

1992

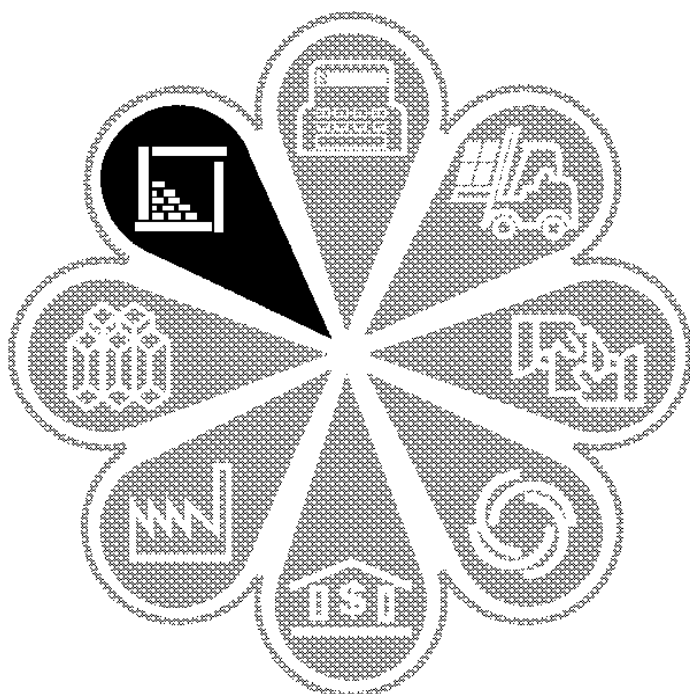
Census of Construction Industries

CC92-A-7

GEOGRAPHIC AREA SERIES

West South Central States

Arkansas, Louisiana, Oklahoma, Texas



Acknowledgments

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

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

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative-record processing, quality control, and the associated electronic computer programs were developed in the Economic Planning and Coordination Division.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review were performed by the staff of the Data Preparation Division, **Judith N. Petty**, Chief.

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

The computer processing systems were developed and coordinated in the Economic Statistical Methods and Programming Division, **Charles P. Paulter, Jr.**, Chief, and **Sarah W. Baumgardner**, Assistant Chief. **Samuel Rozenel**, Chief, Current Construction Branch, was responsible for the design and implementation of the computer systems. The computer programs were prepared under the supervision of **Leonard S. Sammarco** and **Kevin J. Montgomery** with staff assistance by **Linh Diep**, **Clifton D. Exley**, **Jongmin Lee**, and **William T. Neale**.

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

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

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

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



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

West South Central States

	Page
Introduction to the Economic Census	IV
Census of Construction	VI
Users' Guide for Locating Statistics in This Report by Table Number	XI
Map—Regions and Census Divisions of the United States	XIII
 STATES	
Arkansas	AR-1
Louisiana	LA-1
Oklahoma	OK-1
Texas	TX-1
 APPENDIXES	
A. Explanation of Terms	A-1
B. Standard Industrial Classification Titles for Industry Groups and Industries	B-1
C. Geographic Divisions and States	C-1
D. Metropolitan Areas	D-1
 Publication Program	
Inside back cover	

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

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

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

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

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

IV INTRODUCTION

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

CONSTRUCTION—GEOGRAPHIC AREA SERIES

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

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

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

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

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

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Construction

GENERAL

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

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

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

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

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

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

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

ESTABLISHMENT BASIS OF REPORTING

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

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

at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each establishment operated during all or any part of 1992. The census of construction industries figures represent a summary of records for individual establishments rather than for companies.

If an establishment was engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report for each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1992 value of construction work exceeded the gross receipts from each of its other activities.

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

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

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

Employer Companies

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

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

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

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

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

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

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

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

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

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

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

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

p_i is the selection probability of that firm.

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

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

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

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

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

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

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

Nonemployer Companies

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

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

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

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

CENSUS REPORT FORMS

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

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

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

DATA PROCESSING

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

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

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

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

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

GEOGRAPHIC CLASSIFICATION

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

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

CHANGE IN COLLECTION METHODOLOGY FOR VALUE OF CONSTRUCTION WORK DONE

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

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

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

DUPLICATION IN VALUE OF CONSTRUCTION WORK

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

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

SPECIAL TABULATIONS

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

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

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

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

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

Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity; whereas, the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities, and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the census of construction industries.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

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

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

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

See footnotes at end of table.

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

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

¹CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan statistical area.

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



Contents

Arkansas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2

FIGURES

1. Value of Construction Work by Type of Construction	3
2. Selected Costs per Dollar Value of Business Done	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics by Industry: 1992 and 1987	5
--	---

Statistics for Establishments With Payroll

2. General Statistics by Industry: 1992 and 1987	6
3. Detailed Statistics: 1992 and Earlier Census Years	8
4. Assets, Capital Expenditures, and Depreciation: 1992 and 1987	9
5. Value of Inventories: 1992 and 1991	9
6. Selected Statistics by Employment Size Class: 1992 and 1987	10
7. Selected Statistics by Size Class of Dollar Value of Business Done: 1992 and 1987	10
8. Value of Construction Work by Type of Construction: 1992 and 1987	11
9. Quarterly Construction Worker Employment by Industry: 1992	12
10. Selected Industry Ratios in This State: 1992	13
11. Selected Statistics for Selected Metropolitan Areas: 1992	14

Summary of Findings

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

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

During 1992, there were 22,046 establishments in this State operating in the construction industries. These establishments accounted for \$3.8 billion in total dollar value of business done.

Most of the 22,046 construction establishments were small. Of the total, 17,601 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,731 construction establishments with 5 employees or more, while representing only 8 percent of all establishments, accounted for more than 75 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$3.4 billion in total dollar value of business done. Of this amount, \$3.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$820 million, leaving net value of construction work of \$2.5 billion. In addition, these establishments paid out \$1.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1992 was \$1.4 billion. (See Introduction and appendixes for explanation of terms.)

There were 4,445 establishments with total employment averaging 34,057 during the year. Total payroll for 1992 was \$652 million.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 17,601 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$480 million. Most of these establishments, about 83 percent, were special trade contractors.

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

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

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

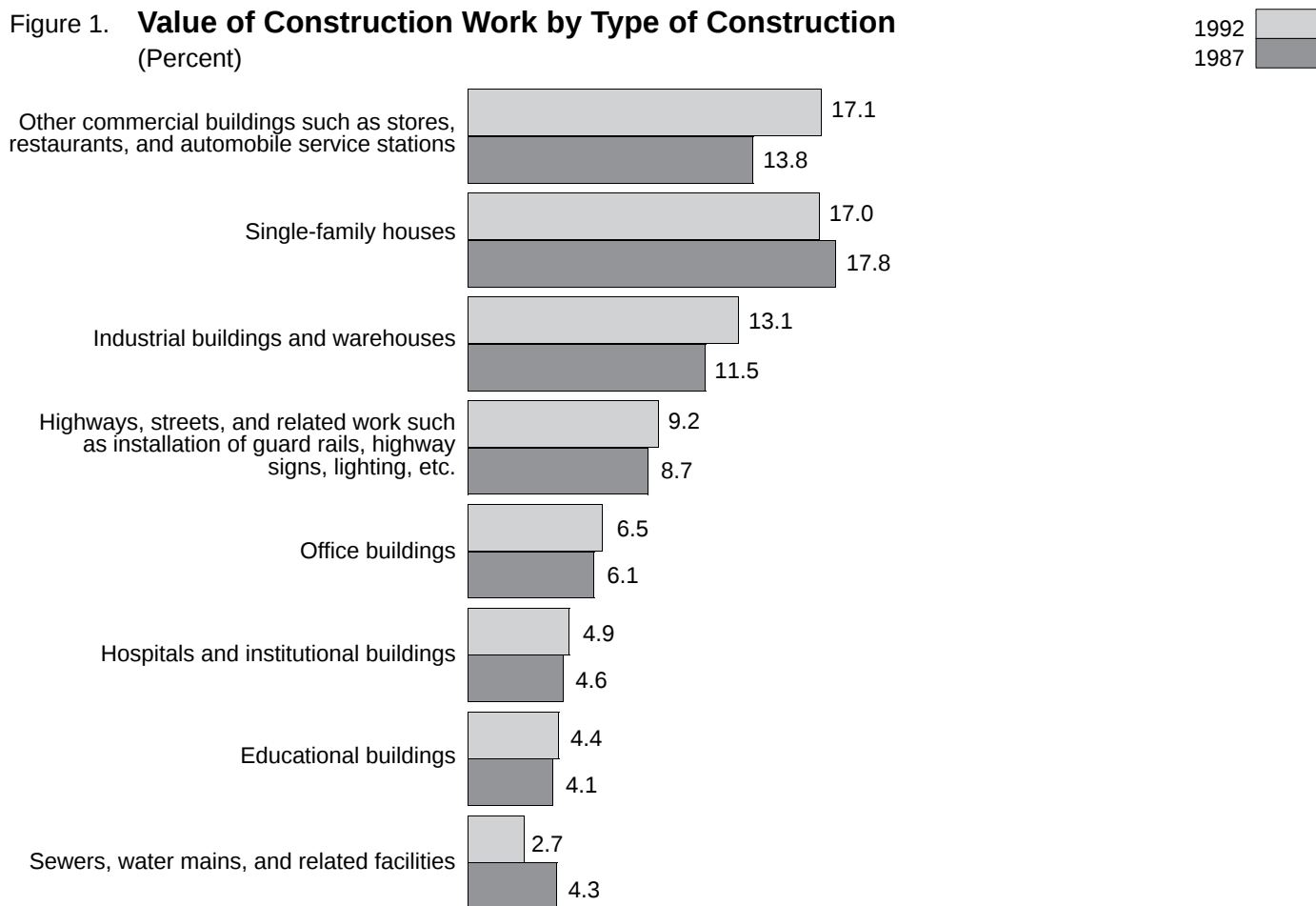


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

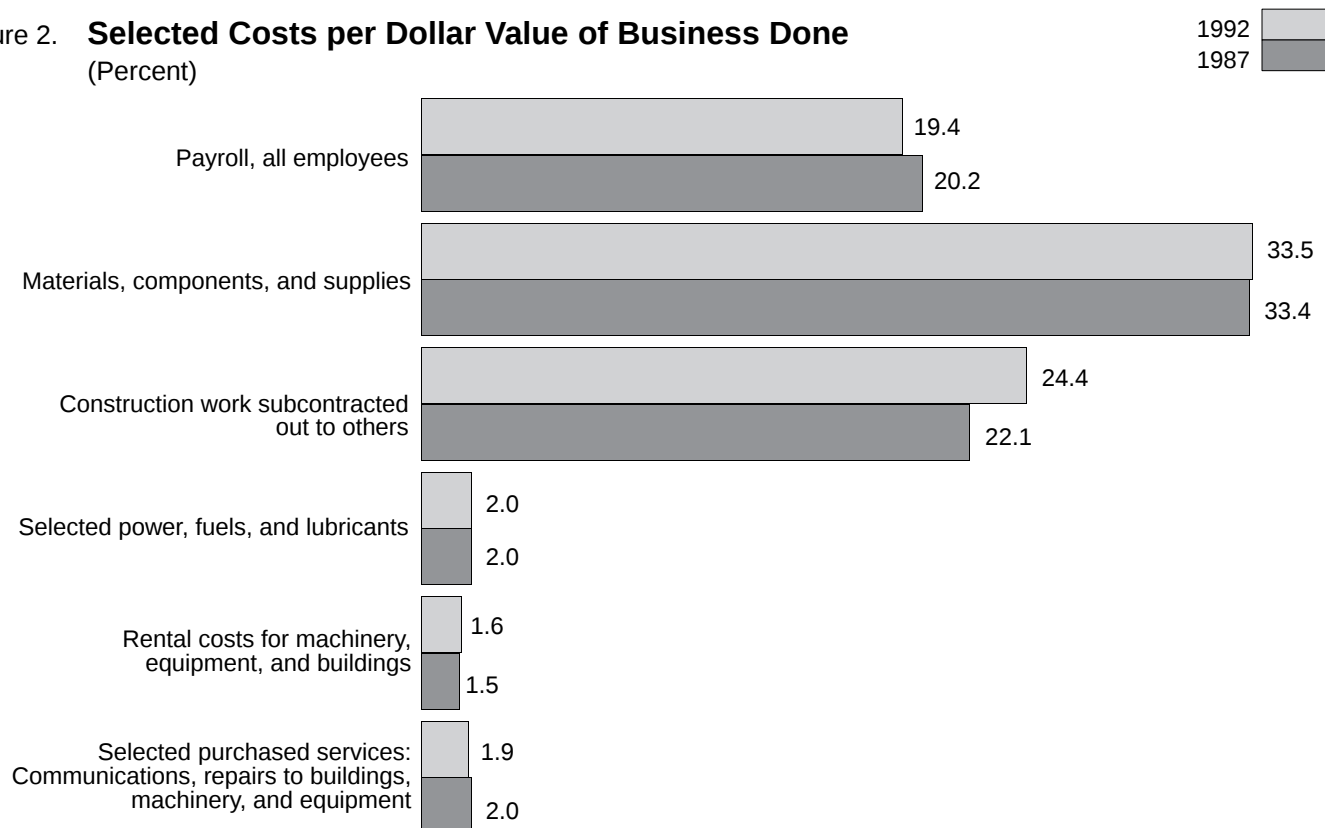


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column —	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1992													
15, 16, 17	Construction industries -----	22 046	19 595	34 057	3 840 903	17 601	17 411	479 992	4 445	2 184	34 057	3 360 911	1	1
15	Building construction—General contractors and operative builders ----	3 815	3 028	7 753	1 582 579	2 606	2 461	192 282	1 209	567	7 753	1 390 297	3	3
16	Heavy construction other than building construction—contractors -----	932	627	6 156	673 219	457	425	14 401	475	202	6 156	658 818	3	3
17	Special trade contractors -----	17 299	15 940	20 148	1 585 106	14 538	14 525	273 309	2 761	1 415	20 148	1 311 797	2	2
1711	Plumbing, heating, and air-conditioning --	1 944	1 584	5 225	427 046	1 249	1 245	37 594	695	339	5 225	389 452	3	4
1731	Electrical work -----	1 234	926	3 546	248 323	800	790	16 903	434	136	3 546	231 420	5	4
	1987													
15, 16, 17	Construction industries ² -----	23 160	19 992	30 434	3 154 264	18 987	18 829	670 736	4 173	1 163	30 434	2 483 528	2	2
15	Building construction—General contractors and operative builders ----	4 797	3 813	(D)	1 279 328	3 711	3 531	259 336	1 086	282	(D)	1 019 992	(D)	3
16	Heavy construction other than building construction—contractors -----	836	477	6 110	556 686	382	373	20 042	454	104	6 110	536 644	3	3
17	Special trade contractors -----	17 033	15 287	(D)	1 247 043	14 463	14 523	347 913	2 570	764	(D)	899 130	(D)	3
1711	Plumbing, heating, and air-conditioning --	1 946	1 499	3 763	310 393	1 312	1 319	45 333	634	180	3 763	265 060	5	5
1731	Electrical work -----	1 236	907	2 729	193 139	821	820	33 339	415	87	2 729	159 800	5	4

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

²Includes data for "Land Subdividers and Developers," SIC 6552.

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

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

SIC code	Industry	1992							
		Number of establish- ments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹ -----	4 445	34 057	27 101	651 800	482 166	3 302 594	2 483 084	1 350 666
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	666	2 018	1 442	30 164	19 827	241 973	182 803	84 066
1522	Other residential buildings -----	34	333	192	6 356	3 518	58 054	29 554	(S)
1531	Operative builders -----	127	340	179	5 638	2 360	69 706	48 383	10 113
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	59	823	660	18 110	12 147	158 411	74 611	26 686
1542	Nonresidential buildings, n.e.c. -----	322	4 240	3 233	88 946	59 136	843 937	395 485	201 925
16	Heavy construction other than building construction— contractors:								
1611	Highway and street construction -----	109	2 377	1 999	49 708	37 736	309 543	258 050	138 037
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	19	308	255	6 141	4 499	34 353	24 482	14 260
1623	Water, sewer, and utility lines -----	158	1 748	1 434	35 171	27 097	124 232	110 159	73 093
1629	Heavy construction, n.e.c. -----	188	1 722	1 425	37 242	29 262	169 885	154 962	87 425
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	695	5 225	4 109	107 485	82 023	384 733	349 806	191 285
1721	Painting and paper hanging -----	187	1 057	901	17 285	14 224	51 723	46 322	33 087
1731	Electrical work -----	434	3 546	2 810	71 794	55 023	229 900	224 065	125 889
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	194	1 103	1 017	16 094	13 702	46 369	45 108	28 757
1742	Plastering, drywall, and insulation work -----	103	1 361	1 139	22 367	18 762	79 666	75 511	44 652
1743	Terrazzo, tile, marble, and mosaic work -----	34	156	112	2 257	1 626	*12 420	10 678	4 655
175	Carpentry and floor work:								
1751	Carpentry -----	186	627	555	9 948	8 506	39 392	35 646	23 210
1752	Floor laying and other floor work -----	45	(S)	(S)	(S)	(S)	(S)	(S)	(D)
1761	Roofing, siding, and sheet metal work -----	237	1 558	1 182	27 518	17 962	95 089	88 984	48 473
1771	Concrete work -----	197	1 614	1 345	24 628	18 319	96 379	89 716	53 137
1781	Water well drilling -----	41	314	255	5 642	4 354	22 938	22 428	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	30	397	323	7 846	5 524	30 577	29 350	19 230
1793	Glass and glazing work -----	25	143	95	3 440	1 760	9 707	9 612	5 736
1794	Excavation work -----	105	452	368	7 284	5 587	34 535	31 971	23 892
1795	Wrecking and demolition work -----	*6	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	45	939	803	24 915	20 436	68 837	64 102	47 878
1799	Special trade contractors, n.e.c. -----	198	1 423	1 096	22 467	16 335	65 036	60 923	35 276

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
1 190 735	819 511	781 281	53 423	76 659	649 133	30 434	2 400 570	1 032 258	1	1	7	15, 16, 17
												15
102 144	59 170	7 179	(S)	1 805	20 316	1 816	164 821	56 521	9	12	27	152
20 682	28 500	39	251	656	5 408	419	54 947	23 019	10	10	10	1521
39 231	21 323	(S)	(S)	*1 272	4 115	(D)	99 616	27 320	22	21	63	1531
49 588	83 800	(D)	1 030	945	10 795	1 017	85 364	29 723	9	7	30	154
205 387	448 451	(S)	11 981	5 050	43 112	4 633	571 098	170 131	4	5	13	1541
												1542
												16
131 545	51 492	52 644	6 234	13 297	156 407	2 235	224 796	99 780	6	6	9	1611
10 557	9 871	4 263	502	1 467	10 820	356	46 105	15 845	15	13	11	162
38 538	14 073	22 901	2 597	8 080	64 706	1 777	125 741	67 844	6	7	15	1622
75 004	14 923	34 575	5 904	10 666	107 345	1 742	127 253	68 106	7	5	14	1623
												1629
												17
163 240	34 927	206 739	7 090	9 451	53 164	3 763	261 538	115 804	3	4	17	1711
13 339	5 401	23 002	640	1 061	4 914	713	35 463	24 939	11	11	31	1721
99 697	5 834	147 258	2 961	4 161	28 352	2 729	157 870	82 783	5	4	22	1731
16 421	*1 261	43 752	316	2 545	13 812	870	28 141	20 176	8	9	35	174
32 574	4 156	72 342	960	*333	5 284	784	39 940	21 866	11	14	52	1741
*6 544	(S)	4 833	79	*80	1 095	90	8 289	4 796	20	37	74	1742
												1743
12 669	*3 746	19 215	486	168	1 824	643	24 313	13 241	13	18	15	175
(D)	(S)	(S)	*182	*171	(S)	152	6 248	3 713	(S)	(S)	44	1751
40 832	6 104	31 980	1 465	813	15 715	1 604	88 889	49 455	6	6	29	1752
38 555	6 663	30 618	3 330	4 589	37 193	1 255	61 421	29 399	10	10	24	1761
12 408	510	1 033	51	677	15 785	237	16 021	6 317	2	4	27	1771
												1781
10 121	1 226	6 217	*234	*252	4 453	569	31 889	18 806	21	15	50	179
6 136	95	8 102	239	120	835	207	13 755	7 688	5	9	15	1791
8 112	2 564	*19 090	(S)	*6 497	*19 847	592	37 923	23 579	18	18	64	1793
(S)	(S)	(D)	(D)	—	—	(D)	468	287	(S)	(S)	—	1794
(D)	4 734	9 386	1 616	1 443	12 705	524	29 613	20 910	3	2	9	1795
29 432	4 114	15 370	(D)	1 059	9 067	852	41 703	24 691	10	10	34	1796
												1799

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	4 445	4 173	3 864	5 083	1	1	3	3
Proprietors and working partners.....	2 184	1 163	1 390	3 555	3	7	6	5
All employees**	34 057	30 434	28 577	33 890	1	2	2	2
Construction workers:								
March.....	24 927	22 935	22 653	26 936	1	2	2	2
May	27 828	25 032	24 239	30 192	1	2	2	2
August	28 931	26 463	24 873	31 361	1	2	2	2
November	26 719	23 254	22 976	28 546	1	2	2	2
Average	27 101	24 421	24 067	29 362	1	2	2	2
Other employees:								
March.....	7 033	5 977	4 492	4 380	2	2	3	3
May	6 874	5 940	(NA)	(NA)	2	2	(NA)	(NA)
August	7 051	6 175	(NA)	(NA)	2	2	(NA)	(NA)
November	6 864	5 976	(NA)	(NA)	2	2	(NA)	(NA)
Average	6 955	6 017	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	651 800	501 685	416 608	313 220	1	1	2	1
Payroll, construction workers	482 166	368 756	336 627	254 419	1	1	2	2
Payroll, other employees	169 633	132 928	79 981	58 801	1	2	2	2
First-quarter payroll, all employees	140 644	119 266	95 008	65 273	1	2	2	1
Fringe benefits, all employees	135 847	87 978	73 720	48 981	2	2	2	1
Legally required expenditures	106 853	66 901	56 957	36 570	2	2	2	2
Voluntary expenditures	28 994	21 076	16 762	12 411	3	3	2	2
Dollar value of business done	3 360 911	2 483 528	1 803 023	1 522 463	1	2	2	2
Value of construction work	3 302 594	2 400 570	1 733 824	1 450 938	1	1	2	2
Value of construction work subcontracted in from others	781 281	487 762	388 933	308 353	4	5	3	3
Other business receipts	58 317	61 989	56 096	71 525	6	6	4	3
Net value of construction†	2 483 084	1 850 733	1 407 837	1 109 379	1	1	2	2
Value added††	1 350 666	1 032 258	867 075	574 898	2	2	2	2
Selected costs	2 010 246	1 430 301	922 844	916 457	2	2	2	2
Materials, components, and supplies	1 124 697	829 845	550 792	543 795	2	2	2	2
Construction work subcontracted out to others	819 511	549 837	325 986	341 559	2	3	3	3
Selected power, fuels, and lubricants	66 038	50 619	46 066	31 103	3	3	4	3
Electricity.....	11 123	7 443	6 176	3 692	3	5	7	4
Natural gas	3 584	3 077	1 674	1 932	4	9	5	6
Gasoline and diesel fuel	47 652	36 938	34 586	21 847	3	3	4	2
On highway use	33 219	23 770	(NA)	(NA)	3	2	(NA)	(NA)
Off highway use	14 433	13 167	(NA)	(NA)	7	7	(NA)	(NA)
Other, including lubricating oils and greases.....	3 679	3 159	3 629	3 632	4	7	7	6
Rental cost for machinery, equipment, and buildings	53 423	37 286	23 879	19 191	5	4	4	3
For machinery and equipment	40 737	27 979	19 860	16 350	6	5	5	3
For buildings.....	12 685	9 307	4 018	2 842	7	5	5	6
Selected purchased services	64 402	50 612	39 129	30 249	5	3	3	2
Communication services	16 631	10 517	9 116	6 509	5	6	3	3
Repairs to buildings and other structures	2 729	2 452	1 735	2 013	9	12	12	9
Repairs to machinery and equipment	45 042	37 641	28 277	21 727	6	4	3	3
Ownership of construction projects:								
Value of construction work	3 302 594	2 400 570	1 733 824	1 450 938	1	1	2	2
Government owned	744 067	574 608	362 576	261 372	5	5	6	2
Federal	207 122	214 584	(NA)	(NA)	7	7	(NA)	(NA)
State and local	536 945	360 024	(NA)	(NA)	6	7	(NA)	(NA)
Privately owned	2 558 527	1 825 961	1 371 247	1 189 566	3	3	2	2

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

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

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

Item			Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	599 718	379 457	3	4
Capital expenditures, other than land -----	76 659	48 238	7	5
New -----	56 337	35 070	6	6
Used -----	20 322	13 167	14	12
Retirements and disposition of depreciable assets -----	27 244	14 860	12	10
End-of-year gross book value of depreciable assets -----	649 133	412 835	3	4
Depreciation charges during year -----	71 197	52 646	4	5
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	65 728	63 251	9	6
Capital expenditures, other than land -----	4 843	4 272	21	11
New buildings and other structures -----	2 842	2 258	28	9
Used buildings and other structures -----	2 000	2 013	33	20
Retirements and disposition of depreciable assets -----	*1 809	3 036	53	14
End-of-year gross book value of depreciable assets -----	68 761	64 487	9	6
Depreciation charges during year -----	5 997	5 725	12	10
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	533 990	316 206	3	4
Capital expenditures, other than land -----	71 817	43 966	7	6
New machinery and equipment, including automobiles and trucks -----	53 495	32 811	6	6
New automobiles and trucks, intended primarily for highway use -----	18 301	13 898	9	7
Used machinery and equipment, including automobiles and trucks -----	18 321	11 154	15	14
Retirements and disposition of depreciable assets -----	25 435	11 824	12	12
End-of-year gross book value of depreciable assets -----	580 372	348 347	4	4
Depreciation charges during year -----	65 200	46 921	4	5

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	4 445	1
Value of construction work	3 302 594	1
Establishments with inventories:		
Number	1 344	4
Value of construction work	1 029 019	3
Inventories ¹ :		
End of 1992, materials and supplies	31 059	7
End of 1991, materials and supplies	31 729	6
Establishments with no inventories:		
Number	1 443	4
Value of construction work	1 590 489	2
Establishments not reporting:		
Number	1 658	3
Value of construction work	683 087	3

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments -----	4 445	2 714	856	524	263	58	27	3	—	—
All employees** -----	34 057	5 147	5 463	6 876	7 808	3 914	3 924	924	—	—
Payroll, all employees -----	651 800	71 014	86 130	128 141	166 483	85 561	91 507	22 964	—	—
Dollar value of business done -----	3 360 911	491 811	414 234	596 188	700 299	409 788	748 591	(D)	—	—
Value of construction work -----	3 302 594	486 104	407 843	582 099	687 026	394 768	744 754	(D)	—	—
Net value of construction work† -----	2 483 084	401 283	343 334	462 944	548 355	301 429	347 189	78 549	—	—
Value added†† -----	1 350 666	194 405	176 426	269 702	284 736	190 005	186 029	49 363	—	—
Cost of materials, components, supplies, and fuels -----	1 190 735	212 586	173 299	207 332	276 892	126 444	194 183	(D)	—	—
Cost of construction work subcontracted out to others -----	819 511	84 821	64 509	119 154	138 671	93 339	319 016	(D)	—	—
Rental cost for machinery, equipment, and buildings -----	53 423	6 618	5 189	10 525	9 822	6 297	14 971	(D)	—	—
Capital expenditures, other than land -----	76 659	10 095	9 703	17 673	11 499	10 213	17 477	(D)	—	—
End-of-year gross book value of depreciable assets -----	649 133	73 063	76 017	113 240	139 701	80 456	166 656	(D)	—	—
1987										
All employees** -----	30 434	(S)	5 393	6 580	7 347	3 355	3 074	—	—	—
Value of construction work -----	2 400 570	(S)	321 694	498 116	604 072	627 313	(D)	—	—	—
Value added†† -----	1 032 258	(S)	154 448	209 366	402 404	(D)	123 528	—	—	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	5	7	6	4	3	(Z)	(Z)	—	—
Net value of construction work† -----	1	7	9	6	3	3	(Z)	(Z)	—	—
Capital expenditures, other than land -----	7	19	21	23	4	(Z)	(Z)	(D)	—	—

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments -----	4 445	(S)	(S)	633	1 268	726	556	419	110	66	37
All employees** -----	34 057	(S)	(S)	1 208	3 968	3 868	5 194	7 248	3 859	3 450	4 613
Payroll, all employees -----	651 800	(S)	(S)	12 620	50 576	60 216	85 621	153 200	85 222	82 902	116 556
Dollar value of business done -----	3 360 911	(S)	(S)	46 066	210 507	251 094	396 992	646 709	386 947	451 181	954 419
Value of construction work -----	3 302 594	(S)	(S)	45 977	207 915	248 426	387 322	635 400	381 388	439 080	940 290
Net value of construction work† -----	2 483 084	(S)	(S)	42 678	189 145	223 553	328 510	522 279	303 300	329 717	528 690
Value added†† -----	1 350 666	(S)	(S)	25 191	106 582	123 663	169 181	291 133	178 271	160 645	286 592
Cost of materials, components, supplies, and fuels -----	1 190 735	(S)	(S)	17 576	85 156	102 559	168 999	242 454	130 588	181 174	256 227
Cost of construction work subcontracted out to others -----	819 511	(S)	(S)	3 299	(S)	24 872	58 813	113 121	78 088	109 363	411 600
Rental cost for machinery, equipment, and buildings -----	53 423	(S)	(S)	510	(S)	4 972	5 232	10 903	5 588	6 065	15 942
Capital expenditures, other than land -----	76 659	(S)	(S)	2 004	5 129	7 132	8 172	18 636	8 251	8 731	18 189
End-of-year gross book value of depreciable assets -----	649 133	(S)	(S)	10 608	41 911	54 282	60 307	140 014	75 677	93 491	170 040
1987											
All employees** -----	30 434	(S)	(S)	(S)	3 705	4 093	4 307	6 275	4 677	2 496	2 528
Value of construction work -----	2 400 570	(S)	(S)	(S)	165 986	234 645	305 132	508 351	421 751	693 288	(D)
Value added†† -----	1 032 258	(S)	(S)	(S)	87 327	110 892	137 082	220 588	171 692	127 836	136 115
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	12	8	9	8	5	4	2	(Z)
Net value of construction work† -----	1	(S)	(S)	9	7	8	8	6	6	6	(Z)
Capital expenditures, other than land -----	7	(S)	(S)	39	19	26	24	21	9	4	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair				
	A	B	C	D	A	B	C	D
1992								
Value of construction work	3 302 594	2 023 203	768 903	386 029	1	2	2	3
Building construction	2 395 582	1 525 103	617 714	252 764	2	3	3	4
Single-family houses	562 998	390 732	109 730	62 536	6	8	9	8
Single-family houses, detached	533 101	376 291	102 416	54 394	7	8	9	9
Single-family houses, attached, including townhouses and townhouse-type condominiums	29 898	(S)	7 314	8 142	18	(S)	21	16
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	78 435	57 378	10 677	10 380	9	11	19	12
Other residential buildings, including hotels, motels, and tourist cabins	47 053	32 461	10 339	4 254	14	18	6	8
Office buildings	213 096	120 051	75 989	17 056	6	5	10	8
Other commercial buildings such as stores, restaurants, and automobile service stations	564 964	344 525	183 717	36 723	3	3	4	7
Industrial buildings and warehouses	432 936	263 406	100 569	68 961	3	4	5	9
Industrial buildings	331 744	185 227	84 355	62 162	4	5	5	9
Warehouses	101 192	78 179	16 214	6 799	5	4	15	25
Religious buildings	53 478	36 630	11 853	4 995	4	4	5	23
Educational buildings	146 277	101 187	36 078	9 011	7	8	6	22
Hospitals and institutional buildings	163 205	102 918	54 445	5 843	8	11	8	8
Farm buildings, nonresidential	44 999	36 898	(D)	(D)	31	37	(D)	(D)
Amusement, social, and recreational buildings, indoors	44 253	(S)	(D)	(D)	4	(S)	(D)	(D)
Other nonresidential buildings	43 885	24 446	*9 049	10 391	20	25	45	16
Nonbuilding construction	782 554	498 100	151 189	133 265	2	3	7	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	304 956	175 632	80 533	48 791	5	7	12	6
Private driveways and parking areas	38 051	27 966	6 758	3 326	13	13	18	39
Bridges, tunnels, and elevated highways	39 866	30 367	7 516	1 983	12	15	3	27
Conservation and development construction	35 773	24 099	*6 178	*5 496	16	14	46	45
Power and communication transmission lines, towers, and related facilities	(S)	(S)	1 758	(S)	(S)	(S)	7	(S)
Sewers, water mains, and related facilities	88 826	73 708	8 141	6 977	8	8	26	8
Sewers, sewer lines, septic systems, and related facilities	34 247	27 613	5 561	1 073	13	13	32	19
Water mains and related facilities	54 579	46 095	2 580	5 904	7	7	26	8
Pipeline construction other than sewer or water lines	25 740	22 846	685	2 209	10	11	33	2
Blast furnaces, petroleum refineries, chemical complexes, etc.	47 227	23 136	7 148	16 943	1	1	4	2
Other nonbuilding construction	156 319	90 625	32 471	33 223	5	7	7	7
Construction work, n.s.k.	124 459	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
1987								
Value of construction work	2 400 570	1 497 452	457 701	283 884	1	2	4	4
Building construction	1 629 437	1 121 944	326 578	180 913	2	3	4	7
Single-family houses	427 564	298 277	78 788	50 498	5	7	13	9
Single-family houses, detached	402 723	282 065	74 537	46 119	6	7	13	9
Single-family houses, attached, including townhouses and townhouse-type condominiums	24 840	16 212	4 250	4 378	22	31	36	24
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	57 053	46 097	3 572	*7 383	13	12	27	53
Other residential buildings, including hotels, motels, and tourist cabins	62 232	48 884	8 377	4 970	5	5	22	17
Office buildings	146 802	85 520	45 378	15 903	4	5	6	6
Other commercial buildings such as stores, restaurants, and automobile service stations	331 147	246 344	53 633	31 168	5	6	11	16
Industrial buildings and warehouses	276 488	160 669	71 764	44 055	4	6	4	5
Industrial buildings	238 362	134 783	65 478	38 100	4	6	5	5
Warehouses	38 126	25 885	6 286	5 954	9	12	15	20
Religious buildings	39 366	8 900	3 644	3 644	5	4	13	11
Educational buildings	97 718	73 077	17 478	7 161	10	10	17	33
Hospitals and institutional buildings	111 087	81 274	21 988	7 824	5	6	6	23
Farm buildings, nonresidential	38 667	32 558	4 403	1 704	13	14	11	21
Other nonresidential buildings	41 313	22 423	12 297	*6 603	23	31	36	57
Nonbuilding construction	609 602	375 507	131 123	102 971	3	4	6	5
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	209 475	113 797	62 250	33 427	4	8	7	8
Conservation and development construction	24 013	9 904	(S)	7 971	24	20	(S)	11
Power and communication transmission lines, towers, and related facilities	33 610	26 918	2 347	4 345	9	8	22	11
Sewers, water mains, and related facilities	102 544	79 333	14 579	8 631	12	12	31	17
Sewers, sewer lines, septic systems, and related facilities	40 399	31 704	6 009	2 684	16	17	28	15
Water mains and related facilities	62 144	47 628	*8 569	5 946	14	14	46	23
Other nonbuilding construction	239 960	145 555	45 809	48 597	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	161 530	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

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

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

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

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers ¹				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December						
		A	B	C	D	E	F	A	B	C	D	E	F
15, 16, 17	Construction industries -----	4 445	27 101	24 927	27 828	28 931	26 719	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	666	1 442	1 291	1 448	1 493	1 538	6	9	10	10	9	11
1522	Other residential buildings -----	34	192	174	199	200	194	25	13	17	13	10	11
1531	Operative builders -----	127	179	181	195	185	154	18	29	28	29	28	30
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	59	660	640	680	647	672	19	9	7	8	8	12
1542	Nonresidential buildings, n.e.c. ----	322	3 233	3 025	3 280	3 671	2 955	9	5	5	4	5	5
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	109	1 999	1 643	2 104	2 289	1 958	13	5	6	5	6	5
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	19	255	202	252	283	283	24	15	17	16	15	14
1623	Water, sewer, and utility lines -----	158	1 434	1 285	1 378	1 571	1 502	12	6	7	6	6	6
1629	Heavy construction, n.e.c. -----	188	1 425	1 284	1 366	1 557	1 494	13	7	6	7	7	9
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	695	4 109	3 802	4 358	4 287	3 989	3	4	4	4	4	4
1721	Painting and paper hanging -----	187	901	859	871	1 012	863	9	12	15	12	12	11
1731	Electrical work -----	434	2 810	2 745	2 807	2 965	2 724	5	4	5	5	5	4
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	194	1 017	962	1 224	991	890	6	9	9	9	10	8
1742	Plastering, drywall, and insulation work -----	103	1 139	978	1 161	1 246	1 171	13	10	10	10	12	11
1743	Terrazzo, tile, marble, and mosaic work -----	34	112	116	113	105	114	26	19	19	19	21	19
175	Carpentry and floor work:												
1751	Carpentry -----	186	555	537	566	585	533	11	12	12	11	12	12
1752	Floor laying and other floor work --	45	(S)	(S)	(S)	(S)	(S)	15	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	237	1 182	1 179	1 202	1 169	1 180	9	6	7	7	6	6
1771	Concrete work -----	197	1 345	1 198	1 365	1 433	1 383	8	10	11	10	10	11
1781	Water well drilling -----	41	255	227	267	281	246	11	3	3	3	3	3
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	30	323	284	344	359	304	21	22	20	20	24	23
1793	Glass and glazing work -----	25	95	99	97	96	89	(Z)	2	5	2	6	7
1794	Excavation work -----	105	368	303	413	410	345	18	18	19	18	19	21
1795	Wrecking and demolition work -----	*6	(S)	(S)	(S)	*20	*11	67	(S)	(S)	(S)	74	67
1796	Installing building equipment, n.e.c. -----	45	803	721	807	742	944	18	3	4	3	3	3
1799	Special trade contractors, n.e.c. ----	198	1 096	1 037	1 138	1 164	1 047	12	9	10	9	10	10

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	7.7	19.1	121.9	.197	.361	.248	.237	.016
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.0	14.9	167.8	.125	.422	.245	.030	(S)
1522	Other residential buildings -----	9.7	19.1	302.4	.109	.356	.491	.001	.004
1531	Operative builders -----	2.7	16.6	389.4	.081	.563	.306	(S)	*.014
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	13.9	22.0	240.0	.114	.313	.529	(D)	.007
1542	Nonresidential buildings, n.e.c. -----	13.2	21.0	261.0	.105	.243	.531	(S)	.014
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	21.8	20.9	154.8	.161	.425	.166	.170	.020
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	16.3	19.9	134.7	.179	.307	.287	.124	.015
1623	Water, sewer, and utility lines -----	11.0	20.1	86.6	.283	.310	.113	.184	.021
1629	Heavy construction, n.e.c. -----	9.1	21.6	119.2	.219	.441	.088	.204	.035
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.5	20.6	93.6	.279	.424	.091	.537	.018
1721	Painting and paper hanging -----	5.7	16.4	57.4	.334	.258	.104	.445	.012
1731	Electrical work -----	8.2	20.2	81.8	.312	.434	.025	.641	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.7	14.6	45.6	.347	.354	*.027	.944	.007
1742	Plastering, drywall, and insulation work -----	13.3	16.4	69.9	.281	.409	.052	.908	.012
1743	Terrazzo, tile, marble, and mosaic work -----	4.6	14.5	110.9	.182	.527	*.140	*.389	*.006
175	Carpentry and floor work:								
1751	Carpentry -----	3.4	15.9	71.0	.253	.322	.095	.488	.012
1752	Floor laying and other floor work -----	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	6.6	17.7	80.4	.289	.429	.064	.336	.015
1771	Concrete work -----	8.2	15.3	71.7	.256	.400	.069	.318	.035
1781	Water well drilling -----	7.7	18.0	90.0	.246	.541	.022	.045	.002
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	13.2	19.8	94.7	.257	.331	.040	.203	*.008
1793	Glass and glazing work -----	5.8	24.1	102.2	.354	.632	.010	.835	.025
1794	Excavation work -----	4.3	16.1	93.8	.211	.235	.074	*.553	*.051
1795	Wrecking and demolition work -----	6.9	16.6	192.7	.146	.346	.207	(D)	(D)
1796	Installing building equipment, n.e.c. -----	20.9	26.5	85.7	.362	(D)	.069	.136	.023
1799	Special trade contractors, n.e.c. -----	7.2	15.8	59.3	.345	.453	.063	.236	(D)

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MEMPHIS, TN-AR-MS MSA											
15,16, 17	Construction industries	1 747	19 165	443 617	2 079 965	1 568 485	853 852	740 772	511 480	32 711	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	206	1 023	19 260	181 144	113 776	34 378	(S)	67 368	(S)	12	13
1522	Other residential buildings	30	291	6 235	44 648	26 674	15 870	10 904	17 974	704	9	12
1531	Operative builders	97	385	12 641	206 736	133 727	52 329	82 269	73 009	299	12	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	24	701	19 046	111 784	67 691	38 064	30 000	44 093	2 514	8	3
1542	Nonresidential buildings, n.e.c.	115	1 715	41 957	308 873	123 688	60 477	64 541	185 185	1 793	6	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	849	21 705	104 939	84 472	42 584	43 254	20 467	3 918	1	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	5	124	3 010	14 101	(D)	4 580	5 623	(D)	(D)	25	(D)
1623	Water, sewer, and utility lines	24	811	16 646	69 103	61 807	40 509	21 487	7 296	1 621	2	1
1629	Heavy construction, n.e.c.	30	713	20 650	103 084	87 938	57 587	30 358	15 146	7 696	4	4
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	288	3 404	76 522	263 034	242 959	130 716	115 118	20 075	3 656	3	3
1721	Painting and paper hanging	93	724	13 226	33 597	30 469	20 744	9 739	3 127	335	8	5
1731	Electrical work	151	2 482	66 922	204 828	198 080	119 421	86 014	6 748	1 906	4	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	684	13 941	39 318	36 399	18 952	17 524	(S)	464	9	7
1742	Plastering, drywall, and insulation work	(S)	806	18 178	56 789	52 582	33 450	21 508	4 207	328	7	7
1743	Terrazzo, tile, marble, and mosaic work	30	186	3 641	10 544	9 947	5 676	5 172	(S)	(S)	19	23
175	Carpentry and floor work:											
1751	Carpentry	83	310	4 842	18 343	17 224	9 523	7 711	(S)	*80	20	20
1752	Floor laying and other floor work	(S)	166	2 791	10 938	10 005	5 063	5 210	933	(S)	7	9
1761	Roofing, siding, and sheet metal work	96	1 239	25 258	84 988	74 191	47 645	29 704	10 797	816	8	10
1771	Concrete work	95	893	16 788	78 061	65 825	39 678	26 291	12 236	1 822	8	5
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	109	2 744	4 417	4 348	3 139	(D)	*69	(D)	10	23
1793	Glass and glazing work	18	144	3 225	7 771	7 706	4 460	4 883	65	145	14	15
1794	Excavation work	20	182	3 469	12 325	11 755	8 802	3 334	570	1 417	23	18
1795	Wrecking and demolition work	5	(D)	(D)	(D)	(D)	(D)	(D)	128	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	18	495	18 004	64 643	(D)	32 072	23 485	(D)	2 019	(Z)	(D)
1799	Special trade contractors, n.e.c.	112	653	11 340	40 290	36 854	25 146	12 594	3 436	(S)	15	17

AR-14 ARKANSAS

CONSTRUCTION—GEOGRAPHIC AREA SERIES

Contents

Louisiana

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2

FIGURES

1. Value of Construction Work by Type of Construction	3
2. Selected Costs per Dollar Value of Business Done	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics by Industry: 1992 and 1987	5
--	---

Statistics for Establishments With Payroll

2. General Statistics by Industry: 1992 and 1987	6
3. Detailed Statistics: 1992 and Earlier Census Years	8
4. Assets, Capital Expenditures, and Depreciation: 1992 and 1987	9
5. Value of Inventories: 1992 and 1991	9
6. Selected Statistics by Employment Size Class: 1992 and 1987	10
7. Selected Statistics by Size Class of Dollar Value of Business Done: 1992 and 1987	10
8. Value of Construction Work by Type of Construction: 1992 and 1987	11
9. Quarterly Construction Worker Employment by Industry: 1992	12
10. Selected Industry Ratios in This State: 1992	13
11. Selected Statistics for Selected Metropolitan Areas: 1992	14

Summary of Findings

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

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

During 1992, there were 25,532 establishments in this State operating in the construction industries. These establishments accounted for \$8.2 billion in total dollar value of business done.

Most of the 25,532 construction establishments were small. Of the total, 19,128 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,975 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 86 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$7.7 billion in total dollar value of business done. Of this amount, \$7.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.2 billion, leaving net value of construction work of \$6.3 billion. In addition, these establishments paid out \$3.0 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1992 was \$3.8 billion. (See Introduction and appendixes for explanation of terms.)

There were 6,404 establishments with total employment averaging 91,852 during the year. Total payroll for 1992 was \$2.1 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 19,128 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$524 million. Most of these establishments, about 84 percent, were special trade contractors.

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

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

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

1992 
1987 

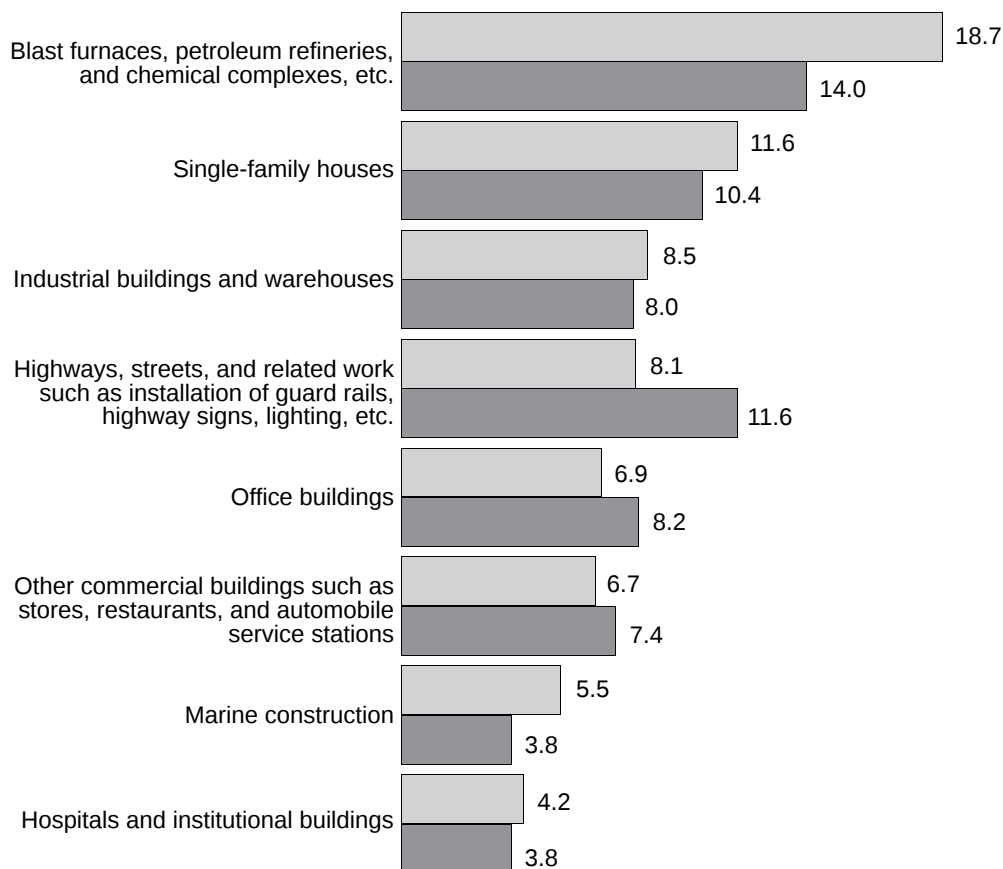


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

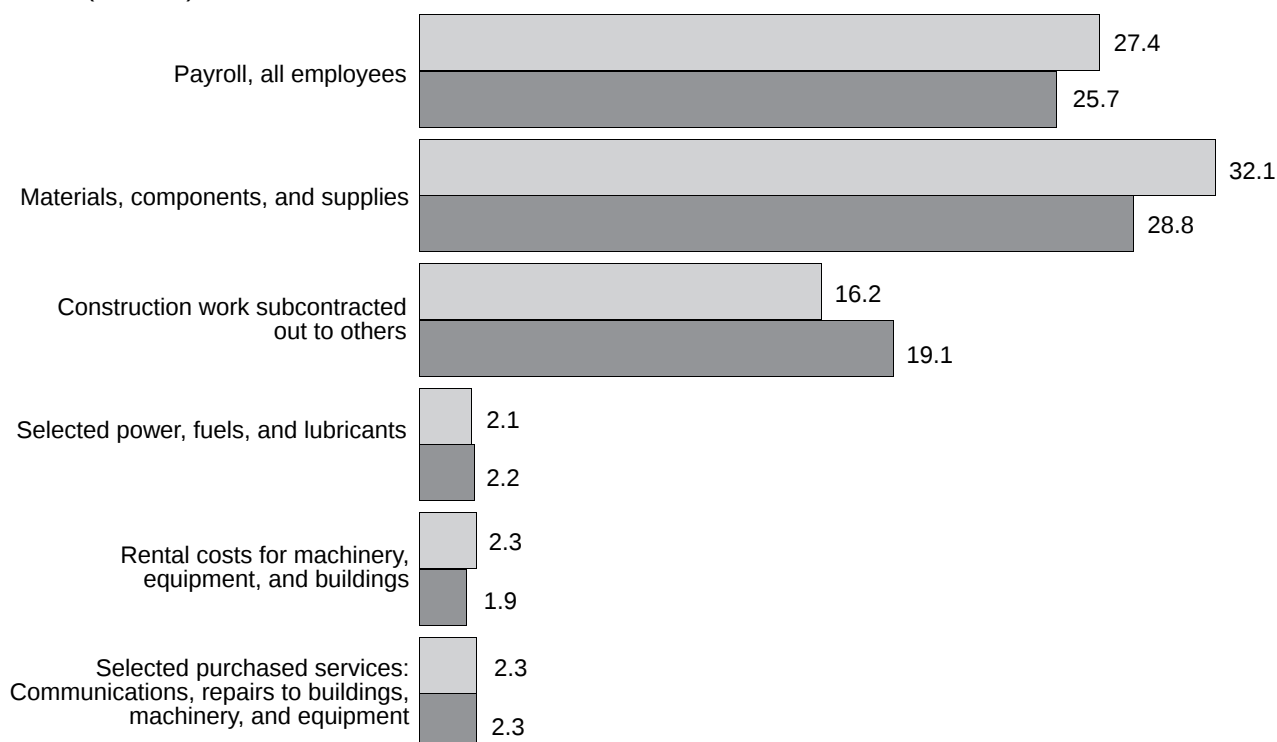


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column —	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1992													
15, 16, 17	Construction industries -----	25 532	20 306	91 852	8 199 779	19 128	18 299	523 840	6 404	2 007	91 852	7 675 939	1	1
15	Building construction—General contractors and operative builders ----	3 975	2 445	12 063	1 824 233	2 454	2 016	174 836	1 521	429	12 063	1 649 397	3	3
16	Heavy construction other than building construction—contractors -----	1 441	793	38 230	3 278 322	657	616	17 789	784	(S)	38 230	3 260 533	1	1
17	Special trade contractors -----	20 116	17 069	41 559	3 097 225	16 017	15 667	331 215	4 099	1 402	41 559	2 766 010	1	1
1711	Plumbing, heating, and air-conditioning --	2 446	1 693	8 068	727 257	1 440	1 372	50 480	1 006	321	8 068	676 777	2	2
1731	Electrical work -----	2 017	1 409	9 098	646 529	1 280	1 215	28 740	737	(S)	9 098	617 789	3	2
	1987													
15, 16, 17	Construction industries ² -----	26 981	20 851	76 720	6 523 189	20 642	19 652	777 493	6 339	1 199	76 720	5 745 696	1	1
15	Building construction—General contractors and operative builders ----	5 352	3 412	12 422	1 799 940	3 736	3 174	281 201	1 616	238	12 422	1 518 739	3	3
16	Heavy construction other than building construction—contractors -----	1 300	652	28 816	2 160 126	593	563	42 572	707	89	28 816	2 117 554	1	1
17	Special trade contractors -----	19 746	16 356	35 054	2 427 837	15 840	15 503	364 813	3 906	853	35 054	2 063 024	2	2
1711	Plumbing, heating, and air-conditioning --	2 496	1 717	6 487	517 335	1 577	1 513	51 452	919	204	6 487	465 883	4	2
1731	Electrical work -----	2 118	1 458	7 874	533 336	1 352	1 280	36 255	766	178	7 874	497 081	2	2

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

²Includes data for "Land Subdividers and Developers," SIC 6552.

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

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

SIC code	Industry	1992							
		Number of establish- ments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹ -----	6 404	91 852	75 352	2 106 170	1 608 648	7 544 546	6 298 427	3 804 749
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	807	3 448	2 497	50 579	33 300	372 434	257 141	116 124
1522	Other residential buildings -----	72	458	332	9 387	5 869	39 988	29 491	18 512
1531	Operative builders -----	127	524	174	9 577	2 369	156 026	114 325	62 893
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	147	2 335	1 840	47 833	33 090	196 291	138 698	82 267
1542	Nonresidential buildings, n.e.c. -----	368	5 298	4 101	108 173	73 004	870 704	432 757	213 929
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	132	6 643	5 619	128 191	96 432	671 009	567 993	247 199
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	203	4 521	3 816	106 986	81 452	426 381	378 073	250 499
1629	Heavy construction, n.e.c. -----	437	25 472	22 264	699 356	575 392	1 895 756	1 660 756	1 175 458
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 006	8 068	6 006	183 734	128 853	671 604	592 082	310 207
1721	Painting and paper hanging -----	291	3 561	3 099	69 397	55 647	180 269	167 479	123 719
1731	Electrical work -----	737	9 098	7 220	217 376	165 635	609 213	592 681	356 534
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	160	(D)	1 333	32 264	(D)	(D)	(D)	56 211
1742	Plastering, drywall, and insulation work -----	166	3 143	2 700	82 793	54 568	189 840	177 356	107 750
1743	Terrazzo, tile, marble, and mosaic work -----	71	481	373	7 967	5 855	25 375	23 962	12 751
175	Carpentry and floor work:								
1751	Carpentry -----	275	1 224	919	21 097	14 083	78 307	67 091	37 173
1752	Floor laying and other floor work -----	102	503	374	8 200	5 985	39 962	36 463	18 384
1761	Roofing, siding, and sheet metal work -----	374	2 907	2 198	50 635	32 646	185 932	173 689	103 889
1771	Concrete work -----	133	972	785	13 175	10 283	59 287	54 232	30 774
1781	Water well drilling -----	31	111	96	1 493	1 224	6 689	6 653	3 704
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	77	875	695	19 509	14 495	66 947	63 373	46 331
1793	Glass and glazing work -----	52	394	264	6 928	4 351	22 783	22 427	11 440
1794	Excavation work -----	81	566	464	8 870	7 182	34 811	31 978	21 621
1795	Wrecking and demolition work -----	13	(D)	(D)	(D)	2 381	13 483	13 010	(D)
1796	Installing building equipment, n.e.c. -----	59	1 276	930	34 606	25 212	88 272	81 456	59 139
1799	Special trade contractors, n.e.c. -----	471	6 641	5 610	138 101	112 051	348 616	327 768	231 137

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
2 625 071	1 246 119	1 607 322	175 553	135 194	1 502 724	76 720	5 598 712	2 826 778	1	1	5	15, 16, 17
												15
143 325 11 250	115 293 10 496	15 055 (S)	4 056 718	*6 463 230	30 252 3 713	2 768 658	216 736 77 240	90 930 22 880	8 18	9 12	44 24	152 1521 1522
52 614	41 701	*1 144	358	546	2 958	615	115 850	22 535	17	19	12	1531
57 555 227 897	57 593 437 948	16 387 20 268	4 149 5 193	1 744 3 498	21 917 45 805	1 898 6 483	155 487 910 398	73 682 224 511	6 6	6 7	17 11	154 1541 1542
												16
336 053	103 016	89 397	16 685	31 565	350 606	7 051	737 252	313 860	3	3	8	1611
(D) 128 789 530 431	5 137 48 308 235 000	(D) 26 817 177 358	4 714 18 649 76 593	3 485 13 119 37 750	59 300 105 419 581 587	702 4 035 17 028	64 330 273 229 1 009 234	25 513 166 885 663 379	(D) 5 1	(D) 4 1	21 12 12	162 1622 1623 1629
												17
287 048	79 522	324 388	10 650	6 321	62 192	6 487	462 665	219 696	2	2	13	1711
44 760	12 791	66 262	5 058	4 452	20 628	3 050	128 311	90 509	4	4	8	1721
244 723	16 532	344 198	6 994	6 124	52 876	7 874	493 263	307 090	3	2	9	1731
(D) 74 313 11 892	(S) 12 484 *1 413	43 293 90 442 15 591	1 634 1 491 165	931 1 769 660	14 216 15 222 3 661	1 995 2 690 272	93 980 136 240 13 001	56 548 94 188 7 609	(D) 3 19	(D) 3 20	32 16 39	174 1741 1742 1743
31 599 19 190	*11 217 3 499	40 268 22 629	532 573	(S) 237	(S) 2 525	877 426	58 373 25 769	32 420 15 810	10 14	12 13	(S) 33	175 1751 1752
73 250	12 244	73 247	2 290	2 629	28 562	3 043	156 060	95 148	4	4	20	1761
23 552	5 055	24 281	1 236	1 652	*10 954	930	50 788	27 000	9	13	35	1771
2 994	36	257	27	123	2 167	220	12 837	7 659	10	9	21	1781
19 596 13 893 11 156 (D) 27 208 110 759	3 574 *356 2 833 *473 6 817 20 848	36 305 13 283 19 302 (D) 17 041 98 886	1 551 238 1 921 313 1 747 8 020	1 733 *120 *937 *297 *986 6 147	13 241 1 509 6 776 4 016 11 768 44 924	1 134 565 (S) 134 1 068 3 746	60 587 38 815 (S) 8 205 68 544 177 084	38 833 20 337 (S) 6 959 52 749 119 860	10 13 18 (D) 4 4	15 11 15 16 7 4	11 44 49 42 40 11	179 1791 1793 1794 1795 1796 1799

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	6 404	6 339	8 221	7 509	1	1	2	3
Proprietors and working partners.....	2 007	1 199	2 227	3 853	4	7	4	5
All employees**	91 852	76 720	119 557	107 326	1	1	1	1
Construction workers:								
March.....	73 498	61 939	100 755	89 042	1	1	1	1
May	76 456	63 907	101 265	95 246	1	1	1	1
August	76 895	63 829	100 165	96 756	1	1	1	1
November	74 558	61 616	97 772	94 440	1	1	1	1
Average	75 352	62 823	100 690	94 265	1	1	1	1
Other employees:								
March.....	16 715	14 306	18 614	12 505	1	2	1	1
May	16 421	13 868	(NA)	(NA)	1	2	(NA)	(NA)
August	16 439	13 852	(NA)	(NA)	1	2	(NA)	(NA)
November	16 424	13 567	(NA)	(NA)	1	2	(NA)	(NA)
Average	16 500	13 898	(NA)	(NA)	1	2	(NA)	(NA)
Payroll, all employees	2 106 170	1 476 504	2 241 452	1 316 983	(Z)	1	(Z)	1
Payroll, construction workers	1 608 648	1 126 622	1 768 059	1 098 375	(Z)	1	(Z)	1
Payroll, other employees	497 522	349 881	473 393	218 608	1	1	1	1
First-quarter payroll, all employees	496 362	349 375	542 256	296 056	1	1	1	1
Fringe benefits, all employees	476 865	297 041	410 001	230 460	1	1	1	4
Legally required expenditures	356 814	232 133	307 663	150 020	1	1	1	3
Voluntary expenditures	120 051	64 908	102 338	80 440	1	1	1	5
Dollar value of business done	7 675 939	5 745 696	8 039 258	4 579 183	1	1	1	1
Value of construction work	7 544 546	5 598 712	7 809 574	4 431 332	1	1	1	1
Value of construction work subcontracted in from others	1 607 322	1 087 755	1 448 912	863 245	2	2	1	1
Other business receipts	131 394	106 564	183 731	147 852	4	5	2	3
Net value of construction†	6 298 427	4 500 503	6 456 118	3 672 235	1	1	(Z)	1
Value added††	3 804 749	2 826 778	4 133 448	2 292 002	1	1	1	1
Selected costs	3 871 191	2 878 498	3 859 858	2 239 410	1	1	1	1
Materials, components, and supplies	2 467 710	1 654 639	2 314 062	1 395 099	1	1	1	1
Construction work subcontracted out to others	1 246 119	1 098 208	1 353 456	759 097	2	2	1	2
Selected power, fuels, and lubricants	157 361	125 650	192 339	85 215	2	1	1	1
Electricity.....	20 445	17 568	37 314	8 360	3	2	1	3
Natural gas	4 959	4 305	6 248	4 064	3	4	4	3
Gasoline and diesel fuel	120 435	95 646	140 461	61 320	2	1	1	1
On highway use	66 318	56 523	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use	54 118	39 123	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases.....	11 521	8 129	8 316	11 476	4	3	2	2
Rental cost for machinery, equipment, and buildings	175 553	108 462	158 238	83 666	2	2	1	1
For machinery and equipment	148 888	81 498	136 202	76 884	3	3	1	1
For buildings.....	26 665	26 963	22 035	6 782	3	3	2	2
Selected purchased services	175 431	130 664	162 848	102 592	2	1	1	1
Communication services	39 165	26 641	30 557	16 506	2	3	2	1
Repairs to buildings and other structures	6 598	6 128	8 110	4 248	4	6	3	3
Repairs to machinery and equipment	129 668	97 895	124 180	81 838	2	2	1	1
Ownership of construction projects:								
Value of construction work	7 544 546	5 598 712	7 809 574	4 431 332	1	1	1	1
Government owned	2 050 104	1 680 707	1 302 272	1 017 223	3	2	2	1
Federal	838 068	424 414	(NA)	(NA)	7	2	(NA)	(NA)
State and local	1 212 036	1 256 293	(NA)	(NA)	3	3	(NA)	(NA)
Privately owned	5 494 442	3 918 004	6 507 302	3 414 109	2	1	1	1

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

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

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

Item			Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 485 483	1 227 500	2	2
Capital expenditures, other than land -----	135 194	81 797	5	3
New -----	109 350	59 735	5	4
Used -----	25 845	22 062	9	5
Retirements and disposition of depreciable assets -----	117 954	87 469	2	3
End-of-year gross book value of depreciable assets -----	1 502 724	1 221 879	2	2
Depreciation charges during year -----	139 170	116 241	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	120 338	148 857	4	6
Capital expenditures, other than land -----	10 037	11 524	7	13
New buildings and other structures -----	5 777	8 412	11	17
Used buildings and other structures -----	(S)	3 111	(S)	20
Retirements and disposition of depreciable assets -----	2 208	3 668	5	8
End-of-year gross book value of depreciable assets -----	128 168	156 712	4	6
Depreciation charges during year -----	11 294	12 676	6	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	1 365 144	1 078 693	2	1
Capital expenditures, other than land -----	125 157	70 273	5	3
New machinery and equipment, including automobiles and trucks -----	103 572	51 323	5	4
New automobiles and trucks, intended primarily for highway use -----	25 585	20 265	4	5
Used machinery and equipment, including automobiles and trucks -----	21 585	18 950	11	4
Retirements and disposition of depreciable assets -----	115 746	83 800	2	3
End-of-year gross book value of depreciable assets -----	1 374 556	1 065 166	2	1
Depreciation charges during year -----	127 876	103 564	3	2

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	6 404	1
Value of construction work	7 544 546	1
Establishments with inventories:		
Number	1 738	3
Value of construction work	2 175 076	1
Inventories ¹ :		
End of 1992, materials and supplies	66 740	7
End of 1991, materials and supplies	65 363	10
Establishments with no inventories:		
Number	2 178	3
Value of construction work	3 551 120	1
Establishments not reporting:		
Number	2 489	3
Value of construction work	1 818 350	2

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments -----	6 404	3 428	1 309	936	464	143	83	28	6	6
All employees** -----	91 852	6 998	8 514	12 023	14 197	9 769	12 295	9 581	3 874	14 602
Payroll, all employees -----	2 106 170	99 661	142 232	235 369	315 699	219 530	302 681	272 356	118 557	400 085
Dollar value of business done -----	7 675 939	609 652	670 011	1 017 547	1 261 720	908 954	1 222 348	704 394	347 667	933 648
Value of construction work -----	7 544 546	603 040	661 395	995 393	1 236 661	895 502	1 197 378	692 790	333 102	929 285
Net value of construction work† -----	6 298 427	487 001	559 996	834 066	1 009 536	672 087	950 651	615 835	319 766	849 488
Value added†† -----	3 804 749	261 623	298 682	483 304	632 342	377 430	554 714	386 195	237 872	572 587
Cost of materials, components, supplies, and fuels -----	2 625 071	231 991	269 929	372 916	402 252	308 109	420 907	241 244	96 459	281 264
Cost of construction work subcontracted out to others --	1 246 119	116 038	101 399	161 327	227 126	223 414	246 727	76 955	13 336	79 797
Rental cost for machinery, equipment, and buildings----	175 553	10 020	9 782	14 903	29 747	24 060	26 280	42 252	(D)	18 509
Capital expenditures, other than land -----	135 194	6 323	(S)	17 683	25 530	22 723	33 428	12 016	(D)	8 913
End-of-year gross book value of depreciable assets ----	1 502 724	70 282	87 828	148 073	208 395	200 516	287 647	69 641	430 341	(D)
1987										
All employees** -----	76 720	(S)	8 303	11 146	13 450	9 721	9 673	6 644	3 830	6 863
Value of construction work -----	5 598 712	(S)	485 326	721 718	1 043 942	840 141	850 178	458 085	638 410	(D)
Value added†† -----	2 826 778	(S)	241 087	363 672	482 301	380 729	392 041	325 546	193 156	201 866
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	5	6	6	3	1	(Z)	(Z)	(Z)	(Z)
Net value of construction work† -----	1	6	7	6	2	1	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land -----	5	16	(S)	20	1	(Z)	(Z)	(Z)	(D)	(Z)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments -----	6 404	(S)	(S)	(S)	1 781	999	940	698	233	134	120
All employees** -----	91 852	(S)	(S)	(S)	6 400	5 842	9 253	12 521	9 715	7 918	38 062
Payroll, all employees -----	2 106 170	(S)	(S)	(S)	79 176	89 980	166 631	266 205	217 052	200 555	1 065 851
Dollar value of business done -----	7 675 939	(S)	(S)	(S)	293 039	348 429	661 179	1 071 302	816 494	926 003	3 488 148
Value of construction work -----	7 544 546	(S)	(S)	(S)	289 368	344 091	645 369	1 052 269	797 394	915 801	3 429 744
Net value of construction work† -----	6 298 427	(S)	(S)	(S)	266 430	297 410	565 191	892 542	664 201	714 921	2 833 230
Value added†† -----	3 804 749	(S)	(S)	(S)	159 237	171 288	333 573	520 289	407 906	417 970	1 758 167
Cost of materials, components, supplies, and fuels -----	2 625 071	(S)	(S)	(S)	110 864	130 460	247 427	391 286	275 395	307 153	1 133 467
Cost of construction work subcontracted out to others -----	1 246 119	(S)	(S)	(S)	(S)	46 681	80 179	159 727	133 193	200 881	596 514
Rental cost for machinery, equipment, and buildings -----	175 553	(S)	(S)	(S)	5 922	7 167	10 391	17 487	17 143	19 038	97 498
Capital expenditures, other than land -----	135 194	(S)	(S)	(S)	3 848	(S)	10 238	22 255	18 501	17 012	58 036
End-of-year gross book value of depreciable assets -----	1 502 724	(S)	(S)	(S)	48 083	39 794	107 367	172 192	122 607	118 889	880 590
1987											
All employees** -----	76 720	(S)	(S)	(S)	(S)	7 209	8 698	11 612	7 989	7 382	24 607
Value of construction work -----	5 598 712	(S)	(S)	(S)	(S)	343 165	538 072	875 097	585 954	707 939	2 191 019
Value added†† -----	2 826 778	(S)	(S)	(S)	(S)	187 839	268 666	444 305	310 583	308 497	1 111 060
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	7	8	6	4	2	1	(Z)
Net value of construction work† -----	1	(S)	(S)	(S)	6	7	6	5	4	4	(Z)
Capital expenditures, other than land -----	5	(S)	(S)	(S)	18	(S)	15	15	2	1	(Z)

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

LA-10 LOUISIANA

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair				
	A	B	C	D	A	B	C	D
1992								
Value of construction work	7 544 546	4 166 118	1 513 403	1 650 298	1	1	2	1
Building construction	3 386 931	1 909 664	892 229	585 039	2	3	2	3
Single-family houses	878 123	546 134	175 184	156 805	5	7	7	7
Single-family houses, detached	796 946	507 183	159 790	129 973	5	7	7	8
Single-family houses, attached, including townhouses and townhouse-type condominiums	81 176	38 950	15 394	26 832	16	31	17	10
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	94 543	44 852	27 508	22 183	10	16	13	14
Other residential buildings, including hotels, motels, and tourist cabins	39 559	15 674	11 734	12 151	6	9	11	10
Office buildings	518 235	293 709	151 396	73 129	5	9	6	4
Other commercial buildings such as stores, restaurants, and automobile service stations	507 181	272 577	141 649	92 955	5	7	6	7
Industrial buildings and warehouses	638 478	335 357	144 058	159 063	2	3	5	3
Industrial buildings	549 463	273 692	125 500	150 271	2	3	5	3
Warehouses	89 015	61 665	18 558	8 792	7	9	15	7
Religious buildings	82 603	49 393	22 224	10 986	7	9	13	9
Educational buildings	246 829	143 192	82 205	21 432	5	7	6	8
Hospitals and institutional buildings	315 774	174 807	110 379	30 588	2	3	4	7
Other nonresidential buildings	65 606	33 969	(S)	5 745	9	8	(S)	10
Nonbuilding construction	3 942 888	2 256 454	621 175	1 065 259	1	1	2	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	611 516	353 503	179 868	78 146	3	4	3	10
Bridges, tunnels, and elevated highways	223 053	191 822	(D)	(D)	1	1	(D)	(D)
Marine construction	414 587	301 719	43 419	69 449	1	1	1	2
Conservation and development construction	141 606	86 800	34 472	20 335	11	10	30	14
Power and communication transmission lines, towers, and related facilities	105 957	71 567	17 603	16 787	6	6	13	8
Sewers, water mains, and related facilities	191 710	136 143	24 230	31 337	8	10	13	10
Sewers, sewer lines, septic systems, and related facilities	115 584	85 253	11 160	19 171	8	9	15	16
Water mains and related facilities	76 126	50 890	13 070	12 166	13	17	20	9
Pipeline construction other than sewer or water lines	269 017	160 588	40 026	68 403	3	3	2	5
Blast furnaces, petroleum refineries, chemical complexes, etc.	1 409 777	605 732	146 441	657 604	(Z)	(Z)	1	1
Power plants	126 991	64 896	21 737	40 358	4	1	6	12
Sewage treatment and water treatment plants	157 542	124 298	(D)	(D)	7	8	(D)	(D)
Oilfields	92 152	50 033	10 019	32 099	12	18	11	6
Other nonbuilding construction	198 980	109 354	53 070	36 556	7	8	16	6
Construction work, n.s.k.	214 727	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
1987								
Value of construction work	5 598 712	3 182 619	1 079 416	1 112 469	1	1	2	1
Building construction	2 767 519	1 756 514	656 454	343 923	2	2	4	3
Single-family houses	583 271	350 059	129 304	103 907	5	8	6	8
Single-family houses, detached	540 323	329 153	119 093	92 076	6	8	6	9
Single-family houses, attached, including townhouses and townhouse-type condominiums	42 947	20 905	10 211	11 830	16	26	19	24
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	110 754	78 293	15 633	16 828	8	9	24	10
Other residential buildings, including hotels, motels, and tourist cabins	86 187	40 302	30 006	15 877	11	7	30	9
Office buildings	460 374	309 429	108 589	42 355	3	3	6	5
Other commercial buildings such as stores, restaurants, and automobile service stations	414 843	261 205	114 243	39 394	4	4	8	6
Industrial buildings and warehouses	449 388	272 789	94 682	81 915	3	4	7	4
Industrial buildings	349 713	201 457	76 453	71 801	3	4	5	5
Warehouses	99 674	71 332	18 229	10 113	7	7	19	6
Religious buildings	78 254	56 259	14 293	7 700	4	4	10	7
Educational buildings	261 172	186 231	61 439	13 501	6	6	10	8
Hospitals and institutional buildings	214 977	135 878	61 692	17 407	4	4	9	6
Other nonresidential buildings	108 299	70 846	26 886	10 577	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	2 606 986	1 421 328	422 649	763 008	1	1	2	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	647 841	395 252	139 522	113 066	2	3	3	3
Marine construction	213 167	144 044	11 959	57 162	(Z)	(Z)	2	(Z)
Conservation and development construction	44 698	22 463	11 818	10 416	3	1	11	1
Power and communication transmission lines, towers, and related facilities	106 384	59 053	28 802	18 528	7	8	5	16
Sewers, water mains, and related facilities	135 293	99 771	18 290	17 231	5	7	6	7
Sewers, sewer lines, septic systems, and related facilities	82 803	59 313	12 788	10 701	6	7	5	9
Water mains and related facilities	52 489	40 458	5 501	6 529	9	12	10	12
Pipeline construction other than sewer or water lines	119 268	76 885	31 071	11 310	5	5	13	12
Blast furnaces, petroleum refineries, chemical complexes, etc.	786 163	236 189	112 793	437 180	1	1	1	1
Sewage treatment and water treatment plants	86 799	60 145	22 957	3 695	5	7	1	16
Oilfields	64 262	31 251	7 549	25 461	10	16	13	6
Other nonbuilding construction	403 111	296 275	37 888	68 959	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	224 206	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

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

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

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

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers ¹				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December						
		A	B	C	D	E	F	A	B	C	D	E	F
15, 16, 17	Construction industries -----	6 404	75 352	73 498	76 456	76 895	74 558	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	807	2 497	2 448	2 604	2 605	2 331	6	8	8	8	9	9
1522	Other residential buildings -----	72	332	357	310	348	312	24	18	16	16	17	29
1531	Operative builders -----	127	174	163	167	198	169	18	30	27	30	30	34
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	147	1 840	1 605	1 778	1 917	2 061	17	6	8	7	5	9
1542	Nonresidential buildings, n.e.c. ----	368	4 101	3 815	4 166	4 241	4 181	9	6	6	6	8	6
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	132	5 619	5 012	5 889	6 162	5 414	14	2	2	3	2	3
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	12	(D)	(D)	(D)	(D)	(D)	18	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	203	3 816	3 413	3 720	4 228	3 902	14	5	5	5	5	5
1629	Heavy construction, n.e.c. -----	437	22 264	22 780	22 839	21 542	21 894	7	1	1	1	1	2
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	1 006	6 006	5 860	6 089	6 164	5 909	3	2	2	2	2	2
1721	Painting and paper hanging -----	291	3 099	2 704	3 255	3 388	3 050	5	4	6	5	5	5
1731	Electrical work -----	737	7 220	7 334	7 408	7 299	6 839	4	2	2	3	2	2
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	160	1 333	1 377	1 243	1 277	1 436	3	6	6	8	7	7
1742	Plastering, drywall, and insulation work -----	166	2 700	2 514	2 672	2 793	2 821	9	3	3	3	3	3
1743	Terrazzo, tile, marble, and mosaic work -----	71	373	399	368	365	361	11	21	23	21	18	20
175	Carpentry and floor work:												
1751	Carpentry -----	275	919	816	848	1 019	993	6	11	13	13	13	13
1752	Floor laying and other floor work --	102	374	385	358	382	371	12	16	16	16	15	16
1761	Roofing, siding, and sheet metal work -----	374	2 198	2 266	2 214	2 178	2 135	5	5	6	5	5	5
1771	Concrete work -----	133	785	695	868	903	672	7	9	10	9	12	13
1781	Water well drilling -----	31	96	99	101	94	90	8	9	8	8	8	9
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	77	695	740	645	695	699	18	10	10	9	10	11
1793	Glass and glazing work -----	52	264	245	277	271	262	16	13	12	15	15	13
1794	Excavation work -----	81	464	440	481	478	457	22	17	16	18	17	20
1795	Wrecking and demolition work -----	13	(D)	(D)	(D)	(D)	(D)	20	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	59	930	790	893	1 001	1 036	13	3	2	7	2	2
1799	Special trade contractors, n.e.c. ----	471	5 610	5 606	5 676	5 558	5 598	8	3	3	3	4	3

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	14.3	22.9	100.1	.279	.348	.165	.213	.023
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.3	14.7	149.2	.136	.385	.310	.040	.011
1522	Other residential buildings -----	6.3	20.5	120.4	.235	.281	.262	(S)	.018
1531	Operative builders -----	4.1	18.3	896.7	.061	.337	.267	*.007	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	15.8	20.5	106.7	.244	.293	.293	.083	.021
1542	Nonresidential buildings, n.e.c. -----	14.4	20.4	212.3	.124	.262	.503	.023	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	50.4	19.3	119.4	.191	.501	.154	.133	.025
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	22.3	23.7	111.7	.251	.302	.113	.063	.044
1629	Heavy construction, n.e.c. -----	58.3	27.5	85.1	.369	.280	.124	.094	.040
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.0	22.8	111.8	.274	.427	.118	.483	.016
1721	Painting and paper hanging -----	12.2	19.5	58.2	.385	.248	.071	.368	.028
1731	Electrical work -----	12.3	23.9	84.4	.357	.402	.027	.565	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1742	Plastering, drywall, and insulation work -----	19.0	26.3	70.3	.436	.391	.066	.476	.008
1743	Terrazzo, tile, marble, and mosaic work -----	6.8	16.6	68.0	.314	.469	.056	.614	.006
175	Carpentry and floor work:								
1751	Carpentry -----	4.4	17.2	85.2	.269	.404	.143	.514	.007
1752	Floor laying and other floor work -----	5.0	16.3	106.9	.205	.480	.088	.566	.014
1761	Roofing, siding, and sheet metal work -----	7.8	17.4	84.6	.272	.394	.066	.394	.012
1771	Concrete work -----	7.3	13.6	75.5	.222	.397	.085	.410	.021
1781	Water well drilling -----	3.6	13.5	69.7	.223	.448	.005	.038	.004
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	11.3	22.3	96.3	.291	.293	.053	.542	.023
1793	Glass and glazing work -----	7.6	17.6	86.3	.304	.610	*.016	.583	.010
1794	Excavation work -----	7.0	15.7	75.0	.255	.320	.081	.554	.055
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	.035	(D)	.023
1796	Installing building equipment, n.e.c. -----	21.8	27.1	94.9	.392	.308	.077	.193	.020
1799	Special trade contractors, n.e.c. -----	14.1	20.8	62.1	.396	.318	.060	.284	.023

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NEW ORLEANS, LA MSA											
15,16, 17	Construction industries	1 895	20 124	471 829	1 971 156	1 617 749	908 293	745 705	353 407	30 813	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S) 35	932 261	16 097 5 680	(S) 21 087	(S) 16 329	40 395 11 151	(S) 5 257	(S) 4 758	(S) 152	13 21	(S) 14
1522	Other residential buildings											
1531	Operative builders	21	117	1 836	34 062	19 570	9 346	10 227	*14 492	(D)	20	16
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	31	260	(S) 33 451	(S) 281 258	(S) 122 209	(S) 44 792	5 766 84 099	(S) 159 049	(S) 1 561	22 5	(S) 9
1542	Nonresidential buildings, n.e.c.	86	1 364									
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	12	350	7 680	54 134	48 187	22 057	*28 127	5 947	1 623	2	26
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	23	905	23 615	76 024	65 791	37 986	27 906	10 233	4 372	3	5
1629	Heavy construction, n.e.c.	87	2 537	71 447	328 481	284 094	157 903	133 748	44 388	11 666	3	3
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	379	2 737	62 740	234 325	204 713	118 838	87 118	29 612	1 722	4	3
1721	Painting and paper hanging	90	851	15 342	35 900	33 558	22 910	11 595	*2 341	(S)	12	9
1731	Electrical work	261	2 884	73 044	211 350	208 020	131 197	81 567	3 330	1 260	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	339	9 881	26 794	26 683	16 792	9 897	(S)	*99	9	8
1742	Plastering, drywall, and insulation work	(S)	645	12 442	42 235	34 456	20 719	13 787	*7 779	(S)	7	5
1743	Terrazzo, tile, marble, and mosaic work	16	131	2 847	7 669	(D)	3 068	3 578	(D)	*401	22	(D)
175	Carpentry and floor work:											
1751	Carpentry	84	374	7 737	23 718	23 040	13 264	10 644	(S) 1 901	(S) 372	19 26	20
1752	Floor laying and other floor work	34	230	(D)	18 012	16 111	(D)	7 536		*54	26	26
1761	Roofing, siding, and sheet metal work	129	868	14 614	63 774	58 668	34 814	25 418	5 106	303	6	8
1771	Concrete work	26	161	2 332	13 551	12 314	4 523	7 791	1 237	(D)	29	22
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	23	295	6 329	25 166	24 105	16 236	7 996	1 061	372	11	30
1793	Glass and glazing work	28	(D)	3 725	11 987	11 649	5 814	7 159	*338	(S)	(D)	17
1794	Excavation work	20	98	1 921	6 360	*6 146	4 277	*2 097	214	223	38	41
1795	Wrecking and demolition work	8	110	2 195	(D)	(D)	(D)	2 397	(D)	(D)	22	(D)
1796	Installing building equipment, n.e.c.	19	457	15 311	36 466	35 414	23 902	14 785	1 052	394	(Z)	(Z)
1799	Special trade contractors, n.e.c.	124	1 793	40 870	108 073	103 416	66 369	40 148	4 657	1 202	5	6

Contents

Oklahoma

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2

FIGURES

1. Value of Construction Work by Type of Construction	3
2. Selected Costs per Dollar Value of Business Done	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics by Industry: 1992 and 1987	5
--	---

Statistics for Establishments With Payroll

2. General Statistics by Industry: 1992 and 1987	6
3. Detailed Statistics: 1992 and Earlier Census Years	8
4. Assets, Capital Expenditures, and Depreciation: 1992 and 1987	9
5. Value of Inventories: 1992 and 1991	9
6. Selected Statistics by Employment Size Class: 1992 and 1987	10
7. Selected Statistics by Size Class of Dollar Value of Business Done: 1992 and 1987	10
8. Value of Construction Work by Type of Construction: 1992 and 1987	11
9. Quarterly Construction Worker Employment by Industry: 1992	12
10. Selected Industry Ratios in This State: 1992	13
11. Selected Statistics for Selected Metropolitan Areas: 1992	14

Summary of Findings

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

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

During 1992, there were 26,367 establishments in this State operating in the construction industries. These establishments accounted for \$4.8 billion in total dollar value of business done.

Most of the 26,367 construction establishments were small. Of the total, 20,771 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,133 construction establishments with 5 employees or more, while representing only 8 percent of all establishments, accounted for more than 75 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$4.3 billion in total dollar value of business done. Of this amount, \$4.2 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$995 million, leaving net value of construction work of \$3.2 billion. In addition, these establishments paid out \$1.6 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1992 was \$1.9 billion. (See Introduction and appendixes for explanation of terms.)

There were 5,596 establishments with total employment averaging 43,687 during the year. Total payroll for 1992 was \$933 million.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 20,771 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$557 million. Most of these establishments, about 84 percent, were special trade contractors.

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

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

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

1992 
1987 

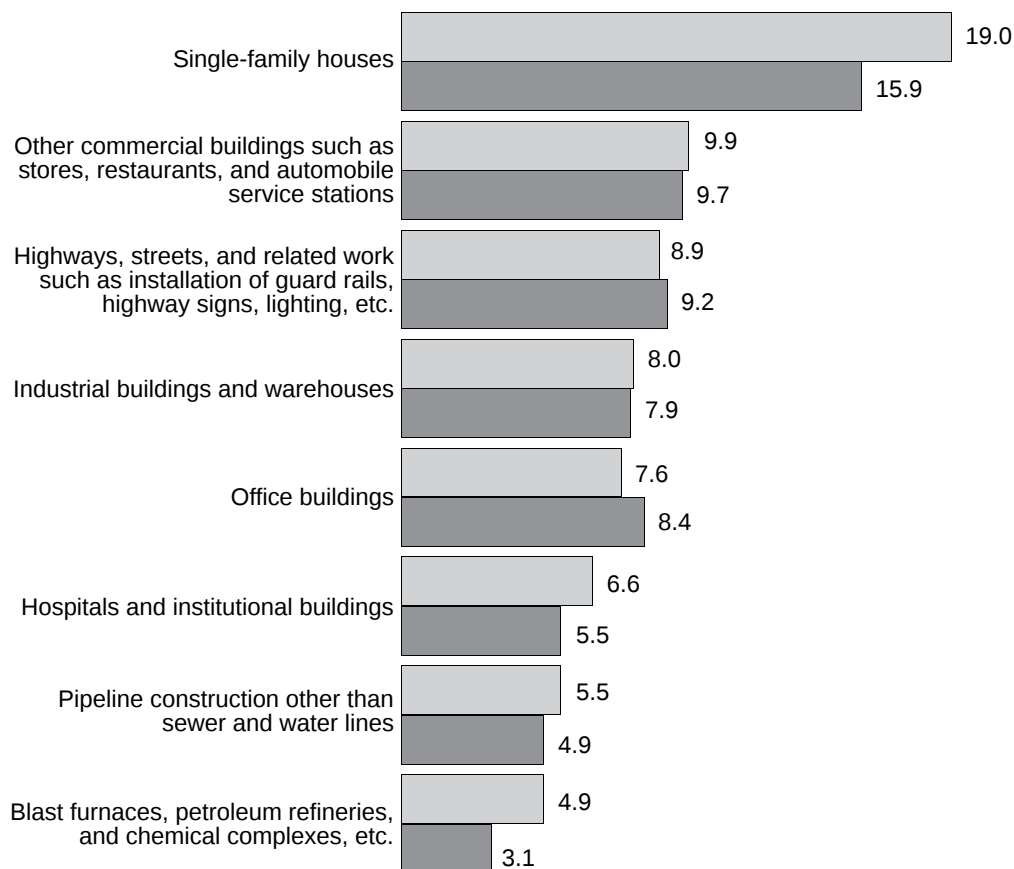


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

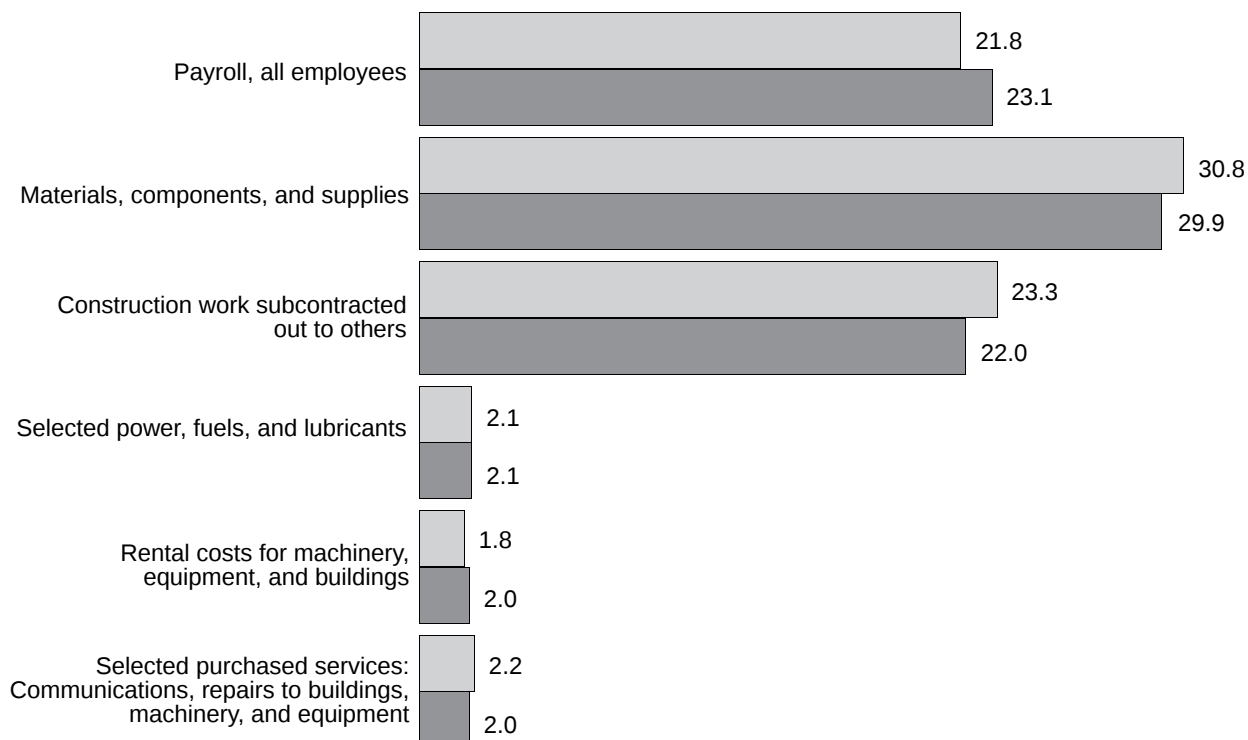


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column —	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1992													
15, 16, 17	Construction industries -----	26 367	22 995	43 687	4 833 961	20 771	20 373	556 699	5 596	2 622	43 687	4 277 262	1	1
15	Building construction—General contractors and operative builders ----	3 959	2 947	8 907	1 690 118	2 742	2 464	191 460	1 217	483	8 907	1 498 658	3	3
16	Heavy construction other than building construction—contractors -----	1 351	963	10 207	1 105 706	666	657	16 558	685	306	10 207	1 089 148	2	2
17	Special trade contractors -----	21 058	19 086	24 573	2 038 137	17 363	17 252	348 681	3 695	1 834	24 573	1 689 456	2	2
1711	Plumbing, heating, and air-conditioning --	2 683	2 170	5 235	491 321	1 726	1 707	55 077	957	(S)	5 235	436 244	4	3
1731	Electrical work -----	1 635	1 205	4 443	343 239	1 056	1 031	23 484	579	174	4 443	319 755	3	3
	1987													
15, 16, 17	Construction industries ² -----	31 097	26 713	38 728	4 061 546	25 893	25 451	931 706	5 204	1 262	38 728	3 129 840	1	2
15	Building construction—General contractors and operative builders ----	5 582	4 306	7 639	1 372 764	4 511	4 138	336 791	1 071	168	7 639	1 035 973	4	4
16	Heavy construction other than building construction—contractors -----	1 405	797	10 582	893 411	685	678	41 705	720	119	10 582	851 706	2	2
17	Special trade contractors -----	23 471	21 071	20 135	1 700 949	20 147	20 102	484 388	3 324	969	20 135	1 216 561	2	2
1711	Plumbing, heating, and air-conditioning --	3 083	2 415	4 858	435 226	2 193	2 174	72 463	890	241	4 858	362 763	3	3
1731	Electrical work -----	1 954	1 455	4 006	273 844	1 361	1 345	39 745	593	110	4 006	234 099	4	3

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

²Includes data for "Land Subdividers and Developers," SIC 6552.

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

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

SIC code	Industry	1992							
		Number of establish- ments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹ -----	5 596	43 687	34 294	933 174	674 857	4 215 793	3 220 952	1 875 399
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	590	2 262	1 570	36 684	21 095	298 739	211 328	120 407
1522	Other residential buildings -----	22	121	101	1 714	1 395	9 770	7 033	4 543
1531	Operative builders -----	152	465	*232	11 758	*4 735	184 859	109 693	48 216
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	77	924	715	24 186	17 279	117 745	75 083	46 048
1542	Nonresidential buildings, n.e.c. -----	375	5 136	3 735	98 901	63 277	870 775	372 697	169 856
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	151	3 013	2 518	69 503	50 930	380 351	322 154	142 057
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	29	691	607	17 825	14 265	93 399	76 335	40 173
1623	Water, sewer, and utility lines -----	216	3 456	2 850	115 030	88 234	340 756	292 327	228 901
1629	Heavy construction, n.e.c. -----	288	3 047	2 414	71 483	52 666	261 921	236 594	161 920
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	957	5 235	3 853	108 461	76 436	432 174	392 416	199 734
1721	Painting and paper hanging -----	306	1 278	1 082	21 934	17 345	64 939	59 922	43 530
1731	Electrical work -----	579	4 443	3 464	102 082	74 703	311 558	300 054	180 292
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	142	1 492	1 361	33 753	29 406	90 123	(D)	53 499
1742	Plastering, drywall, and insulation work -----	200	1 533	1 238	26 703	20 835	83 953	71 667	42 909
1743	Terrazzo, tile, marble, and mosaic work -----	46	231	174	4 610	3 117	14 887	14 582	9 348
175	Carpentry and floor work:								
1751	Carpentry -----	357	1 634	1 367	27 623	21 855	113 511	85 835	56 777
1752	Floor laying and other floor work -----	78	367	288	6 090	4 544	25 570	23 475	10 928
1761	Roofing, siding, and sheet metal work -----	257	2 008	1 566	39 678	28 121	139 261	132 337	78 925
1771	Concrete work -----	215	1 335	1 145	18 322	14 837	71 829	65 404	42 627
1781	Water well drilling -----	41	147	115	1 766	1 239	7 374	7 343	4 554
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	64	854	693	19 916	14 125	56 143	50 846	32 421
1793	Glass and glazing work -----	53	328	227	6 363	3 671	19 427	19 291	10 439
1794	Excavation work -----	64	369	304	7 123	5 325	40 503	32 980	25 364
1795	Wrecking and demolition work -----	13	100	76	2 871	1 769	10 489	10 460	7 716
1796	Installing building equipment, n.e.c. -----	34	705	592	13 689	11 237	44 963	(D)	30 440
1799	Special trade contractors, n.e.c. -----	290	2 514	2 007	45 106	32 417	130 774	122 058	83 774

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
1 407 022	994 841	1 035 484	77 283	81 453	685 706	38 728	3 030 883	1 421 363	1	1	4	15, 16, 17
												15
95 966 2 490	87 411 2 738	*8 976 *133	(S) 29	1 395 73	15 859 1 168	1 700 250	173 060 28 203	55 181 *9 023	11 34	13 18	24 23	152 1521 1522
66 214	75 166	298	331	*1 298	6 504	*645	108 305	*23 825	32	17	53	1531
29 816 209 048	42 662 498 078	4 007 8 081	866 11 081	*1 156 5 332	8 713 46 362	592 4 452	57 246 640 077	21 728 150 301	14 3	12 3	40 19	154 1541 1542
												16
185 350	58 198	80 377	11 093	14 428	132 258	3 048	323 558	164 600	3	2	12	1611
38 067 65 562 78 099	17 064 48 430 25 327	16 766 60 260 22 036	2 799 18 874 5 424	1 828 14 764 7 486	30 683 136 702 57 107	649 3 097 3 788	62 085 224 745 203 689	34 913 164 829 105 203	7 4 5	6 4 4	8 9 8	162 1622 1623 1629
												17
196 752	39 758	261 863	6 316	8 516	65 072	4 858	357 830	184 434	4	3	14	1711
16 395	5 017	26 330	731	1 295	9 010	998	43 812	32 356	7	7	10	1721
127 960	11 504	152 456	4 440	5 956	42 597	4 006	231 531	129 881	3	3	18	1731
(D) 29 310 (D)	(D) (S) 305	38 364 50 752 11 255	(S) 774 55	2 461 *1 183 68	7 732 10 208 2 525	515 1 397 150	19 320 74 300 9 105	12 162 42 728 4 955	2 8 15	(D) 8 15	8 52 (Z)	174 1741 1742 1743
30 135 13 133	27 676 2 095	56 631 12 628	791 270	2 191 607	9 075 2 901	844 223	44 787 13 327	25 168 6 641	7 18	9 11	17 7	175 1751 1752
54 343	6 924	56 509	1 264	1 283	21 981	2 179	123 105	67 499	6	6	22	1761
(D)	6 425	41 233	1 371	*1 487	15 012	1 169	52 610	31 456	10	9	45	1771
3 291	31	1 191	80	303	4 249	115	5 956	3 798	12	10	1	1781
23 176 11 513 (S) 3 352 14 438 43 293	5 297 136 7 523 *28 (D) 8 715	19 958 11 784 22 543 6 865 9 420 54 770	1 265 338 2 495 716 498 2 932	1 220 260 2 473 948 290 3 151	14 109 3 509 12 064 7 515 2 067 20 725	641 349 585 131 279 1 696	39 927 19 919 27 394 8 336 22 697 99 724	26 582 10 506 21 975 7 713 17 533 58 742	10 5 17 35 3 8	10 5 14 26 (D) 8	25 31 19 20 3 22	179 1791 1793 1794 1795 1796 1799

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	5 596	5 204	7 081	6 970	1	1	2	3
Proprietors and working partners.....	2 622	1 262	2 522	4 674	3	7	4	5
All employees**	43 687	38 728	63 606	51 848	1	1	1	1
Construction workers:								
March.....	32 525	28 590	51 657	41 269	1	2	1	2
May	34 299	31 446	52 875	46 466	1	2	1	2
August	36 417	31 848	54 038	46 740	1	2	1	2
November.....	33 936	29 690	51 014	42 940	1	2	2	2
Average	34 294	30 393	52 980	44 393	1	2	1	1
Other employees:								
March.....	9 497	8 431	10 379	7 260	2	2	2	2
May	9 306	8 192	(NA)	(NA)	2	2	(NA)	(NA)
August	9 372	8 378	(NA)	(NA)	2	2	(NA)	(NA)
November.....	9 397	8 337	(NA)	(NA)	2	2	(NA)	(NA)
Average	9 393	8 334	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	933 174	724 364	1 065 202	579 070	1	1	1	1
Payroll, construction workers	674 857	531 469	831 850	462 678	1	1	1	1
Payroll, other employees	258 317	192 895	233 352	116 392	1	2	1	1
First-quarter payroll, all employees	206 198	160 073	241 577	126 530	1	2	1	1
Fringe benefits, all employees	198 653	144 910	185 664	95 904	1	1	1	1
Legally required expenditures.....	145 824	109 736	139 651	66 839	2	2	1	1
Voluntary expenditures.....	52 829	35 173	46 012	29 066	2	2	1	1
Dollar value of business done	4 277 262	3 129 840	4 348 906	2 468 733	1	2	1	1
Value of construction work	4 215 793	3 030 883	4 236 025	2 366 954	1	2	1	1
Value of construction work subcontracted in from others	1 035 484	639 344	1 017 740	567 849	3	3	2	2
Other business receipts	61 469	78 089	80 437	101 779	7	6	3	3
Net value of construction†	3 220 952	2 342 871	3 332 003	1 904 216	1	1	1	1
Value added††	1 875 399	1 421 363	2 038 342	1 097 580	1	2	1	1
Selected costs	2 401 863	1 687 609	2 278 119	1 348 946	2	2	1	2
Materials, components, and supplies	1 315 468	934 337	1 276 934	835 823	1	2	1	1
Construction work subcontracted out to others	994 841	688 011	904 021	462 738	3	4	1	3
Selected power, fuels, and lubricants	91 554	65 260	97 164	50 385	2	2	2	2
Electricity.....	12 871	8 539	9 925	5 360	5	4	2	3
Natural gas	5 803	3 299	4 223	3 384	5	4	2	7
Gasoline and diesel fuel	66 624	49 055	76 197	35 310	2	2	2	2
On highway use	42 644	32 376	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use.....	23 981	16 678	(NA)	(NA)	4	3	(NA)	(NA)
Other, including lubricating oils and greases.....	6 255	4 367	6 818	5 331	4	7	4	4
Rental cost for machinery, equipment, and buildings	77 283	62 781	64 361	30 995	4	3	2	2
For machinery and equipment	61 483	46 157	50 194	25 722	5	4	2	2
For buildings.....	15 800	16 624	14 167	5 273	5	5	3	3
Selected purchased services	93 316	62 633	84 195	51 843	3	4	2	2
Communication services	21 074	15 809	17 795	10 583	4	5	2	3
Repairs to buildings and other structures	4 386	2 720	4 596	2 275	13	8	5	8
Repairs to machinery and equipment	67 856	44 103	61 804	38 985	3	4	2	2
Ownership of construction projects:								
Value of construction work	4 215 793	3 030 883	4 236 025	2 366 954	1	2	1	1
Government owned	1 145 177	929 159	615 375	516 807	4	3	5	1
Federal	387 610	282 087	(NA)	(NA)	5	5	(NA)	(NA)
State and local	757 567	647 071	(NA)	(NA)	5	4	(NA)	(NA)
Privately owned	3 070 616	2 101 723	3 620 649	1 850 147	3	3	1	1

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

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

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

Item			Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	649 032	557 468	3	3
Capital expenditures, other than land -----	81 453	49 442	4	5
New -----	60 435	28 947	5	7
Used -----	21 018	20 495	8	7
Retirements and disposition of depreciable assets -----	44 779	39 541	14	15
End-of-year gross book value of depreciable assets -----	685 706	567 369	3	3
Depreciation charges during year -----	71 561	67 275	3	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	78 405	96 836	6	7
Capital expenditures, other than land -----	8 212	5 656	16	13
New buildings and other structures -----	5 492	3 708	16	19
Used buildings and other structures -----	2 720	1 948	36	11
Retirements and disposition of depreciable assets -----	6 699	*8 721	38	62
End-of-year gross book value of depreciable assets -----	79 918	93 771	5	5
Depreciation charges during year -----	6 255	7 157	7	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	570 626	460 632	3	3
Capital expenditures, other than land -----	73 241	43 785	4	5
New machinery and equipment, including automobiles and trucks -----	54 943	25 239	5	7
New automobiles and trucks, intended primarily for highway use -----	19 139	12 634	6	8
Used machinery and equipment, including automobiles and trucks -----	18 298	18 546	7	7
Retirements and disposition of depreciable assets -----	38 080	30 819	15	7
End-of-year gross book value of depreciable assets -----	605 788	473 598	3	3
Depreciation charges during year -----	65 306	60 117	4	3

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	5 596	1
Value of construction work	4 215 793	1
Establishments with inventories:		
Number	1 649	3
Value of construction work	1 339 984	2
Inventories ¹ :		
End of 1992, materials and supplies	46 933	7
End of 1991, materials and supplies	46 079	8
Establishments with no inventories:		
Number	2 011	3
Value of construction work	1 867 155	2
Establishments not reporting:		
Number	1 936	3
Value of construction work	1 008 654	2

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments -----	5 596	3 463	1 094	594	334	82	19	8	1	1
All employees** -----	43 687	6 319	6 938	7 829	9 874	5 498	2 673	4 555	(D)	(D)
Payroll, all employees -----	933 174	94 607	114 604	166 745	227 643	132 894	73 935	122 747	(D)	(D)
Dollar value of business done -----	4 277 262	671 634	491 979	711 093	1 016 507	583 785	308 477	493 787	(D)	(D)
Value of construction work -----	4 215 793	662 971	483 812	694 075	1 001 691	576 772	302 685	493 787	(D)	(D)
Net value of construction work† -----	3 220 952	499 383	404 043	543 687	761 670	458 215	553 955	(D)	(D)	(D)
Value added†† -----	1 875 399	276 892	237 065	322 886	422 729	266 853	121 970	227 005	(D)	(D)
Cost of materials, components, supplies, and fuels -----	1 407 022	231 155	175 145	237 818	353 758	198 375	210 772	(D)	(D)	(D)
Cost of construction work subcontracted out to others -----	994 841	163 588	79 769	150 389	240 021	118 557	242 517	(D)	(D)	(D)
Rental cost for machinery, equipment, and buildings -----	77 283	6 056	11 646	10 408	15 392	10 718	11 554	11 508	(D)	(D)
Capital expenditures, other than land -----	81 453	10 341	9 162	12 178	20 973	15 095	3 964	9 740	(D)	(D)
End-of-year gross book value of depreciable assets -----	685 706	86 559	86 684	99 962	147 157	135 645	85 153	44 546	(D)	(D)
1987										
All employees** -----	38 728	6 072	7 305	6 974	8 678	4 258	2 933	2 505	(D)	—
Value of construction work -----	3 030 883	479 640	449 230	516 960	752 190	431 437	401 424	(D)	(D)	—
Value added†† -----	1 421 363	191 038	232 612	263 688	338 629	157 484	164 030	73 880	(D)	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	4	6	6	4	(Z)	(Z)	(Z)	(D)	(D)
Net value of construction work† -----	1	6	6	6	3	(Z)	(Z)	(D)	(D)	(D)
Capital expenditures, other than land -----	4	15	16	12	5	(Z)	(Z)	(Z)	(D)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments -----	5 596	(S)	(S)	764	1 635	783	623	509	211	81	49
All employees** -----	43 687	(S)	(S)	1 395	5 183	4 376	5 726	7 802	6 499	4 147	7 641
Payroll, all employees -----	933 174	(S)	(S)	14 214	67 382	71 368	114 461	171 889	161 687	107 183	217 447
Dollar value of business done -----	4 277 262	(S)	(S)	55 049	260 817	269 684	441 982	768 093	736 856	551 543	1 167 995
Value of construction work -----	4 215 793	(S)	(S)	53 899	257 883	265 230	433 048	752 353	720 377	542 976	1 164 972
Net value of construction work† -----	3 220 952	(S)	(S)	50 212	235 481	236 878	375 533	601 003	568 917	401 148	728 632
Value added†† -----	1 875 399	(S)	(S)	30 201	144 131	138 551	217 796	352 460	328 874	222 035	427 036
Cost of materials, components, supplies, and fuels -----	1 407 022	(S)	(S)	21 161	94 283	102 780	166 671	264 284	256 522	187 680	304 619
Cost of construction work subcontracted out to others -----	994 841	(S)	(S)	3 687	(S)	28 353	57 516	151 350	151 461	141 828	436 340
Rental cost for machinery, equipment, and buildings -----	77 283	(S)	(S)	644	3 894	4 971	11 440	10 092	11 119	9 891	24 628
Capital expenditures, other than land -----	81 453	(S)	(S)	1 235	5 226	6 511	10 488	11 913	16 175	10 998	18 527
End-of-year gross book value of depreciable assets -----	685 706	(S)	(S)	15 835	47 200	62 485	78 397	96 778	103 463	109 266	168 934
1987											
All employees** -----	38 728	(S)	(S)	(S)	5 185	4 493	5 609	6 950	4 774	4 000	4 882
Value of construction work -----	3 030 883	(S)	(S)	(S)	226 657	270 448	372 180	615 570	447 288	400 491	608 704
Value added†† -----	1 421 363	(S)	(S)	(S)	130 097	132 947	196 795	292 406	212 717	152 855	252 633
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	10	7	7	6	5	2	1	(Z)
Net value of construction work† -----	1	(S)	(S)	8	6	7	6	6	5	2	(Z)
Capital expenditures, other than land -----	4	(S)	(S)	24	19	22	13	11	5	(Z)	(Z)

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

OK-10 OKLAHOMA

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair				
	A	B	C	D	A	B	C	D
1992								
Value of construction work	4 215 793	2 369 514	984 430	705 478	1	2	2	2
Building construction	2 693 907	1 598 359	718 298	377 249	2	3	3	4
Single-family houses	799 540	526 420	154 142	118 977	6	8	8	6
Single-family houses, detached	760 890	511 097	142 082	107 711	6	9	9	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	38 649	15 323	12 061	11 266	13	21	17	16
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	37 764	3 712	(S)	19 319	8	5	(S)	10
Office buildings	320 659	141 021	133 418	46 221	4	5	7	8
Other commercial buildings such as stores, restaurants, and automobile service stations	419 252	259 138	105 322	54 792	4	5	8	7
Industrial buildings and warehouses	338 679	172 692	102 786	63 201	5	8	7	11
Industrial buildings	282 202	140 811	85 578	55 812	6	9	7	12
Warehouses	56 478	31 880	17 208	7 389	7	9	14	20
Religious buildings	79 213	47 521	24 101	7 592	5	5	13	7
Educational buildings	199 290	118 546	58 184	22 561	6	6	9	18
Hospitals and institutional buildings	279 253	176 102	82 125	21 025	2	2	5	4
Amusement, social, and recreational buildings, indoors	26 876	18 871	5 036	2 969	7	7	19	18
Other nonresidential buildings	193 380	134 337	38 451	20 593	3	3	7	8
Nonbuilding construction	1 365 514	771 154	266 131	328 229	1	2	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	376 401	198 006	121 512	56 883	2	3	4	6
Airport runways and related work	28 608	6 890	(D)	(D)	1	4	(D)	(D)
Private driveways and parking areas	28 877	15 667	5 537	*7 674	20	16	28	41
Bridges, tunnels, and elevated highways	83 674	73 635	(D)	(D)	5	5	(D)	(D)
Conservation and development construction	22 238	(S)	642	4 392	26	(S)	14	27
Power and communication transmission lines, towers, and related facilities	89 730	60 163	16 192	13 376	11	12	12	18
Sewers, water mains, and related facilities	106 072	70 647	14 229	21 196	9	11	14	20
Sewers, sewer lines, septic systems, and related facilities	62 781	36 177	7 311	19 292	9	8	15	22
Water mains and related facilities	43 291	34 469	6 918	1 904	16	19	15	20
Pipeline construction other than sewer or water lines	231 213	155 842	41 236	34 136	2	1	3	3
Blast furnaces, petroleum refineries, chemical complexes, etc.	206 951	61 921	16 915	128 114	2	3	11	1
Power plants	22 592	4 309	6 077	(S)	6	(Z)	8	(S)
Sewage treatment and water treatment plants	47 806	30 531	(S)	5 101	9	12	(S)	16
Oilfields	51 520	36 695	5 357	9 468	18	24	28	16
Other nonbuilding construction	69 831	39 645	7 651	22 535	8	11	10	6
Construction work, n.s.k.	156 372	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1987								
Value of construction work	3 030 883	1 673 061	720 599	476 121	2	2	2	3
Building construction	1 887 511	1 117 579	489 679	276 357	3	4	3	4
Single-family houses	481 964	300 765	98 287	82 911	6	9	7	6
Single-family houses, detached	440 504	274 014	93 038	73 451	7	10	8	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	41 460	26 750	5 248	9 460	14	19	10	18
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	61 098	33 151	14 572	13 373	17	30	16	10
Office buildings	254 407	126 744	86 992	40 671	4	4	6	7
Other commercial buildings such as stores, restaurants, and automobile service stations	292 522	185 163	60 579	46 779	5	5	7	11
Industrial buildings and warehouses	239 000	126 680	73 866	38 453	4	4	7	10
Industrial buildings	200 527	103 014	64 155	33 358	5	5	7	11
Warehouses	38 472	23 666	9 711	5 094	6	6	18	10
Religious buildings	45 455	27 742	11 298	6 414	5	6	11	11
Educational buildings	205 282	134 401	57 634	13 247	4	5	3	8
Hospitals and institutional buildings	167 261	109 212	46 184	11 865	18	20	17	7
Amusement, social, and recreational buildings, indoors	27 769	22 064	3 189	2 516	7	7	14	30
Other nonresidential buildings	112 753	55 084	37 337	20 338	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	982 271	552 055	230 661	199 554	2	2	4	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	279 683	139 210	82 725	57 747	4	5	7	6
Power and communication transmission lines, towers, and related facilities	46 387	31 830	7 234	7 323	9	10	10	26
Sewers, water mains, and related facilities	70 713	51 646	10 560	8 506	9	11	10	19
Sewers, sewer lines, septic systems, and related facilities	35 024	25 328	4 514	5 181	13	16	21	23
Water mains and related facilities	35 688	26 317	6 045	3 325	9	11	3	32
Pipeline construction other than sewer or water lines	149 112	85 094	54 680	9 337	3	2	2	18
Blast furnaces, petroleum refineries, chemical complexes, etc.	94 825	39 734	8 457	46 633	4	5	8	5
Power plants	26 211	17 857	3 128	5 226	1	1	(Z)	1
Sewage treatment and water treatment plants	32 691	16 172	12 986	3 531	12	7	26	34
Oilfields	33 457	19 378	6 152	7 926	15	17	24	19
Other nonbuilding construction	249 192	151 134	44 739	53 325	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	161 101	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

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

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

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

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers ¹				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December						
		A	B	C	D	E	F	A	B	C	D	E	F
15, 16, 17	Construction industries -----	5 596	34 294	32 525	34 299	36 417	33 936	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	590	1 570	1 394	1 657	1 711	1 520	6	12	13	12	12	13
1522	Other residential buildings -----	22	101	89	101	*124	*89	26	37	35	23	45	42
1531	Operative builders -----	152	*232	*233	*252	*243	*203	15	58	55	54	59	60
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	77	715	666	691	749	757	20	16	16	18	19	14
1542	Nonresidential buildings, n.e.c. ----	375	3 735	3 736	3 721	3 711	3 774	7	3	3	4	4	3
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	151	2 518	2 309	2 549	2 661	2 551	11	3	3	3	3	4
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	29	607	593	611	597	626	18	7	6	6	7	9
1623	Water, sewer, and utility lines -----	216	2 850	2 248	2 772	3 653	2 727	10	4	5	5	3	5
1629	Heavy construction, n.e.c. -----	288	2 414	2 507	2 462	2 385	2 302	8	5	4	4	5	5
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	957	3 853	3 685	3 988	4 103	3 636	3	4	4	4	4	4
1721	Painting and paper hanging -----	306	1 082	948	1 100	1 181	1 100	6	7	9	8	6	8
1731	Electrical work -----	579	3 464	3 297	3 440	3 645	3 476	4	3	3	3	3	4
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	142	1 361	1 472	1 194	1 235	1 542	5	2	4	3	3	2
1742	Plastering, drywall, and insulation work -----	200	1 238	1 205	1 238	1 239	1 269	10	8	9	8	8	7
1743	Terrazzo, tile, marble, and mosaic work -----	46	174	171	150	169	206	13	16	15	16	18	17
175	Carpentry and floor work:												
1751	Carpentry -----	357	1 367	1 045	1 244	1 634	1 544	7	7	10	9	7	6
1752	Floor laying and other floor work --	78	288	238	264	348	301	16	20	19	17	24	21
1761	Roofing, siding, and sheet metal work -----	257	1 566	1 516	1 529	1 659	1 562	6	6	7	6	6	7
1771	Concrete work -----	215	1 145	933	1 359	1 273	1 015	9	10	11	16	10	10
1781	Water well drilling -----	41	115	99	113	118	129	8	9	11	9	9	7
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	64	693	734	681	664	693	19	9	9	8	10	10
1793	Glass and glazing work -----	53	227	212	239	247	209	14	4	4	3	4	3
1794	Excavation work -----	64	304	294	302	316	305	18	17	17	16	17	18
1795	Wrecking and demolition work -----	13	76	69	76	84	76	38	39	29	39	35	33
1796	Installing building equipment, n.e.c. -----	34	592	743	489	637	497	13	3	2	4	4	4
1799	Special trade contractors, n.e.c. ----	290	2 007	2 090	2 078	2 030	1 829	10	8	7	8	8	8

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	7.8	21.4	122.9	.221	.334	.236	.246	.018
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.8	16.2	190.3	.123	.321	.293	*.030	(S)
1522	Other residential buildings -----	5.4	14.2	96.7	.175	.255	.280	*.014	.003
1531	Operative builders -----	3.1	25.3	*796.8	.064	.358	.407	.002	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	11.9	26.2	164.7	.205	.253	.362	.034	.007
1542	Nonresidential buildings, n.e.c. -----	13.7	19.3	233.1	.114	.240	.572	.009	.013
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	19.9	23.1	151.1	.183	.487	.153	.211	.029
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	23.7	25.8	153.9	.191	.408	.183	.180	.030
1623	Water, sewer, and utility lines -----	16.0	33.3	119.6	.338	.192	.142	.177	.055
1629	Heavy construction, n.e.c. -----	10.6	23.5	108.5	.273	.298	.097	.084	.021
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	5.5	20.7	112.2	.251	.455	.092	.606	.015
1721	Painting and paper hanging -----	4.2	17.2	60.0	.338	.252	.077	.405	.011
1731	Electrical work -----	7.7	23.0	89.9	.328	.411	.037	.489	.014
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	10.5	22.6	66.2	.375	(D)	(D)	.426	(S)
1742	Plastering, drywall, and insulation work -----	7.7	17.4	67.8	.318	.349	(S)	.605	.009
1743	Terrazzo, tile, marble, and mosaic work -----	5.1	20.0	85.6	.310	(D)	.020	.756	.004
175	Carpentry and floor work:								
1751	Carpentry -----	4.6	16.9	83.0	.243	.265	.244	.499	.007
1752	Floor laying and other floor work -----	4.7	16.6	88.8	.238	.514	.082	.494	.011
1761	Roofing, siding, and sheet metal work -----	7.8	19.8	88.9	.285	.390	.050	.406	.009
1771	Concrete work -----	6.2	13.7	62.7	.255	(D)	.089	.574	.019
1781	Water well drilling -----	3.6	12.0	64.1	.239	.446	.004	.161	.011
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	13.3	23.3	81.0	.355	.413	.094	.355	.023
1793	Glass and glazing work -----	6.2	19.4	85.6	.328	.593	.007	.607	.017
1794	Excavation work -----	5.8	19.3	133.2	.176	(S)	.186	.557	.062
1795	Wrecking and demolition work -----	7.7	28.7	138.0	.274	.320	.003	.654	.068
1796	Installing building equipment, n.e.c. -----	20.7	19.4	76.0	.304	.321	(D)	.209	.011
1799	Special trade contractors, n.e.c. -----	8.7	17.9	65.2	.345	.331	.067	.419	.022

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	OKLAHOMA CITY, OK MSA											
15,16,17	Construction industries	1 940	14 947	323 667	1 524 928	1 133 645	633 963	526 892	391 283	29 083	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	1 032	15 929	118 441	92 118	58 201	34 478	26 324	483	20	21
1522	Other residential buildings	6	*71	*829	*3 044	(D)	*1 352	*862	(D)	(D)	56	(D)
1531	Operative builders	64	181	4 913	105 198	62 454	20 728	43 807	42 743	798	18	24
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	34	248	6 152	45 212	22 901	11 385	11 693	22 311	427	17	13
1542	Nonresidential buildings, n.e.c.	114	1 716	42 320	370 742	158 735	88 812	74 471	212 007	2 812	4	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	65	989	23 526	122 496	107 175	41 486	68 402	15 321	4 532	5	6
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	14	220	5 538	24 696	21 247	9 835	11 599	3 449	798	19	17
1623	Water, sewer, and utility lines	67	726	16 837	69 084	58 923	34 884	24 555	10 162	2 573	10	9
1629	Heavy construction, n.e.c.	(S)	560	16 322	33 871	31 493	22 062	10 261	2 378	808	12	10
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	297	1 994	44 405	181 491	158 230	76 372	82 716	23 261	3 829	5	4
1721	Painting and paper hanging	118	524	9 666	33 151	29 446	21 951	7 498	3 705	761	12	12
1731	Electrical work	181	1 820	47 556	135 840	129 580	77 742	57 300	6 260	3 910	5	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	51	401	7 094	18 155	(D)	11 742	5 665	(D)	635	7	(D)
1742	Plastering, drywall, and insulation work	68	519	10 571	25 500	24 630	15 018	10 028	*871	(D)	15	15
1743	Terrazzo, tile, marble, and mosaic work	21	77	1 638	5 828	5 765	4 313	2 673	*63	(D)	6	6
175	Carpentry and floor work:											
1751	Carpentry	184	681	10 170	41 897	35 140	22 082	13 907	*6 758	1 311	14	14
1752	Floor laying and other floor work	35	150	2 538	7 633	7 322	4 707	2 903	311	(D)	29	18
1761	Roofing, siding, and sheet metal work	(S)	943	21 017	63 632	60 062	36 239	24 178	3 570	(S)	10	8
1771	Concrete work	77	534	7 473	27 488	24 777	15 049	9 728	2 711	*241	15	15
1781	Water well drilling	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	205	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	20	313	7 124	15 806	13 429	12 341	*4 702	*2 377	(D)	22	33
1793	Glass and glazing work	17	125	2 682	8 011	7 996	3 848	4 485	*15	(D)	9	8
1794	Excavation work	21	209	4 173	22 464	20 079	17 023	3 069	*2 385	1 668	25	18
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	9	96	2 859	8 599	4 872	3 849	3 849	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.	78	771	10 872	31 986	29 340	18 939	12 342	2 646	1 561	10	14
	TULSA, OK MSA											
15,16,17	Construction industries	1 508	14 756	355 817	1 497 279	1 158 912	713 020	462 646	338 367	26 505	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	42 214	(S)	(S)	(S)
1522	Other residential buildings	*11	46	800	6 273	(D)	2 991	1 451	(D)	43	24	(D)
1531	Operative builders	60	*223	*5 796	55 179	33 738	20 637	15 455	21 441	*468	63	26
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	*17	186	4 577	24 789	18 686	13 185	5 531	6 103	*388	17	13
1542	Nonresidential buildings, n.e.c.	106	1 229	28 106	225 589	96 105	38 162	59 108	129 484	1 881	7	7
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	25	887	22 779	112 751	91 351	50 140	42 184	21 400	3 073	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	51	1 342	68 224	191 435	(D)	136 727	22 829	(D)	6 731	5	(D)
1629	Heavy construction, n.e.c.	29	615	15 561	97 644	81 988	53 798	28 441	15 656	2 273	5	2

OK—14 OKLAHOMA

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	TULSA, OK MSA—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	268	1 833	40 686	159 474	145 877	75 863	71 517	13 597	3 174	7	6
1721	Painting and paper hanging	106	501	8 117	18 901	17 840	12 458	5 381	1 062	172	12	13
1731	Electrical work	178	1 489	32 925	106 922	103 137	60 502	43 799	3 785	999	5	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	34	932	24 915	66 318	(D)	37 561	24 785	(D)	1 748	2	(D)
1742	Plastering, drywall, and insulation work	68	774	13 359	46 654	36 806	21 639	15 295	(S)	329	9	8
1743	Terrazzo, tile, marble, and mosaic work	(S)	(D)	1 650	(D)	(D)	(D)	1 865	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	82	705	13 448	54 620	37 492	28 308	9 294	*17 129	609	8	12
1752	Floor laying and other floor work ...	26	93	(D)	5 589	5 192	3 030	(D)	397	147	21	18
1761	Roofing, siding, and sheet metal work	61	605	10 673	42 907	41 031	21 302	19 735	1 876	736	8	11
1771	Concrete work	(S)	323	5 127	16 252	14 440	10 426	4 013	1 812	123	25	18
1781	Water well drilling	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	20	320	7 851	23 037	21 532	10 821	11 552	1 505	707	9	8
1793	Glass and glazing work	18	136	2 330	(D)	(D)	3 930	3 915	(D)	(D)	6	(D)
1794	Excavation work	20	120	2 258	12 339	(D)	6 110	1 700	(D)	(D)	24	(D)
1795	Wrecking and demolition work	*9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ...	11	417	5 922	27 378	27 260	17 690	(D)	(S)	200	(Z)	(Z)
1799	Special trade contractors, n.e.c.	112	1 202	22 996	68 470	64 985	44 124	23 639	3 485	1 014	15	12

Contents

Texas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2

FIGURES

1. Value of Construction Work by Type of Construction	3
2. Selected Costs per Dollar Value of Business Done	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics by Industry: 1992 and 1987	5
--	---

Statistics for Establishments With Payroll

2. General Statistics by Industry: 1992 and 1987	6
3. Detailed Statistics: 1992 and Earlier Census Years	8
4. Assets, Capital Expenditures, and Depreciation: 1992 and 1987	9
5. Value of Inventories: 1992 and 1991	9
6. Selected Statistics by Employment Size Class: 1992 and 1987	10
7. Selected Statistics by Size Class of Dollar Value of Business Done: 1992 and 1987	10
8. Value of Construction Work by Type of Construction: 1992 and 1987	11
9. Quarterly Construction Worker Employment by Industry: 1992	12
10. Selected Industry Ratios in This State: 1992	13
11. Selected Statistics for Selected Metropolitan Areas: 1992	14

Summary of Findings

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

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

During 1992, there were 131,394 establishments in this State operating in the construction industries. These establishments accounted for \$40.5 billion in total dollar value of business done.

Most of the 131,394 construction establishments were small. Of the total, 102,284 were nonemployers, and over half of the employer establishments had less than 5 employees. The 12,590 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 83 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$37.7 billion in total dollar value of business done. Of this amount, \$36.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$9.3 billion, leaving net value of construction work of \$27.5 billion. In addition, these establishments paid out \$13.2 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1992 was \$16.4 billion. (See Introduction and appendixes for explanation of terms.)

There were 29,110 establishments with total employment averaging 335,521 during the year. Total payroll for 1992 was \$8.0 billion.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 102,284 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$2.9 billion. Most of these establishments, about 84 percent, were special trade contractors.

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

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

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

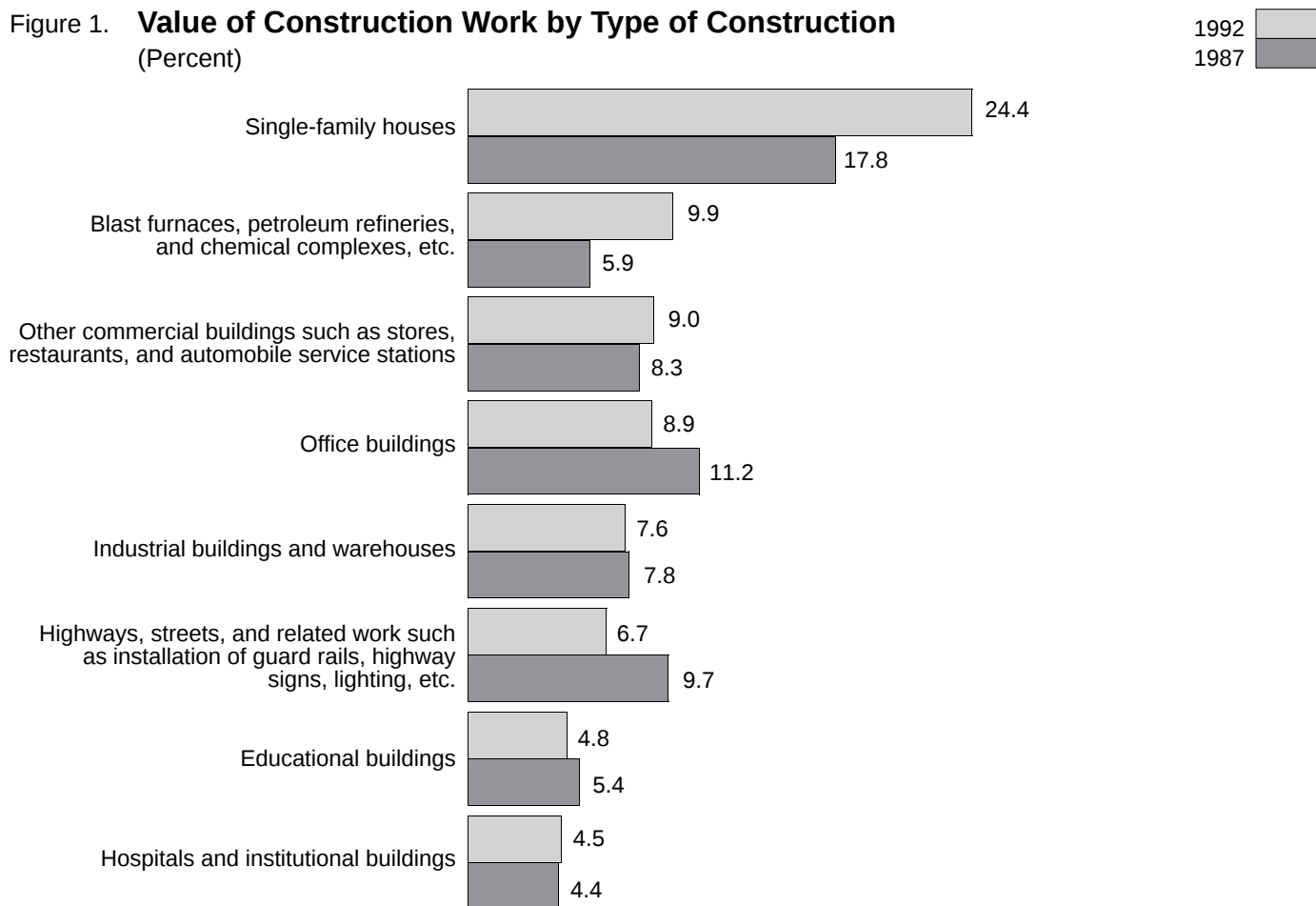


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

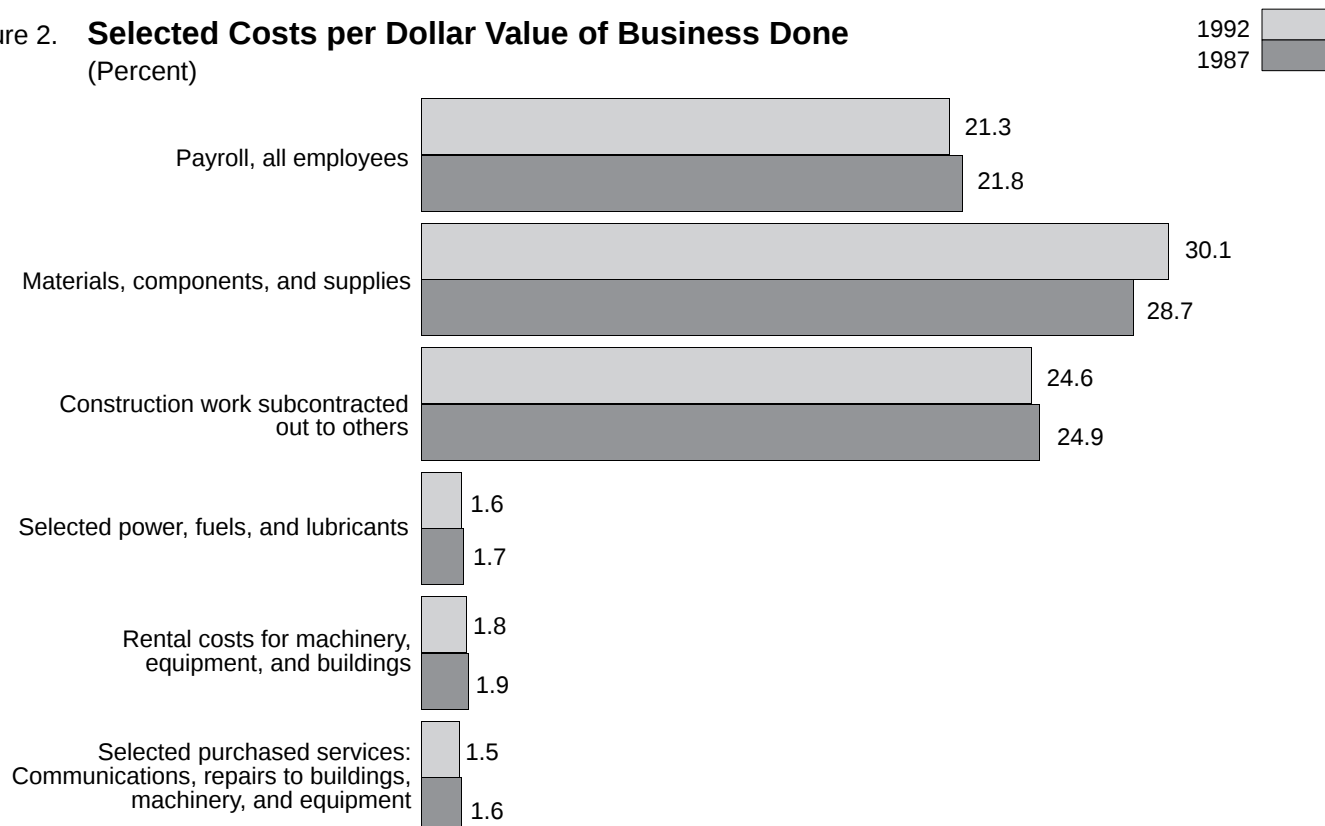


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column —	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1992													
15, 16, 17	Construction industries -----	131 394	113 813	335 521	40 539 593	102 284	100 770	2 883 824	29 110	13 043	335 521	37 655 769	(Z)	1
15	Building construction—General contractors and operative builders ----	20 186	14 305	56 196	15 439 283	13 349	12 057	947 492	6 837	2 248	56 196	14 491 791	1	1
16	Heavy construction other than building construction—contractors -----	5 309	3 430	104 390	10 105 745	2 596	2 519	78 051	2 713	911	104 390	10 027 694	1	1
17	Special trade contractors -----	105 898	96 078	174 936	14 994 564	86 339	86 194	1 858 281	19 559	9 884	174 936	13 136 283	1	1
1711	Plumbing, heating, and air-conditioning --	12 865	10 651	36 218	3 469 478	8 236	8 229	236 732	4 629	2 422	36 218	3 232 746	1	1
1731	Electrical work -----	8 043	6 280	33 662	2 912 980	5 144	5 103	106 076	2 899	1 177	33 662	2 806 904	1	1
	1987													
15, 16, 17	Construction industries ² -----	146 954	121 332	349 578	38 068 185	114 917	114 025	5 841 061	32 037	7 307	349 578	32 227 124	(Z)	1
15	Building construction—General contractors and operative builders ----	28 543	20 464	70 241	14 377 796	21 039	19 169	2 048 261	7 504	1 295	70 241	12 329 535	1	1
16	Heavy construction other than building construction—contractors -----	5 818	3 086	100 434	8 249 637	2 563	2 524	135 368	3 255	562	100 434	8 114 269	1	1
17	Special trade contractors -----	107 915	93 265	174 268	13 361 037	87 613	87 922	2 555 846	20 302	5 343	174 268	10 805 191	1	1
1711	Plumbing, heating, and air-conditioning --	14 175	10 937	36 415	3 076 238	9 656	9 670	345 312	4 519	1 267	36 415	2 730 926	1	1
1731	Electrical work -----	9 037	6 544	32 827	2 283 072	5 884	5 849	189 495	3 153	695	32 827	2 093 577	1	1

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

²Includes data for "Land Subdividers and Developers," SIC 6552.

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

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

SIC code	Industry	1992							
		Number of establish- ments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹ -----	29 110	335 521	261 195	8 012 865	5 605 753	36 731 358	27 465 448	16 444 347
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3 773	15 228	9 782	273 668	151 163	2 518 180	1 645 859	720 783
1522	Other residential buildings -----	255	2 357	1 745	48 937	29 691	431 541	235 859	132 976
1531	Operative builders -----	553	6 697	1 857	249 571	49 583	4 192 519	2 651 677	1 404 940
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	562	6 265	4 495	152 236	87 501	864 149	517 899	263 169
1542	Nonresidential buildings, n.e.c. -----	1 694	25 650	17 814	651 063	370 931	6 295 322	2 524 307	1 117 805
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	576	20 232	17 249	442 990	332 543	2 227 024	1 790 446	910 065
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	56	1 368	1 136	31 495	23 192	176 393	150 985	84 136
1623	Water, sewer, and utility lines -----	792	16 874	14 133	511 062	393 951	1 946 019	1 690 410	1 160 954
1629	Heavy construction, n.e.c. -----	1 289	65 915	53 842	1 987 962	1 520 257	5 153 334	4 507 245	3 579 148
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	4 629	36 218	26 938	878 467	610 917	3 198 146	2 884 020	1 584 673
1721	Painting and paper hanging -----	1 613	12 448	10 846	224 309	174 970	666 612	583 410	417 755
1731	Electrical work -----	2 899	33 662	26 194	804 653	567 424	2 764 654	2 651 816	1 709 420
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	891	8 438	7 292	137 413	112 214	443 457	399 280	235 541
1742	Plastering, drywall, and insulation work -----	826	10 489	8 681	208 612	159 034	707 091	614 901	368 672
1743	Terrazzo, tile, marble, and mosaic work -----	308	1 913	1 550	36 516	26 824	128 446	118 925	63 665
175	Carpentry and floor work:								
1751	Carpentry -----	1 539	6 951	5 645	125 238	95 825	462 146	392 344	241 918
1752	Floor laying and other floor work -----	417	2 371	1 705	44 178	28 056	225 698	201 305	105 415
1761	Roofing, siding, and sheet metal work -----	1 527	12 809	9 840	231 566	149 896	1 138 647	1 005 284	531 741
1771	Concrete work -----	1 420	13 725	11 644	208 667	154 515	815 285	724 629	393 851
1781	Water well drilling -----	266	1 300	973	22 071	16 191	101 275	99 558	56 893
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	293	4 672	3 905	110 676	82 785	311 941	283 818	191 947
1793	Glass and glazing work -----	335	2 205	1 548	48 213	31 323	150 407	148 028	75 516
1794	Excavation work -----	464	2 787	2 294	54 516	40 824	222 444	197 970	133 574
1795	Wrecking and demolition work -----	47	676	569	15 388	10 363	58 732	45 887	33 409
1796	Installing building equipment, n.e.c. -----	268	4 478	3 451	106 379	75 355	312 571	302 071	202 271
1799	Special trade contractors, n.e.c. -----	1 815	19 795	16 069	407 019	310 425	1 219 324	1 097 515	724 109

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
11 945 512	9 265 910	8 533 291	666 131	549 908	5 230 903	349 578	30 712 341	13 767 035	(Z)	1	3	15, 16, 17
												15
956 867 103 593	872 320 195 681	93 133 *29 402	14 690 2 478	21 327 2 139	213 656 16 808	13 373 3 049	1 408 821 476 460	503 828 126 529	3 7	4 8	13 17	152 1521 1522
1 326 352	1 540 843	12 057	10 635	32 008	170 849	8 519	3 020 431	936 402	4	2	2	1531
277 606 1 461 591	346 250 3 771 014	64 940 164 783	17 039 69 107	11 608 26 858	93 579 244 712	10 411 34 889	810 846 6 107 616	323 973 1 439 212	5 2	6 2	7 6	154 1541 1542
												16
930 340	436 577	431 170	69 526	81 505	755 544	31 776	3 069 721	1 404 933	2	1	4	1611
67 169 545 081 1 387 117	25 409 255 609 646 089	50 843 214 077 655 650	5 907 126 376 131 961	5 554 60 076 104 585	40 775 454 744 1 663 742	3 950 18 995 45 713	400 159 1 480 544 2 753 256	194 806 833 497 1 707 817	7 2 1	5 2 1	10 9 3	162 1622 1623 1629
												17
1 333 946	314 126	1 732 960	54 863	40 422	325 879	36 415	2 687 530	1 341 943	1	1	7	1711
167 913	83 202	341 350	12 228	6 941	67 006	12 022	494 542	340 316	3	4	10	1721
984 646	112 838	1 467 141	36 544	36 158	293 702	32 827	2 065 300	1 226 320	1	1	6	1731
166 133 249 662 55 739	44 177 92 190 9 521	291 116 550 783 113 143	4 875 6 094 1 395	6 580 6 887 1 968	45 006 51 806 19 067	9 084 14 452 2 241	430 236 865 240 124 339	256 004 435 449 69 729	4 3 6	5 3 6	15 13 33	174 1741 1742 1743
156 141 106 460	69 802 24 394	329 333 109 635	5 559 3 257	7 233 1 412	47 585 (S)	6 169 2 365	344 575 191 229	190 006 86 407	4 6	6 7	16 20	175 1751 1752
485 655	133 363	366 005	10 908	17 306	164 744	13 306	693 455	395 947	3	4	12	1761
332 104	90 656	486 319	22 581	13 052	106 058	15 107	836 458	428 244	3	4	9	1771
43 456	1 718	(S)	748	6 292	46 297	1 062	73 803	43 177	11	10	38	1781
105 350 84 049 65 456 13 165 107 346 432 576	28 123 2 378 24 474 12 845 10 500 121 809	178 843 105 256 152 668 25 230 75 775 463 831	12 939 2 910 8 688 3 779 4 980 26 064	6 654 1 918 9 252 1 512 3 607 37 056	51 641 18 408 76 744 12 520 32 230 194 837	4 916 3 234 3 978 687 3 508 12 895	305 417 202 590 266 629 46 756 266 297 709 892	232 634 108 834 169 881 38 992 197 318 424 871	4 5 8 14 2 3	3 6 7 5 2 3	17 17 23 (Z) 14 32	179 1791 1793 1794 1795 1796 1799

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	29 110	32 037	34 777	31 522	(Z)	1	1	1
Proprietors and working partners.....	13 043	7 307	11 488	21 097	1	3	2	2
All employees**	335 521	349 578	475 803	408 403	(Z)	(Z)	(Z)	(Z)
Construction workers:								
March.....	253 941	273 576	395 566	328 115	(Z)	(Z)	(Z)	(Z)
May	264 221	274 761	392 824	344 857	(Z)	(Z)	(Z)	1
August	271 214	283 834	398 724	354 398	1	1	1	1
November	255 405	269 001	373 187	344 202	1	1	(Z)	1
Average	261 195	275 293	392 751	343 095	(Z)	(Z)	(Z)	(Z)
Other employees:								
March.....	74 532	76 332	81 812	62 587	1	1	1	1
May	73 719	74 134	(NA)	(NA)	1	1	(NA)	(NA)
August	74 185	74 004	(NA)	(NA)	1	1	(NA)	(NA)
November	74 869	72 683	(NA)	(NA)	1	1	(NA)	(NA)
Average	74 326	74 288	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	8 012 865	7 025 641	8 727 378	4 915 923	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	5 605 753	5 038 201	6 711 262	3 820 993	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	2 407 113	1 987 440	2 016 116	1 094 930	(Z)	1	(Z)	(Z)
First-quarter payroll, all employees	1 849 857	1 712 865	2 076 017	1 091 592	(Z)	(Z)	(Z)	(Z)
Fringe benefits, all employees	1 793 518	1 344 917	1 516 641	764 282	1	(Z)	(Z)	(Z)
Legally required expenditures	1 318 141	1 025 764	1 151 545	530 999	1	(Z)	(Z)	1
Voluntary expenditures	475 377	319 152	365 095	233 284	1	1	(Z)	(Z)
Dollar value of business done	37 655 769	32 227 124	37 498 339	20 576 510	1	1	(Z)	(Z)
Value of construction work	36 731 358	30 712 341	35 936 332	19 442 626	1	(Z)	(Z)	(Z)
Value of construction work subcontracted in from others	8 533 291	6 416 630	7 419 140	3 813 710	2	1	1	1
Other business receipts	924 410	841 862	919 347	1 133 884	2	1	1	1
Net value of construction†	27 465 448	22 700 377	26 550 034	15 278 524	1	(Z)	(Z)	(Z)
Value added††	16 444 347	13 767 035	16 251 869	9 580 999	(Z)	1	(Z)	(Z)
Selected costs	21 211 422	17 787 168	20 603 810	10 662 254	1	1	(Z)	1
Materials, components, and supplies	11 337 305	9 241 252	10 553 062	6 190 548	1	1	(Z)	1
Construction work subcontracted out to others	9 265 910	8 011 964	9 386 297	4 164 102	1	1	(Z)	1
Selected power, fuels, and lubricants	608 208	533 952	664 450	307 605	1	1	(Z)	1
Electricity.....	106 332	82 504	96 299	37 590	1	1	1	2
Natural gas	25 984	15 329	24 315	15 901	2	2	2	3
Gasoline and diesel fuel	443 942	399 540	502 123	217 418	1	1	1	1
On highway use	299 975	268 252	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use	143 967	131 288	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases.....	31 950	36 578	41 711	36 705	2	1	1	2
Rental cost for machinery, equipment, and buildings	666 131	596 422	581 476	314 757	2	1	1	1
For machinery and equipment	512 948	425 527	469 051	269 189	2	2	1	1
For buildings.....	153 183	170 895	112 425	45 568	2	2	1	1
Selected purchased services	579 684	520 471	523 904	314 840	1	1	1	2
Communication services	164 239	140 475	123 262	80 089	2	1	1	4
Repairs to buildings and other structures	36 394	30 523	30 818	16 950	4	2	2	2
Repairs to machinery and equipment	379 052	349 471	369 823	217 801	2	1	1	2
Ownership of construction projects:								
Value of construction work	36 731 358	30 712 341	35 936 332	19 442 626	1	(Z)	(Z)	(Z)
Government owned	8 812 771	7 827 000	4 488 499	2 922 710	2	1	2	1
Federal	2 372 845	1 660 951	(NA)	(NA)	3	2	(NA)	(NA)
State and local	6 439 926	6 166 048	(NA)	(NA)	2	1	(NA)	(NA)
Privately owned	27 918 587	22 885 341	31 447 832	16 519 915	1	1	(Z)	(Z)

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

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

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

Item			Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	4 941 435	4 810 386	1	1
Capital expenditures, other than land -----	549 908	396 591	3	2
New -----	425 402	267 918	3	2
Used -----	124 506	128 672	5	2
Retirements and disposition of depreciable assets -----	260 439	550 004	7	6
End-of-year gross book value of depreciable assets -----	5 230 903	4 656 973	1	1
Depreciation charges during year -----	470 244	556 130	1	1
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	1 516 997	1 126 148	1	2
Capital expenditures, other than land -----	64 064	84 880	5	3
New buildings and other structures -----	50 157	56 355	4	3
Used buildings and other structures -----	13 907	28 524	13	7
Retirements and disposition of depreciable assets -----	20 250	66 830	14	5
End-of-year gross book value of depreciable assets -----	1 560 811	1 144 198	1	2
Depreciation charges during year -----	57 580	120 742	3	2
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	3 424 438	3 684 238	1	1
Capital expenditures, other than land -----	485 844	311 710	3	2
New machinery and equipment, including automobiles and trucks -----	375 245	211 563	3	2
New automobiles and trucks, intended primarily for highway use -----	119 695	88 875	3	3
Used machinery and equipment, including automobiles and trucks -----	110 599	100 147	5	2
Retirements and disposition of depreciable assets -----	240 189	483 174	7	6
End-of-year gross book value of depreciable assets -----	3 670 093	3 512 774	1	1
Depreciation charges during year -----	412 664	435 387	1	2

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	29 110	(Z)
Value of construction work	36 731 358	1
Establishments with inventories:		
Number	8 584	1
Value of construction work	13 593 071	1
Inventories ¹ :		
End of 1992, materials and supplies	482 893	4
End of 1991, materials and supplies	405 358	5
Establishments with no inventories:		
Number	9 931	2
Value of construction work	14 990 433	1
Establishments not reporting:		
Number	10 594	1
Value of construction work	8 147 854	1

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments	29 110	(S)	6 219	3 363	2 060	592	257	67	21	11
All employees**	335 521	32 071	40 294	44 902	60 521	40 412	37 770	23 304	14 310	41 938
Payroll, all employees	8 012 865	522 881	739 317	930 381	1 394 135	990 169	1 009 101	731 995	360 728	1 334 159
Dollar value of business done	37 655 769	4 178 963	3 915 265	4 509 859	6 697 865	4 859 922	5 263 680	3 488 411	1 560 997	3 180 806
Value of construction work	36 731 358	4 131 978	3 842 904	4 463 406	6 615 950	4 809 749	5 146 127	3 423 851	1 502 912	2 794 482
Net value of construction work†	27 465 448	2 957 027	2 951 607	3 405 351	4 880 059	3 606 833	3 452 712	2 394 635	1 296 987	2 520 238
Value added††	16 444 347	1 525 293	1 579 480	1 910 253	2 704 452	2 026 442	1 894 139	1 632 230	931 592	2 240 466
Cost of materials, components, supplies, and fuels	11 945 512	1 478 720	1 444 487	1 541 552	2 257 522	1 630 564	1 676 126	826 965	423 480	666 096
Cost of construction work subcontracted out to others	9 265 910	1 174 950	891 297	1 058 055	1 735 891	1 202 916	1 693 415	1 029 216	205 925	274 244
Rental cost for machinery, equipment, and buildings	666 131	54 177	53 031	71 239	109 520	88 899	106 456	87 685	37 417	57 708
Capital expenditures, other than land	549 908	52 105	55 472	82 904	96 385	74 029	81 315	27 003	80 695	(D)
End-of-year gross book value of depreciable assets	5 230 903	423 761	481 691	518 301	778 260	612 186	667 018	283 208	1 466 479	(D)
1987										
All employees**	349 578	(S)	41 097	48 489	69 852	42 948	40 433	21 425	16 112	32 969
Value of construction work	30 712 341	(S)	3 076 060	3 567 511	5 636 036	4 347 069	4 105 922	2 340 155	2 525 147	1 633 335
Value added††	13 767 035	(S)	1 397 201	1 750 351	2 585 174	1 784 674	1 777 361	1 026 097	955 332	1 052 300
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	(Z)	2	3	3	2	2	1	(Z)	(Z)	(Z)
Net value of construction work†	1	3	3	3	1	1	1	(Z)	(Z)	(Z)
Capital expenditures, other than land	3	8	8	15	3	1	(Z)	(Z)	(Z)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	29 110	(S)	(S)	(S)	7 376	5 172	3 657	3 177	1 240	653	514
All employees**	335 521	(S)	(S)	(S)	24 084	30 127	34 842	51 671	34 804	33 858	115 867
Payroll, all employees	8 012 865	(S)	(S)	(S)	318 260	484 639	657 399	1 140 481	846 596	884 871	3 580 475
Dollar value of business done	37 655 769	(S)	(S)	(S)	1 200 355	1 811 611	2 581 068	4 886 104	4 304 811	4 525 424	17 991 886
Value of construction work	36 731 358	(S)	(S)	(S)	1 184 636	1 789 903	2 535 273	4 809 541	4 243 563	4 478 189	17 340 418
Net value of construction work†	27 465 448	(S)	(S)	(S)	1 063 066	1 573 882	2 156 076	3 868 071	3 176 082	3 360 458	11 944 621
Value added††	16 444 347	(S)	(S)	(S)	650 411	950 208	1 263 028	2 144 526	1 732 359	1 867 354	7 634 862
Cost of materials, components, supplies, and fuels	11 945 512	(S)	(S)	(S)	428 375	645 382	938 843	1 800 109	1 504 971	1 540 339	4 961 227
Cost of construction work subcontracted out to others	9 265 910	(S)	(S)	(S)	(S)	216 021	379 197	941 469	1 067 481	1 117 731	5 395 797
Rental cost for machinery, equipment, and buildings	666 131	(S)	(S)	(S)	21 044	33 560	47 612	76 708	72 809	79 725	329 317
Capital expenditures, other than land	549 908	(S)	(S)	(S)	26 140	35 413	44 787	90 394	71 274	62 266	213 933
End-of-year gross book value of depreciable assets	5 230 903	(S)	(S)	(S)	195 284	296 613	382 011	619 951	535 382	537 668	2 599 979
1987											
All employees**	349 578	(S)	(S)	(S)	(S)	(S)	41 806	52 919	38 906	35 134	104 001
Value of construction work	30 712 341	(S)	(S)	(S)	(S)	(S)	2 714 952	4 522 501	3 690 868	3 590 042	12 755 015
Value added††	13 767 035	(S)	(S)	(S)	(S)	(S)	1 327 956	2 109 756	1 730 700	1 571 368	5 110 717
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	(Z)	(S)	(S)	(S)	3	3	3	2	2	1	(Z)
Net value of construction work†	1	(S)	(S)	(S)	3	3	3	2	3	3	(Z)
Capital expenditures, other than land	3	(S)	(S)	(S)	10	10	9	13	7	2	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair				
	A	B	C	D	A	B	C	D
1992								
Value of construction work	36 731 358	23 541 108	7 189 562	5 023 599	1	1	1	1
Building construction	24 243 420	16 085 759	5 536 870	2 620 790	1	1	2	2
Single-family houses	8 952 713	7 005 605	1 118 740	828 368	2	3	4	4
Single-family houses, detached	8 362 918	6 576 099	1 038 944	747 876	2	3	4	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	589 795	429 507	79 795	80 492	7	8	12	9
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	763 371	381 104	233 531	148 736	5	8	6	6
Other residential buildings, including hotels, motels, and tourist cabins	353 652	133 988	165 803	53 861	8	6	16	10
Office buildings	3 273 657	1 785 565	1 081 690	406 402	2	1	4	2
Other commercial buildings such as stores, restaurants, and automobile service stations	3 310 252	2 007 656	875 748	426 848	2	2	4	3
Industrial buildings and warehouses	2 804 127	1 629 920	735 232	438 976	2	2	3	3
Industrial buildings	2 199 292	1 237 583	603 515	358 194	2	2	3	4
Warehouses	604 836	392 337	131 717	80 782	4	5	6	4
Religious buildings	371 029	219 367	105 886	45 776	3	5	5	6
Educational buildings	1 777 231	1 182 811	499 721	94 698	2	2	5	4
Hospitals and institutional buildings	1 654 800	1 038 609	504 136	112 056	1	1	3	5
Amusement, social, and recreational buildings, indoors	343 676	277 287	47 602	18 786	3	2	12	8
Other nonresidential buildings	638 911	423 847	168 780	46 284	4	3	11	12
Nonbuilding construction	11 510 850	7 455 349	1 652 692	2 402 809	1	1	1	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	2 452 867	1 594 831	586 398	271 638	1	1	2	3
Outdoor swimming pools	214 193	177 201	20 081	16 911	10	10	15	15
Private driveways and parking areas	194 514	120 880	27 672	45 962	8	11	7	9
Bridges, tunnels, and elevated highways	266 941	203 521	40 069	23 351	2	2	7	3
Marine construction	325 068	257 451	22 700	(S)	3	2	15	(S)
Conservation and development construction	269 138	194 397	28 391	46 350	9	12	7	8
Power and communication transmission lines, towers, and related facilities	521 770	371 300	68 304	82 166	3	3	4	5
Sewers, water mains, and related facilities	855 176	627 308	134 790	93 078	3	3	6	15
Sewers, sewer lines, septic systems, and related facilities	511 055	365 049	82 320	63 686	4	3	7	22
Water mains and related facilities	344 120	262 259	52 470	29 391	5	5	6	10
Pipeline construction other than sewer or water lines	935 040	764 537	61 640	108 863	4	3	6	9
Blast furnaces, petroleum refineries, chemical complexes, etc.	3 646 172	1 891 806	388 293	1 366 073	1	1	1	1
Power plants	657 292	502 317	60 444	94 531	1	(Z)	1	3
Power plants, nuclear	192 574	(D)	(D)	(D)	(Z)	(D)	(D)	(D)
Power plants and cogeneration plants, except nuclear	464 718	(D)	(D)	(D)	1	(D)	(D)	(D)
Sewage treatment and water treatment plants	359 084	257 226	74 869	26 989	15	18	7	12
Other nonbuilding construction	813 594	492 574	139 041	181 979	5	7	7	5
Construction work, n.s.k.	977 089	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
1987								
Value of construction work	30 712 341	19 785 245	5 370 352	3 564 781	(Z)	1	1	1
Building construction	19 377 644	13 445 603	3 790 815	1 995 492	1	1	1	2
Single-family houses	5 456 226	4 062 358	833 944	559 924	2	2	3	3
Single-family houses, detached	5 055 687	3 805 191	761 249	489 246	2	2	3	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	400 539	257 166	72 694	70 678	6	8	7	7
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	1 035 794	841 658	99 946	94 188	4	5	7	5
Other residential buildings, including hotels, motels, and tourist cabins	492 293	325 415	93 974	72 902	3	3	5	7
Office buildings	3 443 079	2 292 477	814 020	336 581	1	1	2	2
Other commercial buildings such as stores, restaurants, and automobile service stations	2 538 015	1 695 386	589 011	253 617	2	2	3	3
Industrial buildings and warehouses	2 396 293	1 534 953	418 391	442 948	1	2	2	2
Industrial buildings	1 867 358	1 120 794	344 149	402 415	1	2	2	2
Warehouses	529 934	414 159	74 242	40 533	3	3	5	4
Religious buildings	387 297	262 004	90 052	35 240	3	3	5	5
Educational buildings	1 644 642	1 137 663	426 001	80 977	2	2	4	7
Hospitals and institutional buildings	1 337 573	914 612	340 523	82 436	1	2	3	3
Amusement, social, and recreational buildings, indoors	294 681	250 072	30 109	14 499	2	2	3	6
Other nonresidential buildings	351 751	219 702	84 054	48 008	5	4	13	14
Nonbuilding construction	9 342 733	6 248 945	1 550 327	1 543 461	1	1	1	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	2 993 346	2 011 261	702 384	279 700	1	1	2	3
Outdoor swimming pools	158 255	139 473	6 346	12 434	11	12	17	15
Power and communication transmission lines, towers, and related facilities	395 723	268 242	69 480	58 001	3	3	6	4
Sewers, water mains, and related facilities	1 061 273	869 442	108 599	83 231	2	3	4	5
Sewers, sewer lines, septic systems, and related facilities	571 775	462 315	59 933	49 526	3	3	5	6
Water mains and related facilities	489 497	407 126	48 666	33 704	3	3	4	8
Pipeline construction other than sewer or water lines	284 897	163 310	57 672	63 914	2	2	5	5
Blast furnaces, petroleum refineries, chemical complexes, etc.	1 807 209	951 356	224 947	630 905	1	2	1	1
Power plants	509 203	351 137	30 725	127 339	(Z)	(Z)	4	1
Sewage treatment and water treatment plants	421 660	286 808	111 497	23 354	4	5	3	8
Other nonbuilding construction	1 711 167	1 207 916	238 677	264 583	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	1 991 964	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

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

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

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

SIC code	Industry	Number of establishments	Average number of construction workers	Construction workers ¹				Relative standard error of estimate (percent) for column—					
				January to March	April to June	July to September	October to December						
		A	B	C	D	E	F	A	B	C	D	E	F
15, 16, 17	Construction industries -----	29 110	261 195	253 941	264 221	271 214	255 405	(Z)	(Z)	(Z)	(Z)	1	1
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	3 773	9 782	9 603	9 990	10 170	9 365	3	4	4	4	4	4
1522	Other residential buildings -----	255	1 745	1 855	1 897	1 851	1 378	13	7	6	8	8	8
1531	Operative builders -----	553	1 857	1 847	1 891	1 923	1 769	8	10	9	11	9	11
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	562	4 495	4 395	4 168	4 568	4 848	8	5	5	5	6	7
1542	Nonresidential buildings, n.e.c. ----	1 694	17 814	16 707	18 030	18 997	17 523	4	2	2	3	3	3
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	576	17 249	16 156	17 358	18 192	17 288	6	2	1	2	2	2
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	56	1 136	1 025	1 132	1 195	1 192	14	7	8	9	7	6
1623	Water, sewer, and utility lines -----	792	14 133	12 966	13 876	15 494	14 195	5	2	2	2	2	2
1629	Heavy construction, n.e.c. -----	1 289	53 842	55 648	55 692	52 812	51 218	5	1	1	1	1	1
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	4 629	26 938	25 948	27 641	28 351	25 813	1	1	1	1	1	1
1721	Painting and paper hanging -----	1 613	10 846	9 406	11 348	11 961	10 668	2	3	3	3	4	3
1731	Electrical work -----	2 899	26 194	25 029	25 819	27 728	26 199	2	1	1	1	2	2
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	891	7 292	7 515	7 419	7 384	6 849	3	4	4	5	4	4
1742	Plastering, drywall, and insulation work -----	826	8 681	8 592	8 463	8 995	8 675	5	3	3	3	3	4
1743	Terrazzo, tile, marble, and mosaic work -----	308	1 550	1 473	1 547	1 668	1 510	5	5	5	6	6	6
175	Carpentry and floor work:												
1751	Carpentry -----	1 539	5 645	5 196	5 740	6 024	5 620	4	4	5	5	4	4
1752	Floor laying and other floor work --	417	1 705	(S)	1 497	1 708	1 580	6	6	(S)	7	7	7
1761	Roofing, siding, and sheet metal work -----	1 527	9 840	9 871	9 724	10 358	9 408	3	4	4	4	4	4
1771	Concrete work -----	1 420	11 644	10 982	12 088	12 213	11 291	3	3	4	4	4	3
1781	Water well drilling -----	266	973	954	991	1 017	929	9	11	12	11	10	10
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	293	3 905	3 756	4 043	4 034	3 786	9	4	4	4	5	5
1793	Glass and glazing work -----	335	1 548	1 466	1 593	1 586	1 545	6	6	6	6	6	5
1794	Excavation work -----	464	2 294	2 175	2 221	2 466	2 314	8	8	8	8	8	8
1795	Wrecking and demolition work -----	47	569	636	547	584	508	18	15	21	13	11	12
1796	Installing building equipment, n.e.c. -----	268	3 451	3 942	3 177	3 350	3 334	7	2	3	2	3	3
1799	Special trade contractors, n.e.c. ----	1 815	16 069	14 763	16 330	16 582	16 599	4	3	3	4	4	3

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	11.5	23.9	140.6	.218	.325	.252	.232	.018
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.0	18.0	257.4	.109	.380	.346	.037	.006
1522	Other residential buildings -----	9.3	20.8	247.3	.113	.240	.453	*.068	.006
1531	Operative builders -----	12.1	37.3	2 257.7	.060	.316	.368	.003	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	11.1	24.3	192.2	.176	.321	.401	.075	.020
1542	Nonresidential buildings, n.e.c. -----	15.1	25.4	353.4	.103	.232	.599	.026	.011
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	35.1	21.9	129.1	.199	.418	.196	.194	.031
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	24.6	23.0	155.3	.179	.381	.144	.288	.033
1623	Water, sewer, and utility lines -----	21.3	30.3	137.7	.263	.280	.131	.110	.065
1629	Heavy construction, n.e.c. -----	51.1	30.2	95.7	.386	.269	.125	.127	.026
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.8	24.3	118.7	.275	.417	.098	.542	.017
1721	Painting and paper hanging -----	7.7	18.0	61.5	.336	.252	.125	.512	.018
1731	Electrical work -----	11.6	23.9	105.5	.291	.356	.041	.531	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	9.5	16.3	60.8	.310	.375	.100	.656	.011
1742	Plastering, drywall, and insulation work -----	12.7	19.9	81.5	.295	.353	.130	.779	.009
1743	Terrazzo, tile, marble, and mosaic work -----	6.2	19.1	82.9	.284	.434	.074	.881	.011
175	Carpentry and floor work:								
1751	Carpentry -----	4.5	18.0	81.9	.271	.338	.151	.713	.012
1752	Floor laying and other floor work -----	5.7	18.6	132.4	.196	.472	.108	.486	.014
1761	Roofing, siding, and sheet metal work -----	8.4	18.1	115.7	.203	.427	.117	.321	.010
1771	Concrete work -----	9.7	15.2	70.0	.256	.407	.111	.597	.028
1781	Water well drilling -----	4.9	17.0	104.1	.218	.429	.017	(S)	.007
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	15.9	23.7	79.9	.355	.338	.090	.573	.041
1793	Glass and glazing work -----	6.6	21.9	97.2	.321	.559	.016	.700	.019
1794	Excavation work -----	6.0	19.6	97.0	.245	.294	.110	.686	.039
1795	Wrecking and demolition work -----	14.3	22.8	103.2	.262	.224	.219	.430	.064
1796	Installing building equipment, n.e.c. -----	16.7	23.8	90.6	.340	.343	.034	.242	.016
1799	Special trade contractors, n.e.c. -----	10.9	20.6	75.9	.334	.355	.100	.380	.021

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DALLAS-FORT WORTH, TX CMSA											
15,16, 17	Construction industries	7 346	75 712	1 808 507	10 203 729	7 364 560	4 201 252	3 269 393	2 839 169	109 355	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	3 523	71 169	710 325	465 412	205 471	264 334	244 913	5 512	7	10
1522	Other residential buildings	45	352	7 518	76 827	32 960	20 564	12 636	*43 867	(S)	16	26
1531	Operative builders	215	2 712	91 975	1 635 006	1 100 083	589 102	528 110	534 923	4 641	4	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	129	1 045	24 146	167 193	90 642	50 318	41 973	76 552	(S)	10	9
1542	Nonresidential buildings, n.e.c.	484	7 074	203 684	2 146 928	821 181	348 749	484 307	1 325 747	5 136	3	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	118	5 319	125 421	627 130	486 290	249 409	253 589	140 840	19 681	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	12	413	10 089	82 929	70 353	34 724	35 652	12 576	3 421	(Z)	(Z)
1623	Water, sewer, and utility lines	162	3 898	128 985	456 272	395 470	262 811	132 872	60 802	8 630	4	3
1629	Heavy construction, n.e.c.	(S)	1 983	46 232	187 327	147 560	78 191	70 276	39 767	5 960	8	8
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	1 102	10 845	286 792	1 026 451	932 289	543 687	392 102	94 161	12 999	2	2
1721	Painting and paper hanging.....	(S)	2 400	44 012	125 787	109 689	78 014	31 772	16 098	1 013	6	6
1731	Electrical work	810	9 896	254 799	1 057 680	1 032 325	758 983	296 266	25 355	12 691	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	(S)	2 073	35 858	138 550	119 560	58 599	61 454	18 990	(S)	10	10
1742	Plastering, drywall, and insulation work	230	2 640	53 136	201 826	169 159	99 704	70 359	32 667	(S)	5	8
1743	Terrazzo, tile, marble, and mosaic work	74	660	12 909	43 679	37 747	20 780	17 097	*5 931	682	8	5
175	Carpentry and floor work:											
1751	Carpentry	(S)	2 170	43 914	139 634	117 877	75 724	43 513	21 757	1 280	8	9
1752	Floor laying and other floor work ...	(S)	(S)	14 132	64 924	57 499	30 149	32 668	7 425	(S)	(S)	11
1761	Roofing, siding, and sheet metal work	408	3 299	68 956	383 679	326 646	167 934	161 514	57 032	5 943	5	8
1771	Concrete work	(S)	5 015	76 333	282 697	252 058	138 298	113 920	30 639	2 813	4	5
1781	Water well drilling	23	111	2 226	9 799	9 655	5 102	4 586	144	(D)	29	27
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	1 574	38 342	88 115	82 942	62 119	25 101	5 173	1 751	9	7
1793	Glass and glazing work	90	704	18 444	55 191	(D)	25 194	29 280	(D)	567	8	(D)
1794	Excavation work	148	839	17 186	78 943	69 433	46 210	23 448	9 511	2 126	14	12
1795	Wrecking and demolition work	*14	(S)	(S)	8 752	(D)	6 503	2 011	(D)	(D)	(S)	(D)
1796	Installing building equipment, n.e.c. ...	74	1 876	40 483	132 543	128 436	90 228	45 211	4 108	1 492	2	3
1799	Special trade contractors, n.e.c.	(S)	4 399	89 661	275 541	247 412	154 685	95 342	28 129	5 397	11	7
	Dallas, TX PMSA											
15,16, 17	Construction industries	4 803	53 793	1 317 671	7 583 678	5 336 924	3 039 904	2 366 551	2 246 754	69 543	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	2 514	50 858	445 869	286 436	112 134	177 281	159 432	4 137	8	7
1522	Other residential buildings	32	319	6 833	73 396	(D)	(D)	11 583	(D)	(S)	17	(D)
1531	Operative builders	144	2 087	71 259	1 268 955	850 713	451 107	416 576	418 242	(D)	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	86	(S)	16 451	106 169	(S)	(S)	(S)	44 641	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	332	5 517	165 918	1 819 114	664 629	263 684	405 471	1 154 486	3 681	4	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	77	3 169	75 371	378 941	271 883	109 865	173 803	107 058	11 263	3	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	101	2 620	97 496	312 401	283 668	205 624	78 141	28 733	3 112	5	3
1629	Heavy construction, n.e.c.	(S)	1 305	33 429	140 672	108 917	55 528	54 130	31 755	5 262	8	10

TX-14 TEXAS

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DALLAS-FORT WORTH, TX CMSA—Con.											
	Dallas, TX PMSA—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	726	8 072	216 672	751 875	685 101	414 604	273 491	66 775	(S)	3	3
1721	Painting and paper hanging-----	(S)	1 748	32 764	99 754	84 899	58 387	26 584	14 855	827	7	7
1731	Electrical work-----	535	7 560	200 744	885 703	866 452	655 989	225 118	19 251	9 662	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	1 200	18 887	91 121	73 758	31 042	43 162	17 363	(S)	10	10
1742	Plastering, drywall, and insulation work-----	155	1 849	36 715	132 599	104 051	61 730	42 847	28 548	(S)	5	6
1743	Terrazzo, tile, marble, and mosaic work-----	51	491	9 795	31 504	(S)	15 579	(S)	*4 358	550	8	(S)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	1 197	24 194	83 148	70 177	41 193	30 041	12 971	679	11	13
1752	Floor laying and other floor work---	(S)	(S)	12 417	57 348	50 682	26 789	29 079	*6 666	(S)	(S)	12
1761	Roofing, siding, and sheet metal work-----	263	2 155	42 621	220 280	195 321	103 532	93 315	24 958	1 688	6	8
1771	Concrete work-----	(S)	3 513	51 559	189 910	164 567	89 012	75 632	25 343	2 103	5	5
1781	Water well drilling-----	*16	90	1 792	(D)	(D)	3 838	(D)	(D)	(D)	36	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	(S)	1 153	27 572	62 624	57 741	43 381	15 361	4 883	1 144	11	9
1793	Glass and glazing work-----	50	420	12 235	34 805	(D)	15 838	18 378	(D)	(S)	12	(D)
1794	Excavation work-----	(S)	460	10 771	47 770	40 834	27 580	13 447	6 936	1 447	18	15
1795	Wrecking and demolition work-----	*13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.---	45	1 728	37 749	119 046	116 945	79 462	37 981	2 101	960	(Z)	(Z)
1799	Special trade contractors, n.e.c.---	(S)	2 931	56 622	165 104	148 036	94 244	56 014	17 067	1 906	16	9
	Fort Worth-Arlington, TX PMSA											
15,16, 17	Construction industries-----	2 544	21 919	490 836	2 620 051	2 027 636	1 161 348	902 842	592 415	39 812	2	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	(S)	(S)	20 311	264 456	178 976	93 337	87 053	85 480	1 375	(S)	25
1522	Other residential buildings-----	*13	*33	685	3 431	(D)	(D)	1 053	(D)	20	45	(D)
1531	Operative builders-----	71	625	20 716	366 051	249 370	137 996	111 535	116 680	(D)	14	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	323	7 695	61 025	29 114	17 225	12 837	31 911	(S)	13	7
1542	Nonresidential buildings, n.e.c.-----	152	1 557	37 766	327 814	156 553	85 064	78 837	171 261	1 455	7	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	42	2 151	50 050	248 189	214 407	139 545	79 786	33 782	8 418	5	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	61	1 277	31 489	143 871	111 802	57 187	54 731	32 069	5 518	7	5
1629	Heavy construction, n.e.c.-----	69	678	12 803	46 655	38 642	22 664	16 147	8 012	698	18	10
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	375	2 773	70 120	274 575	247 189	129 083	118 611	27 386	4 864	5	4
1721	Painting and paper hanging-----	136	652	11 249	26 034	24 790	19 627	5 188	1 243	186	14	12
1731	Electrical work-----	275	2 336	54 056	171 977	165 873	102 994	71 148	6 104	3 029	5	6
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	61	873	16 972	47 429	45 802	27 557	18 292	1 627	500	19	21
1742	Plastering, drywall, and insulation work-----	76	(S)	16 421	69 227	65 108	37 975	(S)	4 119	(S)	(S)	17
1743	Terrazzo, tile, marble, and mosaic work-----	23	170	3 114	12 175	10 602	5 201	5 432	1 573	132	23	14
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	973	19 720	56 486	47 700	34 531	13 472	(S)	601	12	11
1752	Floor laying and other floor work---	27	93	1 715	7 576	6 817	3 360	*3 588	759	36	24	28
1761	Roofing, siding, and sheet metal work-----	145	1 144	26 334	163 399	131 325	64 402	68 199	32 074	4 255	10	16
1771	Concrete work-----	(S)	1 502	24 774	92 787	87 491	49 286	38 288	5 296	710	9	10

CONSTRUCTION—GEOGRAPHIC AREA SERIES

TEXAS TX-15

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DALLAS-FORT WORTH, TX CMSA—Con.											
	Fort Worth-Arlington, TX PMSA—Con.											
	Construction industries—Con.											
15,16, 17	Special trade contractors—Con.											
1781	Water well drilling	7	22	434	(D)	(D)	1 264	(D)	(D)	(D)	(Z)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	28	420	10 770	25 491	25 201	18 737	9 740	291	607	12	13
1793	Glass and glazing work	39	284	6 210	20 386	(D)	9 356	10 902	(D)	309	9	(D)
1794	Excavation work	79	379	6 416	31 173	28 598	18 630	10 001	2 575	680	21	18
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	—	(D)	(D)
1796	Installing building equipment, n.e.c.	29	147	2 734	*13 497	11 491	*10 766	*7 230	*2 007	*532	24	36
1799	Special trade contractors, n.e.c.	142	1 468	33 040	110 437	99 376	60 441	39 328	11 061	3 491	10	11
	HOUSTON-GALVESTON-BRAZORIA, TX CMSA											
15,16, 17	Construction industries	6 291	119 211	3 205 270	12 654 430	9 514 180	6 042 982	4 042 609	3 140 250	177 366	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	809	3 680	71 088	597 385	353 523	154 940	208 896	243 863	3 675	7	7
1522	Other residential buildings	57	1 202	27 960	229 221	112 616	50 218	62 646	116 605	1 200	9	6
1531	Operative builders	138	2 340	104 526	1 747 355	1 096 891	660 472	496 002	650 464	25 412	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	120	1 766	53 765	246 403	148 617	67 675	94 538	97 787	(S)	6	7
1542	Nonresidential buildings, n.e.c.	399	7 915	196 194	1 782 637	677 413	290 530	400 977	1 105 224	7 448	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	4 676	103 442	523 380	425 582	208 453	217 997	97 798	14 452	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	11	291	8 617	33 316	(D)	17 576	12 838	(D)	824	11	(D)
1623	Water, sewer, and utility lines	156	4 855	165 252	581 259	523 375	349 517	176 425	57 884	17 223	3	2
1629	Heavy construction, n.e.c.	(S)	40 117	1 268 045	2 878 004	2 535 260	2 139 973	804 864	342 744	38 041	(Z)	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	(S)	10 059	280 455	959 613	847 819	442 916	414 210	111 794	10 678	2	2
1721	Painting and paper hanging	375	4 931	95 798	282 087	248 912	175 033	74 660	33 175	3 423	4	7
1731	Electrical work	624	9 183	226 806	729 009	682 940	395 430	293 572	46 069	8 538	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	152	2 662	49 811	146 366	131 221	81 659	49 645	15 145	1 395	6	9
1742	Plastering, drywall, and insulation work	(S)	3 833	85 040	273 101	233 759	139 130	95 310	39 342	2 619	5	4
1743	Terrazzo, tile, marble, and mosaic work	89	674	14 749	51 127	48 421	26 237	22 407	*2 706	876	12	13
175	Carpentry and floor work:											
1751	Carpentry	(S)	1 700	33 829	138 110	121 295	74 324	49 150	16 816	(S)	8	16
1752	Floor laying and other floor work	90	660	14 552	79 552	70 740	35 613	37 861	8 812	472	13	13
1761	Roofing, siding, and sheet metal work	305	2 836	58 372	287 632	251 475	121 687	132 482	36 157	3 387	4	6
1771	Concrete work	260	3 577	55 736	206 935	183 367	101 662	81 943	23 569	3 181	8	7
1781	Water well drilling	32	207	5 080	(D)	20 196	12 356	8 144	(D)	1 881	3	(Z)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	73	1 744	45 948	145 701	127 319	74 767	59 234	18 382	4 154	6	5
1793	Glass and glazing work	93	571	13 255	41 143	40 781	19 721	23 299	*362	(S)	15	16
1794	Excavation work	97	624	10 891	46 352	40 802	28 237	13 179	5 550	1 485	15	10
1795	Wrecking and demolition work	13	259	7 936	(D)	(D)	15 039	6 092	(D)	828	(Z)	(D)
1796	Installing building equipment, n.e.c.	57	1 060	34 372	88 573	85 749	58 418	27 777	2 824	895	8	3
1799	Special trade contractors, n.e.c.	418	7 789	173 749	508 018	454 841	301 402	178 462	53 177	19 276	4	6

TX-16 TEXAS

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.											
	Brazoria, TX PMSA											
15,16,17	Construction industries	(S)	8 292	221 467	534 264	466 641	331 584	143 859	67 623	7 611	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	144	*4 077	(S)	11 167	5 635	(S)	(S)	(S)	27	25
1522	Other residential buildings	—	—	—	—	—	—	—	—	—	—	—
1531	Operative builders	—	—	—	—	—	—	—	—	—	—	—
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	125	(D)	(D)	(D)	5 043	(D)	(D)	203	(Z)	(D)
1542	Nonresidential buildings, n.e.c.	21	403	(S)	(S)	(S)	(S)	(S)	22 049	(D)	12	(S)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	(S)	172	3 952	10 365	(D)	6 010	2 836	(D)	(D)	(Z)	(D)
1629	Heavy construction, n.e.c.	21	3 001	86 032	159 514	145 143	118 011	28 479	14 371	930	(Z)	(Z)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	(S)	1 587	49 219	109 081	99 664	68 200	31 471	9 417	1 869	2	6
1721	Painting and paper hanging	14	542	11 507	27 039	(D)	20 502	6 534	(D)	(D)	11	(D)
1731	Electrical work	(S)	516	13 251	25 627	25 439	16 846	8 944	(S)	336	3	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	(S)	1 535	(S)	(D)	3 203	(S)	(D)	110	(S)	(D)
1742	Plastering, drywall, and insulation work	10	123	(D)	10 950	8 047	4 471	3 593	*2 903	(D)	16	18
1743	Terrazzo, tile, marble, and mosaic work	—	—	—	—	—	—	—	—	—	—	—
175	Carpentry and floor work:											
1751	Carpentry	11	31	364	1 735	1 493	1 001	494	242	(D)	(Z)	(Z)
1752	Floor laying and other floor work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sheet metal work	(S)	170	1 590	5 967	5 231	(S)	1 873	*736	(S)	26	19
1771	Concrete work	9	69	1 024	2 443	(D)	1 428	(D)	(D)	(D)	36	(D)
1781	Water well drilling	7	(D)	(D)	(D)	(D)	2 289	1 029	72	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	(S)	(S)	(S)
1793	Glass and glazing work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	—	(D)	(D)
1794	Excavation work	*5	43	1 004	(D)	6 014	2 109	(D)	(D)	290	23	15
1795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	3	30	(D)	(D)	(D)	1 208	(D)	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.	(S)	(D)	(D)	56 421	(D)	43 479	(D)	(D)	(D)	(D)	(D)
	Galveston—Texas City, TX PMSA											
15,16,17	Construction industries	338	2 875	71 484	286 893	231 890	148 032	86 817	55 004	6 311	3	5
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	177	3 434	32 551	23 526	14 448	9 787	9 025	(S)	25	23
1522	Other residential buildings	—	—	—	—	—	—	—	—	—	—	—
1531	Operative builders	*11	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	239	(D)	(D)	(D)	11 090	(D)	(D)	(S)	10	(D)
1542	Nonresidential buildings, n.e.c.	5	118	3 341	22 557	10 595	8 432	2 163	11 962	(D)	32	24

CONSTRUCTION—GEOGRAPHIC AREA SERIES

TEXAS TX-17

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.											
	Galveston-Texas City, TX PMSA—Con.											
15,16, 17 16	Construction industries—Con.											
	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction.....	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1629	Heavy construction, n.e.c.	33	718	20 219	55 929	52 462	40 387	12 213	3 467	2 737	5	5
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	59	284	6 548	21 700	21 048	11 949	(S)	(S)	(S)	12	12
1721	Painting and paper hanging.....	(S)	223	4 321	12 619	(D)	8 681	2 925	(D)	(D)	1	(D)
1731	Electrical work	38	291	8 034	27 005	26 931	18 561	8 396	74	266	8	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	(S)	30	349	721	721	544	177	—	—	(Z)	(Z)
1742	Plastering, drywall, and insulation work	(S)	(S)	(D)	(S)	(S)	2 146	(S)	54	(D)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1752	Floor laying and other floor work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1761	Roofing, siding, and sheet metal work	30	179	4 640	18 826	16 863	8 372	8 516	1 963	131	9	5
1771	Concrete work	6	54	1 206	5 334	(D)	2 706	(D)	(D)	(D)	(Z)	(D)
1781	Water well drilling	—	—	—	—	—	—	—	—	—	—	—
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	—	—	—	—	—	—	—	—	—	—	—
1793	Glass and glazing work	3	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1794	Excavation work	(S)	(S)	*657	(D)	(D)	(S)	(D)	*209	*55	(S)	(D)
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	5	(S)	(D)	(D)	(D)	(S)	(D)	(D)	(D)	(S)	(D)
1799	Special trade contractors, n.e.c.	6	(D)	(D)	(S)	(D)	(S)	(D)	(D)	(D)	(D)	(D)
	Houston, TX PMSA											
15,16, 17	Construction industries	5 660	108 044	2 912 319	11 833 272	8 815 649	5 563 366	3 811 933	3 017 623	163 444	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	708	3 359	63 577	547 748	318 829	134 857	193 505	228 919	3 319	8	8
1522	Other residential buildings	57	1 202	27 960	229 221	112 616	50 218	62 646	116 605	1 200	9	6
1531	Operative builders	127	2 305	103 922	1 718 613	1 083 481	655 772	487 292	635 132	25 412	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	104	1 402	44 503	204 829	119 909	51 542	81 289	84 920	(S)	7	8
1542	Nonresidential buildings, n.e.c.	372	7 393	183 518	1 702 292	631 079	261 855	383 165	1 071 213	6 015	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	4 589	101 509	(D)	(D)	(D)	(D)	(D)	(D)	2	(D)
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction.....	11	291	8 617	33 316	(D)	17 576	12 838	(D)	824	11	(D)
1623	Water, sewer, and utility lines	145	4 663	160 816	568 646	(D)	342 213	172 658	(D)	(D)	3	(D)
1629	Heavy construction, n.e.c.	(S)	36 398	1 161 794	2 662 561	2 337 655	1 981 575	764 172	324 906	34 374	(Z)	1

TX—18 TEXAS

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.											
	Houston, TX PMSA—Con.											
	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	(S)	8 188	224 689	828 831	727 107	362 767	373 638	101 725	8 296	2	2
1721	Painting and paper hanging	348	4 166	79 970	242 428	210 760	145 850	65 202	31 668	2 357	5	8
1731	Electrical work	555	8 376	205 521	676 377	630 570	360 023	276 231	45 807	7 936	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	141	2 565	47 927	140 467	(D)	77 912	47 543	(D)	1 285	7	(D)
1742	Plastering, drywall, and insulation work	(S)	3 651	81 271	258 501	222 116	132 513	90 258	36 385	2 440	5	4
1743	Terrazzo, tile, marble, and mosaic work	87	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	1 565	31 731	128 559	112 751	70 177	44 190	15 808	(S)	8	17
1752	Floor laying and other floor work	87	653	(D)	(D)	70 410	35 406	(D)	(D)	(D)	13	13
1761	Roofing, siding, and sheet metal work	259	2 488	52 142	262 839	229 381	109 947	122 093	33 458	3 123	4	7
1771	Concrete work	245	3 454	53 506	199 158	175 940	97 528	78 641	23 218	(D)	8	8
1781	Water well drilling	25	(D)	(D)	17 866	(D)	10 067	7 115	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	66	1 725	45 712	145 402	127 020	74 539	59 163	18 382	4 118	6	5
1793	Glass and glazing work	88	550	12 662	39 854	39 492	19 325	22 286	*362	(D)	16	17
1794	Excavation work	77	548	9 229	37 014	(D)	25 107	8 500	(D)	1 140	17	(D)
1795	Wrecking and demolition work	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ..	49	863	28 031	75 440	(D)	49 947	23 051	(D)	799	9	(D)
1799	Special trade contractors, n.e.c.	390	6 595	143 042	448 792	397 090	255 543	160 487	51 701	18 921	5	7
15,16, 17	AUSTIN—SAN MARCOS, TX MSA											
	Construction industries	1 746	16 309	342 306	2 073 183	1 508 839	762 469	756 775	564 345	29 481	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	1 066	18 153	204 015	139 274	56 346	83 949	64 741	(S)	11	20
1522	Other residential buildings	*20	*95	*1 636	*7 383	*4 121	*2 052	*2 087	*3 262	130	65	47
1531	Operative builders	34	489	16 051	356 479	230 625	72 886	157 912	125 854	696	9	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	93	1 806	47 046	372 934	169 402	81 780	87 760	203 532	2 281	4	7
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	44	1 529	33 058	192 264	144 752	71 616	73 572	47 513	5 517	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*8	*103	*1 627	*8 099	*7 342	*4 429	*2 913	*757	*132	42	50
1623	Water, sewer, and utility lines	45	939	19 303	150 973	131 636	77 277	54 879	*19 337	7 276	8	7
1629	Heavy construction, n.e.c.	(S)	(S)	12 028	66 610	52 046	30 994	22 058	*14 565	612	(S)	19
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	285	2 245	51 071	213 616	188 131	97 717	91 706	25 485	2 457	5	3
1721	Painting and paper hanging	(S)	698	14 154	36 719	35 001	25 435	9 730	1 717	470	9	15
1731	Electrical work	157	1 529	38 449	121 592	118 963	69 427	49 801	2 629	1 837	5	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	55	437	5 717	22 414	17 984	9 311	8 990	*4 430	712	13	14
1742	Plastering, drywall, and insulation work	(S)	780	15 150	48 151	43 022	24 674	19 075	(S)	686	12	8
1743	Terrazzo, tile, marble, and mosaic work	13	103	1 635	5 011	4 749	2 634	2 126	(S)	52	11	12
175	Carpentry and floor work:											
1751	Carpentry	(S)	435	7 822	34 474	23 605	12 847	10 804	10 869	(S)	18	20
1752	Floor laying and other floor work	45	290	4 911	24 318	21 042	8 869	13 147	3 276	71	15	20
1761	Roofing, siding, and sheet metal work	84	740	10 366	44 301	41 233	28 736	12 600	3 067	*766	23	10
1771	Concrete work	(S)	791	12 237	57 318	45 446	26 355	19 159	11 872	1 046	13	17

CONSTRUCTION—GEOGRAPHIC AREA SERIES

TEXAS TX—19

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	AUSTIN—SAN MARCOS, TX MSA—Con.											
15,16, 17	Construction industries—Con.											
1781	Special trade contractors—Con.											
	Water well drilling	8	(D)	(D)	2 448	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*22	110	(S)	7 057	6 114	(S)	2 282	*943	*53	34	33
1793	Glass and glazing work	9	131	2 932	(D)	9 168	5 124	4 927	(D)	*136	5	7
1794	Excavation work	32	246	4 873	16 745	14 332	8 887	5 522	*2 413	927	20	24
1795	Wrecking and demolition work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. .	12	220	4 416	11 517	(D)	5 841	5 587	(D)	78	1	(D)
1799	Special trade contractors, n.e.c.	84	648	11 417	34 958	33 324	23 297	10 359	1 634	900	17	20
	SAN ANTONIO, TX MSA											
15,16, 17	Construction industries	2 166	30 050	702 500	2 953 852	2 217 933	1 432 349	814 910	735 918	53 106	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	336	1 458	24 145	209 722	142 199	71 219	74 047	67 523	1 939	9	10
1522	Other residential buildings	*22	*134	*1 981	*10 660	*8 643	*6 583	*2 117	*2 017	*257	46	52
1531	Operative builders	(S)	412	13 064	122 517	50 960	32 697	(S)	71 557	(D)	11	37
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	319	6 114	49 063	25 890	13 468	*13 944	23 173	330	24	25
1542	Nonresidential buildings, n.e.c.	166	2 240	49 090	522 636	205 882	80 955	128 136	316 755	2 935	7	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	46	1 867	36 710	178 434	133 628	76 099	64 349	44 806	7 864	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	4	(D)	(D)	3 961	(D)	2 220	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	23	(D)	8 168	27 250	23 032	15 034	8 010	4 218	914	(D)	8
1629	Heavy construction, n.e.c.	44	(D)	(D)	914 434	804 549	649 640	159 012	109 884	27 128	(D)	(Z)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	304	2 489	54 620	219 136	193 755	108 480	86 829	25 381	1 606	4	3
1721	Painting and paper hanging	161	1 123	16 367	57 145	44 880	31 952	12 935	12 265	189	15	15
1731	Electrical work	194	2 365	52 387	167 420	162 900	94 574	70 231	4 521	2 066	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	485	6 793	26 457	25 789	14 184	(S)	(S)	(S)	13	21
1742	Plastering, drywall, and insulation work	66	612	(D)	40 004	36 083	23 109	12 985	*3 921	703	15	13
1743	Terrazzo, tile, marble, and mosaic work	(S)	159	2 354	8 742	(D)	3 327	5 273	(D)	250	3	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	526	7 840	32 380	27 671	16 213	11 691	4 709	(S)	12	17
1752	Floor laying and other floor work	27	224	4 625	31 301	27 808	16 039	11 951	*3 493	226	24	21
1761	Roofing, siding, and sheet metal work	131	1 232	23 548	113 773	96 033	54 096	41 985	17 740	1 868	17	19
1771	Concrete work	(S)	1 030	17 538	79 276	67 672	37 595	30 233	11 603	983	15	19
1781	Water well drilling	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	379	7 243	24 570	22 236	13 629	8 946	2 334	163	10	11
1793	Glass and glazing work	22	186	4 197	11 321	11 301	8 210	5 727	*20	462	5	5
1794	Excavation work	21	62	1 209	4 050	3 408	2 151	1 257	(S)	(D)	26	24
1795	Wrecking and demolition work	3	62	1 190	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. .	24	216	6 202	17 981	17 174	12 875	4 299	*807	176	11	11
1799	Special trade contractors, n.e.c.	132	1 308	20 982	75 541	68 544	43 686	27 900	6 996	1 751	11	12

TX—20 TEXAS

CONSTRUCTION—GEOGRAPHIC AREA SERIES

Appendix A.

Explanation of Terms

Construction. Is composed of three broad categories:

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

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

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

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

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

Construction workers. Includes all workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers,

and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

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

Payroll. Includes the gross earnings paid in the calendar year 1992 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

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

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

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

Dollar value of business done comprises the following detail:

Value of construction work done. Includes all value of construction work done during 1992 for construction work performed by general contractors and special trades contractors. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Speculative builders were instructed to include the value of buildings and other structures built or being built for sale in 1992 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air-conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Other business receipts. Includes business receipts not reported as value of construction work done. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

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

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

Selected costs. Represents the costs for materials, components, and supplies; costs for construction work subcontracted out to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

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

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

Excluded from this item are:

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

Costs for construction work subcontracted out to others include:

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

Excluded from this item are:

- the costs to the reporting establishment for its purchases of materials, components, and supplies provided to a subcontractor for use. Such costs are reported under, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

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

Rental costs for machinery, equipment, and buildings. Includes all costs during 1992 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services. Includes all costs during 1992 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies or from other establishments of the same company. It includes only the cost of

repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property or the cost of adapting it for another use. Such costs are included in "capital expenditures."

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

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

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

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

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

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

Inventories. Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to exclude work in progress and finished units not sold from inventories.

Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

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

Value of construction work subcontracted in from others. Includes the value of construction work during 1992 for work done by reporting establishments as subcontractors. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction. Provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1992. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose; i.e., office and residential, or commercial, they were to classify the building by major purpose.

In addition, all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- **Single-family houses, detached.** Includes all residential buildings constructed for one family use.
- **Single-family houses, attached, including townhouses and townhouse-type condominiums.** Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- **Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives.** Includes high-rise, low-rise, or any structures containing two or more housing units other than attached single-family houses.
- **Hotels, motels, and tourist cabins.** Includes hotels, motels, bed and breakfast inns, and tourist cabins intended for transient accommodations. Also included are hotel and motel conference centers.
- **Other residential buildings.** Includes dormitories, fraternity and sorority houses, and other nonhousekeeping residential structures.
- **Office buildings.** Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more. Medical office buildings are reported under hospitals and institutional buildings.

- **Other commercial buildings, such as stores, restaurants, and automobile service stations.** Includes all buildings which are intended for use primarily in the retail and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings.** Includes all industrial buildings and plants which are used to house production and assembly activities. Note that industrial parks should be classified under its primary usage such as warehouses, office space, commercial or industrial type buildings. Heavy industrial facilities such as blast furnaces, petroleum refineries, and chemical complexes are not included in this category but are reported under nonbuilding construction.
- **Warehouses.** Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings.** Includes all buildings which are intended for religious services or functions such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings.** Includes all buildings which are used directly in administrative and instructional activities such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing or commercial establishment, are also included.
- **Hospitals and institutional buildings.** Includes medical office buildings and all other buildings which are intended to provide hospital and institutional care such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential.** Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings.** Includes buildings which are used primarily for entertainment, social, and recreational activities such as sports arenas, convention centers, theaters, music halls, golf and country club buildings, skating rinks, fitness centers, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings.** Includes nonresidential buildings which are not classified elsewhere such as fire stations, post offices, bus and air passenger terminals and hangars, and prisons.

Nonbuilding construction:

- **Highways, streets, and related work such as installation of guardrails, highway signs, and lighting.** Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control, and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools.** Includes wading pools and reflecting pools.
- **Airport runways and related work.** Includes runways, taxiways, aprons, and related work.
- **Private driveways and parking areas.** Includes all nonstructural parking areas and private driveways of all surface types.
- **Fencing.** Includes all types of fencing.
- **Recreational facilities.** Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Tunnels.** Includes highway, pedestrian, railroad, and water distribution tunnels.
- **Bridges and elevated highways.** Includes viaducts and overpasses, roads, highways, railroads, and causeways built on structural supports.
- **Dam and reservoir construction.** Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction.** Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
- **Harbor and port facilities.** Includes docks, piers, and wharves.
- **Conservation and development construction.** Includes land reclamation, irrigation projects, drainage canals, levees, jetties, breakwaters, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities.** Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, and electric light and power facilities.
- **Sewers, sewerlines, septic tanks, and related facilities.** Includes sanitary and storm sewers, pumping stations, septic systems, and related facilities.
- **Water mains and related facilities.** Includes water supply systems, pumping stations, and related facilities.
- **Pipeline construction other than sewer or waterlines.** Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Urban mass transit.** Includes subways, trolleys, 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 tipplers and washeries.

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

Appendix B.

Standard Industrial Classification Titles for Industry Groups and Industries

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

Appendix C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Appendix D. Metropolitan Areas

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

Abilene, TX MSA

Taylor County, TX

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

Albany, GA MSA

Dougherty County, GA
Lee County, GA

Albany–Schenectady–Troy, NY MSA

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

Albuquerque, NM MSA

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

Alexandria, LA MSA

Rapides Parish, LA

Allentown–Bethlehem–Easton, PA MSA

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

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX
Randall County, TX

Anchorage, AK MSA

Anchorage Borough, AK

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

Anniston, AL MSA

Calhoun County, AL

Appleton–Oshkosh–Neenah, WI MSA

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

Asheville, NC MSA

Buncombe County, NC
Madison County, NC

Athens, GA MSA

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

Atlanta, GA MSA

Barrow County, GA
Bartow County, GA

Atlanta, GA MSA—Con.

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

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

Augusta–Aiken, GA–SC MSA

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

Austin–San Marcos, TX MSA

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

Bakersfield, CA MSA

Kern County, CA

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

Bangor, ME MSA

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

Bangor, ME MSA—Con.

Waldo County, ME (part)
Winterport town, ME

Barnstable–Yarmouth, MA MSA

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

Baton Rouge, LA MSA

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

Beaumont–Port Arthur, TX MSA

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

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

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

Billings, MT MSA

Yellowstone County, MT

Biloxi–Gulfport–Pascagoula, MS MSA

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

Binghamton, NY MSA

Broome County, NY
Tioga County, NY

Birmingham, AL MSA

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

Bismarck, ND MSA

Burleigh County, ND
Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington–Normal, IL MSA

McLean County, IL

Boise City, ID MSA

Ada County, ID

Canyon County, ID

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

Boston, MA–NH PMSA

Bristol County, MA (part)

Berkley town, MA

Dighton town, MA

Mansfield town, MA

Norton town, MA

Taunton city, MA

Essex County, MA (part)

Amesbury town, MA

Beverly city, MA

Danvers town, MA

Essex town, MA

Gloucester city, MA

Hamilton town, MA

Ipswich town, MA

Lynn city, MA

Lynnfield town, MA

Manchester town, MA

Marblehead town, MA

Middleton town, MA

Nahant town, MA

Newbury town, MA

Newburyport city, MA

Peabody city, MA

Rockport town, MA

Rowley town, MA

Salem city, MA

Salisbury town, MA

Saugus town, MA

Swampscott town, MA

Topsfield town, MA

Wenham town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Everett city, MA

Framingham town, MA

Holliston town, MA

Hopkinton town, MA

Hudson town, MA

Lexington town, MA

Lincoln town, MA

Littleton town, MA

Malden city, MA

Marlborough city, MA

Maynard town, MA

Medford city, MA

Melrose city, MA

Natick town, MA

Newton city, MA

North Reading town, MA

Reading town, MA

Sherborn town, MA

Shirley town, MA

Somerville city, MA

Stoneham town, MA

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

Boston, MA–NH PMSA—Con.

Middlesex County, MA (part)

Stow town, MA

Sudbury town, MA

Townsend town, MA

Wakefield town, MA

Waltham city, MA

Watertown city, MA

Wayland town, MA

Weston town, MA

Wilmington town, MA

Winchester town, MA

Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA

Braintree town, MA

Brookline town, MA

Canton town, MA

Cohasset town, MA

Dedham town, MA

Dover town, MA

Foxborough town, MA

Franklin city, MA

Holbrook town, MA

Medfield town, MA

Medway town, MA

Millis town, MA

Milton town, MA

Needham town, MA

Norfolk town, MA

Norwood town, MA

Plainville town, MA

Quincy city, MA

Randolph town, MA

Sharon town, MA

Stoughton town, MA

Walpole town, MA

Wellesley town, MA

Westwood town, MA

Weymouth town, MA

Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA

Duxbury town, MA

Hanover town, MA

Hingham town, MA

Hull town, MA

Kingston town, MA

Marshfield town, MA

Norwell town, MA

Pembroke town, MA

Plymouth town, MA

Rockland town, MA

Scituate town, MA

Wareham town, MA

Suffolk County, MA

Boston city, MA

Chelsea city, MA

Revere city, MA

Winthrop town, MA

Worcester County, MA (part)

Berlin town, MA

Blackstone town, MA

Bolton town, MA

Harvard town, MA

Hopedale town, MA

Lancaster town, MA

Mendon town, MA

Milford town, MA

Millville town, MA

Southborough town, MA

Upton town, MA

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

Boston, MA–NH PMSA—Con.

Rockingham County, NH (part)

Seabrook town, NH

South Hampton town, NH

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Raynham town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA

Bridgewater town, MA

Brockton city, MA

East Bridgewater town, MA

Halifax town, MA

Hanson town, MA

Lakeville town, MA

Middleborough town, MA

Plympton town, MA

West Bridgewater town, MA

Whitman town, MA

Fitchburg–Leominster, MA PMSA

Middlesex County, MA (part)

Ashby town, MA

Worcester County, MA (part)

Ashburnham town, MA

Fitchburg city, MA

Gardner city, MA

Leominster city, MA

Lunenburg town, MA

Templeton town, MA

Westminster town, MA

Winchendon town, MA

Lawrence, MA–NH PMSA

Essex County, MA (part)

Andover town, MA

Boxford town, MA

Georgetown town, MA

Groveland town, MA

Haverhill city, MA

Lawrence city, MA

Merrimac town, MA

Methuen city, MA

North Andover town, MA

West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH

Chester town, NH

Danville town, NH

Derry town, NH

Fremont town, NH

Hampstead town, NH

Kingston town, NH

Newton town, NH

Plaistow town, NH

Raymond town, NH

Salem town, NH

Sandown town, NH

Windham town, NH

Lowell, MA–NH PMSA

Middlesex County, MA (part)

Billerica town, MA

Chelmsford town, MA

Dracut town, MA

Dunstable town, MA

Groton town, MA

Lowell city, MA

Pepperell town, MA

Tewksbury town, MA

Tyngsborough town, MA

Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

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

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

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

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

**Boulder–Longmont, CO PMSA—see
Denver–Boulder–Greeley, CO CMSA****Brazoria, TX PMSA—see Houston–
Galveston–Brazoria, TX CMSA****Bremerton, WA PMSA—see Seattle–
Tacoma–Bremerton, WA CMSA****Bridgeport, CT PMSA—see New York–
Northern New Jersey–Long Island, NY–
NJ–CT–PA CMSA****Brockton, MA PMSA—see Boston–
Worcester–Lawrence, MA–NH–ME–CT CMSA****Brownsville–Harlingen–San Benito, TX MSA**

Cameron County, TX

Bryan–College Station, TX MSA

Brazos County, TX

Buffalo–Niagara Falls, NY MSA

Erie County, NY
 Niagara County, NY

Burlington, VT MSA

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

Burlington, VT MSA—Con.

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

Canton–Massillon, OH MSA

Carroll County, OH
 Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign–Urbana, IL MSA

Champaign County, IL

Charleston–North Charleston, SC MSA

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

Charleston, WV MSA

Kanawha County, WV
 Putnam County, WV

Charlotte–Gastonia–Rock Hill, NC–SC MSA

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

Charlottesville, VA MSA

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

Chattanooga, TN–GA MSA

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

Cheyenne, WY MSA

Laramie County, WY

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

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

Chicago–Gary–Kenosha, IL–IN–WI CMSA—Con.

Kenosha, WI PMSA
Kenosha County, WI

Chico–Paradise, CA MSA

Butte County, CA

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

Cincinnati, OH–KY–IN PMSA
Dearborn County, IN
Ohio County, IN
Boone County, KY
Campbell County, KY
Gallatin County, KY
Grant County, KY
Kenton County, KY
Pendleton County, KY
Brown County, OH
Clermont County, OH
Hamilton County, OH
Warren County, OH
Hamilton–Middletown, OH PMSA
Butler County, OH

Clarksville–Hopkinsville, TN–KY MSA

Christian County, KY
Montgomery County, TN

Cleveland–Lorain–Elyria, OH PMSA—see**Cleveland–Akron, OH CMSA****Cleveland–Akron, OH CMSA**

Akron, OH PMSA
Portage County, OH
Summit County, OH
Cleveland–Lorain–Elyria, OH PMSA
Ashtabula County, OH
Cuyahoga County, OH
Geauga County, OH
Lake County, OH
Lorain County, OH
Medina County, OH

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
Richland County, SC

Columbus, GA–AL MSA

Russell County, AL
Chattahoochee County, GA
Harris County, GA
Muscogee County, GA

Columbus, OH MSA

Delaware County, OH
Fairfield County, OH
Franklin County, OH
Licking County, OH
Madison County, OH
Pickaway County, OH

Corpus Christi, TX MSA

Nueces County, TX
San Patricio County, TX

Cumberland, MD–WV MSA

Allegany County, MD
Mineral County, WV

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

Dallas, TX PMSA
Collin County, TX
Dallas County, TX
Denton County, TX
Ellis County, TX
Henderson County, TX
Hunt County, TX
Kaufman County, TX
Rockwall County, TX
Fort Worth–Arlington, TX PMSA
Hood County, TX
Johnson County, TX
Parker County, TX
Tarrant County, TX

Danbury, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**Danville, VA MSA**

Pittsylvania County, VA
Danville city, VA

Davenport–Moline–Rock Island, IA–IL MSA

Henry County, IL
Rock Island County, IL
Scott County, IA

Dayton–Springfield, OH MSA

Clark County, OH
Greene County, OH
Miami County, OH
Montgomery County, OH

Daytona Beach, FL MSA

Flagler County, FL
Volusia County, FL

Decatur, AL MSA

Lawrence County, AL
Morgan County, AL

Decatur, IL MSA

Macon County, IL

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

Boulder–Longmont, CO PMSA
Boulder County, CO
Denver, CO PMSA
Adams County, CO
Arapahoe County, CO
Denver County, CO
Douglas County, CO
Jefferson County, CO
Greeley, CO PMSA
Weld County, CO

Des Moines, IA MSA

Dallas County, IA
Polk County, IA
Warren County, IA

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

Ann Arbor, MI PMSA
Lenawee County, MI
Livingston County, MI
Washtenaw County, MI
Detroit, MI PMSA
Lapeer County, MI
Macomb County, MI
Monroe County, MI
Oakland County, MI
St. Clair County, MI
Wayne County, MI

Detroit–Ann Arbor–Flint, MI CMSA—Con.

Flint, MI PMSA
Genesee County, MI

Dothan, AL MSA

Dale County, AL
Houston County, AL

Dover, DE MSA

Kent County, DE

Dubuque, IA MSA

Dubuque County, IA

Duluth–Superior, MN–WI MSA

St. Louis County, MN
Douglas County, WI

Dutchess County, NY PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**Eau Claire, WI MSA**

Chippewa County, WI
Eau Claire County, WI

El Paso, TX MSA

El Paso County, TX

Elkhart–Goshen, IN MSA

Elkhart County, IN

Elmira, NY MSA

Chemung County, NY

Enid, OK MSA

Garfield County, OK

Erie, PA MSA

Erie County, PA

Eugene–Springfield, OR MSA

Lane County, OR

Evansville–Henderson, IN–KY MSA

Posey County, IN
Vanderburgh County, IN
Warrick County, IN
Henderson County, KY

Fargo–Moorhead, ND–MN MSA

Clay County, MN
Cass County, ND

Fayetteville, NC MSA

Cumberland County, NC

Fayetteville–Springdale–Rogers, AR MSA

Benton County, AR
Washington County, AR

Fitchburg–Leominster, MA PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**Flint, MI PMSA—see Detroit–Ann Arbor–Flint, MI CMSA****Florence, AL MSA**

Colbert County, AL
Lauderdale County, AL

Florence, SC MSA

Florence County, SC

Fort Collins–Loveland, CO MSA

Larimer County, CO

Fort Lauderdale, FL PMSA—see Miami–Fort Lauderdale, FL CMSA**Fort Myers–Cape Coral, FL MSA**

Lee County, FL

Fort Pierce–Port St. Lucie, FL MSA

Martin County, FL
St. Lucie County, FL

Fort Smith, AR—OK MSA

Crawford County, AR
Sebastian County, AR
Sequoyah County, OK

Fort Walton Beach, FL MSA

Okaloosa County, FL

Fort Wayne, IN MSA

Adams County, IN
Allen County, IN
De Kalb County, IN
Huntington County, IN
Wells County, IN
Whitley County, IN

Fort Worth—Arlington, TX PMSA—see

Dallas—Fort Worth, TX CMSA

Fresno, CA MSA

Fresno County, CA
Madera County, CA

Gadsden, AL MSA

Etowah County, AL

Gainesville, FL MSA

Alachua County, FL

Galveston—Texas City, TX PMSA—see

Houston—Galveston—Brazoria, TX CMSA

Gary, IN PMSA—see Chicago—Gary—

Kenosha, IL—IN—WI CMSA

Glens Falls, NY MSA

Warren County, NY
Washington County, NY

Goldsboro, NC MSA

Wayne County, NC

Grand Forks, ND—MN MSA

Polk County, MN
Grand Forks County, ND

Grand Rapids—Muskegon—Holland, MI MSA

Allegan County, MI
Kent County, MI
Muskegon County, MI
Ottawa County, MI

Great Falls, MT MSA

Cascade County, MT

Greeley, CO PMSA—see Denver—Boulder—

Greeley, CO CMSA

Green Bay, WI MSA

Brown County, WI

Greensboro—Winston-Salem—High Point, NC MSA

Alamance County, NC
Davidson County, NC
Davie County, NC
Forsyth County, NC
Guilford County, NC
Randolph County, NC
Stokes County, NC
Yadkin County, NC

Greenville, NC MSA

Pitt County, NC

Greenville—Spartanburg—Anderson, SC MSA

Anderson County, SC
Cherokee County, SC
Greenville County, SC
Pickens County, SC
Spartanburg County, SC

Hagerstown, MD PMSA—see Washington—
Baltimore, DC—MD—VA—WV CMSA**Hamilton—Middletown, OH PMSA—see**
Cincinnati—Hamilton, OH—KY—IN CMSA**Harrisburg—Lebanon—Carlisle, PA MSA**

Cumberland County, PA
Dauphin County, PA
Lebanon County, PA
Perry County, PA

Hartford, CT MSA

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

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

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

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

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

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

Hickory—Morganton, NC MSA

Alexander County, NC
Burke County, NC
Caldwell County, NC
Catawba County, NC

Honolulu, HI MSA

Honolulu County, HI

Houma, LA MSA

Lafourche Parish, LA
Terrebonne Parish, LA

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

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

Huntington—Ashland, WV—KY—OH MSA

Boyd County, KY
Carter County, KY
Greenup County, KY
Lawrence County, OH
Cabell County, WV
Wayne County, WV

Huntsville, AL MSA

Limestone County, AL
Madison County, AL

Indianapolis, IN MSA

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

Iowa City, IA MSA

Johnson County, IA

Jackson, MI MSA

Jackson County, MI

Jackson, MS MSA

Hinds County, MS
Madison County, MS
Rankin County, MS

Jackson, TN MSA

Madison County, TN

Jacksonville, FL MSA

Clay County, FL
Duval County, FL
Nassau County, FL
St. Johns County, FL

Jacksonville, NC MSA

Onslow County, NC

Jamestown, NY MSA

Chautauqua County, NY

Janesville—Beloit, WI MSA

Rock County, WI

Jersey City, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**Johnson City–Kingsport–Bristol, TN–VA MSA**

Carter County, TN
Hawkins County, TN
Sullivan County, TN
Unicoi County, TN
Washington County, TN
Scott County, VA
Washington County, VA
Bristol city, VA

Johnstown, PA MSA

Cambria County, PA
Somerset County, PA

Joplin, MO MSA

Jasper County, MO
Newton County, MO

Kalamazoo–Battle Creek, MI MSA

Calhoun County, MI
Kalamazoo County, MI
Van Buren County, MI

Kankakee, IL PMSA—see Chicago–Gary–Kenosha, IL–IN–WI CMSA**Kansas City, MO–KS MSA**

Johnson County, KS
Leavenworth County, KS
Miami County, KS
Wyandotte County, KS
Cass County, MO
Clay County, MO
Clinton County, MO
Jackson County, MO
Lafayette County, MO
Platte County, MO
Ray County, MO

Kenosha, WI PMSA—see Chicago–Gary–Kenosha, IL–IN–WI CMSA**Killeen–Temple, TX MSA**

Bell County, TX
Coryell County, TX

Knoxville, TN MSA

Anderson County, TN
Blount County, TN
Knox County, TN
Loudon County, TN
Sevier County, TN
Union County, TN

Kokomo, IN MSA

Howard County, IN
Tipton County, IN

La Crosse, WI–MN MSA

Houston County, MN
La Crosse County, WI

Lafayette, LA MSA

Acadia Parish, LA
Lafayette Parish, LA
St. Landry Parish, LA
St. Martin Parish, LA

Lafayette, IN MSA

Clinton County, IN
Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lakeland–Winter Haven, FL MSA

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing–East Lansing, MI MSA

Clinton County, MI
Eaton County, MI
Ingham County, MI

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV–AZ MSA

Mohave County, AZ
Clark County, NV
Nye County, NV

Lawrence, KS MSA

Douglas County, KS

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

Comanche County, OK

Lewiston–Auburn, ME MSA

Androscoggin County, ME (part)
Auburn city, ME
Greene town, ME
Lewiston city, ME
Lisbon town, ME
Mechanic Falls town, ME
Poland town, ME
Sabattus town, ME
Turner town, ME
Wales town, ME

Lexington, KY MSA

Bourbon County, KY
Clark County, KY
Fayette County, KY
Jessamine County, KY
Madison County, KY
Scott County, KY
Woodford County, KY

Lima, OH MSA

Allen County, OH
Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock–North Little Rock, AR MSA

Faulkner County, AR
Lonoke County, AR
Pulaski County, AR
Saline County, AR

Longview–Marshall, TX MSA

Gregg County, TX
Harrison County, TX
Upshur County, TX

Los Angeles–Riverside–Orange County, CA CMSA

Los Angeles–Long Beach, CA PMSA
Los Angeles County, CA
Orange County, CA PMSA
Orange County, CA
Riverside–San Bernardino, CA PMSA
Riverside County, CA
San Bernardino County, CA
Ventura, CA PMSA
Ventura County, CA

Los Angeles–Long Beach, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**Louisville, KY–IN MSA**

Clark County, IN
Floyd County, IN
Harrison County, IN
Scott County, IN
Bullitt County, KY
Jefferson County, KY
Oldham County, KY

Lowell, MA–NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**Lubbock, TX MSA**

Lubbock County, TX

Lynchburg, VA MSA

Amherst County, VA
Bedford County, VA
Campbell County, VA
Bedford city, VA
Lynchburg city, VA

Macon, GA MSA

Bibb County, GA
Houston County, GA
Jones County, GA
Peach County, GA
Twiggs County, GA

Madison, WI MSA

Dane County, WI

Manchester, NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**Mansfield, OH MSA**

Crawford County, OH
Richland County, OH

McAllen–Edinburg–Mission, TX MSA

Hidalgo County, TX

Medford–Ashland, OR MSA

Jackson County, OR

Melbourne–Titusville–Palm Bay, FL MSA

Brevard County, FL

Memphis, TN–AR–MS MSA

Crittenden County, AR
DeSoto County, MS
Fayette County, TN
Shelby County, TN
Tipton County, TN

Merced, CA MSA

Merced County, CA

Miami–Fort Lauderdale, FL CMSA

Fort Lauderdale, FL PMSA
Broward County, FL
Miami, FL PMSA
Dade County, FL

Miami, FL PMSA—see Miami–Fort Lauderdale, FL CMSA**Middlesex–Somerset–Huntingdon, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA****Milwaukee–Waukesha, WI PMSA—see Milwaukee–Racine, WI CMSA****Milwaukee–Racine, WI CMSA**

Milwaukee–Waukesha, WI PMSA
Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI

Milwaukee–Racine, WI CMSA—Con.

Racine, WI PMSA
Racine County, WI

Minneapolis–St. Paul, MN–WI MSA

Anoka County, MN
Carver County, MN
Chisago County, MN
Dakota County, MN
Hennepin County, MN
Isanti County, MN
Ramsey County, MN
Scott County, MN
Sherburne County, MN
Washington County, MN
Wright County, MN
Pierce County, WI
St. Croix County, WI

Mobile, AL MSA

Baldwin County, AL
Mobile County, AL

Modesto, CA MSA

Stanislaus County, CA

Monmouth–Ocean, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**Monroe, LA MSA**

Ouachita Parish, LA

Montgomery, AL MSA

Autauga County, AL
Elmore County, AL
Montgomery County, AL

Muncie, IN MSA

Delaware County, IN

Myrtle Beach, SC MSA

Horry County, SC

Naples, FL MSA

Collier County, FL

Nashua, NH PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**Nashville, TN MSA**

Cheatham County, TN
Davidson County, TN
Dickson County, TN
Robertson County, TN
Rutherford County, TN
Sumner County, TN
Williamson County, TN
Wilson County, TN

Nassau–Suffolk, NY PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**New Bedford, MA PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA****New Haven–Meriden, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA****New London–Norwich, CT–RI MSA**

Middlesex County, CT (part)
Fenwick borough, CT
Old Saybrook town, CT
New London County, CT (part)
Bozrah town, CT
East Lyme town, CT
Franklin town, CT
Griswold town balance, CT
Groton city, CT
Groton town balance, CT

New London–Norwich, CT–RI MSA—Con.

New London County, CT (part)—Con.
Groton Long Point borough, CT
Jewett City borough, CT
Ledyard town, CT
Lisbon town, CT
Montville town, CT
New London city, CT
North Stonington town, CT
Norwich city, CT
Old Lyme town, CT
Preston town, CT
Salem town, CT
Sprague town, CT
Stonington borough, CT
Stonington town, CT
Waterford town, CT
Windham County, CT (part)
Canterbury town, CT
Plainfield town, CT
Washington County, RI (part)
Hopkinton town, RI
Westerly town, RI

New Orleans, LA MSA

Jefferson Parish, LA
Orleans Parish, LA
Plaquemines Parish, LA
St. Bernard Parish, LA
St. Charles Parish, LA
St. James Parish, LA
St. John the Baptist Parish, LA
St. Tammany Parish, LA

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

Bergen–Passaic, NJ PMSA
Bergen County, NJ
Passaic County, NJ
Bridgeport, CT PMSA
Fairfield County, CT (part)
Bridgeport city, CT
Easton town, CT
Fairfield town, CT
Monroe town, CT
Shelton city, CT
Stratford town, CT
Trumbull town, CT
New Haven County, CT (part)
Ansonia city, CT
Beacon Falls town, CT
Derby city, CT
Milford city (balance), CT
Oxford town, CT
Seymour town, CT
Woodmont borough, CT
Danbury, CT PMSA
Fairfield County, CT (part)
Bethel town, CT
Brookfield town, CT
Danbury city, CT
New Fairfield town, CT
Newtown borough, CT
Newtown town, CT
Redding town, CT
Ridgefield town, CT
Sherman town, CT
Litchfield County, CT (part)
Bridgewater town, CT
New Milford town, CT
Roxbury town, CT
Washington town, CT
Dutchess County, NY PMSA
Dutchess County, NY

New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA—Con.

Jersey City, NJ PMSA
Hudson County, NJ
Middlesex–Somerset–Hunterdon, NJ PMSA
Hunterdon County, NJ
Middlesex County, NJ
Somerset County, NJ
Monmouth–Ocean, NJ PMSA
Monmouth County, NJ
Ocean County, NJ
Nassau–Suffolk, NY PMSA
Nassau County, NY
Suffolk County, NY
New Haven–Meriden, CT PMSA
Middlesex County, CT (part)
Clinton town, CT
Killingworth town, CT
New Haven County, CT (part)
Bethany town, CT
Branford town, CT
Cheshire town, CT
East Haven town, CT
Guilford town, CT
Hamden town, CT
Madison town, CT
Meriden city, CT
New Haven city, CT
North Branford town, CT
North Haven town, CT
Orange town, CT
Wallingford town, CT
West Haven city, CT
Woodbridge town, CT
New York, NY PMSA
Bronx County, NY
Kings County, NY
New York County, NY
Putnam County, NY
Queens County, NY
Richmond County, NY
Rockland County, NY
Westchester County, NY
Newark, NJ PMSA
Essex County, NJ
Morris County, NJ
Sussex County, NJ
Union County, NJ
Warren County, NJ
Newburgh, NY–PA PMSA
Orange County, NY
Pike County, PA
Stamford–Norwalk, CT PMSA
Fairfield County, CT (part)
Darien town, CT
Greenwich town, CT
New Canaan town, CT
Norwalk city, CT
Stamford city, CT
Weston town, CT
Westport town, CT
Wilton town, CT
Trenton, NJ PMSA
Mercer County, NJ
Waterbury, CT PMSA
Litchfield County, CT (part)
Bethlehem town, CT
Thomaston town, CT
Watertown town, CT
Woodbury town, CT
New Haven County, CT (part)
Middlebury town, CT
Naugatuck borough, CT
Prospect town, CT
Southbury town, CT
Waterbury city, CT
Wolcott town, CT

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

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

Norfolk–Virginia Beach–Newport News, VA–NC MSA

Currituck County, NC
Gloucester County, VA
Isle of Wight County, VA
James City County, VA
Mathews County, VA
York County, VA
Chesapeake city, VA
Hampton city, VA
Newport News city, VA
Norfolk city, VA
Poquoson city, VA
Portsmouth city, VA
Suffolk city, VA
Virginia Beach city, VA
Williamsburg city, VA

Oakland, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA

Ocala, FL MSA

Marion County, FL

Odessa–Midland, TX MSA

Ector County, TX
Midland County, TX

Oklahoma City, OK MSA

Canadian County, OK
Cleveland County, OK
Logan County, OK
McClain County, OK
Oklahoma County, OK
Pottawatomie County, OK

Olympia, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA

Omaha, NE–IA MSA

Pottawattamie County, IA
Cass County, NE
Douglas County, NE
Sarpy County, NE
Washington County, NE

Orange County, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA

Orlando, FL MSA

Lake County, FL
Orange County, FL
Osceola County, FL
Seminole County, FL

Owensboro, KY MSA

Daviess County, KY

Panama City, FL MSA

Bay County, FL

Parkersburg–Marietta, WV–OH MSA

Washington County, OH
Wood County, WV

Pensacola, FL MSA

Escambia County, FL
Santa Rosa County, FL

Peoria–Pekin, IL MSA

Peoria County, IL
Tazewell County, IL
Woodford County, IL

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

Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA

Atlantic–Cape May, NJ PMSA
Atlantic County, NJ
Cape May County, NJ

Philadelphia, PA–NJ PMSA
Burlington County, NJ
Camden County, NJ
Gloucester County, NJ
Salem County, NJ
Bucks County, PA
Chester County, PA
Delaware County, PA
Montgomery County, PA

Philadelphia County, PA
Vineland–Millville–Bridgeton, NJ PMSA
Cumberland County, NJ

Wilmington–Newark, DE–MD PMSA
New Castle County, DE
Cecil County, MD

Phoenix–Mesa, AZ MSA

Maricopa County, AZ
Pinal County, AZ

Pine Bluff, AR MSA

Jefferson County, AR

Pittsburgh, PA MSA

Allegheny County, PA
Beaver County, PA
Butler County, PA
Fayette County, PA
Washington County, PA
Westmoreland County, PA

Pittsfield, MA MSA

Berkshire County, MA (part)
Adams town, MA
Cheshire town, MA
Dalton town, MA
Hinsdale town, MA
Lanesborough town, MA
Lee town, MA
Lenox town, MA
Pittsfield city, MA
Richmond town, MA
Stockbridge town, MA

Portland, ME MSA

Cumberland County, ME (part)
Cape Elizabeth town, ME
Casco town, ME
Cumberland town, ME
Falmouth town, ME
Freeport town, ME
Gorham town, ME
Gray town, ME
North Yarmouth town, ME
Portland city, ME
Raymond town, ME
Scarborough town, ME
South Portland city, ME
Standish town, ME
Westbrook city, ME
Windham town, ME
Yarmouth town, ME
York County, ME (part)
Buxton town, ME
Hollis town, ME
Limington town, ME
Old Orchard Beach town, ME

Portland–Vancouver, OR–WA PMSA—see Portland–Salem, OR–WA CMSA

Portland–Salem, OR–WA CMSA

Portland–Vancouver, OR–WA PMSA

Clackamas County, OR
Columbia County, OR
Multnomah County, OR
Washington County, OR
Yamhill County, OR
Clark County, WA

Salem, OR PMSA

Marion County, OR
Polk County, OR

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

Providence–Fall River–Warwick, RI–MA MSA

Bristol County, MA (part)
Attleboro city, MA
Fall River city, MA
North Attleborough town, MA
Rehoboth town, MA
Seekonk town, MA
Somerset town, MA
Swansea town, MA
Westport town, MA
Bristol County, RI
Barrington town, RI
Bristol town, RI
Warren town, RI
Kent County, RI
Coventry town, RI
East Greenwich town, RI
Warwick city, RI
West Greenwich town, RI
West Warwick town, RI
Newport County, RI (part)
Jamestown town, RI
Little Compton town, RI
Tiverton town, RI
Providence County, RI
Burrillville town, RI
Central Falls city, RI
Cranston city, RI
Cumberland town, RI
East Providence city, RI
Foster town, RI
Glocester town, RI
Johnston town, RI
Lincoln town, RI
North Providence town, RI
North Smithfield town, RI
Pawtucket city, RI
Providence city, RI
Scituate town, RI
Smithfield town, RI
Woonsocket city, RI
Washington County, RI (part)
Charlestown town, RI
Exeter town, RI
Narragansett town, RI
North Kingstown town, RI
Richmond town, RI
South Kingstown town, RI

Provo–Orem, UT MSA

Utah County, UT

Pueblo, CO MSA

Pueblo County, CO

Punta Gorda, FL MSA

Charlotte County, FL

Racine, WI PMSA—see Milwaukee–Racine, WI CMSA

Raleigh–Durham–Chapel Hill, NC MSA

Chatham County, NC
Durham County, NC
Franklin County, NC
Johnston County, NC
Orange County, NC
Wake County, NC

Rapid City, SD MSA

Pennington County, SD

Reading, PA MSA

Berks County, PA

Redding, CA MSA

Shasta County, CA

Reno, NV MSA

Washoe County, NV

Richland–Kennewick–Pasco, WA MSA

Benton County, WA
Franklin County, WA

Richmond–Petersburg, VA MSA

Charles City County, VA
Chesterfield County, VA
Dinwiddie County, VA
Goochland County, VA
Hanover County, VA
Henrico County, VA
New Kent County, VA
Powhatan County, VA
Prince George County, VA
Colonial Heights city, VA
Hopewell city, VA
Petersburg city, VA
Richmond city, VA

Riverside–San Bernardino, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA

Roanoke, VA MSA

Botetourt County, VA
Roanoke County, VA
Roanoke city, VA
Salem city, VA

Rochester, MN MSA

Olmsted County, MN

Rochester, NY MSA

Genesee County, NY
Livingston County, NY
Monroe County, NY
Ontario County, NY
Orleans County, NY
Wayne County, NY

Rockford, IL MSA

Boone County, IL
Ogle County, IL
Winnebago County, IL

Rocky Mount, NC MSA

Edgecombe County, NC
Nash County, NC

Sacramento, CA PMSA—see Sacramento–Yolo, CA CMSA

Sacramento–Yolo, CA CMSA

Sacramento, CA PMSA
El Dorado County, CA
Placer County, CA
Sacramento County, CA
Yolo, CA PMSA
Yolo County, CA

Saginaw–Bay City–Midland, MI MSA

Bay County, MI
Midland County, MI
Saginaw County, MI

St. Cloud, MN MSA

Benton County, MN
Stearns County, MN

St. Joseph, MO MSA

Andrew County, MO
Buchanan County, MO

St. Louis, MO–IL MSA

Clinton County, IL
Jersey County, IL
Madison County, IL
Monroe County, IL
St. Clair County, IL
Franklin County, MO
Jefferson County, MO
Lincoln County, MO
St. Charles County, MO
St. Louis County, MO
Warren County, MO
St. Louis city, MO

Salem, OR PMSA—see Portland–Salem, OR–WA CMSA

Salinas, CA MSA

Monterey County, CA

Salt Lake City–Ogden, UT MSA

Davis County, UT
Salt Lake County, UT
Weber County, UT

San Angelo, TX MSA

Tom Green County, TX

San Antonio, TX MSA

Bexar County, TX
Comal County, TX
Guadalupe County, TX
Wilson County, TX

San Diego, CA MSA

San Diego County, CA

San Francisco, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA

San Francisco–Oakland–San Jose, CA CMSA

Oakland, CA PMSA
Alameda County, CA
Contra Costa County, CA
San Francisco, CA PMSA
Marin County, CA
San Francisco County, CA
San Mateo County, CA
San Jose, CA PMSA
Santa Clara County, CA
Santa Cruz–Watsonville, CA PMSA
Santa Cruz County, CA
Santa Rosa, CA PMSA
Sonoma County, CA
Vallejo–Fairfield–Napa, CA PMSA
Napa County, CA
Solano County, CA

San Jose, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA

San Luis Obispo–Atascadero–Paso Robles, CA MSA

San Luis Obispo County, CA

Santa Barbara–Santa Maria–Lompoc, CA MSA

Santa Barbara County, CA

Santa Cruz–Watsonville, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA

Santa Fe, NM MSA

Los Alamos County, NM
Santa Fe County, NM

Santa Rosa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA

Sarasota–Bradenton, FL MSA

Manatee County, FL
Sarasota County, FL

Savannah, GA MSA

Bryan County, GA
Chatham County, GA
Effingham County, GA

Scranton–Wilkes-Barre–Hazleton, PA MSA

Columbia County, PA
Lackawanna County, PA
Luzerne County, PA
Wyoming County, PA

Seattle–Bellevue–Everett, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA

Seattle–Tacoma–Bremerton, WA CMSA

Bremerton, WA PMSA
Kitsap County, WA
Olympia, WA PMSA
Thurston County, WA
Seattle–Bellevue–Everett, WA PMSA
Island County, WA
King County, WA
Snohomish County, WA
Tacoma, WA PMSA
Pierce County, WA

Sharon, PA MSA

Mercer County, PA

Sheboygan, WI MSA

Sheboygan County, WI

Sherman–Denison, TX MSA

Grayson County, TX

Shreveport–Bossier City, LA MSA

Bossier Parish, LA
Caddo Parish, LA
Webster Parish, LA

Sioux City, IA–NE MSA

Woodbury County, IA
Dakota County, NE

Sioux Falls, SD MSA

Lincoln County, SD
Minnehaha County, SD

South Bend, IN MSA

St. Joseph County, IN

Spokane, WA MSA

Spokane County, WA

Springfield, IL MSA

Menard County, IL
Sangamon County, IL

Springfield, MO MSA

Christian County, MO
Greene County, MO
Webster County, MO

Springfield, MA MSA

Franklin County, MA (part)
Sunderland town, MA
Hampden County, MA (part)
Agawam city, MA
Chicopee city, MA

Springfield, MA MSA—Con.

Hampden County, MA (part)—Con.
 East Longmeadow town, MA
 Hampden town, MA
 Holyoke city, MA
 Longmeadow town, MA
 Ludlow town, MA
 Monson town, MA
 Montgomery town, MA
 Palmer town, MA
 Russell town, MA
 Southwick town, MA
 Springfield city, MA
 Westfield city, MA
 West Springfield town, MA
 Wilbraham town, MA
 Hampshire County, MA (part)
 Amherst town, MA
 Belchertown town, MA
 Easthampton town, MA
 Granby town, MA
 Hadley town, MA
 Hatfield town, MA
 Huntington town, MA
 Northampton city, MA
 Southampton town, MA
 South Hadley town, MA
 Ware town, MA
 Williamsburg town, MA

Stamford–Norwalk, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**State College, PA MSA**
Centre County, PA**Steubenville–Weirton, OH–WV MSA**

Jefferson County, OH
 Brooke County, WV
 Hancock County, WV

Stockton–Lodi, CA MSA
San Joaquin County, CA**Sumter, SC MSA**
Sumter County, SC**Syracuse, NY MSA**
Cayuga County, NY
Madison County, NY
Onondaga County, NY
Oswego County, NY**Tacoma, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA****Tallahassee, FL MSA**
Gadsden County, FL
Leon County, FL**Tampa–St. Petersburg–Clearwater, FL MSA**
Hernando County, FL
Hillsborough County, FL
Pasco County, FL
Pinellas County, FL**Terre Haute, IN MSA**
Clay County, IN
Vermillion County, IN
Vigo County, IN**Texarkana, TX–Texarkana, AR MSA**
Miller County, AR
Bowie County, TX**Toledo, OH MSA**

Fulton County, OH
 Lucas County, OH
 Wood County, OH

Topeka, KS MSA
Shawnee County, KS**Trenton, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA****Tucson, AZ MSA**
Pima County, AZ**Tulsa, OK MSA**
Creek County, OK
Osage County, OK
Rogers County, OK
Tulsa County, OK
Wagoner County, OK**Tuscaloosa, AL MSA**
Tuscaloosa County, AL**Tyler, TX MSA**
Smith County, TX**Utica–Rome, NY MSA**
Herkimer County, NY
Oneida County, NY**Vallejo–Fairfield–Napa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA****Ventura, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA****Victoria, TX MSA**
Victoria County, TX**Vineland–Millville–Bridgeton, NJ PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA****Visalia–Tulare–Porterville, CA MSA**
Tulare County, CA**Waco, TX MSA**
McLennan County, TX**Washington, DC–MD–VA–WV PMSA—see Washington–Baltimore, DC–MD–VA–WV CMSA****Washington–Baltimore, DC–MD–VA–WV CMSA**
Baltimore, MD PMSA
Anne Arundel County, MD
Baltimore County, MD
Carroll County, MD
Harford County, MD
Howard County, MD
Queen Anne's County, MD
Baltimore city, MD
Hagerstown, MD PMSA
Washington County, MD
Washington, DC–MD–VA–WV PMSA
District of Columbia, DC
Calvert County, MD
Charles County, MD
Frederick County, MD
Montgomery County, MD
Prince George's County, MD
Arlington County, VA
Clarke County, VA
Culpeper County, VA
Fairfax County, VA**Washington–Baltimore, DC–MD–VA–WV CMSA—Con.**

Washington, DC–MD–VA–WV PMSA—Con.
 Fauquier County, VA
 King George County, VA
 Loudoun County, VA
 Prince William County, VA
 Spotsylvania County, VA
 Stafford County, VA
 Warren County, VA
 Alexandria city, VA
 Fairfax city, VA
 Falls Church city, VA
 Fredericksburg city, VA
 Manassas city, VA
 Manassas Park city, VA
 Berkeley County, WV
 Jefferson County, WV

Waterbury, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**Waterloo–Cedar Falls, IA MSA**
Black Hawk County, IA**Wausau, WI MSA**
Marathon County, WI**West Palm Beach–Boca Raton, FL MSA**
Palm Beach County, FL**Wheeling, WV–OH MSA**
Belmont County, OH
Marshall County, WV
Ohio County, WV**Wichita, KS MSA**
Butler County, KS
Harvey County, KS
Sedgwick County, KS**Wichita Falls, TX MSA**
Archer County, TX
Wichita County, TX**Williamsport, PA MSA**
Lycoming County, PA**Wilmington–Newark, DE–MD PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA****Wilmington, NC MSA**
Brunswick County, NC
New Hanover County, NC**Worcester, MA–CT PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA****Yakima, WA MSA**
Yakima County, WA**Yolo, CA PMSA—see Sacramento–Yolo, CA CMSA****York, PA MSA**
York County, PA**Youngstown–Warren, OH MSA**
Columbiana County, OH
Mahoning County, OH
Trumbull County, OH**Yuba City, CA MSA**
Sutter County, CA
Yuba County, CA**Yuma, AZ MSA**
Yuma County, AZ

Publication Program

1992 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)

Data products in the census of construction industries are issued in four publication series and in three media:

- Printed reports [P]
- CD-ROM [C]
- Highlights online [+]

Preliminary Industry Series (CC92-I-1(P) to -27(P))

(Available July 1994 through January 1995) [P] [C]

Twenty-six separate industry reports and a U.S. summary report, providing national statistics for establishments with payroll. Statistics shown for 1992 include:

- Number of establishments
- Number of employees
- Payroll
- Value of construction work done, by type of structure
- Selected operating costs

Final Industry Series (CC92-I-1 to -27)

(Available April 1995 through January 1996) [P] [C] [+]

Twenty-six separate industry reports and a U.S. summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

Geographic Area Series (CC92-A-1 to -10)

(Available March 1996 through May 1996) [P] [C] [+]

Nine reports on the construction industries, representing each census geographic division, and a U.S. summary report. Regional reports provide detailed data for States and metropolitan areas.

Subject Report—Legal Form of Organization and Type of Operation (CC92-S-1)

(Available November 1995) [P] [C]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUS REPORTS

The census of construction industries is part of the 1992 Economic Census. The economic census is conducted at 5-year intervals in years ending in 2 and 7 and consists of eight separate censuses:

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

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the census of outlying areas, including separate economic census of Puerto Rico and other outlying areas. The census of agriculture and census of governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300. If you have any questions, call Census Customer Services 1-301-457-4100.