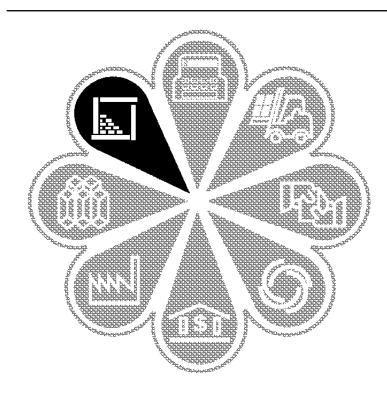
1992 Census of Construction Industries

CC92-I-13

INDUSTRY SERIES

Masonry, Stone Setting, and Other Stone Work Special Trade Contractors

Industry 1741



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

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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:

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

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

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

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

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

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted

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.

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

CENSUS REPORT FORMS

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

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

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

DATA PROCESSING

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

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

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

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

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

GEOGRAPHIC CLASSIFICATION

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

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

CHANGE IN COLLECTION METHODOLOGY FOR VALUE OF CONSTRUCTION WORK DONE

In 1987 and 1992, the "value of construction work" was collected to better measure actual construction activity done during the year. In 1992, this item was collected as a total of three separate items. These items (receipts from construction contract work, value of speculative construction work, and value of construction work done for own use) were collected separately to emphasize construction activity that had been poorly reported in previous censuses. Receipts from the sale of land were not collected separately in 1992, as in 1987, but are still excluded from the value of construction work done.

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

DUPLICATION IN VALUE OF CONSTRUCTION WORK

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

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

SPECIAL TABULATIONS

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

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

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

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1992 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity; whereas, the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities, and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes 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 End of year—total End of year—buildings, machinery, and equipment Depreciation charges during year— buildings, machinery, and equipment | 3 1, 3 3 3 | 1 | 5 | 6 | | |
| Capital expenditures: Total capital expenditures New buildings—machinery and equipment Used buildings—machinery and equipment | 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 | 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 Annual: All employees Construction workers Other 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.

Contents Masonry, Stone Setting, and Other Stone Work Special Trade Contractors

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CONSTRUCTION-INDUSTRY SERIES

MASONRY AND OTHER STONE WORK 13-1

Summary of Findings

Establishments classified in this industry are primarily engaged in brick and block masonry work, stone setting, and other stonework. 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 \$8.50 billion in total dollar value of business. Of this amount, \$8.46 billion were for the value of construction work. These establishments paid out \$2.70 billion for materials, components, and supplies and \$502 million for construction work subcontracted to others. Costs for selected power, fuels, and lubricants for the industry were \$154 million. Value added for 1992 was \$5.15 billion.

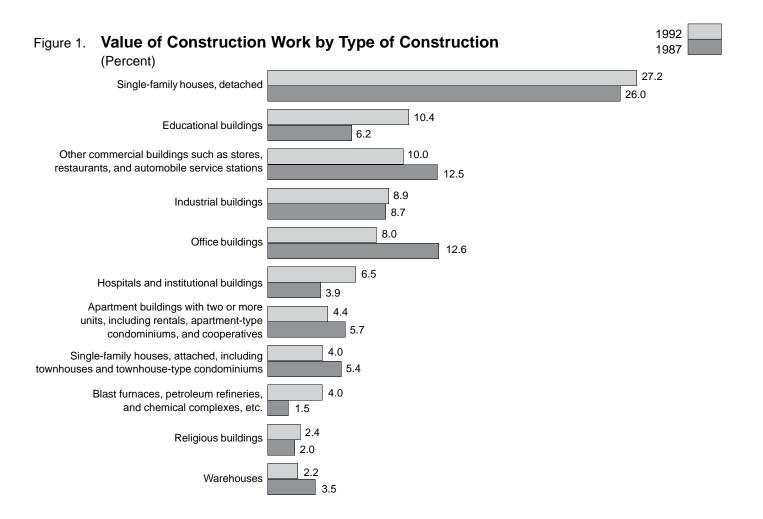
There were 22,637 establishments with total employment averaging 147,892 during the year. Total payroll for 1992 was \$2.88 billion.

Larger establishments with 20 employees or more, while representing only 6 percent of the total number of employer establishments in this industry accounted for 46 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.



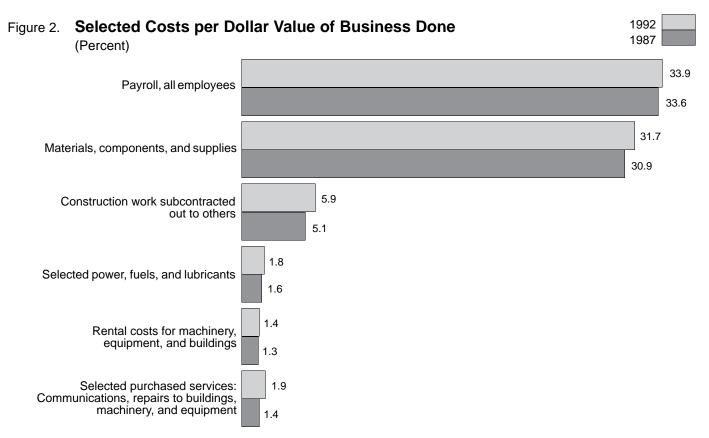


Table 1. General Statistics for Establishments With Payroll by State: 1992 and 1987

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 _____ 22 637 147 892 129 762 2 882 520 2 366 390 8 457 864 7 955 909 5 146 139 2 851 160 Alabama _____ 300 2 941 2 644 39 252 32 842 122 657 75 355 (D)(D)041 (D) 2 779 1 10 19 342 194 2 044 47 2 498 1 017 6 130 (D) 45 108 2 901 87 748 28 757 1 065 49 455 6 338 151 336 3 412 59 818 Alaska ______ Arizona ______ (D) 42 157 Arkansas ______California ______ 16 094 13 702 46 369 16 421 1 629 10 346 8 832 213 457 169 362 715 033 673 816 436 920 240 717 2 165 1 607 770 46 145 995 140 726 50 454 3 313 2 475 54 276 Colorado 306 50 857 41 994 142 615 88 554 Connecticut..... Delaware District of Columbia 38 564 14 474 *1 268 96 904 131 984 48 744 3 199 89 230 30 750 *2 467 369 137 48 780 17 354 (D) 17 998 1 879 17 354 *1 605 117 911 892 731 (D) 8 1 047 58 3 313 347 108 *2 467 214 528 7 217 6 457 Florida (D) 461 3 317 3 051 51 414 17 260 44 132 149 427 131 894 82 341 49 595 Georgia _____ Idaho ______ (D) (D) 174 700 68 944 63 831 29 782 569 691 209 577 62 316 29 233 548 952 202 710 42 491 15 776 362 927 144 979 72 639 561 19 902 (D) 8 125 4 048 9 863 215 899 82 073 106 448 13 457 7 084 3 553 092 (D) 58 834 633 Indiana_____ 30 402 18 424 39 327 1 734 1 155 2 550 1 540 1 059 2 309 35 526 21 551 44 630 97 531 56 431 119 650 59 290 35 710 76 787 96 018 37 110 _____ 254 192 361 Kansas.... Kentucky Louisiana Maine (D) 115 083 (D) 38 320 160 154 (D) 557 1 333 477 32 264 9 723 (D) (D) (D) 30 441 56 211 21 488 (D) 8 991 (D) (D) 6 009 2 673 4 818 5 171 2 253 4 302 2 830 108 898 60 836 107 334 73 544 83 662 47 781 90 444 61 237 271 407 193 731 338 039 228 128 261 622 181 082 320 493 161 492 124 486 207 187 127 280 (D) 57 245 115 848 Maryland 643 Maryland Massachusetts Michigan Minnesota Mississippi 539 882 513 147 3 264 213 217 86 097 600 560 6 743 6 037 (D 15 146 (D) 4 337 540 67 572 202 474 194 512 134 687 60 111 Missouri 4 311 3 836 81 122 540 59 166 109 4 784 16 571 27 121 (D) 14 288 22 753 6 688 14 857 36 174 312 974 278 880 17 932 49 744 Montana _____ Nebraska_____ (D) 42 074 (D) 30 549 Nevada ______ New Hampshire ______ (D) 16 384 1 465 1 263 224 (D) 15 839 (D) 9 854 79 259 5 200 4 378 6 021 99 212 9 976 192 976 90 595 4 322 302 850 32 959 528 536 218 170 3 710 76 453 334 767 198 229 20 541 903 4 432 New Jersev (D New Mexico New York North Carolina North Dakota 108 435 130 692 6 697 5 893 242 (D) 150 563 77 610 4 045 (D) 601 515 232 548 (D) (D) 176 136 (D) 5 670 761 7 934 6 575 356 334 148 398 13 675 60 259 (D) (D) 392 817 90 123 76 120 587 140 (D) 133 448 33 753 25 511 247 483 53 499 41 462 5 840 1 361 994 180 6 622 112 484 372 432 126 348 -----29 406 20 500 168 327 (S) Oklahoma _____ Oregon _____ Pennsylvania _____ (D) 73 418 554 366 (D) 142 248 1 492 (D) 32 125 483 8 392 (S) 9 597 206 685 373 679 182 946 -----Rhode Island (D) (D) (S) (S) 2 429 437 2 899 7 292 31 177 7 736 51 590 137 413 27 356 6 945 42 496 51 449 14 542 79 465 235 541 (D) 10 138 44 313 South Carolina _____South Dakota _____ 447 2 657 80 939 (D) 24 655 68 468 489 3 219 (D) 130 477 Tennessee _____ Texas _____ Utah _____ (D) 399 280 8 438 1 134 891 112 214 443 457 166 133 210 1 013 20 491 18 081 (D) (D) 40 054 (D) 296 175 107 5 920 112 856 46 082 6 963 5 042 93 957 37 621 6 435 11 708 168 608 86 658 18 234 Vermont_____ 95 261 17 465 17 050 5 342 986 408 177 6 398 1 791 584 304 464 146 606 (D) 142 078 (D) 55 937 Virginia_____ Washington_____ 7 2 West Virginia _____ Wisconsin _____ Wyoming _____ (D) (D) (D) 9 773 246 941 11 621 237 964 3 471 3 003 198 90 260 3 203 531 80 216 68 190 149 591 228 3 169 2 745 11 263 8 060

[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]

13–4 MASONRY AND OTHER STONE WORK

| | | 1992—Con. | | | | | | | | | | |
|---|---|---|--|---|--------------------|----------------------------------|------------------|--------------|--|-----|------|------------------------------|
| 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— | | esta | ation of blish- ent |
| J | к | L | М | N | 0 | Р | Q | В | G | М | | |
| 501 955 | 6 012 068 | 120 700 | 135 397 | 1 172 557 | 168 978 | 8 714 161 | 5 475 753 | 1 | 1 | 3 | | U.S. |
| (D) | 88 114 | 1 314 | (D) | 12 251 | 3 422 | 103 130 | 58 742 | 4 | (D) | (D) | AL | |
| 208 | 5 776 | (S) | 88 | 1 137 | (S) | (S) | (S) | (D) | 21 | 21 | AK | |
| (D) | 115 001 | 1 642 | (S) | 15 767 | 3 921 | 191 993 | 113 906 | 5 | (D) | (S) | AZ | |
| *1 261 | 43 752 | 316 | 2 545 | 13 812 | 870 | 28 141 | 20 176 | 8 | 9 | 35 | AR | |
| 41 216 | 523 254 | (S) | 8 189 | 74 803 | 12 609 | 870 706 | 501 296 | 3 | 2 | 13 | CA | |
| 3 381 | 157 990 | 3 500 | 6 442 | 26 514 | 2 005 | 99 086 | 63 318 | 4 | 5 | 21 | CO | |
| 8 742 | 90 651 | 2 339 | (D) | 15 024 | 2 708 | 163 769 | 106 084 | 8 | 6 | (D) | CT | |
| 1 710 | 29 034 | 586 | *815 | 8 256 | 1 202 | 61 745 | 37 803 | 10 | 10 | 40 | DE | |
| *114 | 3 209 | 36 | 119 | 451 | 96 | 5 459 | 3 348 | 37 | 34 | 25 | DC | |
| (D) | 257 635 | 5 195 | 5 160 | 39 028 | 9 332 | 374 331 | 226 009 | 4 | (D) | 14 | FL | |
| 17 533 | 112 355 | 2 472 | 2 631 | 14 255 | 4 081 | 122 890 | 81 550 | 6 | 8 | 30 | GA | |
| 1 516 | 60 305 | 755 | 1 003 | 8 281 | 581 | 40 626 | 28 160 | 8 | 9 | 20 | HI | |
| 550 | 26 716 | 351 | (D) | 4 841 | 247 | 11 543 | 5 612 | (D) | 12 | (D) | ID | |
| 20 739 | 389 881 | 8 023 | 8 414 | 76 348 | 7 644 | 483 462 | 313 376 | 3 | 3 | 13 | IL | |
| 6 866 | 131 172 | 1 761 | 4 351 | 32 487 | 3 083 | 174 933 | 121 124 | 5 | 4 | 13 | IN | |
| 1 512 | 85 794 | 865 | 2 561 | 27 298 | 1 203 | 54 740 | 35 000 | 6 | 6 | 20 | IA | |
| (D) | 39 432 | 557 | 864 | 6 542 | 1 255 | 57 336 | 39 077 | 7 | (D) | 36 | KS | |
| 4 567 | 90 156 | 2 345 | 2 193 | 12 221 | 2 094 | 75 140 | 48 133 | 5 | 4 | 29 | KY | |
| (S) | 43 293 | 1 634 | 931 | 14 216 | 1 995 | 93 980 | 56 548 | (D) | (D) | 32 | LA | |
| (D) | 15 384 | 515 | *857 | 12 076 | 1 103 | 48 684 | 34 530 | 14 | 14 | 46 | ME | |
| 9 784 | 224 851 | 3 997 | 5 112 | 53 155 | 8 825 | 409 134 | 269 277 | 4 | 3 | 19 | MD | |
| 12 649 | 115 030 | 3 105 | 2 232 | 33 100 | 4 968 | 298 477 | 201 844 | 9 | 4 | 19 | MA | |
| 17 546 | 231 904 | 4 369 | 5 478 | 59 742 | 4 290 | 265 692 | 177 002 | 4 | 5 | 13 | MI | |
| 14 911 | 193 705 | 2 099 | 4 096 | 32 670 | 2 793 | 183 320 | 108 529 | 6 | 5 | 18 | MN | |
| (D) | 10 630 | 118 | 130 | 1 446 | 877 | 22 666 | 13 031 | 11 | 10 | 18 | MS | |
| 7 962 | 139 522 | 1 997 | 1 650 | 25 775 | 4 886 | 220 327 | 149 744 | 4 | 3 | 17 | MO | |
| (D) | 16 383 | 105 | (D) | (S) | 191 | 9 622 | 5 538 | 16 | (D) | (D) | MT | |
| *7 670 | 32 232 | 493 | 752 | 5 997 | 901 | 28 991 | 18 807 | 9 | 7 | 14 | NE | |
| (D) | (S) | (S) | (D) | 8 749 | 865 | 57 428 | 32 621 | 5 | (D) | (D) | NV | |
| 545 | 12 983 | 234 | *152 | 3 572 | 1 015 | 50 120 | 32 393 | 11 | 8 | 44 | NH | |
| 31 916 | 228 913 | 5 111 | 2 327 | 48 962 | 7 618 | 554 816 | 328 876 | 5 | 4 | 25 | NJ | |
| (D) | 23 661 | 465 | (D) | 4 071 | 728 | 30 776 | 18 718 | 15 | 13 | (D) | NM | |
| 72 979 | 317 368 | 9 006 | 9 034 | 83 208 | 11 026 | 722 348 | 472 945 | 4 | 3 | 13 | NY | |
| 14 378 | 207 627 | 2 510 | (D) | 30 327 | 7 242 | 229 150 | 154 956 | 5 | 5 | (D) | NC | |
| (D) | 10 974 | 87 | (D) | 1 476 | 268 | 12 338 | 6 882 | 17 | 13 | (D) | ND | |
| 20 385 | 259 509 | 4 534 | 4 998 | 56 676 | 7 347 | 383 660 | 236 160 | 4 | 5 | 13 | OH | |
| (D) | 38 364 | (S) | 2 461 | 7 732 | 515 | 19 320 | 12 162 | 2 | (D) | 8 | OK | |
| 2 702 | 57 226 | 1 474 | 761 | 8 751 | 663 | 40 335 | 25 279 | 7 | 6 | 31 | OR | |
| 32 774 | 388 969 | 8 414 | 7 178 | 80 780 | 11 105 | 640 805 | 403 016 | 3 | 2 | 15 | PA | |
| (S) | (S) | (S) | 324 | 3 775 | 1 068 | 79 431 | 52 490 | (D) | (D) | 33 | RI | |
| (D) | (S) | 1 208 | (D) | 11 531 | 3 241 | 94 081 | 62 445 | 6 | (D) | (D) | SC | |
| (D) | 20 305 | 356 | 1 065 | 2 900 | 292 | 9 167 | 6 668 | 20 | 15 | 34 | SD | |
| (D) | 98 009 | 1 722 | (S) | 17 799 | 4 794 | 151 393 | 95 205 | 5 | (D) | (S) | TN | |
| 44 177 | 291 116 | 4 875 | 6 580 | 45 006 | 9 084 | 430 236 | 256 004 | 4 | 5 | 15 | TX | |
| (D) | 51 248 | 888 | (D) | 6 770 | 955 | 45 818 | 28 688 | 8 | (D) | (D) | UT | |
| 415 | 11 915 | 111 | 160 | 3 723 | 431 | 22 601 | 13 982 | 13 | 13 | 35 | VT | |
| (D) | 232 884 | 4 069 | 4 688 | 45 062 | 8 902 | 369 628 | 240 392 | 4 | (D) | 15 | VA | |
| 4 528 | 116 796 | 2 248 | 4 145 | 24 456 | 1 300 | 95 384 | 53 232 | 7 | 6 | 27 | WA | |
| (D) | 26 245 | *351 | *811 | 4 053 | 484 | 12 511 | 9 265 | (D) | (D) | 41 | WV | |
| 8 977 | 180 316 | 3 073 | 5 319 | 38 720 | 2 660 | 156 069 | 92 226 | 5 | 5 | 17 | WI | |
| 358 | 8 202 | 108 | (D) | *3 303 | 137 | 5 124 | 2 736 | 12 | 13 | (D) | WY | |

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 _____ 22 637 23 284 20 188 24 815 1 1 1 1 2 Proprietors and working partners _____ 12 833 9 689 10 954 19 568 2 2 1 All employees** _____ 147 892 168 978 120 600 152 167 1 1 1 1 Construction workers: 93 633 111 019 115 403 108 733 109 576 133 944 152 448 162 914 124 832 148 859 154 352 116 648 134 105 138 553 129 742 129 762 152 007 150 308 142 142 600 797 Average _____ Other employees: March 18 766 18 376 17 671 17 705 18 130 10 940 (NA) (NA) (NA) (NA) 2 (NA) (NA) (NA) (NA) 18 697 8 810 (NA) (NA) (NA) (NA) May ______ August ______ November ______ (NA) (NA) (NA) (NA) 18 112 19 051 1 1 18 792 18 670 Average _____ Payroll, all employees _____ Payroll, construction workers_____ Payroll, other employees _____ 882 520 366 390 516 131 946 997 461 628 485 369 550 759 344 228 206 530 493 214 350 307 142 907 2 2 2 1 1 1 1 597 856 First-quarter payroll, all employees _____ 609 554 306 934 285 349 1 1 1 1 Fringe benefits, all employees Legally required expenditures Voluntary expenditures 746 605 536 514 210 090 679 235 503 394 175 841 286 650 231 630 55 020 279 356 173 975 105 381 1 1 2 1 1 1 Dollar value of business done______ Value of construction work ______ Value of construction work subcontracted in from others ______ 8 499 254 8 457 864 6 012 068 41 390 8 778 589 8 714 161 5 477 793 64 428 4 332 628 4 269 394 2 686 043 63 233 3 805 140 3 775 368 2 627 600 1 1 ģ 5 ż Other business receipts _. 29 Net value of construction workt 7 955 909 4 046 361 8 269 188 3 677 609 1 1 1 1 Value added++ -----5 146 139 5 475 753 2 667 213 2 416 694 1 1 1 1 302 836 715 354 444 973 142 508 13 033 3 173 116 154 353 115 697 492 501 955 1 665 414 1 353 242 223 033 388 446 219 639 97 760 71 048 Selected costs 3 3 2 42352144 31241133 3 2 3 6 1 89 7 2 89 138 7 958 2 407 72 022 153 668 153 668 16 059 5 565 121 405 99 543 21 863 10 638 6 153 3 575 54 494 2 Gasoline and diesel fuel______ On highway use ______ Off highway use ______ Other, including lubricating oils and greases ______ 100 806 15 348 10 147 (NA) (NA) 6 750 (NA) (NA) 6 826 (NA) (NA) 4 (NA) (NA) 3 Rental cost for machinery, equipment, and buildings ______ For machinery and equipment ______ For buildings ______ 120 700 82 904 37 796 51 370 38 067 13 303 32 922 26 351 6 571 116 663 2 3 3 2 2 3 2 2 3 88 303 28 360 1 161 874 50 483 7 817 69 479 21 401 4 171 Selected purchased services _____ 119 315 72 596 24 836 2 969 2 2 3 5 3 6 15 5 6 34 524 5 589 79 200 2 3 2 62 2 43 907 103 574 Ownership of construction projects: Value of construction work 8 457 864 1 765 139 389 477 714 161 194 727 308 449 4 269 394 524 282 (NA) 3 775 368 499 223 (NA) 8 1 1 2 5 2 1 1353 Government owned (NA) (NA) (NA) (NA) 1 Federal______State and local_______ Federal_ 375 662 886 278 ίNA ÌΝΑ 6 692 726 7 519 433 146 Privately owned _____ 3 745 112 3 276

13–6 MASONRY AND OTHER STONE WORK

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 Capital expenditures, other than land New Used Retirements and disposition of depreciable assets | 1 089 192 135 397 101 002 34 394 52 031 | 801 900 157 073 119 327 37 746 34 793 | 2 3 4 6 13 | 2 3 3 5 6 |
| End-of-year gross book value of depreciable assets | 1 172 557 | 924 180 | 2 | 2 |
| Depreciation charges during year | 136 516 | 120 744 | 3 | 2 |
| Buildings and Other Structures, Additions, and Related Facilities | | | | |
| Beginning-of-year gross book value of depreciable assets | 148 047 12 283 8 441 3 842 3 168 | 141 265 16 014 7 914 8 099 2 819 | 5 8 10 15 23 | 5 8 8 14 34 |
| End-of-year gross book value of depreciable assets | 157 161 | 154 459 | 5 | 5 |
| Depreciation charges during year | 12 970 | 11 806 | 6 | 5 |
| Machinery and Equipment | | | | |
| Beginning-of-year gross book value of depreciable assets | 941 145 123 114 92 561 37 435 30 553 48 863 | 660 635 141 059 111 412 61 622 29 646 31 973 | 2 4 6 6 13 | 2 3 3 4 5 6 |
| End-of-year gross book value of depreciable assets | 1 015 396 | 769 720 | 2 | 2 |
| Depreciation charges during year | 123 546 | 108 938 | 3 | 2 |

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 | 22 637 8 457 864 | 1 |
| Establishments with inventories: | 2 795 | 3 |
| Number | 2 293 812 | 1 |
| End of 1992, materials and supplies | 51 776 | 5 |
| End of 1991, materials and supplies | 50 325 | 5 |
| Establishments with no inventories: | 10 992 | 1 |
| Number | 3 834 766 | 1 |
| Establishments not reporting: | 8 850 | 1 |
| Number | 2 329 286 | 2 |

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

CONSTRUCTION-INDUSTRY SERIES

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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† | 22 637 147 892 2 882 520 8 499 254 8 457 864 7 955 909 | 14 323 27 895 385 035 1 636 415 1 631 193 1 514 263 | 5 011 31 265 497 978 1 450 010 1 444 782 1 367 179 | 1 983 26 494 541 225 1 539 318 1 528 201 1 414 519 | 1 005 29 207 701 264 1 866 618 1 852 137 1 750 538 | 216 14 034 367 167 977 319 974 602 925 877 | 83 11 348 257 584 679 547 677 857 647 479 | 11 3 561 73 221 179 968 179 613 <u>336 055</u> | 4 59 046 170 059 169 479 (D) | (S) (D) (D) (D) (D) | |
| Value added ⁺⁺ Cost of materials, components, supplies, and fuels Cost of construction work subcontracted out to others _ Rental cost for machinery, equipment, and buildings Capital expenditures, other than land End-of-year gross book value of depreciable assets | 5 146 139 2 851 160 501 955 120 700 135 397 1 172 557 | 955 346 564 139 116 930 16 869 30 238 239 605 | 882 055 490 351 77 604 15 796 22 204 208 207 | 910 425 515 211 113 683 22 574 29 199 233 431 | 1 137 685 627 335 101 598 30 453 30 053 255 923 | 612 428 316 166 48 726 15 843 14 200 122 851 | 416 957 232 212 30 378 11 045 5 886 77 996 | $ \begin{array}{r} 109 527 \\ \underline{105 746} \\ \underline{13 037} \\ \underline{8 121} \\ \underline{3 617} \\ 23 665 \end{array} $ | 121 717 (D) (D) (D) (D) 10 879 | (D) (D) (D) (D) (D) | |
| 1987 | | | | | | | | | | | |
| All employees** Value of construction work Value added†† | 168 978 8 714 161 5 475 753 | 28 051 1 306 072 800 696 | 35 095 1 595 457 1 012 451 | 32 545 1 630 143 1 019 427 | 33 756 1 904 217 1 214 306 | 18 196 1 087 248 701 739 | 12 555 725 021 440 109 | 6 365 <u>466 001</u> 220 120 | 2 411 (D) 66 903 | - - - | |
| 1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT) | | | | | | | | | | | |
| All employees** Net value of construction work† Capital expenditures, other than land | 1 1 3 | 2 3 8 | 3 3 9 | 3 3 9 | 2 2 4 | 1 1 1 | 2 1 (Z) | (Z) (Z) (Z) | (Z) (D) (D) | (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]

| | | | | | Establishr | nents with do | llar value of b | ousiness 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† | 22 637 147 892 2 882 520 8 499 254 8 457 864 7 955 909 | (0) (0) (0) (0) (0) (0) (0) | (S) (S) (S) (S) (S) | 4 638 10 435 103 618 337 878 337 318 326 331 | 7 452 28 653 379 802 1 163 876 1 161 118 1 115 032 | 3 113 20 612 359 388 1 058 222 1 056 063 1 007 836 | 1 545 18 632 378 557 1 077 446 1 072 252 1 011 676 | 1 221 26 797 634 781 1 825 696 1 812 548 1 699 103 | 343 16 186 422 743 1 194 575 1 184 797 1 116 841 | 130 10 484 306 243 894 568 889 090 807 915 | 48 11 235 263 791 832 194 830 068 761 243 |
| Value added++Cost of materials, components, supplies, and | 5 146 139 | (S) | (S) | 218 376 | 738 082 | 648 009 | 640 929 | 1 073 879 | 719 287 | 536 873 | 496 946 |
| fuelsCost of construction work subcontracted out | 2 851 160 | (S) | (S) | 108 516 | 379 708 | 361 986 | 375 941 | 638 372 | 407 331 | 276 521 | 266 423 |
| to othersRental cost for machinery, equipment, and | 501 955 | (S) | (S) | 10 987 | 46 086 | 48 227 | 60 575 | 113 445 | 67 957 | 81 175 | 68 825 |
| Capital expenditures, other than land | 120 700 135 397 | (S) (S) | (S) (S) | 2 683 6 505 | 13 819 27 242 | 12 749 19 313 | 13 348 15 920 | 29 665 29 705 | 18 190 18 215 | 12 923 10 190 | 16 663 6 972 |
| assets | 1 172 557 | (S) | (S) | 52 826 | 193 739 | 150 985 | 157 354 | 263 973 | 157 008 | 95 805 | 79 787 |
| 1987 | | | | | | | | | | | |
| All employees** Value of construction work Value added†† | 168 978 8 714 161 5 475 753 | (S) (S) (S) | (S) (S) (S) | 13 367 361 117 243 354 | 30 594 1 110 179 721 356 | 23 067 1 067 988 674 379 | 22 464 1 200 442 718 990 | 28 719 1 788 101 1 126 584 | 20 116 1 319 029 842 515 | 12 082 892 784 553 690 | 11 900 843 482 506 540 |
| 1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT) | | | | | | | | | | | |
| All employees** Net value of construction work† Capital expenditures, other than land | 1 1 3 | (S) (S) (S) | (S) (S) (S) | 4 3 13 | 3 3 8 | 4 4 11 | 4 4 12 | 2 3 7 | 1 2 2 | (Z) 1 (Z) | (Z) (Z) (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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TIPS UPF [MCD_CMCB.J_EVANS] 10/24/95 15:31:20 EPCV24 TLP:J_EV_INDTAB.TLP:60 10/24/95 15:30:16 DATA:J_EV_T1.DAT;59 10/24/95 15:29:06 UPF:CON_CENPROD:[CEN.DATA]J_EV_T PAGE: 5 TSF:TIPS92-15303484.DAT;1 10/24/95 15:30:38 UTF:TIPS92-15303484.DAT;1 10/24/95 15:30:38 UTF:TIPS92-15:30:38 UTF:TIPS92-15303484.DAT;1 10/24/95 15:30:38 UTF:TIPS92-15:30;38 UTF:TIPS92-15:30;

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 | | Relative standard error | | | | |
|---|---|--|--|---|--|-------------------|-----------------------------|--|
| Type of construction | Total | New construction | Additions, alterations, or reconstruction | Maintenance and repair | Relative standard error of estimate (percent) for column- A B C 1 1 2 1 1 2 1 1 2 1 1 2 2 2 4 5 5 11 6 6 2 2 2 4 5 5 11 6 6 2 2 2 4 3 3 4 2 2 6 4 3 9 2 2 4 5 10 2 5 (NA) (NA) 1 1 3 1 1 3 2 2 8 3 6 9 2 2 8 1 1 3 2 2 4 4 5 | it) | | |
| | А | В | С | D | A | В | С | D |
| 1992 | | | | | | | | |
| Value of construction work | 8 457 864 | 5 709 991 | 1 298 228 | 1 131 934 | 1 | 1 | 2 | 2 |
| Building construction Single-family houses Single-family houses, detached | 7 477 746 2 639 186 2 296 912 | 5 452 653 2 119 276 1 834 495 | 1 199 462 327 232 292 715 | 825 631 192 678 169 702 | 1 2 2 | 2 | 4 | 3 5 5 |
| Single-family houses, attached, including townhouses and townhouse-type condominiums | 342 274 | 284 781 | 34 517 | 22 976 | | | | 11 |
| Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives | 371 947 131 370 674 625 | 188 757 105 408 472 190 | 74 984 11 910 116 647 | 108 206 14 052 85 789 | 6 6 2 | 6 7 2 | 20 | 17 5 5 |
| Other commercial buildings such as stores, restaurants, and automobile service stations Industrial buildings and warehouses Industrial buildings Warehouses Religious buildings Educational buildings | 845 421 939 288 756 976 182 312 199 833 883 401 | 651 011 585 196 438 430 146 766 103 654 642 519 | 128 188 148 709 127 035 21 675 60 275 185 439 | 66 222 205 383 191 511 13 872 35 904 55 443 | 3 2 2 4 4 2 | | 6 6 7 9 4 | 63395558 |
| Hospitals and institutional buildings Amusement, social, and recreational buildings, indoors Other nonresidential buildings | 549 060 85 062 158 553 | 394 522 68 004 122 116 | 118 819 9 571 17 688 | 35 718 7 487 18 749 | 2 5 4 | 2 6 5 | 7 | 5 8 6 |
| Nonbuilding construction Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc | 662 408 88 299 | 257 338 64 665 | 98 766 11 737 | 306 303 11 897 | 10 | 13 | 11 | 2 8 |
| Blast furnaces, petroleum refineries, chemical complexes, etc Power plants Other nonbuilding construction | 340 174 76 433 157 502 | 85 303 14 007 93 363 | 38 715 7 931 40 382 | 216 156 54 494 23 756 | 3 5 8 | 10 | 2 | 2 6 7 |
| Construction work, n.s.k. | 317 710 | (NA) | (NA) | (NA) | 5 | (NA) | (NA) | (NA) |
| 1987 | | | | | | | | |
| Value of construction work | 8 714 161 | 6 471 704 | 1 174 307 | 813 761 | 1 | 1 | 3 | 2 |
| Building construction Single-family houses Single-family houses, detached Cipule family houses, detached | 8 081 409 2 738 184 2 267 304 | 6 301 397 2 276 294 1 868 222 | 1 129 342 295 576 260 474 | 650 669 166 314 138 608 | 1 2 2 | 1 2 2 | 4 | 2 5 5 |
| Single-family houses, attached, including townhouses and townhouse-type condominiums Apartment buildings with two or more units, including rentals, apartment-type | 470 880 | 408 072 | 35 102 | 27 706 | | | 9 | 8 |
| condominiums, and cooperatives Other residential buildings, including hotels, motels, and tourist cabins Office buildings | 499 486 314 584 1 100 895 | 405 449 235 417 894 343 | 57 086 45 764 142 764 | 36 949 33 402 63 787 | 4 | 4 | 11 | 6 7 4 |
| Other commercial buildings such as stores, restaurants, and automobile service stations | $\begin{array}{c} 1 & 089 & 345 \\ 1 & 063 & 764 \\ 757 & 114 \\ 306 & 650 \\ 178 & 526 \\ 540 & 660 \\ 340 & 159 \\ 86 & 755 \\ 129 & 051 \end{array}$ | 873 059 765 231 507 539 257 692 94 685 371 822 230 854 59 590 94 653 | 154 035 132 866 97 927 34 939 51 346 130 628 75 730 *23 309 20 238 | 62 250 165 666 151 647 14 019 32 494 38 209 33 575 3 854 14 169 | | 4 3 3 10 | 4 5 6 7 6 56 | 6 4 9 7 6 9 28 12 |
| Nonbuilding construction Blast furnaces, petroleum refineries, chemical complexes, etc Power plants Other nonbuilding construction | 378 364 128 396 59 390 190 578 | 170 307 26 435 6 677 137 194 | 44 964 8 091 8 202 28 671 | 163 092 93 869 44 510 24 713 | | | | 4 4 7 14 |
| Construction work, n.s.k. | 254 388 | (NA) | (NA) | (NA) | 6 | (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]

| | | | | Value of co | onstruction ork | | Net | | stan | Relative standard error of estimate | | |
|--|--|---|--|---|--|---|--|--|----------------------------------|---|-----------------------------------|--|
| ltem | Number of establish- ments | All employees** | Payroll, all employees | For all types | For specialized type | Net value of construction work† | Value added†† | construction work sub- contracted out to others | (pe | estima rcent) plumn - | for | |
| | А | В | С | D | E | F | G | н | В | D | н | |
| All establishments | 22 637 | 147 892 | 2 882 520 | 8 457 864 | 5 181 401 | 7 955 909 | 5 146 139 | 501 955 | 1 | 1 | 4 | |
| Establishments not specializing by type Establishments specializing 51 percent or more | 3 214 19 423 | 39 232 108 659 | 895 520 1 987 000 | 2 429 489 6 028 375 | (NA) 5 181 401 | 2 292 957 5 662 952 | 1 491 319 3 654 819 | 136 533 365 423 | 2 1 | 2 1 | 9 4 | |
| SINGLE-FAMILY HOUSES, DETACHED | | | | | | | | | | | | |
| All establishments specializing in type | 12 321 | 46 208 | 709 616 | 2 242 829 | 2 035 609 | 2 122 102 | 1 361 987 | 120 727 | 2 | 2 | 6 | |
| 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 | 7 627 2 044 1 049 981 475 145 | 24 843 9 366 4 891 4 361 2 037 710 | 348 057 154 814 82 049 73 093 36 330 15 273 | 1 122 005 454 931 259 471 251 417 110 724 44 281 | 1 122 005 425 181 212 659 182 514 68 414 24 835 | 1 059 325 437 951 241 860 237 085 105 055 40 826 | 679 930 287 034 148 846 152 222 66 078 27 877 | 62 680 16 980 (S) 14 332 5 669 3 454 | 3 5 8 10 12 | 3 5 9 8 10 | 10 11 (S) 16 19 16 | |
| OFFICE BUILDINGS | | | | | | | | | | | | |
| All establishments specializing in type | 403 | 5 237 | 133 510 | 383 534 | 303 981 | 348 567 | 214 394 | 34 967 | 5 | 4 | 6 | |
| 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 | 154 48 47 54 76 23 | 1 260 470 861 690 1 769 187 | 30 734 10 640 21 700 14 459 49 077 6 900 | 81 577 57 894 57 481 39 897 132 013 14 672 | 81 577 53 843 47 403 29 625 83 461 8 072 | 77 821 39 537 54 641 (D) 124 567 (D) | 53 089 15 346 31 722 23 666 80 358 10 214 | 3 756 18 356 2 840 (D) 7 446 (D) | 12 26 9 17 8 21 | 10 10 4 11 6 12 | 12 10 2 (D) 11 (D) | |
| OTHER COMMERCIAL BUILDINGS SUCH AS STORES, RESTAURANTS, AND AUTOMOBILE SERVICE STATIONS | | | | | | | | | | | | |
| All establishments specializing in type | 1 022 | 8 652 | 166 047 | 505 643 | 408 219 | 484 352 | 297 574 | 21 291 | 5 | 5 | 14 | |
| 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 | 397 151 (S) 141 138 56 | 2 584 1 183 1 268 1 397 1 574 647 | 46 617 20 394 23 056 26 865 35 226 13 888 | 144 473 58 682 71 648 91 024 98 122 41 694 | 144 473 54 649 59 046 65 558 61 279 23 214 | 137 765 56 138 69 542 85 499 96 854 38 555 | 86 354 35 819 42 101 52 038 60 237 21 025 | 6 708 2 544 (S) 5 525 1 269 *3 139 | 10 16 14 13 8 15 | 9 13 12 13 8 16 | 21 10 (S) 36 20 50 | |
| INDUSTRIAL BUILDINGS | | | | | | | | | | | | |
| All establishments specializing in type | 619 | 10 177 | 180 006 | 517 544 | 429 135 | 499 115 | 347 109 | 18 429 | 3 | 3 | 15 | |
| 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 | 302 59 23 118 84 (S) | (S) 706 900 1 062 879 2 687 | (S) 12 920 15 220 25 279 20 099 37 247 | (S) 30 129 34 660 63 907 52 484 93 874 | (S) 28 113 28 604 46 287 33 432 50 207 | (S) 28 607 32 927 61 152 50 960 92 879 | (S) 20 456 23 606 42 300 33 611 70 514 | 9 901 *1 522 1 732 2 755 1 523 995 | (S) 25 16 11 11 2 | (S) 18 12 11 7 5 | 26 58 6 15 12 8 | |
| EDUCATIONAL BUILDINGS | | | | | | | | | | | | |
| All establishments specializing in type | 633 | 9 421 | 212 800 | 553 140 | 424 621 | 534 671 | 340 844 | 18 469 | 3 | 3 | 9 | |
| 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 | 167 111 90 95 132 39 | 1 275 1 564 1 611 2 118 1 896 956 | 22 959 41 490 37 419 41 922 48 959 20 050 | 53 729 118 175 89 217 112 726 122 783 56 509 | 53 729 109 007 72 680 82 187 76 410 30 607 | 52 928 116 187 87 523 108 641 116 880 52 512 | 36 634 67 903 56 164 69 687 73 574 36 881 | 801 1 987 1 695 4 086 5 903 3 998 | 10 11 9 7 5 | 9 11 7 6 7 4 | 20 25 20 36 9 2 | |

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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 | A | В | С | D | Е | F |
| United States | 22 637 | 129 762 | 116 648 | 134 105 | 138 553 | 129 742 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alabama Alaska Arizona Arkansas California | 300 19 342 194 1 629 | 2 644 47 2 498 1 017 8 832 | 2 399 26 2 395 962 8 398 | 2 667 60 2 521 1 224 9 369 | 2 893 67 2 536 991 9 252 | 2 616 35 2 539 890 8 309 | 4 (Z) 6 2 | 4 10 5 9 3 | 6 24 4 9 3 | 5 10 6 9 3 | 4 11 5 10 3 | 4 17 6 8 3 |
| Colorado Connecticut Delaware District of Columbia Florida | 306 369 137 8 1 047 | 2 165 1 607 770 46 6 457 | 1 910 1 160 725 45 6 479 | 2 109 1 740 789 49 6 626 | 2 428 1 980 795 50 6 376 | 2 213 1 549 769 *41 6 346 | 5 5 32 4 | 5 8 10 35 4 | 6 7 9 36 4 | 5 8 9 33 4 | 7 11 11 27 5 | 5 7 14 40 5 |
| Georgia Hawaii Idaho Illinois Indiana | 461 72 106 1 092 633 | 3 051 561 448 7 084 3 553 | 2 983 582 392 5 908 2 982 | 3 282 518 512 7 683 3 699 | 3 234 564 529 7 679 3 915 | 2 706 578 357 7 068 3 617 | 5 11 9 4 4 | 6 8 12 3 5 | 6 8 13 4 5 | 9 10 12 4 5 | 7 10 13 3 5 | 8 11 19 4 6 |
| lowa Kansas Kentucky Louisiana Maine | 254 192 361 160 154 | 1 540 1 059 2 309 1 333 477 | 1 343 1 066 2 167 1 377 359 | 1 383 1 101 2 384 1 243 502 | 1 872 1 101 2 409 1 277 564 | 1 562 967 2 278 1 436 481 | 7 6 3 9 | 6 7 5 6 13 | 7 7 5 6 15 | 7 7 4 8 14 | 7 9 6 7 13 | 7 10 9 7 14 |
| Maryland Massachusetts Michigan Minnesota Mississippi | 643 539 882 513 147 | 5 171 2 253 4 302 2 830 560 | 4 709 1 658 3 498 2 221 605 | 5 353 2 316 4 450 2 915 623 | 5 320 2 505 4 817 3 291 549 | 5 301 2 531 4 444 2 894 463 | 3 5 4 6 | 4 10 4 6 11 | 4 11 5 6 14 | 3 11 4 7 11 | 4 10 4 6 12 | 5 9 4 5 13 |
| Missouri Montana Nebraska Nevada New Hampshire | 540 59 166 109 79 | 3 836 278 880 1 263 224 | 3 663 240 740 1 258 146 | 4 070 259 904 1 369 216 | 3 890 321 972 1 256 239 | 3 720 290 905 1 168 294 | 4 10 7 12 9 | 4 16 9 5 12 | 4 16 10 5 17 | 4 13 9 4 12 | 4 20 9 6 8 | 4 17 9 5 11 |
| New Jersey New Mexico New York North Carolina North Dakota | 903 108 1 435 1 130 60 | 3 710 692 6 697 5 893 242 | 3 000 633 5 219 5 888 148 | 3 675 712 6 997 6 011 229 | 4 169 762 7 413 6 031 372 | 3 998 660 7 157 5 644 217 | 4 15 4 3 12 | 5 14 4 5 18 | 6 10 3 5 11 | 5 12 4 5 17 | 6 17 4 5 26 | 5 18 5 5 11 |
| Ohio Oklahoma Oregon Pennsylvania Rhode Island | 1 180 142 248 1 483 102 | 5 840 1 361 994 8 392 (S) | 4 646 1 472 1 022 7 031 (S) | 6 202 1 194 1 067 8 739 (S) | 6 387 1 235 977 9 350 (S) | 6 125 1 542 910 8 447 (S) | 3 5 7 3 8 | 4 2 7 3 (S) | 4 4 7 3 (S) | 4 3 7 3 (S) | 4 3 9 3 (S) | 4 9 3 (S) |
| South Carolina South Dakota Tennessee Texas Utah | 447 68 468 891 210 | 2 429 437 2 899 7 292 1 013 | 2 355 322 2 717 7 515 880 | 2 469 402 2 861 7 419 1 028 | 2 466 504 3 173 7 384 1 093 | 2 426 520 2 847 6 849 1 052 | 3 12 5 3 7 | 6 20 5 4 8 | 7 18 5 4 9 | 7 18 5 5 10 | 7 24 5 4 9 | 7 23 6 4 11 |
| Vermont Virginia Washington West Virginia Wisconsin Wyoming | 95 986 408 177 531 50 | 261 6 398 1 791 584 3 003 198 | 167 6 179 1 635 582 2 300 184 | 285 6 682 1 837 625 3 026 176 | 316 6 463 1 923 565 3 350 (S) | 277 6 269 1 771 566 3 337 213 | 11 3 6 5 8 | 13 4 7 12 5 12 | 17 5 6 15 5 14 | 20 5 7 12 5 10 | 13 4 8 12 5 (S) | 18 4 13 4 18 |

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]

| | | 1992 | | | | | | | | |
|-------------------------------|---|--------------------------------------|---|----------------------------------|--|---|--|--------------------------|-----------------------------------|------------------------------|
| Location of construction work | | establishmer | work done by nts located in State | establishmen | work done by ts not located State | 1987 | Percent change 1987 | error (pe | ive stan of estin ercent) f | nate |
| | | Number | Value of construction work | Number | Value of construction work | value of construction work done in this State | (col F) to 1992 (col A) | column— | | |
| | A | В | с | D | E | F | G | А | с | Е |
| United States | 8 457 864 | 22 485 | 7 747 908 | 2 348 | 709 956 | 8 714 161 | -2.9 | 1 | 1 | 2 |
| Alabama | 93 275 | 299 | 80 830 | 40 | 12 446 | 75 753 | 23.1 | 4 | 5 | 9 |
| Alaska | 7 252 | 19 | 6 317 | 3 | 935 | 1 823 | 297.8 | 19 | 21 | (Z) |
| Arizona | 154 366 | 341 | 148 588 | 10 | 5 779 | 194 664 | -20.7 | 5 | 6 | 1 |
| Arkansas | 47 571 | 194 | 41 944 | 26 | 5 627 | 24 818 | 91.7 | 7 | 8 | 5 |
| California | 715 482 | 1 627 | 693 333 | 38 | 22 149 | 888 958 | -19.5 | 3 | 3 | 9 |
| Colorado | (D) | 306 | (D) | 6 | 4 237 | 94 114 | (D) | (D) | (D) | (Z) |
| Connecticut | 143 257 | 369 | 136 279 | 36 | 6 978 | 173 667 | -17.5 | 6 | 6 | 15 |
| Delaware | 62 330 | 137 | 49 453 | 77 | 12 877 | 65 612 | -5.0 | 9 | 10 | 21 |
| District of Columbia | 44 658 | 7 | (S) | 137 | 42 637 | 37 344 | 19.6 | 8 | (S) | 8 |
| Florida | 339 279 | 1 047 | 311 965 | 25 | 27 313 | 369 119 | -8.1 | 4 | 5 | (Z) |
| Georgia | 140 727 | 461 | 117 023 | 55 | 23 704 | 162 718 | -13.5 | 10 | 12 | 6 |
| Hawaii | 71 547 | 72 | 63 831 | *18 | 7 716 | 42 330 | 69.0 | 8 | 9 | 2 |
| Idaho | 26 970 | 98 | 26 205 | 12 | 765 | 12 065 | 123.5 | 13 | 13 | 26 |
| Illinois | 591 890 | 1 092 | 561 857 | 74 | 30 033 | 506 518 | 16.9 | 3 | 3 | 2 |
| Indiana | 222 420 | 632 | 204 335 | 106 | 18 085 | 169 503 | 31.2 | 4 | 4 | 5 |
| lowa | 107 399 | 254 | 83 697 | 66 | 23 703 | 49 801 | 115.7 | 7 | 7 | 16 |
| Kansas | 56 321 | 184 | 36 166 | 58 | 20 154 | 50 456 | 11.6 | 6 | 8 | 8 |
| Kentucky | 102 910 | (S) | 91 486 | 69 | 11 424 | 81 998 | 25.5 | 5 | 5 | 14 |
| Louisiana | 78 959 | 160 | (S) | 21 | 10 749 | 68 854 | 14.7 | 9 | (S) | 1 |
| Maine | 33 401 | 148 | 29 404 | 12 | 3 997 | 47 620 | –29.9 | 12 | 14 | 9 |
| Maryland | 246 175 | 633 | 221 467 | 125 | 24 708 | 371 289 | -33.7 | 4 | 4 | 9 |
| Massachusetts | 176 220 | (S) | 168 631 | 38 | 7 589 | 313 887 | -43.9 | 4 | 4 | 2 |
| Michigan | 336 289 | 874 | 329 630 | 47 | 6 659 | 272 393 | 23.5 | 5 | 5 | 5 |
| Minnesota | 221 150 | 505 | 208 157 | 27 | 12 992 | 197 645 | 11.9 | 5 | 5 | 4 |
| Mississippi | 19 284 | 135 | 13 158 | 28 | 6 125 | 25 832 | -25.4 | 6 | 9 | 3 |
| Missouri | 173 348 | 539 | 154 144 | 73 | 19 204 | 207 401 | -16.4 | 4 | 4 | 15 |
| Montana | (D) | 59 | (D) | 12 | 4 205 | 9 818 | (D) | (D) | (D) | 8 |
| Nebraska | 52 196 | 166 | 46 284 | 12 | 5 911 | 33 674 | 55.0 | 10 | 11 | 5 |
| Nevada | 86 316 | (S) | 75 559 | 20 | 10 757 | 59 316 | 45.5 | 6 | 7 | 2 |
| New Hampshire | 19 752 | (S) | 14 442 | 55 | 5 310 | 54 449 | -63.7 | 8 | 7 | 24 |
| New Jersey | 348 348 | 894 | 317 593 | 71 | 30 755 | 590 182 | -41.0 | 4 | 4 | 3 |
| New Mexico | 37 423 | 108 | 34 617 | 9 | 2 805 | 35 444 | 5.6 | 12 | 13 | 13 |
| New York | 616 331 | 1 431 | 592 234 | 78 | 24 098 | 701 828 | -12.2 | 4 | 4 | 13 |
| North Carolina | 270 061 | 1 122 | 227 001 | 113 | 43 060 | 247 707 | 9.0 | 5 | 5 | 5 |
| North Dakota | 16 791 | 60 | 12 895 | 8 | 3 896 | 17 081 | -1.7 | 11 | 14 | 7 |
| Ohio | 386 042 | 1 169 | 365 591 | 89 | 20 450 | 380 906 | 1.3 | 5 | 5 | 9 |
| Oklahoma | 53 569 | 139 | 50 141 | 22 | 3 428 | 32 458 | 65.0 | 4 | 4 | 9 |
| Oregon | 74 081 | 248 | 68 111 | 20 | 5 970 | 36 949 | 100.5 | 6 | 6 | 13 |
| Pennsylvania | 566 977 | 1 474 | 518 011 | 108 | 48 966 | 567 477 | 1 | 3 | 3 | 1 |
| Rhode Island | (D) | 102 | (D) | 24 | 2 702 | 39 595 | (D) | (D) | (D) | 20 |
| South Carolina | 80 764 | 430 | 68 091 | 88 | 12 674 | 85 743 | -5.8 | 7 | 8 | 11 |
| South Dakota | 26 152 | 68 | 24 128 | 17 | 2 024 | 9 833 | 166.0 | 14 | 15 | 7 |
| Tennessee | 124 429 | 465 | 113 020 | 46 | 11 409 | 131 956 | -5.7 | 4 | 4 | 10 |
| Texas | 456 909 | 891 | 437 044 | 23 | 19 864 | 400 264 | 14.2 | 5 | 5 | 7 |
| Utah | 54 367 | 207 | 51 309 | 12 | 3 058 | 42 604 | 27.6 | 9 | 9 | 37 |
| Vermont | 16 938 285 703 154 297 47 784 248 293 13 351 | 95 982 408 169 529 50 | 15 787 255 321 140 753 29 036 234 557 10 884 | 7 143 40 59 34 13 | 1 151 30 383 13 543 18 749 13 736 2 467 | 25 713 421 365 95 050 33 065 146 728 8 750 | -34.1 -32.2 62.3 44.5 69.2 52.6 | 14 5 18 6 11 | 15 5 6 29 6 14 | 27 13 5 8 2 8 |

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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) | | |
|---|---|--|---|-----------------------|--|
| | 1992 | 1987 | 1992 | 1987 | |
| All kinds of business | 8 499 254 | 8 778 589 | 1 | 1 | |
| SPECIAL TRADE CONTRACTORS | | | | | |
| Concrete contractor, except paving of roads, highways, and streets Foundation contractor: brick, block, or stone Marble contractor, exterior Masonry contractor, brick and block Masonry: pointing, cleaning or caulking contractor | 95 959 959 165 70 938 5 676 837 289 291 | 76 666 1 028 713 190 399 6 290 235 164 274 | 5 36 1 5 | 5 3 6 1 6 | |
| Refractory brick contractor Special cases Stonework contractor | 352 283 69 197 476 699 | 180 213 (NA) 399 751 | 3 11 4 | 4 (NA) 6 | |
| Other construction activities | 354 724 | 299 049 | 4 | (NA) | |
| Other business activities | 39 084 | 65 094 | 9 | 7 | |
| Kind of business activity, n.s.k. | 115 078 | 84 192 | 7 | 10 | |

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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** | 6.5 5.7 8 127.3 104.5 22.8 | 7.3 6.5 .8 126.6 105.7 20.8 | 1 1 1 1 1 1 |
| Dollar value of business done | 375.5 373.6 126.0 22.2 5.3 6.0 51.8 | 377.0 374.3 122.8 19.1 5.0 6.7 39.7 | 1 1 4 3 4 2 |
| AVERAGE PER EMPLOYEE | | | |
| Payroll, all employees \$1,000 Dollar value of business done do Value added†† do | 19.5 57.5 34.8 | 17.4 52.0 32.4 | (Z) 1 1 |
| AVERAGE PER CONSTRUCTION WORKER | | | |
| Payroll, construction workers | 18.2 65.2 | 16.4 58.0 | (Z) 1 |
| AVERAGE PER OTHER EMPLOYEE | | | |
| Payroll, other employees \$1,000 | 28.5 | 26.0 | 1 |
| AVERAGE PER DOLLAR VALUE OF CONSTRUCTION WORK | | | |
| Payroll, all employees Cost of materials, components, supplies, and fuels Cost of construction work subcontracted out to others Value of construction work subcontracted in from others Rental cost for machinery, equipment, and buildings | .341 .337 .059 .711 .014 | .338 .328 .051 .629 .013 | 1 1 4 2 2 |

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 | 6.5 | 19.5 | 65.2 | .341 | .337 | .059 | .711 | .014 |
| Alabama | 9.8 | 13.3 | 46.4 | .320 | (D) | (D) | .718 | .011 |
| Alaska | (D) | (D) | 134.9 | .168 | .538 | .033 | .911 | (S) |
| Arizona | 8.1 | 17.8 | 60.6 | .327 | .395 | (D) | .760 | .011 |
| Arkansas | 5.7 | 14.6 | 45.6 | .347 | .354 | *.027 | .944 | .007 |
| California | 6.4 | 20.6 | 81.0 | .299 | .337 | .058 | .732 | (S) |
| Colorado | 8.1 | 20.5 | 67.4 | .348 | .372 | .023 | (S) | .024 |
| Connecticut | 5.1 | 26.0 | 87.6 | .347 | (D) | .062 | .644 | .017 |
| Delaware | 6.5 | 19.5 | 65.5 | .344 | .357 | .034 | .575 | .012 |
| District of Columbia | 7.0 | 27.7 | 72.0 | .485 | .221 | .035 | .969 | .011 |
| Florida | 6.9 | 16.3 | 53.8 | .340 | (D) | (D) | .742 | .015 |
| Georgia | 7.2 | 15.5 | 49.0 | .344 | .332 | .117 | .752 | .017 |
| Hawaii | 8.9 | 27.0 | 113.8 | .270 | .312 | .024 | .945 | .012 |
| Idaho | (D) | (D) | 66.5 | .331 | .452 | .018 | .897 | .012 |
| Illinois | 7.4 | 26.6 | 80.4 | .379 | (D) | .036 | .684 | .014 |
| Indiana | 6.4 | 20.3 | 59.0 | .392 | .281 | .033 | .626 | .008 |
| lowa | 6.8 | 20.5 | 63.3 | .364 | .380 | .016 | .880 | .009 |
| Kansas | 6.0 | 18.7 | 53.3 | .382 | (D) | (D) | .699 | .010 |
| Kentucky | 7.1 | 17.5 | 51.8 | .373 | .320 | .038 | .753 | .020 |
| Louisiana | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Maine | 3.6 | 17.5 | (D) | (D) | (D) | (D) | (D) | (D) |
| Maryland | 9.4 | 18.1 | 52.5 | .401 | (D) | .036 | .828 | .015 |
| Massachusetts | 5.0 | 22.8 | 86.0 | .314 | .295 | .065 | .594 | .016 |
| Michigan | 5.5 | 22.3 | 78.6 | .318 | .343 | .052 | .686 | .013 |
| Minnesota | 6.4 | 22.5 | 80.6 | .322 | .377 | .065 | .849 | .009 |
| Mississippi | 4.1 | 11.2 | (D) | (D) | (D) | (D) | (D) | (D) |
| Missouri | 8.0 | 18.8 | 52.8 | .401 | .297 | .039 | .689 | .010 |
| Montana | 5.3 | 15.3 | 64.5 | .267 | .373 | (D) | .914 | .006 |
| Nebraska | 5.9 | 17.0 | 56.5 | .333 | .299 | *.154 | .648 | .010 |
| Nevada | 13.5 | 18.5 | (D) | (D) | (D) | (D) | (D) | (D) |
| New Hampshire | 3.3 | 20.1 | 73.1 | .317 | .368 | .033 | .792 | .014 |
| New Jersey | 4.9 | 22.4 | 90.2 | .296 | (D) | .095 | .684 | .015 |
| New Mexico | 7.0 | 13.1 | (D) | (D) | (D) | (D) | (D) | (D) |
| New York | 5.5 | 24.3 | 89.8 | .321 | .293 | .121 | .528 | .015 |
| North Carolina | 5.8 | 13.8 | 39.5 | .390 | (D) | .062 | .893 | .011 |
| North Dakota | 4.3 | 16.7 | (D) | (D) | (D) | (D) | (D) | (D) |
| Ohio | 5.6 | 20.2 | 67.3 | .340 | .322 | .052 | .661 | .012 |
| Oklahoma | 10.5 | 22.6 | 66.2 | .375 | (D) | (D) | .426 | (S) |
| Oregon | 4.7 | 22.0 | 76.6 | .335 | .422 | .035 | .752 | .019 |
| Pennsylvania | 6.5 | 21.5 | 70.0 | .352 | .312 | .056 | .662 | .014 |
| Rhode Island | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| South Carolina South Dakota Tennessee Texas Utah | 5.9 7.2 6.9 9.5 5.4 | 11.7 15.8 16.0 16.3 18.1 | 33.3 (D) 45.0 60.8 (D) | .385 (D) .395 .310 (D) | (D) (D) .340 .375 (D) | (D) (D) .100 (D) | (S) (D) .751 .656 (D) | .015 (D) .013 .011 (D) |
| Vermont | 3.1 | 20.0 | 66.9 | .339 | .306 | .024 | .682 | .006 |
| Virginia | 7.3 | 15.7 | 47.6 | .371 | (D) | (D) | .765 | .013 |
| Washington | 5.2 | 21.9 | 81.9 | .314 | .382 | .031 | .797 | .015 |
| West Virginia | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Wisconsin | 6.5 | 23.1 | 82.2 | .325 | .366 | .036 | .730 | .012 |
| Wyoming | 4.6 | 13.9 | 58.7 | .273 | .276 | .031 | .706 | .009 |

CONSTRUCTION-INDUSTRY SERIES

MASONRY AND OTHER STONE WORK 13-15

CENSUS TIPS

| PROCESS NAME: | BATCH_166 | |
|--------------------------|------------------------------|-------------------|
| ACCOUNT: | MCD-CMCB | |
| UIC: | [MCD_CMCB,J_EVANS] | |
| NODE: | EPCV24 | |
| UPF OUTPUT: | CON_CENPROD:[CEN.DATA]J_EV_T | |
| DATE/ TIME: | 10/24/95 15:31:20 | |
| USER: | J_EVANS | |
| TABLE LAYOUT PARAMETERS: | J_EV_INDTAB.TLP;60 | 10/24/95 15:30:16 |
| INPUT DATA FILE: | J_EV_T1.DAT;59 | 10/24/95 15:29:06 |
| TABLE SUMMARY FILE: | TIPS92-15303484.DAT;1 | 10/24/95 15:30:38 |
| UNCOMPOSED TABLE FILE: | TIPS93-15303484.DAT;1 | 10/24/95 15:30:38 |
| META FILE: | TIPS96-15303484.DAT;1 | 10/24/95 15:31:09 |

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

| 010 | | | |
|--------------------|--|--------------------|---|
| SIC code | Industry titles | SIC code | Industry titles |
| 15 | BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS | 17 | CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con. |
| 152 | General Building Contractors—Residential Buildings | 173 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 | 1743 | Work Special Trade Contractors Terrazzo, Tile, Marble, and Mosaic Work |
| 1541 | Buildings General Contractors—Industrial Buildings and Warehouses | | Special Trade Contractors |
| 1542 | General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses | 175 | Carpentry and Floor Work Special Trade Contractors |
| 16 | HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION— CONTRACTORS | 1751 1752 | Carpentry Work Special Trade Contractors Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified |
| 161 | Highway and Street Construction, Except Elevated Highways | 176 | Roofing, Siding, and Sheet Metal Work Special Trade Contractors |
| 1611 | Highway and Street Construction Contractors, Except Elevated Highways | 1761 | Roofing, Siding, and Sheet Metal Work Special Trade Contractors |
| 162 | Heavy Construction, Except Highway and Street Construction | 177 | Concrete Work Special Trade Contractors |
| 1622 | Bridge, Tunnel, and Elevated Highway Construction Contractors | 1771 | Concrete Work Special Trade Contractors |
| 1623 | Water, Sewer, Pipeline, and Communications and Power Line Construction Contractors | 178 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 |
| 171 | Plumbing, Heating, and Air-Conditioning | 1793 | Glass and Glazing Work Special Trade Contractors |
| | Special Trade Contractors | 1794 1795 | Excavation Work Special Trade Contractors Wrecking and Demolition Work Special |
| 1711 | Plumbing, Heating, and Air-Conditioning Special Trade Contractors | 1796 | Trade Contractors Installation or Erection of Building Equipment, |
| 172 | Painting and Paper Hanging Special Trade Contractors | 1130 | 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.