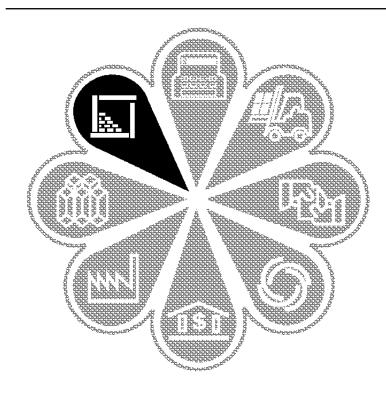
1992 Census of Construction Industries

CC92-I-7

INDUSTRY SERIES

Bridge, Tunnel, and Elevated Highway Construction Contractors

Industry 1622



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Issued July 1995



U.S. Department of Commerce Ronald H. Brown, Secretary David J. Barram, Deputy Secretary

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

> BUREAU OF THE CENSUS Martha Farnsworth Riche, Director

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



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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:

- 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

¹Standard 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 singleestablishment 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 fourdigit 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 fourdigit 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:

$$x'_{c} = \sum_{i=1}^{n} x_{i} / p_{i}$$

- where: x'_{c} is the simple unbiased estimate of a characteristic for a publication cell.
 - x, is the reported value of a characteristic for an individual establishment in the publication cell.
 - p, 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 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.

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. Results from the 1989 Pretest questionnaire are reflected as reworded questions, improved instructions, and restructured value of business questions in the 1992 questionnaires.

DATA PROCESSING

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

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

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

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

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

GEOGRAPHIC CLASSIFICATION

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

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

CHANGE IN COLLECTION METHODOLOGY FOR VALUE OF CONSTRUCTION WORK DONE

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

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

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

DUPLICATION IN VALUE OF CONSTRUCTION WORK

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

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

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

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

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

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1992 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity; whereas, the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities, and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes constructionrelated 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 the United States	By State	By employment size	By size class of dol- lar value of busi- ness done	By type, class, kind of business, and location of construction ¹	By specialization in types of construction
Assets and depreciation (gross book value): Beginning of year—buildings, machinery, and equipment	3					
End of year—total End of year—buildings, machinery, and equipment Depreciation charges during year— buildings, machinery, and equipment	1, 3 3 3	1	5	6		
Capital expenditures: Total capital expenditures	1, 3 3 3	1	5	6		
Communication services, costs for	2					
Employees: All employees—average number Construction workers—average number Construction workers—quarterly Other employees—average number Other employees—quarterly	1, 2, 8 1, 2, 9 2, 9 2 2 2	1 1, 9 9	5	6		8
Establishments—number in business during year	1, 2, 4, 8, 9	1, 9	5	6		8
Fringe benefits—legally required and voluntary expenditures	2					
Inventories	4					
Materials, components, supplies, and fuels-costs for	1, 2	1	5	6		
Ownership—private or government owned	2					
Payroll: First-quarter, all employees	2 1, 2, 8 1, 2 2	1 1	5	6		8
Power, fuels, and lubricants—costs for	2					
Proprietors and working partners	2					
Ratios, selected industry	12	13				
Receipts and value: Dollar value of business done, total Value of construction work, total For work subcontracted in from others Other business receipts Net value of construction work	2, 11 1, 2, 4, 7, 8, 10 1, 2 2 1, 2, 8	1, 10	5 5 5	6	11 7, 10	8
Value added	1, 2, 8	1	5	6		8
Rental costs: Total For machinery and equipment For buildings	1, 2 2 2	1	5	6		
Repairs to buildings and other structures	2					
Repairs to machinery and equipment	2					
Subcontract work to others, costs for	1, 2, 8	1	5	6		8

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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Statistics for Establishments Without Payroll appear in the U.S. Industry Summary Report.

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CONSTRUCTION-INDUSTRY SERIES

Summary of Findings

Establishments classified in this industry are primarily engaged in the construction of bridges; viaducts; elevated highways; and highway, pedestrian, and railway tunnels. General contractors primarily engaged in subway construction are classified in Industry 1629, Heavy Construction Contractors, Not Elsewhere Classified. For additional examples, refer to the *Standard Industrial Classification Manual: 1987*¹ (SIC) published by the Office of Management and Budget, Executive Office of the President.

During 1992, the establishments with paid employees classified in this industry accounted for \$7.3 billion in total dollar value of business. Of this amount, \$7.2 billion were for the value of construction work. These establishments paid out \$2.2 billion for materials, components, and supplies and \$1.9 billion for construction work subcontracted to others. Costs for selected power, fuels, and lubricants for the industry were \$108 million. Value added for 1992 was \$3.1 billion.

There were 1,041 establishments with total employment averaging 43,701 during the year. Total payroll for 1992 was \$1.5 billion.

Larger establishments with 20 employees or more, while representing only 47 percent of the total number of employer establishments in this industry, accounted for 90 percent of all business done.

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 sampled establishment covering domestic operations. Separate reports were not, however, required for each project or construction site.

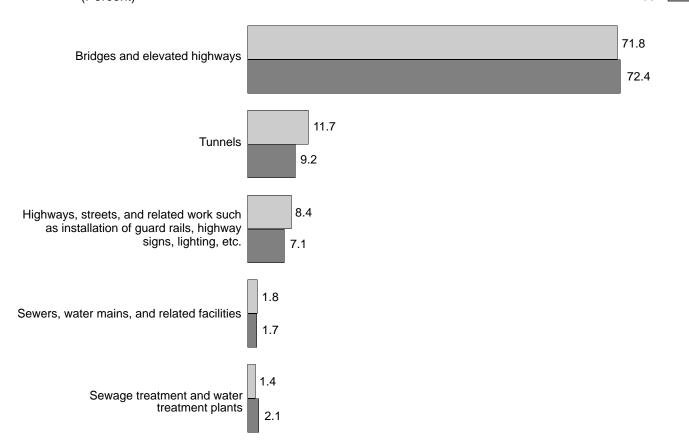
For 1987 and earlier censuses, receipts from the sale of land were collected separately for general contractors and operative builders. These receipts were included in the total dollar value of business done but excluded from the value of construction work done. For 1992, receipts from the sale of land 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.

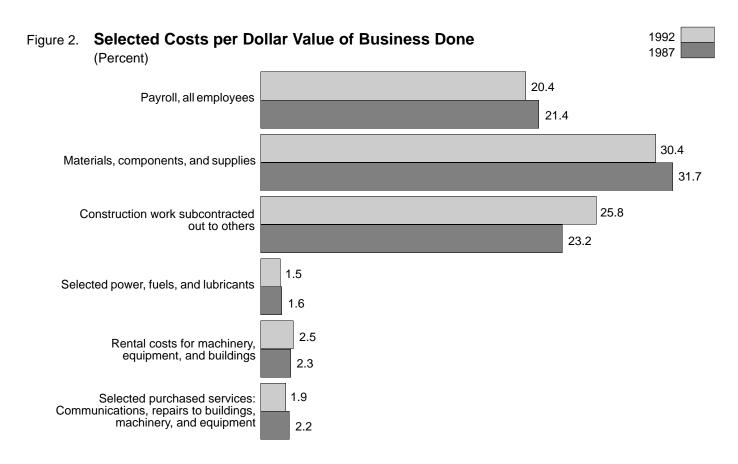
The data in this report are estimated from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The relative standard error shown in the tables is a measure of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the introduction.

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

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

1992 1987





CONSTRUCTION—INDUSTRY SERIES

Table 1. General Statistics for Establishments With Payroll by State: 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 appendix AJ

1992 Employees** Payroll Net Cost of Value value materials Location of establishment Number of establishof components, supplies, and of Construction All Construction Value ments All workers employees workers work work† addedtt fuels A в С D Е F G н ī United States _____ 1 041 43 701 36 116 1 485 491 1 125 201 7 198 275 5 315 950 3 078 306 2 326 306 Alabama _____ 15 4 763 632 16 240 12 549 92 482 63 712 27 009 37 057 118 (D) 308 83 (D) 255 4 307 (D) 4 499 22 873 (D) 24 482 Alaska ______ Arizona ______ 6 048 25 059 (D) (D) 14 260 14 239 (D) 6 141 (D) 34 353 (D) 10 557 Arkansas 19 California _____ 50 2 255 1 809 101 186 79 146 592 300 357 290 186 155 179 593 Colorado 10 358 291 11 614 9 185 73 587 46 677 23 603 (D) 52 105 Connecticut..... Delaware _____ District of Columbia _____ 1 167 *75 43 395 2 598 182 422 11 913 26 921 29 437 142 931 92 845 (S) 52 1 559 (D) 5 453 (D) 32 1 781 1 476 45 063 32 005 312 602 205 848 79 328 128 381 Florida 27 1 002 802 22 065 15 706 110 442 85 024 53 428 31 612 Georgia _____ Idaho ______ (D) 10 544 414 404 288 560 2 4 (D) 100 (D) 81 (D) 2 877 (D) 2 252 (D) 12 181 (D) 5 796 (D) 4 919 3 062 2 252 128 128 92 367 100 380 72 229 552 142 354 663 283 334 136 836 132 490 155 333 52 32 2 594 1 852 Indiana_____ 673 805 607 18 554 23 629 22 027 14 493 19 039 17 315 73 159 106 140 108 917 24 399 41 804 43 330 41 783 43 811 42 208 61 81 951 227 _____ 28 794 918 714 Kansas_____ 18 24 Kentucky Louisiana Maine 84 639 (D) 12 (D) (D) (D) (D) (D) (D) 945 557 607 16 479 46 639 16 379 21 345 76 689 497 175 108 551 38 107 212 732 42 002 Marvland . 22 807 21 437 62 489 24 803 Maryland Massachusetts Michigan Minnesota Mississippi 178 495 722 122 876 34 130 56 732 69 542 21 689 324 593 75 805 1 1 32 29 11 12 142 610 119 275 (D) 49 569 857 28 407 (D) 82 485 978 855 21 395 17 253 (D) 38 980 38 005 28 953 187 041 154 810 90 688 67 243 Missouri 1 199 199 111 63 (D) 120 100 50 (D) 2 314 1 267 5 571 4 065 Montana _____ Nebraska_____ 56 (D) 2 054 (D) 14 658 (D) 11 490 (D) 7 425 Nevada ______ New Hampshire ______ (D) 12 598 1 (D) 3 715 (D) 2 575 (D) 19 636 (D) 7 687 (D)6 385 **`**86 35 824 2 195 137 555 9 610 4 263 54 835 7 306 188 183 26 979 48 780 169 713 18 551 146 054 1 067 94 691 New Jersev 24 (S) 96 14 4 846 (D) 184 300 14 097 5 326 (D) 565 471 53 013 19 442 (D) 387 577 26 140 10 798 127 118 3 462 511 157 760 910 71 756 24 934 4 232 599 182 8 644 46 309 14 265 7 118 63 739 4 371 61 359 17 825 9 502 216 309 76 335 38 059 57 29 1 712 1 294 607 278 470 126 190 93 078 38 067 -----Oklahoma _____ Oregon _____ Pennsylvania _____ 691 93 399 57 545 40 173 22 909 253 203 (D) 66 2 935 137 2 398 106 403 860 24 169 300 275 18 043 202 207 (D) 104 953 (D) 86 218 -----Rhode Island (D) 7 332 675 27 549 23 192 2 656 49 741 3 879 204 114 South Carolina _____South Dakota _____ 13 3 30 364 31 (D) 1 737 64 753 84 136 440 10 917 40 952 21 205 40 952 (D) 136 954 150 985 10 710 440 38 1 433 1 368 (D) 73 366 67 169 (D) 35 770 31 495 3 564 31 1 262 1 136 Tennessee _____ Texas _____ Utah _____ 176 393 21 760 136 117 56 *9 137 6 154 4 556 17 797 91 448 190 397 21 813 23 084 126 648 235 643 27 422 Vermont_____ 13 252 216 5 681 4 129 10 990 7 748 25 829 62 914 5 706 44 257 4 129 19 333 45 547 4 571 41 620 67 549 9 869 987 1 414 836 1 023 49 892 126 915 Virginia_____ Washington_____ . 41 67 29 23 6 12 *8 West Virginia _____ Wisconsin _____ Wyoming _____ 140 119 12 018 1 007 211 1 155 36 219 323 954 177 112 780 (D) 7 087 15 302 211 4 421 3 174 20 359 8 841

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CONSTRUCTION-INDUSTRY SERIES

		1992—Con.				1987					
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††	error (pe	Relative standard error of estimate (percent) for column—		Location of establish- ment
L	к	L	М	N	0	Р	Q	В	G	М	
1 882 325	874 650	182 852	155 163	1 602 798	47 494	5 480 936	2 430 434	1	1	1	U.S
28 770 2 186 (D) 9 871 235 010	16 386 (D) (D) 4 263 124 739	807 757 (D) 502 21 128	3 845 1 256 (D) 1 467 11 658	28 372 11 062 (D) 10 820 94 222	530 (D) 1 214 356 1 940	57 804 (D) 130 042 46 105 301 677	22 516 (D) 48 277 15 845 153 566	5 (Z) (D) 15 2	3 (Z) (D) 13 1	26 (Z) (D) 11 4	AL AK AZ AR CA
26 910 39 491 (D)	12 742 16 616 824	937 9 223 191	651 1 452 546	14 770 41 119 4 692	693 1 068 *46	108 254 150 625 (D)	20 984 90 928 *3 339	(Z) 2 40 -	(Z) 2 (D)	7 (Z) 31	CO CT DE DC
106 754	38 463	12 326	9 338	38 896	853	107 728	33 219	4	2	3	FL
25 417 (D) 1 637 137 738 66 103	30 420 156 30 552 12 556	888 (D) 86 11 897 6 512	3 913 (D) 11 344 9 750	36 247 (D) 6 082 132 178 77 492	1 212 155 2 393 1 850	122 850 19 087 257 699 241 116	54 093 - 10 029 111 479 108 457	11 (D) (Z) 3 (Z)	6 (D) (Z) 8 (Z)	10 (D) 3 (Z)	GA HI ID IL IN
11 208 24 914 24 278 5 137 (D)	7 238 19 259 14 797 (D) 184	482 1 793 1 916 4 714 (D)	4 126 2 684 3 024 3 485 (D)	31 919 38 955 30 044 59 300 (D)	1 019 1 040 821 702 (D)	112 782 103 921 88 839 64 330 (D)	42 378 46 431 29 498 25 513 (D)	5 4 1 (D) (D)	5 6 (Z) (D) (D)	20 5 3 21 (D)	IA KS KY LA ME
14 200 172 582 32 746 (D) 36 790	2 323 13 506 15 509 2 743 16 919	1 806 7 223 1 164 6 615 2 933	1 635 6 897 3 606 2 235 3 441	30 542 55 210 32 015 34 107 35 127	850 514 675 1 413 973	98 568 60 456 112 063 154 728 102 676	45 631 29 143 39 162 77 980 40 007	2 3 5 (Z) (Z)	3 1 2 (D) (Z)	1 5 6 8 (Z)	MD MA MI MN MS
32 231 1 015 3 168 7 038	23 941 3 021 1 659 (D) 2 587	4 066 232 109 - 599	4 562 418 385 (D) 215	50 169 4 126 5 032 (D) 6 536	1 457 112 292 (D) 130	140 984 7 460 24 245 9 647 15 740	52 901 4 929 10 205 5 330 8 174	4 (Z) (Z) (D) 18	16 (D) (Z) (D) 15	6 (Z) (Z) (D) (Z)	MO MT NE NV NH
23 659 (D) 195 440 18 743 5 492	12 518 *4 075 49 209 22 375 (D)	6 315 21 846 3 647 (D)	1 873 62 11 569 2 521 499	37 980 2 693 145 104 18 246 6 957	1 581 513 3 583 1 694 218	213 386 (D) 323 040 144 088 21 090	123 530 25 315 176 688 44 494 9 765	1 22 1 (Z) (Z)	1 (D) 2 (Z) (Z)	8 18 4 (Z) (Z)	NJ NM NY NC ND
62 160 17 064 19 486 103 585 6 126	44 013 16 766 2 250 92 672 4 809	4 309 2 799 3 400 11 709 1 143	9 219 1 828 1 576 5 705 652	50 896 30 683 5 830 107 236 4 307	1 660 649 421 3 425 87	203 375 62 085 55 915 461 661 16 094	94 500 34 913 22 370 232 990 7 264	2 7 (Z) 5 (Z)	2 6 (Z) 3 (Z)	7 8 12 3 (Z)	OH OK OR PA RI
8 789 (D) 67 160 25 409 11 050	23 931 (D) 28 049 50 843 6 127	1 513 (D) 2 408 5 907 517	1 030 47 4 702 5 554 660	13 086 822 45 864 40 775 5 974	825 (D) 1 230 3 950 (D)	102 591 (D) 114 007 400 159 (D)	31 931 (D) 53 398 194 806 5 057	4 (Z) 4 7 19	4 (D) 4 5 20	25 (Z) 10 16	SC SD TN TX UT
5 287 35 200 45 245 5 609 112 777 5 057	3 518 18 671 13 515 (S) 22 867 3 537	148 5 297 6 763 601 3 637 506	704 1 089 4 344 376 6 757 1 109	11 069 26 413 52 021 10 513 55 340 *9 848	305 2 440 827 290 977 (D)	30 722 278 343 126 006 31 295 148 661 (D)	16 245 84 944 49 229 15 174 61 930 (D)	17 7 (Z) (Z) 22	12 6 1 (Z) (Z) 19	(Z) 14 (Z) (Z) 1 39	VT VA WA WV WI WY

CONSTRUCTION-INDUSTRY SERIES

BRIDGE, TUNNEL AND ELEVATED HIGHWAYS 7-5

Table 2. Detailed Statistics for Establishments With Payroll: 1992 and Earlier Census Years

[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 appendix A] Relative standard error of estimate (percent) Item 1992 1987 1982 1977 1992 1987 1982 1977 Number of establishments in business during year _____ 1 041 1 159 999 979 3 3 2 2 12 7 Proprietors and working partners 103 161 162 256 15 9 All employees** _____ 43 701 47 494 37 581 38 093 (Z) (Z) 1 1 Construction workers: 26 749 33 565 36 474 32 703 32 473 29 284 37 483 41 405 33 019 41 884 45 462 25 33 38 34 33 (Z) (Z) (Z) (Z) (Z) 852 435 36 291 36 116 40 012 40 092 653 187 Average _____ Other employees: March 7 423 7 574 7 760 7 585 7 585 7 255 7 379 7 562 7 404 7 402 5 102 (Z) (NA) May ______ August ______ November ______ 1 1 1 1 1 Average _____ Payroll, all employees _____ Payroll, construction workers_____ Payroll, other employees _____ 485 491 125 201 360 290 191 764 909 919 281 844 815 514 664 873 150 641 877 750 128 (Z) (Z) (Z) (Z) (Z) (Z) 535 (Z) (Z) 438 97 (Z) 227 384 (Z) First-quarter payroll, all employees _____ 289 139 157 316 96 496 (Z) 1 1 Fringe benefits, all employees Legally required expenditures Voluntary expenditures 107 594 64 721 42 873 154 749 115 304 39 445 498 795 (Z) (Z) (Z) 341 (Z) (Z) 111 302 296 196 500 225 313 115 838 Dollar value of business done______ Value of construction work ______ Value of construction work subcontracted in from others ______ 286 936 198 275 874 650 5 579 414 5 480 936 745 097 3 549 200 3 503 890 377 277 45 310 270 818 247 284 300 775 (Z) (Z) (Z) (Z) 2 3 1 3 1 1 Other business receipts _. 88 662 98 47 23 534 (Z) 5 315 950 4 186 846 (Z) Net value of construction workt 2 812 186 1 827 239 (Z) 1 1 Value added++ -----3 078 306 2 430 434 1 468 448 962 687 (Z) (Z) 1 1 2 080 752 1 319 225 691 704 1 308 131 846 600 420 045 4 208 630 2 218 403 1 882 325 148 979 767 054 294 090 Selected costs (Z) (Z) (Z) (Z) (Z) (Z) (Z) (XA) (NA) (Z) (Z) (Z) (Z) (Z) 69 822 8 964 2 543 52 429 107 903 87 835 41 487 107 903 18 040 4 570 77 602 38 903 38 699 7 691 3 281 5 929 28 249 12 623 2 711 65 599 121 Gasoline and diesel fuel______ On highway use ______ (NA) (NA) 5 885 (NA) (NA) 4 029 31 998 33 600 (NA) (NA) 1 1 2 Off highway use ______ Off highway use ______ Other, including lubricating oils and greases ______ 33 600 6 901 Rental cost for machinery, equipment, and buildings ______ For machinery and equipment ______ For buildings ______ 79 216 71 952 7 263 62 763 59 428 3 336 182 852 129 896 2 2 2 222 1 1 1 158 897 23 955 118 516 11 380 (Z) 135 848 18 929 5 010 111 909 121 319 12 750 3 950 80 717 9 678 2 381 Selected purchased services ______ 50 732 (Z) 2 2 6 2 1 132 168 5 2 (Z) 104 618 68 657 43 (Z) Ownership of construction projects: Value of construction work 7 198 275 6 604 244 840 864 480 936 803 659 100 377 703 281 677 277 3 503 890 3 011 288 (NA) 247 284 904 579 (Z) (Z) (NA) (NA) (Z) (Z) (NA) (NA) (Z) 2 5 4 1 Government owned 112 Federal______State and local_______ Federal_ (NA) 2 1 2 763 380 594 030 5 3 ίNA ÌNA 492 601 342 705 Privately owned _____

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Table 3. Assets, Capital Expenditures, and Depreciation for Establishments With 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 appendix A]

Item				d error of estimate cent)
	1992	1987	1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	1 528 591 155 163 115 302 39 861 80 956	1 210 909 151 743 107 836 43 907 61 476	1 1 2 2 2	1 2 2 4 5
End-of-year gross book value of depreciable assets	1 602 798	1 301 176	1	1
Depreciation charges during year	151 083	128 527	1	1
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	90 430 3 694 2 602 1 092 *2 835	102 438 12 035 9 174 2 861 642	2 6 4 18 43	4 6 7 12 16
End-of-year gross book value of depreciable assets	91 289	113 831	1	4
Depreciation charges during year	5 961	9 216	2	6
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	1 438 161 151 468 112 700 28 490 38 769 78 121	1 108 471 139 707 98 661 25 293 41 045 60 834	1 2 3 2 1	1 2 1 2 4 5
End-of-year gross book value of depreciable assets	1 511 509	1 187 344	1	1
Depreciation charges during year	145 122	119 311	1	1

Table 4. Value of Inventories for Establishments With Payroll: 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 appendix A]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments: Number Value of construction work	1 041 7 198 275	3
Establishments with inventories: Number	320 2 412 162	4 1
End of 1992, materials and supplies End of 1991, materials and supplies	27 928 30 736	4 2
Establishments with no inventories: Number	507 3 809 444	4 1
Establishments not reporting: Number Value of construction work	213 976 668	5

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

CONSTRUCTION-INDUSTRY SERIES

BRIDGE, TUNNEL AND ELEVATED HIGHWAYS 7-7

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 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 appendix A]

	Establishments with an average of –									
Selected statistics	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
1992										
Number of establishments All employees** Payroll, all employees Dollar value of business done Value of construction work Net value of construction work†	1 041 43 701 1 485 491 7 286 936 7 198 275 5 315 950	158 380 10 379 62 150 60 875 51 887	164 1 094 34 455 149 533 147 833 116 855	232 3 198 94 051 485 193 479 485 384 935	262 8 497 262 095 1 225 465 1 212 069 940 330	133 9 219 299 111 1 497 001 1 480 227 1 099 353	68 10 495 374 045 1 787 493 1 759 043 1 281 839	17 5 527 217 988 1 213 194 1 202 031 782 596	4 5 293 193 367 866 907 856 713 658 154	2 (D) (D) (D) (D) (D)
Value added ⁺⁺	3 078 306 2 326 306 1 882 325 182 852 155 163 1 602 798	29 379 23 783 8 987 1 700 1 055 27 125	71 669 46 886 30 978 3 134 3 337 37 570	230 194 160 450 94 549 11 867 13 220 127 816	564 673 389 054 271 738 34 185 30 813 318 116	602 184 513 943 380 874 37 953 35 008 306 944	788 024 522 265 477 204 33 519 33 599 419 851	445 917 347 842 419 435 40 485 19 649 178 544	$\begin{array}{r} 346 & 266 \\ 322 & 082 \\ \hline 198 & 559 \\ \hline 20 & 010 \\ \hline 18 & 482 \\ 186 & 832 \\ \hline \end{array}$	(D) (D) (D) (D) (D)
1987										
All employees** Value of construction work Value added††	47 494 5 480 936 2 430 434	490 80 216 40 075	1 305 105 440 60 692	3 152 311 214 162 045	9 105 1 012 190 464 736	9 768 1 195 049 536 510	11 615 1 467 884 598 293	6 129 662 080 287 386	5 926 646 862 280 696	
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** Net value of construction work† Capital expenditures, other than land	1 1 1	16 19 25	9 8 18	6 10 9	2 3 3	(Z) (Z) (Z)	(Z) (Z) (Z)	(Z) (Z) (Z)	(Z) (Z) (Z)	(D) (D) (D)

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

Table 6. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With 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 appendix A]

					Establishn	nents with do	llar value of b	usiness done			
Selected statistics	Total	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
1992											
Number of establishments All employees** Payroll, all employees Dollar value of business done Value of construction work Net value of construction work †	1 041 43 701 1 485 491 7 286 936 7 198 275 5 315 950	(0) (0) (0) (0) (0) (0)	14 25 170 488 484 431	23 22 434 1 403 1 399 (S)	33 137 2 005 5 229 5 109 4 784	97 453 9 702 34 994 34 404 31 864	143 1 249 27 863 103 801 101 723 89 586	242 4 146 108 481 394 467 386 646 322 928	170 5 094 141 763 582 870 575 406 457 381	144 7 100 233 937 1 029 201 1 016 053 801 679	163 25 468 961 100 5 134 343 5 076 910 3 606 218
Value addedt	3 078 306	(S)	270	(S)	2 984	19 216	59 210	182 323	271 146	461 104	2 081 257
Cost of materials, components, supplies, and fuels Cost of construction work subcontracted out	2 326 306	(S)	165	248	1 920	13 238	32 454	148 427	193 699	353 723	1 582 394
to othersRental cost for machinery, equipment, and	1 882 325	(S)	53	(S)	325	2 540	12 137	63 717	118 025	214 374	1 470 692
Capital expenditures, other than land End-of-year gross book value of depreciable	182 852 155 163	(S) (S)	12 8	72 (S)	281 (S)	1 146 915	3 885 4 190	10 498 11 279	17 728 15 420	25 834 27 317	123 392 95 854
assets	1 602 798	33	441	338	(S)	18 316	41 222	135 506	184 561	259 341	960 999
1987											
All employees** Value of construction work Value added††	47 494 5 480 936 2 430 434	(S) (S) (S)	(S) (S) (S)	*140 3 081 2 138	393 14 694 8 828	977 58 723 35 693	1 708 120 023 68 266	4 861 392 836 198 640	5 707 571 431 281 734	8 354 942 730 423 046	25 337 3 376 825 1 411 842
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** Net value of construction work† Capital expenditures, other than land	1 1 1	(S) (S) (S)	10 9 (Z)	38 (S) (S)	4 3 (S)	14 16 20	11 10 25	5 5 10	2 2 1	1 4 (Z)	(Z) 1 (Z)

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

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Table 7. Value of Construction Work for Establishments With Payroll by 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 appendix A]

		Value of cons	Balative standard error					
Type of construction	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair		of estimat	e (percen	
	А	В	с	D	and repair	D		
1992								
Value of construction work	7 198 275	4 872 281	1 771 950	554 014	1	1	1	2
Building construction	88 456	73 772	9 366	5 318	3	4	6	8
Nonbuilding construction	7 109 789	4 798 508	1 762 584	548 696	1	1	1	2
Biginways, sureers, and related work such as instantion of guard rails, fighways Bridges, tunnels, and elevated highways Bridges and elevated highways Marine construction Conservation and development construction Sewers, water mains, and related facilities Sewers, sewer lines, septic systems, and related facilities Water mains and related facilities Sewage treatment and water treatment plants Sewage treatment plants Water treatment plants Other nonbuilding construction Construction work, n.s.k.	839 811 5 165 478 48 537 40 405 126 824 87 124 39 700	373 621 4 126 297 794 175 3 332 116 34 376 19 193 66 529 50 414 16 116 17 488 77 490 37 889 39 602 83 521 (NA)	170 878 1 452 536 24 207 1 428 328 10 284 1 466 51 110 28 312 22 798 11 207 17 196 12 100 5 096 47 908 (NA)	426 463 21 429 405 034 3 877 19 746 9 185 8 398 *786 6 947 2 893 1 885 (S) 18 894	151())2()6()1312	1 5 1 (<u>U</u>)(<u>3</u>)(<u>1</u>	1 (Z) (Z) 1 (Z) 2 (Z) 8 11 3 1	3 2 (Z) (Z) (Z) (Z) (Z) (Z) (S) 5 (NA)
Value of construction work	5 480 936	3 948 853	1 105 166	371 889	1	1	1	1
Building construction	133 195	81 232	45 106	6 856	3	4	3	2
Nonbuilding construction	5 292 714	3 867 621	1 060 059	365 033	1	1	1	2
Highwayš, streets, and related work such as installation of guard rails, highway signs, lighting, etc	$\begin{array}{c} 387 \ 161 \\ 4 \ 476 \ 501 \\ 505 \ 987 \\ 3 \ 970 \ 513 \\ 29 \ 291 \\ 25 \ 624 \\ 93 \ 450 \\ 52 \ 406 \\ 411 \\ 394 \\ 71 \ 097 \\ 42 \ 296 \\ 167 \ 293 \end{array}$	267 621 3 259 359 403 843 2 855 516 20 764 40 814 32 001 99 144 (D) (D) 124 757	83 705 916 856 77 737 839 119 (D) 2 233 17 436 9 586 7 850 10 747 (D) (D) (D)	300 284 24 407 275 877 (D) 2 004 1 191 3 502 2 251 1 251	1 1 1 2 2 4 1 1 (Z)	1 1 2 1 2 2 4 (D)	1 1 (D) (Z) 4 2 7 (Z) (D) (D)	1 2 3 2 (D) 39 3 2 6 10 10 9 (D)
Construction work, n.s.k.	55 027	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)

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Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1992

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

Item	Number of			wo	onstruction ork For	Net value of		Cost of construction work sub-	stan of	Relative Idard e estima Ircent)	error ate
	establish- ments	All employees**	Payroll, all employees	For all types	specialized type	construction work†	Value added††	contracted out to others	ິດ	olumń-	-
	А	В	С	D	E	F	G	н	В	D	н
All establishments	1 041	43 701	1 485 491	7 198 275	5 665 961	5 315 950	3 078 306	1 882 325	1	1	1
Establishments not specializing by type Establishments specializing 51 percent or more	35 1 006	3 505 40 197	145 229 1 340 262	576 146 6 622 128	(NA) 5 665 961	439 557 4 876 393	233 181 2 845 125	136 589 1 745 735	2 1	1 1	1
TUNNELS											
All establishments specializing in type	122	3 761	148 809	808 517	749 264	624 897	408 481	183 620	3	5	5
Establishments with — 100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization	102 *6 1 8 3 2	2 710 *83 (D) 626 (D) (D)	111 994 *1 892 (D) 22 022 (D) (D)	624 592 *15 312 (D) (D) (D) (D)	624 592 *13 885 (D) 68 509 (D) (D)	476 291 *5 823 (D) 85 643 (D) (D)	307 243 *4 405 (D) 56 836 (D) (D)	148 301 (S) (D) (D) (D) (D)	4 52 (D) (Z) (D) (D)	66000000000000000000000000000000000000	3 (S) (D) (D) (D) (D)
BRIDGES AND ELEVATED HIGHWAYS											
All establishments specializing in type	884	36 436	1 191 453	5 813 611	4 916 697	4 251 495	2 436 644	1 562 116	1	1	(Z)
Establishments with — 100 percent specialization	500 65 65 97 80 77	15 531 4 425 3 736 3 613 4 778 4 353	482 956 141 297 128 485 120 662 154 454 163 598	2 423 367 726 774 626 902 582 287 735 780 718 501	2 423 367 679 426 529 516 427 389 464 756 392 243	1 786 669 531 049 474 051 414 243 527 629 517 855	1 021 689 281 131 291 805 238 605 313 315 290 098	636 698 195 725 152 851 168 045 208 151 200 646	1 1 2 1 4	1 2 1 1 1	1 (Z) 1 (Z)

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Table 9. Quarterly Construction Worker Employment for Establishments With Payroll by State: 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 appendix A]

		Average	Construction workers ¹					Relative standard error of estimate					
Location of establishment	Number of establishments	number of construction workers	January to March	April to June	July to September	October to December	(percent) for column-						
	A	В	С	D	E	F	А	В	С	D	E	F	
United States	1 041	36 116	29 284	37 483	41 405	36 291	3	1	1	1	1	1	
Alabama Alaska Arizona Arkansas California	15 4 1 19 50	632 83 (D) 255 1 809	553 96 (D) 202 1 549	611 84 (D) 252 1 747	673 85 (D) 283 2 001	692 66 (D) 283 1 939	17 (Z) 24 11	4 (Z) (D) 15 1	5 (Z) (D) 17 1	4 (Z) (D) 16 1	4 (Z) (D) 15 2	5 (Z) (D) 14 2	
Colorado Connecticut Delaware District of Columbia Florida	10 26 (S) 32	291 921 52 1 476	237 667 34 1 420	295 885 48 1 495	341 1 103 52 1 509	290 1 028 75 1 480	(Z) 9 (S) 10	(Z) 29 - 4	(Z) 22 - 5	(Z) 1 31 - 4	(Z) 29 - 3	(Z) 2 30 4	
Georgia Hawaii Idaho Illinois Indiana	27 2 4 52 32	802 (D) 81 2 594 1 852	758 (D) 77 1 878 1 731	842 (D) 84 2 864 1 961	831 (D) 87 3 157 2 049	777 (D) 77 2 479 1 668	31 (Z) 10 5	13 (D) (Z) 3 (Z)	12 (D) (Z) 4 (Z)	14 (D) (Z) 3 (Z)	13 (D) (Z) 2 (Z)	12 (D) (Z) 3 (Z)	
lowa Kansas Kentucky Louisiana Maine	28 18 24 12 3	673 805 607 (D) (D)	492 700 512 (D) (D)	716 879 594 (D) (D)	762 879 661 (D) (D)	723 765 662 (D) (D)	16 13 31 (Z)	5 3 (D) (D)	8 3 (Z) (D) (D)	6 4 (Z) (D) (D)	5 2 (Z) (D) (D)	5 3 (D) (D)	
Maryland Massachusetts Michigan Minnesota Mississippi	22 32 29 11 12	807 1 178 495 722 855	711 1 049 240 479 708	805 1 302 508 782 868	879 1 202 653 930 930	832 1 159 578 695 915	34 10 20 (Z) (Z)	3 3 (Z) (Z)	2 3 4 (Z) (Z)	3 3 11 (Z) (Z)	3 3 (Z) (Z)	2 3 4 (Z) (Z)	
Missouri Montana Nebraska Nevada Nevada New Hampshire	38 5 6 1 7	980 100 50 (D) 86	840 82 48 (D) 58	1 094 122 51 (D) 97	1 168 92 44 (D) 105	818 102 55 (D) 82	17 (Z) (Z) 16	4 (Z) (D) 11	3 (Z) (Z) (D) 6	5 (Z) (Z) (D) 7	5 (Z) (Z) (D) 12	5 (Z) (D) 19	
New Jersey New Mexico New York North Carolina North Dakota	24 (S) 96 14 4	846 118 3 462 511 157	688 124 2 558 476 52	874 126 3 389 540 205	949 111 4 214 534 222	871 110 3 685 494 147	9 (S) 11 (Z) (Z)	1 19 1 (Z) (Z)	1 18 1 (Z) (Z)	1 22 2 (Z) (Z)	1 15 (Z) (Z)	2 20 1 (Z) (Z)	
Ohio Oklahoma Oregon Pennsylvania Rhode Island	57 29 7 66 4	1 294 607 203 2 398 106	980 593 215 1 524 (D)	1 511 611 199 2 620 115	1 597 597 205 2 941 92	1 088 626 194 2 505 (D)	10 18 (Z) 6 (Z)	2 7 (Z) 6 (Z)	2 6 (Z) 7 (D)	2 6 (Z) 4 (Z)	1 (Z) 5 (Z)	2 9 (Z) 8 (D)	
South Carolina South Dakota Tennessee Texas Utah	13 3 30 56 *9	364 31 1 262 1 136 117	402 (D) 1 103 1 025 103	369 34 1 212 1 132 108	368 35 1 404 1 195 120	318 (D) 1 327 1 192 138	21 (Z) 14 14 51	4 (Z) 4 7 19	4 (D) 4 8 17	4 (Z) 4 9 16	4 (Z) 4 7 15	4 (D) 4 6 19	
Vermont Virginia Washington West Virginia Wisconsin Wyorning	13 29 23 6 12 *8	216 836 1 023 119 1 007 172	88 799 672 80 511 98	220 850 1 026 115 1 188 169	300 883 1 307 147 1 353 264	255 812 1 086 132 976 159	26 16 (Z) (Z) 50	17 7 (Z) (Z) 25	21 6 (Z) (Z) (Z) 27	18 7 (Z) (Z) (Z) 16	15 7 2 (Z) (Z) 31	16 7 (Z) (Z) 23	

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

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Table 10. Value of Construction Work for Establishments With Payroll by Location of Construction Work: 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 appendix A]

	-									
Location of construction work		establishments located in ethis State		Construction work done by establishments not located in this State		1987	Percent change 1987	Relative standar error of estimate (percent) for column-		nate or
	Value of construction work done in this State	Number	Value of construction work	Number	Value of construction work	value of construction work done in this State	(col F) to 1992 (col A)	C	olumn—	
	A	В	с	D	E	F	G	A	с	E
United States	7 198 275	1 020	5 956 432	468	1 241 843	5 480 936	31.3	1	1	1
AlabamaAlabama Alaska Arizona Arkansas California	88 300 24 166 15 964 62 624 658 287	15 4 1 18 50	71 440 (D) (D) 34 058 580 269	7 1 5 19 11	16 860 (D) (D) 28 566 78 018	73 421 (D) 143 031 46 461 266 677	20.3 (D) -88.8 34.8 146.8	2 (Z) (Z) 7 1	3 (D) (D) 13 1	(Z) (D) (D) 2 (Z)
Colorado Connecticut Delaware District of Columbia Florida	80 877 163 344 37 059 (D) 408 197	10 26 (S) 32	(D) 151 580 (D) 290 902	6 10 9 6 13	(D) 11 763 (D) (D) 117 295	88 118 104 748 14 527 (D) 170 112	-8.2 55.9 155.1 (D) 140.0	(Z) 2 (D) 1	(D) 2 (D) 2	(D) 1 (D) 2
Georgia Hawaii Idaho Illinois Indiana	112 829 53 897 11 802 610 871 114 536	27 2 4 52 32	95 981 (D) 529 545 (D)	13 3 1 17 4	16 848 (D) 81 326 (D)	161 513 (D) 18 956 245 685 124 709	-30.1 (D) -37.7 148.6 -8.2	7 (Z) (Z) 6 (Z)	8 (D) (D) 7 (D)	1 (D) (D) 11 (D)
lowa Kansas Kentucky Louisiana Maine	89 570 83 871 95 413 210 420 (D)	27 15 24 12 3	58 563 75 206 87 615 (D) (D)	8 13 *8 11 5	31 007 8 665 7 798 (D) (D)	62 723 120 689 70 975 103 820 (D)	42.8 -30.5 34.4 102.7 (D)	4 2 1 (D)	6 (Z) 1 (D) (D)	(Z) 17 8 (D) (D)
Maryland Massachusetts Michigan Minnesota Mississippi	108 455 496 481 104 311 158 869 105 405	22 32 29 11 12	75 273 487 228 (D) (D) 83 729	27 13 3 6 8	33 182 9 253 (D) (D) 21 676	137 609 44 712 114 384 135 847 84 055	-21.2 1 010.4 -8.8 16.9 25.4	2 2 (Z) (Z)	3 2 (D) (D) (Z)	3 (Z) (D) (Z)
Missouri Montana Nebraska Nevada New Hampshire	151 739 19 856 22 715 (D) 28 668	34 5 5 1 6	111 293 (D) 10 237 (D) 16 836	16 2 6 3 12	40 445 (D) 12 478 (D) 11 832	125 066 8 107 20 685 12 164 29 644	21.3 144.9 9.8 (D) –3.3	12 (Z) (Z) (D) 12	15 (D) (Z) (D) 15	16 (D) (Z) (D) 21
New Jersey New Mexico New York North Carolina North Dakota	158 886 (D) 782 350 70 992 25 375	21 (S) 96 14 4	129 127 (D) 708 666 64 796 (D)	18 *3 19 19 3	29 759 (D) 73 684 6 195 (D)	253 904 13 310 371 631 163 455 14 399	-37.4 (D) 110.5 -56.6 76.2	(Z) (D) 2 (Z) (Z)	1 (D) 2 (Z) (D)	(Z) (D) 3 2 (D)
Ohio Oklahoma Oregon Pennsylvania Rhode Island	260 335 71 892 61 755 346 262 25 993	56 29 7 64 4	236 441 (D) 43 882 304 755 22 927	9 4 7 20 5	23 894 (D) 17 873 41 506 3 066	179 728 95 879 67 148 387 042 24 864	44.8 -25.0 -8.0 -10.5 4.5	2 6 (Z) 3 (Z)	2 (D) (Z) 3 (Z)	3 (D) (Z) 2 (Z)
South Carolina South Dakota Tennessee Texas Utah	90 267 9 675 199 416 263 147 19 707	13 3 30 56 *9	45 474 3 780 (D) 151 428 19 707	*15 5 *8 16 –	44 792 5 894 (D) 111 719	113 544 11 049 108 016 469 842 (D)	-20.5 -12.4 84.6 -44.0 (D)	2 (Z) 3 16	4 (Z) (D) 5 16	1 (Z) (D) 1
Vermont Virginia Washington West Virginia Wisconsin Wyoming	15 991 124 593 206 888 59 587 219 970 17 374	13 25 23 6 12 *8	(D) 109 990 185 146 26 965 209 188 (D)	1 14 10 15 7 3	(D) 14 603 21 742 32 622 10 782 (D)	23 098 282 506 134 849 45 756 124 934 (D)	-30.8 -55.9 53.4 30.2 76.1 (D)	10 5 1 (Z) (Z) 25	(D) 6 1 (Z) (Z) (D)	(D) (Z) (Z) 7 (D)

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Table 11. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1992 and 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 this specific industry. These establishments, however, may also be engaged in other kinds of business activities. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Primary and other kind of business activities	Dollar value of	business done	Relative standard error of estimate (percent)			
Finally and other kind of business activities	1992	1987	1992	1987		
All kinds of business	7 286 936	5 579 414	1	1		
BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS						
General building contractor	55 792	130 323	5	4		
HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-CONTRACTORS						
Excavating, earthmoving, and land clearing contractor, not connected with buildings	29 793 6 421 754 537 436 86 478	72 514 4 834 262 309 420 67 994	2 1 1 3	4 1 (Z)		
Other construction activities	82 388	57 966	2	12		
Other business activities	73 295	96 925	1	(NA)		
Kind of business activity, n.s.k.		10 009		(Z)		

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Table 12. Selected Industry Ratios for Establishments With Payroll: 1992 and 1987

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

Selected statistics	1992	1987	Relative standard error of estimate (percent) for 1992
AVERAGE PER ESTABLISHMENT			
Number of employees**	42.0 34.7 7.3 1 427.5 1 081.3 346.2	41.0 34.6 6.4 1 028.3 785.1 243.2	2 2 2 2 2 2 2 2 2 2
Dollar value of business done	7 002.7 6 917.5 2 235.6 1 808.9 175.7 149.1 1 540.3	4 814.0 4 729.0 1 600.4 1 116.6 112.1 130.9 1 122.7	2 2 2 3 3 3 2
AVERAGE PER EMPLOYEE			
Payroll, all employees\$1,000 Dollar value of business donedo Value addedttdo	34.0 166.7 70.4	25.1 117.5 51.2	(Z) 1 1
AVERAGE PER CONSTRUCTION WORKER			
Payroll, construction workers	31.2 199.3	22.7 136.7	(Z) 1
AVERAGE PER OTHER EMPLOYEE			
Payroll, other employees\$1,000	47.5	38.1	(Z)
AVERAGE PER DOLLAR VALUE OF CONSTRUCTION WORK			
Payroll, all employees	.206 .323 .261 .122 .025	.217 .338 .236 .136 .024	(Z) (Z) 1 2 1

Table 13. Selected Industry Ratios for Establishments With Payroll by State: 1992

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

				Average per dollar value of construction work				
Location of establishment	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	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
United States	42.0	34.0	199.3	.206	.323	.261	.122	.025
Alabama Alaska Arizona Arkansas California	50.7 29.5 (D) 16.3 44.7	21.3 51.3 (D) 19.9 44.9	146.3 301.9 (D) 134.7 327.4	.176 .241 (D) .179 .171	.401 .568 (D) .307 .303	.311 .087 (D) .287 .397	.177 (D) (D) .124 .211	.009 .030 (D) .015 .036
Colorado Connecticut Delaware District of Columbia	35.8 44.6 7.5	32.4 37.2 34.6	252.9 198.1 229.1	.158 .238 .218	(D) .286 (D)	.366 .216 (D)	.173 .091 .069	.013 .051 .016
Florida Georgia Hawaii Idaho Illinois Indiana	55.8 37.1 (D) 25.0 59.4 70.7	25.3 (D) 28.8 41.8 41.0	211.8 137.7 (D) 150.4 212.9 191.5	.144 .200 (D) .236 .232 .260	.411 .286 (D) .404 .240 .438	.342 .230 (D) .134 .249 .186	.123 .275 (D) .013 .055 .035	.039 .008 (D) .007 .022 .018
lowa Kansas Kentucky Louisiana Maine	28.0 51.8 29.8 (D) (D)	23.4 25.7 30.9 (D) (D)	108.7 131.9 179.4 (D) (D)	.254 .223 .202 (D) (D)	.571 .413 .388 (D) (D)	.153 .235 .223 (D) (D)	.099 .181 .136 (D) (D)	.007 .017 .018 (D) (D)
Maryland Massachusetts Michigan Minnesota Mississippi	43.0 48.8 21.1 77.9 81.5	22.7 44.7 35.7 33.1 21.9	95.0 422.1 219.3 197.5 139.5	.280 .140 .200 .199 .179	.323 .247 .314 .398 (D)	.185 .347 .302 (D) .308	.030 .027 .143 .019 .142	.024 .015 .011 .046 .025
Missouri Montana Nebraska Nevada New Hampshire	31.3 22.2 10.5 (D) 16.1	31.7 (D) 32.6 (D) 31.0	190.9 (D) 293.2 (D) 228.3	.203 (D) .140 (D) .189	.360 (D) .277 (D) .325	.172 (D) .216 (D) .358	.128 (D) .113 (D) .132	.022 (D) .007 (D) .031
New Jersey New Mexico New York North Carolina North Dakota	45.2 *18.1 44.1 42.8 45.5	45.7 (D) 43.5 23.5 29.3	200.6 157.2 219.8 140.4 158.8	.287 (D) .242 .196 .214	.323 .394 .247 .376 .347	.139 (D) .257 .261 .220	.074 *.220 .065 .312 (D)	.037
Ohio Oklahoma Oregon Pennsylvania Rhode Island	30.1 23.7 36.1 44.8 34.3	35.8 25.8 37.6 29.4 (D)	215.2 153.9 283.5 168.4 228.0	.220 .191 .165 .213 (D)	.334 .408 (D) .260 (D)	.223 .183 .339 .256 .253	.158 .180 .039 .229 .199	.015 .030 .059 .029 .047
South Carolina South Dakota Tennessee Texas Utah	33.0 12.7 48.5 24.6 15.8	24.8 (D) 25.0 23.0 26.0	136.7 125.1 161.7 155.3 186.0	.219 (D) .175 .179 .164	.426 (D) .359 .381 .209	.177 (D) .329 .144 .508	.481 (D) .137 .288 .282	.030 (D) .012 .033 .024
Vermont Virginia Wast Virginia Wisconsin Wyoming	19.8 33.5 61.3 23.3 96.3 27.8	22.5 26.2 44.5 40.8 38.3 21.0	106.9 151.5 230.3 230.4 321.7 118.4	.246 .204 .267 .208 .137 .217	.336 .329 .287 .360 (D) .348	.229 .278 .192 .205 .348 .248	.152 .147 .057 (S) .071 .174	.006 .042 .029 .022 .011 .025

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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.
- 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 cause-ways 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		SIC	
code	Industry titles	code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173 1731	Electrical Work Special Trade Contractors Electrical Work Special Trade Contractors
1521 1522	General Contractors—Single-Family Houses General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work, Tile Setting, and Plastering Special Trade Contractors
153 1531	Operative Builders Operative Builders	1741 1742	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors Plastering, Drywall, Acoustical, and Insulation
154	General Building Contractors—Nonresidential Buildings	1743	Work Special Trade Contractors Terrazzo, Tile, Marble, and Mosaic Work
1541	General Contractors—Industrial Buildings and Warehouses		Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	175 1751	Carpentry and Floor Work Special Trade Contractors 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	177	Constate Work Spacial Trada Contractors
1622	Street Construction Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Power Line Construction Contractors	178 1781	Water Well Drilling Special Trade Contractors Water Well Drilling Special Trade Contractors
1629	Heavy Construction Contractors, Not Elsewhere Classified	179	Miscellaneous Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	1791	Structural Steel Erection Special Trade Contractors
474		1793	Glass and Glazing Work Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1794	Excavation Work Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1795 1796	Wrecking and Demolition Work Special Trade Contractors Installation or Erection of Building Equipment,
172	Painting and Paper Hanging Special Trade Contractors	1730	Special Trade Contractors, Not Elsewhere Classified
1721	Painting and Paper Hanging Special Trade Contractors	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.