net value of construction work†	391 189 891	(S)	(S)	5 389 955	22 667 495	30 727 723	40 508 376	64 944 324	51 685 205	48 781 304	124 563 876
Value added††	234 617 817	(S)	(S)	3 299 618	13 572 856	17 979 943	23 883 860	38 193 666	30 689 413	28 980 017	76 837 550
Cost of materials, components, supplies, and fuels	167 550 884	(S)	(S)	2 149 631	9 384 732	13 235 236	17 450 951	28 336 700	22 272 512	20 999 964	52 963 188
Cost of construction work subcontracted out to others	136 915 956	(S)	(S)	(S)	2 333 686	4 053 106	7 128 771	14 736 168	14 442 478	17 042 363	76 597 469
Rental cost for machinery, equipment, and buildings	8 364 021	(S)	(S)	84 804	383 337	582 425	810 961	1 323 784	1 061 461	1 082 728	3 007 872
Capital expenditures, other than land	7 902 110	(S)	(S)	124 650	540 740	716 142	865 886	1 311 973	975 421	954 544	2 375 334
End-of-year gross book value of depreciable assets	76 099 045	(S)	(S)	1 079 237	4 420 466	6 006 733	7 849 174	12 407 220	9 619 976	9 201 008	25 131 986
Relative standard error of estimate (percent)											
All employees**	(Z)	(S)	(S)	1	1	1	1	(Z)	(Z)	(Z)	(Z)
Net value of construction work	(Z)	(S)	(S)	1	1	1	1	1	1	(Z)	(Z)
Capital expenditures, other than land	1	(S)	(S)	3	2	2	2	2	1	1	(Z)
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS											
Number of establishments	168 407	(S)	(S)	19 869	42 079	30 360	22 977	18 746	7 066	3 789	3 349
All employees**	1 096 859	(S)	(S)	29 375	103 510	117 006	132 650	168 848	116 722	106 036	303 980
Payroll, all employees	27 077 574	(S)	(S)	327 042	1 390 181	1 935 807	2 598 654	4 001 364	3 121 648	3 166 567	10 375 763
Dollar value of business done	220 231 215	(S)	(S)	1 450 686	6 978 916	10 600 313	16 084 235	28 686 776	24 257 294	26 005 255	105 661 180
Value of construction work	215 628 967	(S)	(S)	1 429 852	6 881 401	10 429 191	15 797 169	28 057 447	23 779 288	25 522 207	103 230 519
Net value of construction work†	114 722 152	(S)	(S)	1 188 145	5 443 777	7 727 207	10 701 564	17 505 301	13 801 534	13 556 588	44 379 457
Value added††	63 116 790	(S)	(S)	660 379	2 966 766	4 036 012	5 699 736	9 128 943	7 484 937	7 428 659	25 484 422
Cost of materials, components, supplies, and fuels	56 207 610	(S)	(S)	548 600	2 574 526	3 862 317	5 288 893	9 005 688	6 794 601	6 610 977	21 325 696
Cost of construction work subcontracted out to others	100 906 815	(S)	(S)	(S)	1 437 624	2 701 984	5 095 606	10 552 145	9 977 755	11 965 619	58 851 062
Rental cost for machinery, equipment, and buildings	1 658 797	(S)	(S)	17 359	75 215	119 725	163 987	237 739	181 419	185 284	670 869
Capital expenditures, other than land	1 442 664	(S)	(S)	24 993	111 787	139 013	163 014	230 122	168 165	152 645	444 347
End-of-year gross book value of depreciable assets	13 384 270	(S)	(S)	198 173	800 562	1 100 137	1 452 935	2 165 422	1 626 678	1 436 522	4 527 216
Relative standard error of estimate (percent)											
All employees**	(Z)	(S)	(S)	2	1	2	2	1	1	1	(Z)
Net value of construction work	(Z)	(S)	(S)	2	1	1	1	1	2	2	(Z)
Capital expenditures, other than land	1	(S)	(S)	6	4	4	5	4	5	5	1
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS											
Number of establishments	37 180	(S)	(S)	3 242	7 078	6 299	5 134	5 651	2 920	1 903	1 904
All employees**	799 422	(S)	(S)	5 252	20 821	33 726	47 566	94 814	92 646	103 897	397 772
Payroll, all employees	23 728 285	(S)	(S)	58 345	298 567	614 225	991 662	2 384 975	2 553 509	3 122 678	13 679 676
Dollar value of business done	98 528 182	(S)	(S)	238 141	1 183 140	2 259 805	3 637 836	8 834 980	10 356 805	13 359 385	58 578 174
Value of construction work	95 571 457	(S)	(S)	234 739	1 157 076	2 216 042	3 577 494	8 666 092	10 123 645	13 071 947	56 445 513
Net value of construction work†	77 526 108	(S)	(S)	223 727	1 095 313	2 047 803	3 270 824	7 672 718	8 594 482	10 774 176	43 771 464
Value added††	49 165 312	(S)	(S)	147 753	717 035	1 365 771	2 123 800	4 906 273	5 276 661	6 385 819	28 191 959
Cost of materials, components, supplies, and fuels	31 317 521	(S)	(S)	(S)	404 341	725 796	1 207 366	2 935 332	3 550 982	4 675 794	17 712 166
Cost of construction work subcontracted out to others	18 045 349	(S)	(S)	(S)	61 764	168 238	306 671	993 374	1 529 162	2 297 771	12 674 049
Rental cost for machinery, equipment, and buildings	3 044 412	(S)	(S)	(S)	39 417	78 855	131 903	305 535	347 518	452 426	1 678 808
Capital expenditures, other than land	3 085 883	(S)	(S)	(S)	69 480	137 818	160 614	364 308	365 900	468 131	1 503 479
End-of-year gross book value of depreciable assets	32 122 594	(S)	(S)	(S)	656 543	1 165 702	1 707 010	3 621 545	3 752 236	4 482 948	16 552 583
Relative standard error of estimate (percent)											
All employees**	(Z)	(S)	(S)	5	3	3	2	1	1	(Z)	(Z)
Net value of construction work	(Z)	(S)	(S)	4	3	3	2	2	1	1	(Z)
Capital expenditures, other than land	1	(S)	(S)	(S)	8	7	6	4	2	1	(Z)

Table 9. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With Payroll by Industry Group: 1992—Con.

[Thousand dollars. Detail may not add to total because of 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
SPECIAL TRADE CONTRACTORS											
Number of establishments	367 263	(S)	(S)	57 262	106 331	63 788	41 362	28 889	9 531	4 087	2 111
All employees**	2 771 999	(S)	(S)	97 254	319 618	356 137	408 152	546 694	353 599	270 507	367 257
Payroll, all employees	66 923 793	(S)	(S)	1 126 067	4 769 060	6 626 751	8 794 002	13 786 820	10 069 217	8 578 162	12 719 376
Dollar value of business done	220 325 260	(S)	(S)	4 195 269	17 129 218	22 408 166	28 741 511	43 744 777	32 790 304	27 657 705	42 158 853
Value of construction work	216 905 423	(S)	(S)	4 160 212	16 962 703	22 135 596	28 262 484	42 956 952	32 224 750	27 229 513	41 485 312
Net value of construction work†	198 941 631	(S)	(S)	3 978 082	16 128 405	20 952 713	26 535 989	39 766 304	29 289 189	24 450 541	36 412 955
Value added††	122 335 715	(S)	(S)	2 491 486	9 889 055	12 578 160	16 060 324	24 158 449	17 927 815	15 165 539	23 161 169
Cost of materials, components, supplies, and fuels	80 025 752	(S)	(S)	1 521 654	6 405 866	8 647 123	10 954 692	16 395 680	11 926 928	9 713 193	13 925 327
Cost of construction work subcontracted out to others	17 963 792	(S)	(S)		834 298	1 182 883	1 726 494	3 190 648	2 935 560	2 778 973	5 072 358
Rental cost for machinery, equipment, and buildings	3 660 812	(S)	(S)	59 577	268 705	383 844	515 072	780 510	532 524	445 018	658 195
Capital expenditures, other than land ..	3 373 563	(S)	(S)	87 357	359 472	439 310	542 258	717 543	441 356	333 768	427 507
End-of-year gross book value of depreciable assets	30 592 181	(S)	(S)	739 928	2 963 361	3 740 895	4 689 229	6 620 252	4 241 063	3 281 538	4 052 186
Relative standard error of estimate (percent)											
All employees**	(Z)	(S)	(S)	1	1	1	1	1	(Z)	(Z)	(Z)
Net value of construction work	(Z)	(S)	(S)	1	1	1	1	1	(Z)	(Z)	(Z)
Capital expenditures, other than land ..	1	(S)	(S)	4	3	3	3	2	1	(Z)	(Z)

Table 10. Value of Construction Work for Establishments With Payroll by Industry Group and Type of Construction: 1992 and 1987

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

Industry and type of construction	1992 value of construction work				1987 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	E
CONSTRUCTION INDUSTRIES										
Value of construction work	528 105 847	319 107 740	126 231 473	66 657 563	495 346 312	(Z)	(Z)	(Z)	(Z)	(Z)
Building construction	390 814 089	247 028 470	100 050 141	43 735 479	368 002 219	(Z)	(Z)	(Z)	(Z)	(Z)
Single-family houses	142 006 481	104 912 221	23 947 504	13 146 755	122 202 213	(Z)	1	1	1	(Z)
Single-family houses, detached	126 304 885	93 336 579	21 627 966	11 340 339	101 275 330	(Z)	1	1	1	(Z)
Single-family houses, attached, including townhouses and townhouse-type condominiums	15 701 596	11 575 642	2 319 538	1 806 416	20 926 883	1	1	2	2	1
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	15 533 543	8 743 197	3 929 506	2 860 839	22 056 956	1	1	2	1	(Z)
Other residential buildings, including hotels, motels, and tourist cabins	6 835 472	4 191 106	1 831 386	812 980	14 302 766	1	1	2	2	(Z)
Hotels, motels, and tourist cabins	4 855 341	3 070 924	1 201 486	582 932	8 886 196	1	1	2	2	(Z)
Other residential buildings	1 980 131	1 120 182	629 900	230 048	5 416 570	2	2	4	6	1
Office buildings	46 050 567	23 560 786	16 872 139	5 617 642	60 570 245	(Z)	(Z)	1	1	(Z)
Other commercial buildings such as stores, restaurants, and automobile service stations	47 762 061	28 172 996	13 341 287	6 247 778	46 268 031	(Z)	1	1	1	(Z)
Industrial buildings and warehouses	56 912 496	31 574 276	16 099 655	9 238 565	52 477 389	(Z)	(Z)	(Z)	1	(Z)
Industrial buildings	47 116 273	25 132 138	13 850 272	8 133 863	41 468 980	(Z)	(Z)	(Z)	1	(Z)
Warehouses	9 796 224	6 442 138	2 249 383	1 104 702	11 008 408	1	1	1	1	(Z)
Religious buildings	5 675 169	3 099 254	1 842 376	733 539	4 535 374	1	1	2	1	1
Educational buildings	27 595 656	16 512 324	9 089 429	1 993 904	16 282 332	1	1	1	1	(Z)
Hospitals and institutional buildings	28 980 784	17 176 761	9 903 696	1 900 327	19 304 912	(Z)	(Z)	1	1	(Z)
Farm buildings, nonresidential	1 833 864	1 295 205	257 322	281 337	1 560 000	2	3	4	4	2
Amusement, social, and recreational buildings, indoors	4 386 332	3 122 184	964 432	299 716	3 042 739	1	1	2	3	1
Other nonresidential buildings	7 241 666	4 668 159	1 971 409	602 097	5 399 262	1	1	2	3	1
Nonbuilding construction	121 182 687	72 079 270	26 181 332	22 922 084	105 411 556	(Z)	(Z)	(Z)	(Z)	(Z)
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	37 035 357	18 989 650	10 927 356	7 118 351	33 663 977	(Z)	(Z)	(Z)	1	(Z)
Outdoor swimming pools	2 154 214	1 650 364	253 392	250 459	2 273 408	3	4	5	6	2
Airport runways and related work	1 732 903	1 032 856	497 333	202 714	209 737	1	1	1	2	4
Private driveways and parking areas	3 736 473	1 981 117	802 807	952 549	3 562 808	2	2	3	3	2
Fencing	1 467 137	1 087 467	203 074	176 597	1 102 962	4	4	6	5	3
Recreational facilities	1 682 949	1 279 523	257 666	145 761	1 081 146	2	2	4	5	3
Bridges, tunnels, and elevated highways	8 979 560	5 784 279	2 305 891	889 390	7 051 964	1	1	1	2	(Z)
Tunnels	1 165 672	1 027 730	83 867	54 075	853 957	3	4	3	5	1
Bridges and elevated highways	7 813 887	4 756 549	2 222 024	835 314	6 198 007	1	1	1	2	(Z)
Dam and reservoir construction	955 628	682 211	223 998	49 420	990 275	1	2	1	9	1
Marine construction	2 123 215	1 337 113	269 025	517 077	1 595 976	1	1	2	2	1
Harbor and port facilities	635 303	366 730	135 747	132 825	617 795	2	3	4	5	3
Conservation and development construction	4 280 544	2 993 065	652 944	634 534	1 520 508	1	2	3	2	2
Power and communication transmission lines, towers, and related facilities	7 100 934	4 308 293	1 279 870	1 512 771	6 232 290	1	1	1	1	1
Sewers, water mains, and related facilities	14 914 749	11 108 657	2 205 382	1 600 710	13 476 048	1	1	1	2	1
Sewers, sewer lines, septic systems, and related facilities	8 638 489	6 415 414	1 321 371	901 704	7 917 914	1	1	1	3	1
Water mains and related facilities	6 276 260	4 693 243	884 011	699 006	5 558 134	1	1	2	2	1
Pipeline construction other than sewer or water lines	5 309 208	3 633 188	777 974	898 046	3 259 866	1	1	1	2	1
Mass transit construction	2 092 262	1 991 960	595 764	304 538	1 416 178	2	2	2	4	1
Urban mass transit	1 053 972	690 845	308 468	54 659	730 144	2	3	1	1	(Z)
Railroad construction	1 038 290	501 115	287 296	249 879	686 035	3	3	(Z)	5	2
Blast furnaces, petroleum refineries, chemical complexes, etc.	11 555 013	5 802 610	1 674 800	4 077 603	6 776 004	(Z)	(Z)	1	(Z)	(Z)
Power plants	6 866 721	3 278 022	1 106 218	2 482 480	6 915 722	(Z)	(Z)	1	1	(Z)
Power plants, nuclear	1 314 090	375 241	243 996	694 853	2 302 509	1	1	1	1	(Z)
Power plants and cogeneration plants, except nuclear	5 552 631	2 902 781	862 222	1 787 627	4 613 214	(Z)	(Z)	1	1	(Z)
Sewage treatment and water treatment plants	6 529 397	4 494 959	1 710 939	323 500	6 057 721	1	1	1	2	1
Sewage treatment plants	4 402 483	3 077 895	1 147 916	176 671	4 099 467	1	2	2	3	1
Water treatment plants	2 126 915	1 417 064	563 022	146 829	1 958 255	1	1	1	3	1
Water storage facilities	420 918	246 633	(D)	(D)	(NA)	6	3	(D)	(D)	(NA)
Heavy military construction, missile sites, etc.	455 047	288 420	(D)	(D)	(NA)	1	1	(D)	(D)	(NA)
Ships	242 113	62 751	31 715	147 648	(NA)	4	10	7	5	(NA)
Oilfields	529 133	272 554	61 619	194 960	506 820	4	6	6	4	3
Other nonbuilding construction	383 910	206 850	77 386	7 100 351	7 100 351	4	5	9	5	1
Construction work, n.s.k.	16 109 071	(NA)	(NA)	(NA)	21 932 537	1	(NA)	(NA)	(NA)	1
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS										
Value of construction work	215 628 967	150 752 011	50 779 904	8 423 731	212 628 500	(Z)	(Z)	(Z)	1	(Z)
Building construction	207 749 879	149 081 572	50 369 687	8 298 619	201 934 849	(Z)	(Z)	(Z)	1	(Z)
Single-family houses	86 903 282	71 198 943	12 893 159	2 811 180	77 002 852	1	1	1	2	1
Single-family houses, detached	78 194 686	64 031 025	11 736 316	2 427 345	63 537 960	1	1	1	2	1
Single-family houses, attached, including townhouses and townhouse-type condominiums	8 708 597	7 167 918	1 156 843	383 835	13 464 892	2	2	4	5	2
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	7 814 610	5 073 129	2 186 621	554 860	11 875 587	2	2	2	4	2
Other residential buildings, including hotels, motels, and tourist cabins	3 704 529	2 486 430	1 071 985	146 113	7 170 875	1	1	3	7	1
Hotels, motels, and tourist cabins	2 309 642	1 668 476	580 423	60 743	4 202 120	2	2	5	5	2
Other residential buildings	1 394 887	817 954	491 562	85 370	2 968 755	3	3	5	11	2
Office buildings	21 764 787	11 996 034	8 803 495	965 258	30 306 156	1	1	1	2	(Z)
Other commercial buildings such as stores, restaurants, and automobile service stations	22 007 365	14 313 959	6 858 940	834 466	23 481 116	1	1	1	3	1
Industrial buildings and warehouses	24 026 930	16 227 273	5 998 289	1 801 367	24 150 548	1	1	1	1	1
Industrial buildings	19 196 348	12 550 161	5 064 535	1 581 653	18 119 921	1	1	1	1	1
Warehouses	4 830 581	3 677 113	933 754	219 715	6 030 627	1	1	3	3	1
Religious buildings	2 898 041	1 785 891	984 295	127 855	2 301 140	2	2	3	4	2
Educational buildings	14 190 557	9 424 321	4 477 949	288 287	8 686 646	1	1	2	5	1
Hospitals and institutional buildings	15 439 940	10 169 191	4 957 616	313 133	10 753 132	(Z)	(Z)	1	2	1
Farm buildings, nonresidential	1 152 192	925 155	133 079	93 958	997 017	3	3	6	9	4
Amusement, social, and recreational buildings, indoors	2 806 154	2 150 953	597 070	58 131	1 864 243	1	2	3	3	1
Other nonresidential buildings	5 041 490	3 330 292	1 407 189	304 009	3 345 537	1	1	2	4	1

Table 10. Value of Construction Work for Establishments With Payroll by Industry Group and Type of Construction: 1992 and 1987—Con.

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

Industry and type of construction	1992 value of construction work				1987 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	E
	A	B	C	D		A	B	C	D	E
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS—Con.										
Value of construction work—Con.										
Nonbuilding construction	2 205 767	1 670 438	410 217	125 112	3 361 475	1	1	1	3	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	495 703	443 480	41 201	11 022	446 737	2	2	7	12	2
Outdoor swimming pools	6 282	4 560	(D)	(D)	13 417	18	19	(D)	(D)	29
Airport runways and related work	113 027	103 728	(D)	(D)	12 810	(Z)	(Z)	(D)	(D)	29
Private driveways and parking areas	41 573	32 304	7 199	2 070	46 259	14	18	18	25	5
Fencing	4 629	2 914	(D)	(D)	*2 506	28	21	(D)	(D)	41
Recreational facilities	31 201	23 000	6 773	1 429	50 625	12	16	3	26	10
Bridges, tunnels, and elevated highways	272 026	131 217	131 851	8 959	258 689	1	2	(Z)	7	1
Tunnels	44 381	(D)	(D)	5 263	78 535	2	(D)	(D)	11	(Z)
Bridges and elevated highways	227 645	(D)	(D)	3 696	180 154	1	(D)	(D)	9	1
Dam and reservoir construction	13 962	(D)	(D)	(D)	8 870	(Z)	(D)	(D)	(D)	14
Marine construction	(D)	(D)	(S)	(D)	50 767	(D)	(D)	(D)	(D)	3
Harbor and port facilities	5 990	(D)	(D)	(D)	66 557	(Z)	(D)	(D)	(D)	8
Conservation and development construction	31 416	16 757	(D)	(D)	35 878	8	14	(D)	(D)	5
Power and communication transmission lines, towers, and related facilities	118 892	98 771	8 905	11 216	49 445	3	2	20	11	4
Sewers, water mains, and related facilities	125 407	86 991	25 737	12 679	286 427	5	6	2	6	4
Sewers, sewer lines, septic systems, and related facilities	87 343	57 713	19 216	10 414	173 495	4	5	2	7	4
Water mains and related facilities	38 064	29 278	6 521	2 265	112 932	13	16	7	13	5
Pipeline construction other than sewer or water lines	30 993	27 028	(D)	(D)	15 439	(Z)	1	(D)	(D)	2
Mass transit construction	55 245	48 345	(D)	(D)	125 705	1	(D)	(D)	(D)	2
Urban mass transit	49 679	(D)	(D)	(D)	78 240	(Z)	(D)	(D)	(D)	2
Railroad construction	5 566	(D)	(D)	(D)	47 465	6	(D)	(D)	(D)	2
Blast furnaces, petroleum refineries, chemical complexes, etc.	60 300	46 310	(D)	(D)	173 728	1	1	(D)	(D)	(Z)
Power plants	172 679	93 964	46 354	32 361	70 132	(Z)	(Z)	(Z)	1	(Z)
Power plants, nuclear	(D)	(D)	(D)	(D)	15 743	(D)	(D)	(D)	(D)	(Z)
Power plants and cogeneration plants, except nuclear	(D)	(D)	(D)	(D)	54 390	(D)	(D)	(D)	(D)	(Z)
Sewage treatment and water treatment plants	549 867	430 268	111 856	7 743	735 576	1	1	2	19	2
Sewage treatment plants	368 556	283 846	78 026	6 684	549 970	1	1	2	20	1
Water treatment plants	181 311	146 422	33 830	*1 059	185 607	2	2	1	65	5
Water storage facilities	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Heavy military construction, missile sites, etc.	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Oilfields	(D)	(D)	(D)	(D)	2 938	(D)	(D)	(D)	(D)	36
Other nonbuilding construction	4 448	(D)	(D)	(D)	908 970	31	(D)	(D)	(D)	2
Construction work, n.s.k.	5 673 321	(NA)	(NA)	(NA)	7 332 176	1	(NA)	(NA)	(NA)	1
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS										
Value of construction work	95 571 457	57 630 473	20 533 636	16 158 866	82 285 352	(Z)	(Z)	(Z)	(Z)	(Z)
Building construction	2 459 280	1 858 468	337 546	263 266	2 829 821	1	1	2	2	1
Single-family houses	400 393	331 966	40 060	28 367	335 213	3	3	8	8	5
Single-family houses, detached	358 602	302 241	31 832	24 529	277 710	3	3	10	8	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	41 791	29 725	8 228	3 838	57 503	12	16	5	17	9
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	62 846	50 040	7 602	5 205	56 647	3	4	6	13	5
Other residential buildings, including hotels, motels, and tourist cabins	19 773	14 764	3 471	1 539	78 770	4	4	9	4	3
Hotels, motels, and tourist cabins	6 019	4 090	534	1 396	31 050	7	9	22	4	2
Other residential buildings	13 755	10 674	2 937	143	47 720	4	3	10	28	4
Office buildings	301 633	254 678	31 708	15 247	500 785	1	1	6	3	1
Other commercial buildings such as stores, restaurants, and automobile service stations	339 336	257 255	50 708	31 374	570 989	3	3	5	7	2
Industrial buildings and warehouses	809 048	545 374	98 769	164 906	727 195	1	1	4	2	1
Industrial buildings	752 372	506 393	86 973	159 006	653 848	1	1	3	2	1
Warehouses	56 676	38 981	11 795	5 900	73 346	6	6	18	10	7
Religious buildings	14 432	9 825	3 971	635	22 078	10	12	17	21	4
Educational buildings	209 140	154 759	50 548	3 833	171 250	2	1	8	10	2
Hospitals and institutional buildings	162 593	126 840	30 536	5 216	176 676	2	1	6	3	2
Farm buildings, nonresidential	7 351	5 794	607	(S)	16 418	15	18	15	(S)	14
Amusement, social, and recreational buildings, indoors	68 168	61 296	5 884	988	29 019	3	2	17	33	12
Other nonresidential buildings	64 567	45 877	13 683	5 008	144 781	2	2	4	4	4
Nonbuilding construction	91 863 695	55 772 005	20 196 090	15 895 600	77 383 902	(Z)	(Z)	(Z)	(Z)	(Z)
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	32 619 547	16 190 358	10 036 280	6 392 909	30 067 487	(Z)	(Z)	(Z)	1	(Z)
Outdoor swimming pools	2 775	2 306	(D)	(D)	16 979	18	20	(D)	(D)	13
Airport runways and related work	1 516 269	864 960	463 152	188 157	130 877	1	1	1	2	4
Private driveways and parking areas	556 499	282 052	158 315	116 132	674 335	2	1	4	4	2
Fencing	28 932	24 550	(D)	(D)	13 766	12	12	(D)	(D)	14
Recreational facilities	1 293 858	1 022 156	170 989	100 713	911 206	2	3	6	6	4
Bridges, tunnels, and elevated highways	7 923 969	5 310 703	1 982 492	630 773	6 288 782	1	1	1	2	(Z)
Tunnels	1 003 040	908 658	57 042	37 340	654 445	4	4	4	7	1
Bridges and elevated highways	6 920 929	4 402 045	1 925 450	593 433	5 634 337	1	1	1	2	1
Dam and reservoir construction	854 466	611 931	207 807	34 728	946 712	2	2	1	12	1
Marine construction	2 012 498	1 253 731	263 595	495 172	1 508 215	1	1	2	2	1
Harbor and port facilities	528 591	309 283	108 788	110 519	475 743	3	3	3	6	3
Conservation and development construction	3 735 072	2 587 463	604 812	542 797	1 334 665	2	2	4	2	2
Power and communication transmission lines, towers, and related facilities	5 051 308	3 170 274	771 952	1 109 082	3 781 641	1	1	1	1	1
Sewers, water mains, and related facilities	12 347 887	9 460 994	1 858 176	1 028 717	10 757 895	1	1	1	2	1
Sewers, sewer lines, septic systems, and related facilities	7 494 937	5 713 749	1 139 222	641 966	6 582 677	1	1	1	3	1
Water mains and related facilities	4 852 950	3 747 245	718 954	386 751	4 175 218	1	1	2	2	1
Pipeline construction other than sewer or water lines	4 800 292	3 361 943	672 571	765 778	2 910 925	1	1	1	2	1
Mass transit construction	1 587 960	883 970	449 724	254 267	861 651	2	3	3	5	2
Urban mass transit	581 086	391 224	170 066	19 797	290 472	3	5	(Z)	(Z)	(Z)

Table 10. Value of Construction Work for Establishments With Payroll by Industry Group and Type of Construction: 1992 and 1987—Con.

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

Industry and type of construction	1992 value of construction work				1987 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	E
	A	B	C	D		A	B	C	D	E
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS—Con.										
Value of construction work—Con.										
Nonbuilding construction—Con.										
Mass transit construction—Con.										
Railroad construction.....	1 006 874	492 746	279 658	234 470	571 179	3	3	4	5	3
Blast furnaces, petroleum refineries, chemical complexes, etc.....	7 519 005	4 476 852	733 608	2 308 545	4 283 981	(Z)	(Z)	1	(Z)	(Z)
Power plants.....	4 384 809	2 509 059	378 273	1 497 477	4 702 951	(Z)	(Z)	1	(Z)	(Z)
Power plants, nuclear.....	1 037 094	307 726	(D)	(D)	1 689 526	1	2	(D)	(D)	(Z)
Power plants and cogeneration plants, except nuclear.....	3 347 715	2 201 334	(D)	(D)	3 013 425	(Z)	(Z)	(D)	(D)	(Z)
Sewage treatment and water treatment plants.....	4 291 596	2 924 992	1 216 516	150 087	3 692 550	1	2	1	4	1
Sewage treatment plants.....	2 950 321	2 025 817	838 827	85 677	2 592 669	2	2	2	6	1
Water treatment plants.....	1 341 275	899 175	377 689	64 410	1 099 881	1	1	2	4	1
Water storage facilities.....	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Heavy military construction, missile sites, etc.....	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Ships.....	(S)	(S)	(S)	(S)	(NA)	(S)	(S)	(S)	(S)	(NA)
Oilfields.....	257 425	166 573	28 060	62 792	314 686	7	9	7	10	3
Other nonbuilding construction.....	6 479	(D)	(D)	(D)	3 708 855	30	(D)	(D)	(D)	3
Construction work, n.s.k.....	1 248 481	(NA)	(NA)	(NA)	2 071 629	3	(NA)	(NA)	(NA)	2
SPECIAL TRADE CONTRACTORS										
Value of construction work.....	216 905 423	110 725 256	54 917 933	42 074 966	200 432 460	(Z)	(Z)	(Z)	(Z)	(Z)
Building construction.....	180 604 930	96 088 429	49 342 907	35 173 594	163 237 549	(Z)	(Z)	(Z)	(Z)	(Z)
Single-family houses.....	54 702 806	33 381 312	11 014 285	10 307 209	44 864 148	(Z)	1	1	1	(Z)
Single-family houses, detached.....	47 751 597	29 003 313	9 859 818	8 888 466	37 459 660	(Z)	1	1	1	(Z)
Single-family houses, attached, including townhouses and townhouse-type condominiums.....	6 951 209	4 377 999	1 154 467	1 418 743	7 404 488	1	1	2	2	1
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives.....	7 656 086	3 620 029	1 735 284	2 300 774	10 124 722	1	1	2	2	1
Other residential buildings, including hotels, motels, and tourist cabins.....	3 111 170	1 689 912	755 930	665 328	7 053 121	1	1	2	2	1
Hotels, motels, and tourist cabins.....	2 539 680	1 398 358	620 529	520 793	4 653 026	1	2	2	2	1
Other residential buildings.....	571 489	291 554	135 401	144 535	2 400 095	3	4	5	6	2
Office buildings.....	23 984 147	11 310 074	8 036 936	4 637 137	29 763 304	(Z)	(Z)	1	1	(Z)
Other commercial buildings such as stores, restaurants, and automobile service stations.....	25 415 360	13 601 782	6 431 639	5 381 938	22 215 926	(Z)	1	1	1	(Z)
Industrial buildings and warehouses.....	32 076 518	14 801 629	10 002 598	7 272 292	27 599 646	(Z)	(Z)	1	1	(Z)
Industrial buildings.....	27 167 552	12 075 584	8 698 764	6 393 204	22 695 211	(Z)	(Z)	1	1	(Z)
Warehouses.....	4 908 967	2 726 045	1 303 834	879 088	4 904 435	1	1	2	1	1
Religious buildings.....	2 762 696	1 303 538	854 110	605 049	2 212 156	1	1	1	1	1
Educational buildings.....	13 195 959	6 933 243	4 560 932	1 701 784	7 424 436	1	1	1	1	1
Hospitals and institutional buildings.....	13 378 250	6 880 729	4 915 544	1 581 978	8 375 104	(Z)	(Z)	1	1	(Z)
Farm buildings, nonresidential.....	674 321	364 256	123 635	186 429	546 565	3	4	5	4	3
Amusement, social, and recreational buildings, indoors.....	1 512 010	909 935	361 478	240 596	1 149 477	1	1	2	3	2
Other nonresidential buildings.....	2 135 608	1 291 991	550 537	293 080	1 908 944	2	2	4	5	2
Nonbuilding construction.....	27 113 224	14 636 826	5 575 026	6 901 373	24 666 179	1	1	1	1	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.....	3 920 108	2 355 813	849 875	714 420	3 149 753	1	1	2	2	1
Outdoor swimming pools.....	2 145 158	1 643 498	(D)	(D)	2 243 012	3	4	(D)	(D)	3
Airport runways and related work.....	103 607	64 167	(D)	(D)	66 050	4	2	(D)	(D)	9
Private driveways and parking areas.....	3 138 402	1 666 761	637 294	834 347	2 842 214	2	2	3	4	2
Fencing.....	1 433 576	1 060 003	199 399	174 175	1 086 690	4	4	6	5	3
Recreational facilities.....	357 890	234 367	79 905	43 618	119 315	4	5	7	10	6
Bridges, tunnels, and elevated highways.....	783 565	342 359	191 548	249 658	504 493	2	3	4	5	4
Tunnels.....	118 251	(D)	(D)	11 472	120 977	4	(D)	(D)	7	6
Bridges and elevated highways.....	665 314	(D)	(D)	238 186	383 516	3	(D)	(D)	5	5
Dam and reservoir construction.....	87 199	(D)	16 191	(D)	34 693	3	(D)	7	(D)	6
Marine construction.....	(D)	(D)	5 380	(D)	36 994	(D)	16	(D)	(D)	9
Harbor and port facilities.....	100 722	(D)	(D)	(D)	75 495	7	(D)	(D)	(D)	5
Conservation and development construction.....	514 055	388 845	(D)	(D)	149 965	4	4	(D)	(D)	9
Power and communication transmission lines, towers, and related facilities.....	1 930 734	1 039 248	499 013	392 474	2 401 204	2	2	2	3	2
Sewers, water mains, and related facilities.....	2 441 455	1 560 672	321 469	559 314	2 431 726	2	2	4	3	2
Sewers, sewer lines, septic systems, and related facilities.....	1 056 209	643 952	162 933	249 324	1 161 742	3	3	4	4	2
Water mains and related facilities.....	1 385 246	916 720	158 536	309 990	1 269 984	2	3	5	3	2
Pipeline construction other than sewer or water lines.....	477 923	244 217	(D)	(D)	333 502	2	2	(D)	(D)	3
Mass transit construction.....	449 057	259 646	(D)	(D)	428 822	1	1	(D)	(D)	6
Urban mass transit.....	423 207	(D)	(D)	34 862	361 432	1	(D)	(D)	1	1
Railroad construction.....	25 850	(D)	(D)	(D)	67 391	11	(D)	(D)	(D)	35
Blast furnaces, petroleum refineries, chemical complexes, etc.....	3 975 708	1 279 448	(D)	(D)	2 318 295	1	1	(D)	(D)	1
Power plants.....	2 309 233	674 999	681 591	952 643	2 142 639	1	1	1	1	(Z)
Power plants, nuclear.....	(D)	(D)	(D)	140 127	597 240	(D)	(D)	(D)	1	(Z)
Power plants and cogeneration plants, except nuclear.....	(D)	(D)	(D)	812 517	1 545 399	(D)	(D)	(D)	1	1
Sewage treatment and water treatment plants.....	1 687 935	1 139 699	382 566	165 670	1 629 595	1	1	2	3	2
Sewage treatment plants.....	1 083 606	768 233	231 063	84 310	956 828	1	1	3	3	3
Water treatment plants.....	604 329	371 466	151 503	81 360	672 767	2	1	3	4	2
Water storage facilities.....	(D)	(D)	(D)	100 116	(NA)	(D)	(D)	10	20	(NA)
Heavy military construction, missile sites, etc.....	(D)	(D)	10 870	7 860	(NA)	(D)	(D)	7	2	(NA)
Ships.....	241 833	62 751	31 715	147 367	(NA)	4	10	7	5	(NA)
Oilfields.....	271 707	105 980	33 558	132 169	189 196	4	6	10	4	6
Other nonbuilding construction.....	372 983	205 546	70 925	96 511	2 482 526	4	5	10	5	2
Construction work, n.s.k.....	9 187 269	(NA)	(NA)	(NA)	12 528 732	1	(NA)	(NA)	(NA)	1

Table 11. Quarterly Construction Worker Employment for Establishments With Payroll by Industry: 1992

[Thousand dollars. Detail may not add to total because of 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 ¹				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
15, 16, 17	Construction industries	572 851	3 596 200	3 279 642	3 650 182	3 872 139	3 582 836	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
15	Building construction—general contractors and operative builders	168 407	759 057	711 314	764 536	814 603	745 774	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
152	General contractors, residential buildings:												
1521	Single-family houses	107 495	296 236	274 874	301 505	321 730	286 835	(Z)	1	1	1	1	1
1522	Other residential buildings	6 490	35 107	33 802	36 735	36 607	33 284	3	2	2	2	2	2
1531	Operative builders	16 989	49 693	47 452	51 197	52 578	47 547	1	1	1	1	1	1
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses ..	7 693	92 068	87 242	90 555	96 786	93 689	2	1	1	1	2	1
1542	Nonresidential buildings, n.e.c.	29 739	285 952	267 944	284 544	306 902	284 420	1	(Z)	(Z)	1	1	1
16	Heavy construction other than building construction—contractors	37 180	647 406	544 017	675 122	713 074	657 409	1	(Z)	(Z)	(Z)	(Z)	(Z)
1611	Highway and street construction	10 090	211 161	151 138	231 255	249 673	212 577	1	(Z)	(Z)	(Z)	(Z)	(Z)
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction	1 041	36 116	29 284	37 483	41 405	36 291	3	1	1	1	1	1
1623	Water, sewer, and utility lines	10 233	160 105	137 013	159 812	174 938	168 658	1	1	1	1	1	1
1629	Heavy construction, n.e.c.	15 816	240 024	226 582	246 572	247 058	239 883	1	(Z)	(Z)	(Z)	(Z)	1
17	Special trade contractors	367 263	2 189 738	2 024 312	2 210 524	2 344 462	2 179 653	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1711	Plumbing, heating, and air-conditioning..	75 395	455 117	433 552	455 916	476 968	454 034	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1721	Painting and paper hanging.....	31 920	136 427	115 216	141 506	158 841	130 145	1	1	1	1	1	1
1731	Electrical work	54 022	379 052	368 289	371 673	395 949	380 299	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework	22 637	129 762	116 648	134 105	138 553	129 742	1	1	1	1	1	1
1742	Plastering, drywall, and insulation work	18 648	173 465	167 960	174 580	179 379	171 941	1	1	1	1	1	1
1743	Terrazzo, tile, marble, and mosaic work	6 499	26 941	26 602	27 696	28 066	25 403	2	2	2	2	2	2
175	Carpentry and floor work:												
1751	Carpentry	38 210	145 394	133 131	149 112	157 106	142 227	1	1	1	1	1	1
1752	Floor laying and other floorwork.....	10 196	36 434	35 739	36 414	38 680	34 905	1	1	1	1	1	1
1761	Roofing, siding, and sheet metal work ..	27 569	168 764	151 184	167 348	184 483	172 040	1	1	1	1	1	1
1771	Concrete work	26 123	160 750	128 140	170 607	181 828	162 426	1	1	1	1	1	1
1781	Water well drilling	3 638	14 683	13 863	14 887	15 616	14 364	2	2	2	2	2	2
179	Miscellaneous special trade contractors:												
1791	Structural steel erection	3 792	47 138	45 510	47 109	48 891	47 042	2	1	1	1	1	1
1793	Glass and glazing work	4 590	21 352	20 682	21 064	22 058	21 603	2	1	1	1	1	1
1794	Excavation work	13 898	62 437	51 774	64 810	69 804	63 360	1	1	1	1	1	1
1795	Wrecking and demolition work	966	10 409	9 430	10 611	11 375	10 220	4	2	2	2	2	2
1796	Installing building equipment, n.e.c.	3 889	64 380	67 104	58 918	65 180	66 319	2	1	(Z)	1	1	1
1799	Special trade contractors, n.e.c.	25 270	157 231	139 491	164 167	171 685	153 583	1	1	1	1	1	1

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

Table 12. Value of Construction Work for Establishments With Payroll by Location of Construction Work and Industry Group: 1992

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

Item	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
					(Z)	(Z)	(Z)	(Z)
United States	528 105 847	215 628 967	95 571 457	216 905 423	(Z)	(Z)	(Z)	(Z)
Alabama	6 951 298	2 766 396	1 658 385	2 526 518	1	2	1	1
Alaska	2 053 871	838 031	544 591	671 249	3	7	2	3
Arizona	9 589 024	4 390 937	1 437 347	3 760 740	1	2	1	1
Arkansas	3 369 320	1 220 693	815 961	1 332 666	1	3	2	2
California	65 586 751	28 414 338	9 219 418	27 952 995	(Z)	1	1	(Z)
Colorado	9 820 807	4 366 654	1 666 242	3 787 911	1	2	1	1
Connecticut	6 888 318	2 563 168	1 142 231	3 182 919	1	2	1	1
Delaware	2 073 773	800 015	393 024	880 735	2	4	1	2
District of Columbia	2 133 516	944 646	184 710	1 004 161	1	3	2	1
Florida	31 450 528	14 820 541	4 804 174	11 825 812	1	1	1	1
Georgia	13 735 421	6 498 924	2 221 945	5 014 552	1	2	1	1
Hawaii	5 558 404	2 551 726	1 168 777	1 837 901	1	2	1	1
Idaho	2 290 445	891 384	528 661	870 400	2	3	2	2
Illinois	26 775 737	10 055 667	4 096 995	12 623 074	1	1	1	1
Indiana	11 589 958	4 736 031	1 766 657	5 087 270	1	2	1	1
Iowa	4 996 920	1 753 811	1 129 563	2 113 546	1	3	1	1
Kansas	4 919 427	2 055 392	1 023 173	1 840 861	2	4	1	1
Kentucky	6 718 369	2 596 680	1 522 610	2 599 078	1	3	2	1
Louisiana	7 903 816	1 890 151	3 294 376	2 719 290	1	3	1	1
Maine	2 132 365	765 479	516 506	850 381	2	4	2	2
Maryland	12 884 968	5 972 302	1 708 939	5 203 728	1	2	1	1
Massachusetts	11 054 256	4 197 209	2 081 681	4 775 365	1	3	1	1
Michigan	16 131 386	6 002 845	2 363 872	7 764 669	1	2	1	1
Minnesota	10 546 812	4 272 481	1 835 684	4 438 646	1	2	1	1
Mississippi	3 398 199	1 188 401	1 068 127	1 141 671	2	4	2	2
Missouri	9 850 358	4 014 180	1 789 447	4 046 730	1	2	2	1
Montana	1 398 436	467 190	418 386	512 861	2	5	2	3
Nebraska	3 288 678	1 128 187	962 252	1 198 239	2	3	4	2
Nevada	6 243 372	2 673 999	1 251 545	2 317 828	1	2	1	1
New Hampshire	1 686 123	651 173	268 014	766 935	2	3	5	2
New Jersey	16 136 366	6 160 036	2 578 555	7 397 775	1	2	1	1
New Mexico	3 056 414	1 255 009	734 172	1 067 234	2	3	2	2
New York	31 911 435	11 195 941	5 064 936	15 650 558	(Z)	1	1	1
North Carolina	14 335 009	6 465 928	2 300 983	5 568 099	1	2	1	1
North Dakota	1 140 470	335 995	339 440	465 035	2	4	3	3
Ohio	20 840 164	8 266 548	3 477 623	9 095 993	1	1	1	1
Oklahoma	3 906 238	1 400 309	948 948	1 556 981	1	4	2	2
Oregon	6 291 808	2 528 110	1 149 975	2 613 723	1	3	1	1
Pennsylvania	23 670 089	9 345 749	4 072 725	10 251 615	(Z)	1	1	1
Rhode Island	1 712 672	789 743	230 700	692 229	2	3	5	2
South Carolina	6 450 137	2 908 956	1 082 660	2 458 521	1	2	2	1
South Dakota	1 392 098	560 402	363 616	468 080	2	5	4	3
Tennessee	8 769 583	3 457 309	1 981 993	3 330 280	1	2	1	1
Texas	35 609 383	14 222 077	8 935 726	12 451 580	1	1	1	1
Utah	3 427 102	1 380 176	750 647	1 296 279	1	3	2	2
Vermont	1 159 499	555 504	203 668	400 327	2	4	4	4
Virginia	15 216 862	6 858 789	2 728 973	5 629 100	1	2	1	1
Washington	15 553 070	7 242 201	2 626 059	5 684 810	1	2	1	1
West Virginia	2 568 212	791 915	813 157	963 139	1	3	1	2
Wisconsin	10 836 201	4 067 249	1 920 765	4 848 188	1	2	1	1
Wyoming	1 102 377	352 389	382 841	367 147	2	5	3	3

Table 13. Dollar Value of Business Done for Establishments With Payroll by Kind of Business Activity: 1992

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

Primary and other kinds of business activity	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
All kinds of business	539 084 657	220 231 215	98 528 182	220 325 260	(Z)	(Z)	(Z)	(Z)
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS								
General building contractor	132 661 457	131 295 945	1 006 123	359 388	(Z)	(Z)	1	3
General building contractor, remodeling ¹	33 390 458	33 012 224	101 018	277 216	1	1	5	4
Operative builder	44 142 826	44 111 991	2 540	28 296	1	1	1	11
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS								
Blasting contractor, except building demolition	220 462	*61	197 053	23 348	6	62	7	6
Cable laying contractor	3 458 692	15 201	3 344 667	98 824	1	(Z)	1	2
Dredging contractor	681 838	68	(D)	(D)	3	(Z)	(D)	(D)
Excavating, earthmoving, and land clearing contractor, not connected with buildings	6 371 792	43 966	5 581 646	746 181	1	7	1	2
Heavy construction contractor	48 789 621	1 079 650	47 172 053	537 917	(Z)	1	(Z)	2
Highway and street general contractor	22 367 432	562 013	21 522 550	282 869	(Z)	(Z)	(Z)	2
Paving contractor	14 413 445	110 592	12 746 675	1 556 178	1	3	1	2
Pile driving contractors	360 592	(D)	341 792	(D)	3	(D)	3	(D)
Trenching contractor	479 861	(D)	400 892	(D)	4	(D)	5	(D)
SPECIAL TRADE CONTRACTORS								
Acoustical contractor	1 588 918	5 655	—	1 583 263	2	11	—	2
Antenna installation contractor, except household type	94 429	—	(D)	(D)	10	—	(D)	(D)
Architectural sheet metal contractor, including gutters and downspouts	1 122 862	2 440	(S)	1 120 124	2	25	(S)	2
Asbestos removal, lead paint removal, and radon remediation contractor	2 160 379	*863	*4 306	2 155 210	2	71	74	2
Asphalt contractor, private driveways and parking areas	2 429 186	5 493	180 171	2 243 523	2	28	3	2
Bridge painting contractor	227 694	(D)	(D)	223 964	5	(D)	(D)	5
Building sprinkler system installation contractor	2 852 226	986	*2 339	2 848 901	1	11	46	1
Carpentry contractor	10 253 218	102 128	6 179	10 144 911	1	7	16	1
Carpet laying or removal contractor	2 167 405	1 024	—	2 166 381	2	32	—	2
Computer floor installation contractor	172 885	(D)	(D)	171 532	8	(D)	(D)	8
Concrete breaking for streets and highways contractor	59 402	(D)	(D)	57 986	6	(D)	(D)	6
Concrete contractor, except paving of roads, highways, and streets	6 805 319	107 700	103 350	6 594 269	1	8	3	1
Concrete cutting contractor	261 094	(S)	3 974	257 068	5	(S)	24	5
Culvert and curb construction contractor	1 082 797	*3 047	55 994	1 023 756	3	43	5	3
Curtain wall installation contractor	363 842	4 261	1 601	357 981	3	34	32	3
Drywall, sheetrock, spackling and finishing contractor	6 790 882	(D)	(D)	6 732 642	1	(D)	(D)	1
Electric power installation and service contractor, including lighting	28 425 596	41 599	34 940	28 349 057	(Z)	12	2	(Z)
Electronic control systems installation and service contractor	2 427 015	(D)	(D)	2 416 037	1	(D)	(D)	1
Elevator installation and service contractor	3 384 378	(D)	(D)	3 384 186	(Z)	(D)	(D)	(Z)
Energy management contractor	226 979	—	—	226 979	7	—	—	7
Escalator installation and service contractor	263 067	*595	(D)	(D)	(Z)	64	(D)	(D)
Excavating, earth and land clearing contractor, connected with buildings	5 923 757	60 039	745 601	5 118 117	1	7	1	1
Fence construction contractor	1 747 753	6 232	32 204	1 709 318	3	35	10	3
Fire and security systems installation and service contractor	2 645 687	4 239	8 737	2 632 711	1	13	(Z)	1
Flooring contractor, wood	1 024 509	8 953	—	1 015 556	3	13	—	3
Foundation contractor: brick, block, or stone	1 002 901	(D)	(D)	995 660	3	(D)	(D)	3
Foundation contractor, concrete	2 289 138	30 289	19 869	2 495 980	2	12	20	2
Foundation contractor, digging of	752 188	4 200	57 807	690 181	2	22	5	2
Garage and overhead door installation contractor	1 377 525	*1 004	—	1 376 522	3	40	—	3
Glass and glazing contractor	2 679 334	4 000	—	2 675 334	1	12	—	1
Glass coating and tinting contractor	33 707	—	—	33 707	18	—	—	18
Gunite contractor	256 866	(S)	1 219	255 313	7	(S)	29	7
Heating, ventilation and air-conditioning contractor	21 104 475	20 587	7 151	21 076 736	1	12	7	1
Highway lighting and signal installation and service contractor	1 321 284	(D)	23 838	(D)	2	(D)	7	(D)
House moving contractor	85 468	(D)	(D)	(D)	11	(D)	(D)	(D)
Insulation contractor	3 291 099	11 261	—	3 279 839	2	19	—	2
Insulation contractor, pipe and duct work	1 068 783	—	—	1 068 783	2	—	—	2
Lathing contractor	511 586	691	—	510 894	2	17	—	2
Lawn sprinkler system installation contractor	367 908	(D)	(D)	363 217	6	(D)	(D)	6
Linoleum, asphalt resilient or vinyl tile installation contractor	949 033	5 578	—	943 455	2	19	—	2
Marble contractor, exterior	119 253	—	—	119 253	5	—	—	5
Marble contractor, interior	519 577	*220	—	519 357	4	67	—	4
Masonry contractor, brick and block	5 838 531	20 840	6 007	5 811 684	1	13	4	1
Masonry: pointing, cleaning or caulking contractor	322 371	4 101	—	318 270	4	35	—	5
Mechanical contractor	11 612 284	20 895	48 832	11 542 558	1	2	2	1
Millwright	2 842 882	127 452	38 536	2 676 895	1	(Z)	1	1
Modular furniture systems attachment and installation contractor	431 246	5 945	—	425 301	5	7	—	5
Mosaic contractor	4 717	—	—	4 717	4	—	—	4
Ornamental metal contractor	448 861	1 935	—	446 926	4	6	—	4
Painting contractor	7 245 143	46 453	5 646	7 193 045	1	8	20	1
Paper hanging contractor	708 695	(D)	(D)	704 998	2	(D)	(D)	2
Plastering contractor	1 434 215	*245	—	1 433 970	2	49	—	2
Plumbing contractor	14 408 010	8 148	24 787	14 375 074	1	11	5	1
Post frame contractor	449 508	1 926	—	447 582	5	15	—	5
Precast concrete installation contractor	341 258	2 870	5 125	333 263	4	5	23	4

See footnotes at end of table.

Table 13. Dollar Value of Business Done for Establishments With Payroll by Kind of Business Activity: 1992—Con.

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

Primary and other kinds of business activity	Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
SPECIAL TRADE CONTRACTORS—Con.								
Refractory brick contractor	371 123	(D)	(D)	(D)	3	(D)	(D)	(D)
Refrigeration contractor	1 596 460	(D)	(D)	1 592 783	2	(D)	(D)	2
Reinforcing steel contractor	1 127 043	*10 332	4 945	1 111 766	2	41	6	2
Roofing contractor	9 960 072	61 683	1 975	9 896 414	1	9	36	1
Sandblasting contractor, building exteriors	324 673	(S)	2 962	318 819	6	(S)	15	7
Scaffolding construction contractor	313 125	229	—	312 896	2	21	—	2
Septic system installation contractor	558 895	(S)	23 679	531 005	5	(S)	15	5
Service station equipment installation contractor	849 760	1 927	1 292	846 541	3	(Z)	39	3
Sheet metal contractor	4 720 704	6 842	1 468	4 712 394	1	27	8	1
Ship painting contractor	87 128	—	(D)	(D)	3	—	(D)	(D)
Siding contractor	1 671 076	24 005	—	1 647 071	3	13	—	3
Specialty sheet metal contractor, including decking and metal ceilings	469 488	*474	—	469 014	4	59	—	4
Steam fitting and piping contractor	1 929 085	7 030	4 639	1 917 417	1	3	22	1
Steel tank dismantling contractor	60 125	—	(S)	59 868	9	—	(S)	9
Stonework contractor	516 770	1 397	627	514 745	4	24	22	4
Storage tanks, metal: erection contractor	537 172	4 856	20 205	512 112	3	38	9	3
Structural steel erection contractor	2 615 630	9 478	12 227	2 593 926	1	15	11	1
Subdividing and preparing land owned by others contractor	111 982	—	8 371	103 611	9	—	26	10
Swimming pool contractor	1 910 140	4 355	1 360	1 904 425	4	29	32	4
Telecommunications installation and service contractor	4 568 814	2 377	22 823	4 543 614	1	1	4	1
Terrazzo contractor	161 922	—	—	161 922	4	—	—	4
Test boring or core drilling contractor for construction	460 372	*324	5 739	454 310	4	47	4	4
Tile setting contractor	1 770 566	(D)	(D)	1 767 478	2	(D)	(D)	2
Traffic lane painting contractor	334 585	(D)	(D)	328 174	5	(D)	(D)	5
Water well drilling contractor	1 718 722	(D)	(D)	1 698 843	1	(D)	(D)	1
Waterproofing, dampproofing and fireproofing contractor	1 216 440	5 475	2 201	1 208 765	2	17	28	2
Welding contractor, operating at the site of construction	634 152	3 286	10 674	620 193	3	31	11	3
Wrecking and demolition contractor, buildings and other structures	975 774	6 741	33 423	935 611	2	9	8	2
Special cases	3 151 005	11 330	746 742	2 392 933	(NA)	(NA)	(NA)	(NA)
Other construction activities	771 818	88 943	53 011	629 865	4	7	8	5
OTHER BUSINESS ACTIVITIES								
Architectural services	179 274	174 661	(S)	4 084	5	5	(S)	25
Building construction on land owned by you, for rent or lease	495 043	476 397	2 640	16 006	3	3	12	27
Construction management services	1 770 473	1 365 133	325 245	80 094	1	1	1	7
Engineering services	760 223	94 694	505 685	159 843	1	6	(Z)	5
Manufacturing	1 314 112	106 584	679 896	527 632	1	9	1	2
Mining services	427 422	17 753	398 216	11 453	1	4	1	11
Real estate commissions and management fees	280 618	262 057	7 787	10 774	4	4	3	12
Rental of construction machinery or equipment to others	604 889	109 371	277 921	217 597	1	3	2	2
Rental or lease of properties	471 503	406 056	23 240	42 206	2	3	4	7
Retail trade	1 775 838	201 873	274 839	1 299 126	1	4	2	2
Subdividing and preparing your own land for sale, rent, or lease	808 909	793 976	*10 544	4 389	3	3	71	23
Transportation of goods for others	296 137	23 822	154 031	118 284	3	10	4	3
Wholesale trade	583 357	33 049	87 049	463 258	2	22	3	2
Other business activities	1 008 621	525 023	127 226	356 373	1	2	3	2
Kind of business activity, n.s.k.	6 778 341	4 223 811	127 298	2 427 231	1	1	5	2

¹In 1987, this item, for the most part, represented the value of residential remodeling general contractor work. For 1992, it represents the value of both residential and nonresidential remodeling general contractor work.

Table 14. Dollar Value of Business Done for Establishments With Payroll by Kind of Business Activity: 1987

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

Primary and other kinds of business activity	Construction industries	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
All kinds of business	514 937 596	225 188 140	85 672 568	204 076 888	(Z)	(Z)	(Z)	(Z)
General building contractor	148 214 732	145 789 348	1 705 250	720 132	(Z)	(Z)	1	3
Operative builder	47 091 208	47 030 988	7 709	52 510	1	1	10	12
Residential remodeling contractor	9 682 688	9 475 027	4 567	203 093	1	1	24	7
Highway and street contractor.....	21 272 525	216 647	20 743 248	312 629	(Z)	2	(Z)	3
Paving contractor	10 337 923	52 301	9 326 249	959 372	1	6	1	4
Heavy construction:								
Heavy construction contractor.....	40 368 309	1 324 439	38 371 682	672 187	(Z)	1	(Z)	2
Cable laying contractor	1 604 902	(D)	1 579 490	(D)	2	(D)	2	(D)
Dredging contractor	550 592	(D)	548 679	(D)	1	(D)	1	(D)
Trenching contractor	601 043	1 964	586 459	12 619	3	11	3	12
Excavating and earthmoving contractor	6 639 595	93 179	6 271 510	274 905	1	8	1	4
Pile driving contractor	318 516	(D)	301 652	(D)	3	(D)	3	(D)
Blasting contractor	122 023	—	114 780	7 242	8	—	9	16
Subdivider and developer	1 040 216	1 018 249	13 164	8 802	3	3	36	33
Subdividing land owned by others	751 481	60 261	39 270	651 948	4	11	16	4
Heating, ventilation, and air-conditioning contractor	18 786 322	34 126	34 243	18 717 948	1	4	16	1
Building sprinkler system contractor	1 970 086	—	3 767	1 966 318	1	—	17	1
Energy management contractor	110 307	—	—	110 307	7	—	—	7
Lawn sprinkler system contractor	327 478	*272	5 342	321 863	5	49	11	5
Mechanical contractor	9 223 322	23 127	42 115	9 158 079	1	3	10	1
Plumbing contractor	13 561 747	29 546	26 811	13 505 389	1	9	6	1
Refrigerator contractor	1 201 130	9 365	—	1 191 765	3	1	—	3
Septic system contractor	509 131	8 818	23 453	476 860	4	17	10	5
Steam fitting and piping contractor.....	2 057 661	(D)	(D)	2 039 812	1	(D)	(D)	1
Painting construction:								
Bridge painting contractor.....	164 711	(D)	(D)	161 898	9	(D)	(D)	10
Painting contractor	6 653 441	42 350	3 288	6 607 802	1	7	9	1
Ship painting contractor	71 684	—	—	71 684	6	—	—	6
Traffic lane painting contractor	186 473	—	8 035	178 437	7	—	13	7
Paper hanging contractor	743 128	5 704	—	737 423	2	15	—	2
Electrical contractor:								
Electric power contractor	27 096 254	40 377	37 088	27 018 788	(Z)	7	2	(Z)
Electronic control system contractor	1 709 205	(D)	(D)	1 700 629	1	(D)	(D)	1
Highway lighting and signal contractor	867 037	145	11 417	855 474	2	24	(Z)	2
Fire and security systems contractors	1 981 378	1 723	575	1 979 079	1	9	21	1
Telecommunications contractor.....	3 887 235	1 915	16 906	3 868 412	1	28	21	1
Masonry contractor:								
Marble contractor, exterior	234 159	(D)	(D)	233 339	5	(D)	(D)	5
Masonry contractor, block and brick	6 887 226	26 828	4 494	6 855 902	1	12	32	1
Stonework contractor	434 171	(D)	(D)	426 104	5	(D)	(D)	6
Foundation contractor, masonry	1 063 016	7 033	(S)	1 055 881	3	27	(S)	3
Acoustical contractor	1 888 370	15 049	—	1 873 320	1	4	—	1
Drywall contractor	7 883 302	37 524	*2 823	7 842 955	1	5	51	1
Insulation contractor	3 485 155	6 580	—	3 478 574	1	20	—	1
Lathing contractor	(D)	(D)	—	710 004	(D)	(D)	—	2
Plastering contractor	1 820 034	8 641	—	1 811 393	2	13	—	2
Marble contractor, interior	342 349	599	—	341 750	3	35	—	4
Mosaic contractor	7 670	—	—	7 670	18	—	—	18
Terrazzo contractor	170 671	—	—	170 671	4	—	—	4
Tile setting contractor	1 867 234	2 838	—	1 864 396	2	39	—	2
Carpentry contractor	9 628 458	137 919	7 328	9 483 210	1	6	17	1
Garage door installation contractor	882 472	3 191	—	879 280	4	21	—	4
Floor covering contractor, except wood:								
Computer or resilient floor installation contractor	307 419	1 270	*799	305 350	8	39	42	8
Linoleum, asphalt or vinyl tile installation contractor	680 672	1 789	(S)	677 301	2	15	(S)	2
Carpet laying or removal contractor	1 798 830	(D)	(D)	1 797 569	2	(D)	(D)	2
Flooring contractor, wood.....	676 287	(D)	(D)	675 112	3	(D)	(D)	3
Architectural sheet metal contractor	1 009 582	4 892	*32	1 004 657	2	19	52	2
Roofing contractor	8 870 759	45 274	4 903	8 820 581	1	8	(Z)	1
Sheet metal contractor	4 091 395	(D)	(D)	4 085 372	1	(D)	(D)	1
Siding contractor.....	1 222 957	(D)	(D)	1 198 146	4	(D)	(D)	4
Specialty sheet metal contractor.....	324 885	(D)	(D)	321 258	6	(D)	(D)	6
Concrete construction:								
Asphalt contractor	2 567 925	2 643	161 367	2 403 914	2	28	4	2
Concrete contractor	7 926 570	83 487	96 520	7 746 562	1	4	4	1
Gunite contractor	186 541	(D)	(D)	186 166	4	(D)	(D)	4
Culvert and curb contractor	269 177	2 286	26 329	240 561	6	28	7	7
Foundation contractor, concrete	2 969 469	47 636	27 604	2 894 229	1	4	6	1
Water well drilling contractor	1 269 128	—	7 614	1 261 514	2	—	11	2
Reinforcing steel contractor	975 827	3 677	7 566	964 583	2	10	(Z)	2
Structural steel erection contractor	(D)	27 688	(D)	3 048 731	(D)	15	(D)	1
Curtain wall installation contractor	233 424	1 532	—	231 892	1	(Z)	—	1
Glass and glazing contractor	3 070 146	(D)	(D)	3 064 692	1	(D)	(D)	1
Glass, coating, and tinting contractor	17 532	—	—	17 532	26	—	—	26
Excavation contractor, for buildings	5 310 770	78 126	310 274	4 922 369	1	7	3	1
Foundation contractor, digging of	1 522 470	10 957	93 965	1 417 547	2	18	4	2

Table 14. Dollar Value of Business Done for Establishments With Payroll by Kind of Business Activity: 1987—Con.

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

Primary and other kinds of business activity	Construction industries	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors	Relative standard error of estimate (percent) for column—			
					A	B	C	D
All kinds of business—Con.								
Wrecking and demolition construction:								
Steel tank dismantling contractor	9 499	(D)	(D)	7 310	24	(D)	(D)	30
Wrecking and demolition contractor	918 999	4 138	26 942	887 918	1	21	6	1
Concrete breaking contractor, highways and streets	78 560	(D)	(D)	75 438	9	(D)	(D)	9
Elevator contractor	2 878 677	(S)	*1 032	2 877 269	(Z)	(S)	59	(Z)
Escalator contractor	153 614	(D)	(D)	152 664	1	(D)	(D)	1
Millwright	2 096 995	45 923	23 478	2 027 593	2	2	3	2
Antenna installation contractor	84 367	(S)	*3 310	80 777	11	(S)	44	11
Fencing contractor	1 346 489	*3 358	19 479	1 323 651	3	42	6	3
House moving contractor	143 747	(D)	(D)	137 288	9	(D)	(D)	9
Iron work contractor	573 833	761	(S)	573 066	3	23	(S)	3
Insulation contractor, pipe and duct work	(D)	—	(D)	1 171 148	(D)	—	(D)	2
Sandblasting contractor	195 745	—	988	194 757	8	—	16	8
Scaffolding contractor	127 259	305	—	126 953	4	(Z)	—	4
Service station equipment installation contractor	529 874	4 884	(S)	524 600	4	8	(S)	4
Swimming pool contractor	2 009 910	4 445	2 048	2 003 416	3	31	35	3
Test boring or core drilling contractor	205 604	(D)	(D)	194 906	5	(D)	(D)	5
Waterproofing, dampproofing and fireproofing contractor	944 277	10 412	197	933 667	2	2	27	2
Welding contractor, on site	443 152	1 716	5 580	435 855	4	26	17	4
Other construction activities	4 940 439	912 020	618 841	3 409 645	1	2	3	2
Architectural services	195 035	174 540	17 707	2 788	2	3	3	15
Construction management	2 554 990	1 683 317	847 089	24 582	1	1	(Z)	17
Engineering services	553 551	122 371	409 994	21 185	2	8	(Z)	11
Manufacturing	1 084 273	167 769	589 507	326 996	1	3	1	2
Real estate agents and managers	583 017	565 779	3 035	14 202	2	2	10	10
Rental or construction machinery or equipment to others	644 072	129 470	316 710	197 891	1	2	1	2
Retail trade	(D)	(D)	(D)	1 268 072	1	1	19	9
Wholesale trade	(D)	(D)	(D)	490 995	(D)	(D)	(D)	2
Investment builder	823 292	810 273	942	12 076	2	2	34	7
Other activities ¹	11 080 881	8 824 831	980 592	1 275 457	1	1	1	1
Kind of business activity, n.s.k.	10 873 210	5 526 440	946 583	4 400 186	1	1	3	2

¹In 1987, receipts from the sale of land were collected and have been included in other activities. For 1992, respondents were instructed to exclude receipts from the sale of land from dollar value of business done.

Table 15. Selected Industry Ratios for Establishments With Payroll: 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
15, 16, 17	Construction industries -----	8.1	25.2	146.9	.223	.317	.259	.270	.016
15	Building construction—general contractors and operative builders -----	6.5	24.7	284.1	.126	.261	.468	.032	.008
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.8	18.0	164.2	.150	.356	.308	.038	.008
1522	Other residential buildings -----	7.5	23.8	223.2	.148	.256	.446	.043	.008
1531	Operative builders -----	6.7	29.4	897.3	.075	.294	.398	.009	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	16.0	28.3	223.6	.169	.240	.467	.066	.012
1542	Nonresidential buildings, n.e.c. -----	13.7	29.0	328.7	.126	.201	.586	.031	.008
16	Heavy construction other than building construction—contractors -----	21.5	29.7	147.6	.248	.328	.189	.178	.032
1611	Highway and street construction -----	25.5	28.6	167.3	.208	.381	.211	.208	.032
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	42.0	34.0	199.3	.206	.323	.261	.122	.025
1623	Water, sewer, and utility lines -----	19.0	29.0	126.2	.278	.301	.130	.186	.037
1629	Heavy construction, n.e.c. -----	19.2	30.5	136.8	.282	.288	.185	.153	.030
17	Special trade contractors -----	7.5	24.1	99.1	.309	.369	.083	.548	.017
1711	Plumbing, heating, and air-conditioning -----	8.1	27.1	125.0	.292	.388	.108	.518	.015
1721	Painting and paper hanging -----	5.1	19.5	63.7	.364	.264	.068	.516	.018
1731	Electrical work -----	9.0	28.0	106.2	.338	.384	.043	.557	.014
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework ---	6.5	19.5	65.2	.341	.337	.059	.711	.014
1742	Plastering, drywall, and insulation work -----	11.1	23.8	81.0	.349	.345	.088	.829	.012
1743	Terrazzo, tile, marble, and mosaic work -----	5.2	22.8	90.5	.318	.413	.048	.783	.012
175	Carpentry and floor work:								
1751	Carpentry -----	4.6	19.6	88.4	.271	.370	.118	.576	.012
1752	Floor laying and other floorwork -----	4.8	21.8	121.5	.241	.447	.089	.606	.014
1761	Roofing, siding, and sheet metal work -----	7.8	21.4	99.5	.275	.409	.071	.421	.014
1771	Concrete work -----	7.4	21.0	89.7	.280	.392	.086	.611	.022
1781	Water well drilling -----	5.3	22.9	117.6	.257	.408	.030	.151	.016
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	15.3	28.1	105.1	.329	.325	.094	.691	.028
1793	Glass and glazing work -----	7.0	24.8	127.6	.292	.514	.033	.701	.021
1794	Excavation work -----	5.5	23.6	110.0	.264	.287	.108	.574	.044
1795	Wrecking and demolition work -----	13.6	22.6	101.8	.280	.196	.124	.409	.049
1796	Installing building equipment, n.e.c. -----	21.3	28.1	102.7	.352	.269	.072	.273	.018
1799	Special trade contractors, n.e.c. -----	8.1	21.7	86.9	.325	.333	.098	.377	.022

Table 16. Selected Statistics for Establishments With Payroll by Industry: Percent Change 1992/ 1987

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

SIC code	Industry	Employees**		Payroll		Value of construction work	Net value of construction work†	Selected costs		Value added††	Total capital expenditures, other than land
		All	Construction workers	All employees	Construction workers			Materials, components, supplies, and fuels	Construction work subcontracted out to others		
15, 16, 17	Construction industries -----	-6.9	-9.6	6.8	4.3	6.6	7.1	11.8	5.2	2.9	-4.6
15	Building construction—general contractors and operative builders -----	-14.2	-18.0	-2.8	-6.3	1.4	3.3	10.1	-7	-3.7	-24.7
152	General contractors, residential buildings:										
1521	Single-family houses -----	1.9	-3.6	16.0	12.1	24.4	23.2	29.6	27.1	14.8	-10.4
1522	Other residential buildings -----	-40.3	-42.7	-33.7	-36.5	-41.2	-30.7	-30.4	-50.5	-32.9	-44.3
1531	Operative builders -----	-32.4	-37.5	-23.4	-29.3	-8.9	-	-4	-19.8	.8	-55.4
154	General contractors, nonresidential buildings:										
1541	Industrial buildings and warehouses -----	-14.0	-16.9	-3.9	-7.5	-4.1	-1.1	-2.6	-7.2	-6.5	-27.5
1542	Nonresidential buildings, n.e.c. -----	-16.7	-22.1	-3	-7.4	4.7	-1.5	13.7	9.5	-12.4	-4.9
16	Heavy construction other than building construction—contractors -----	-3.3	-5.3	16.3	14.0	16.1	13.3	16.5	30.3	9.4	7.4
1611	Highway and street construction -----	-9.5	-11.7	4.5	1.1	3.4	-4	10.1	20.9	-8.2	-5.3
162	Heavy construction, except highway:										
1622	Bridge, tunnel, and elevated highway construction ----	-8.0	-9.9	24.6	23.7	31.3	27.0	25.4	45.5	26.7	2.3
1623	Water, sewer, and utility lines -----	-1.7	-3.5	24.6	24.1	18.8	16.8	16.6	33.9	16.3	10.0
1629	Heavy construction, n.e.c. -----	2.2	.8	20.9	18.5	28.1	26.2	24.5	37.4	21.8	31.4
17	Special trade contractors -----	-4.7	-7.6	8.1	5.1	8.2	7.1	11.2	22.7	4.1	-3.4
1711	Plumbing, heating, and air-conditioning -----	-8	-3.3	15.9	14.3	14.9	14.0	14.3	23.3	13.6	4.7
1721	Painting and paper hanging -----	-4.3	-6.2	6.2	3.5	9.3	8.7	27.0	17.2	2.4	-1.6
1731	Electrical work -----	-4.4	-6.6	7.6	4.3	12.3	11.2	16.4	45.6	7.9	2.5
174	Masonry, stonework, tile setting, and plastering:										
1741	Masonry, stone setting, and other stonework -----	-12.5	-13.7	-2.2	-3.9	-2.9	-3.8	-2	12.8	-6.0	-13.8
1742	Plastering, drywall, and insulation work -----	-18.5	-20.2	-10.5	-12.0	-14.4	-15.3	-15.1	-4.5	-16.5	-28.4
1743	Terrazzo, tile, marble, and mosaic work -----	-1.2	-3.5	5.6	2.5	7.4	6.4	10.9	29.5	3.1	-27.0
175	Carpentry and floor work:										
1751	Carpentry -----	-6.7	-11.4	6.6	2.8	14.3	12.9	14.0	26.0	11.2	4.9
1752	Floor laying and other floorwork -----	9.8	5.1	17.5	12.1	21.3	19.6	22.9	41.0	15.2	11.5
1761	Roofing, siding, and sheet metal work -----	-6.7	-9.7	7.2	3.8	11.7	9.9	16.7	41.8	4.5	-6.6
1771	Concrete work -----	-11.8	-14.0	-3.3	-5.6	-4.2	-4.9	1.5	3.4	-8.8	-9.8
1781	Water well drilling -----	9.9	7.7	32.4	29.8	29.9	29.0	26.4	66.9	27.6	12.6
179	Miscellaneous special trade contractors:										
1791	Structural steel erection -----	-11.3	-13.9	2.2	-4	1.8	-5	15.0	32.0	-7.1	8.4
1793	Glass and glazing work -----	-20.8	-25.7	-13.4	-18.5	-15.5	-16.2	-15.3	12.8	-16.3	-36.6
1794	Excavation work -----	-19.1	-21.2	-11.8	-12.3	-16.7	-18.2	-9	-1.7	-24.0	-28.8
1795	Wrecking and demolition work -----	-7.1	-10.9	13.2	9.8	16.1	9.9	89.9	93.5	-9	-43.4
1796	Installing building equipment, n.e.c. -----	33.0	28.1	25.1	20.4	23.3	22.4	24.3	36.8	20.7	45.7
1799	Special trade contractors, n.e.c. -----	16.0	11.0	43.6	37.5	26.4	25.3	23.3	36.7	24.9	46.1

Table 17. Employment and Payroll for Auxiliary Establishments by Industry Group: 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	All auxiliaries	Centralized administration offices	Warehousing	Research and development	Other activities
		A	B	C	D	E
15, 16 17	Construction industries					
	Number of establishments	337	282	8	2	45
	All employees as of March 12	14 677	13 084	55	(D)	(D)
	Annual payroll, all employees	712 766	637 298	1 098	(D)	(D)
15	Building construction—general contractors and operative builders					
	Number of establishments	82	74	2	—	6
	All employees as of March 12	3 427	3 385	(D)	—	(D)
	Annual payroll, all employees	162 180	160 710	(D)	—	(D)
16	Heavy construction other than building construction—contractors					
	Number of establishments	107	84	2	—	21
	All employees as of March 12	5 606	4 894	(D)	—	(D)
	Annual payroll, all employees	270 621	243 109	(D)	—	(D)
17	Special trade contractors					
	Number of establishments	148	124	4	2	18
	All employees as of March 12	5 644	4 805	(D)	(D)	(D)
	Annual payroll, all employees	279 965	233 479	(D)	(D)	(D)

Note: Annual payroll, all employees shown in thousand dollars.

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
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work, Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
161	Highway and Street Construction, Except Elevated Highways	176	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
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	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction Contractors, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting and Paper Hanging Special Trade Contractors	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

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

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 August 1995) [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 August 1995 through December 1995) [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 August 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.