

1992

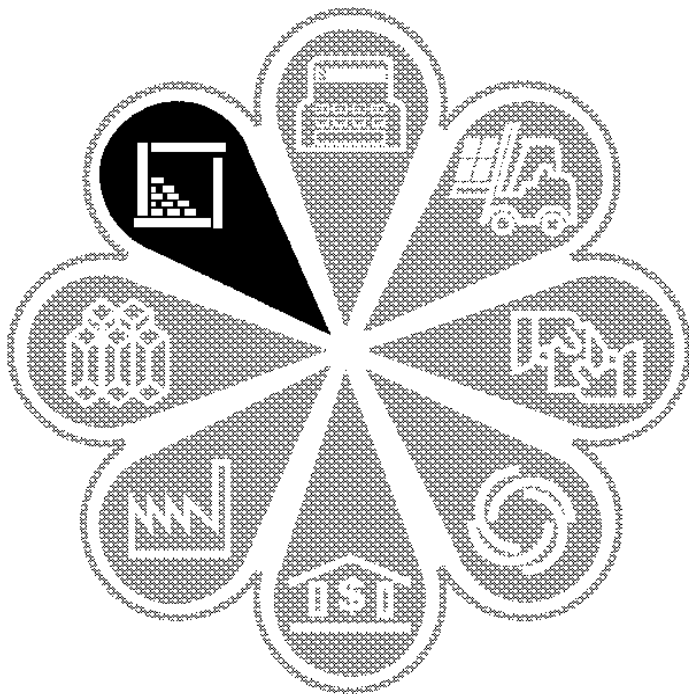
Census of Construction Industries

CC92-A-6

GEOGRAPHIC AREA SERIES

East South Central States

Alabama, Kentucky, Mississippi,
Tennessee



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.

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

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Issued March 1996



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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

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

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

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

AUTHORITY AND SCOPE

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

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

IV INTRODUCTION

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

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

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

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

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

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

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

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

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

Census of Construction

GENERAL

The 1992 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction or construction on their own account for sale as defined in the *Standard Industrial Classification Manual: 1987*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.

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.

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

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

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

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

ESTABLISHMENT BASIS OF REPORTING

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

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

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

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

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

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

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

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

Employer Companies

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

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

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

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

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

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

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

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

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

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

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

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

p_i is the selection probability of that firm.

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

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

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

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

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

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

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

Nonemployer Companies

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

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

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

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

CENSUS REPORT FORMS

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

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

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

DATA PROCESSING

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

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

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

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

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

GEOGRAPHIC CLASSIFICATION

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

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

CHANGE IN COLLECTION METHODOLOGY FOR VALUE OF CONSTRUCTION WORK DONE

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

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

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

DUPLICATION IN VALUE OF CONSTRUCTION WORK

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

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

SPECIAL TABULATIONS

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

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

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

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

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

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

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

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

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

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

Statistics	By State	By industry	By employment size	By size class of dollar value of business done	By CMSA, PMSA, and MSA 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.



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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Alabama. 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 30,823 establishments in this State operating in the construction industries. These establishments accounted for \$8.3 billion in total dollar value of business done.

Most of the 30,823 construction establishments were small. Of the total, 23,170 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,256 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 81 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$7.6 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 \$1.9 billion, leaving net value of construction work of \$5.5 billion. In addition, these establishments paid out \$2.8 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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.

and the cost of selected purchased services. Value added for 1992 was \$3.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 7,653 establishments with total employment averaging 78,254 during the year. Total payroll for 1992 was \$1.6 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 23,170 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$641 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 tables 1 of this report.

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

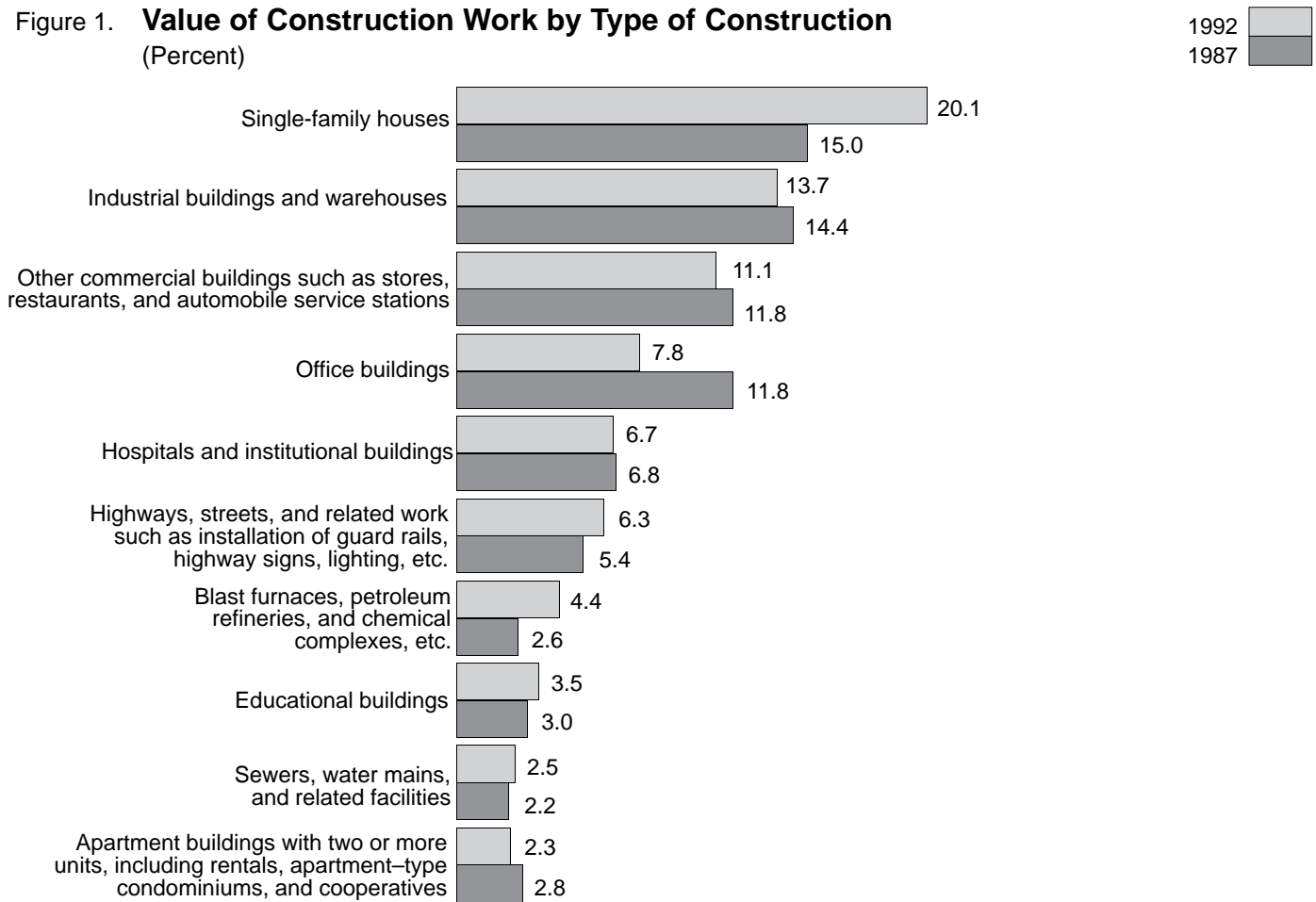


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

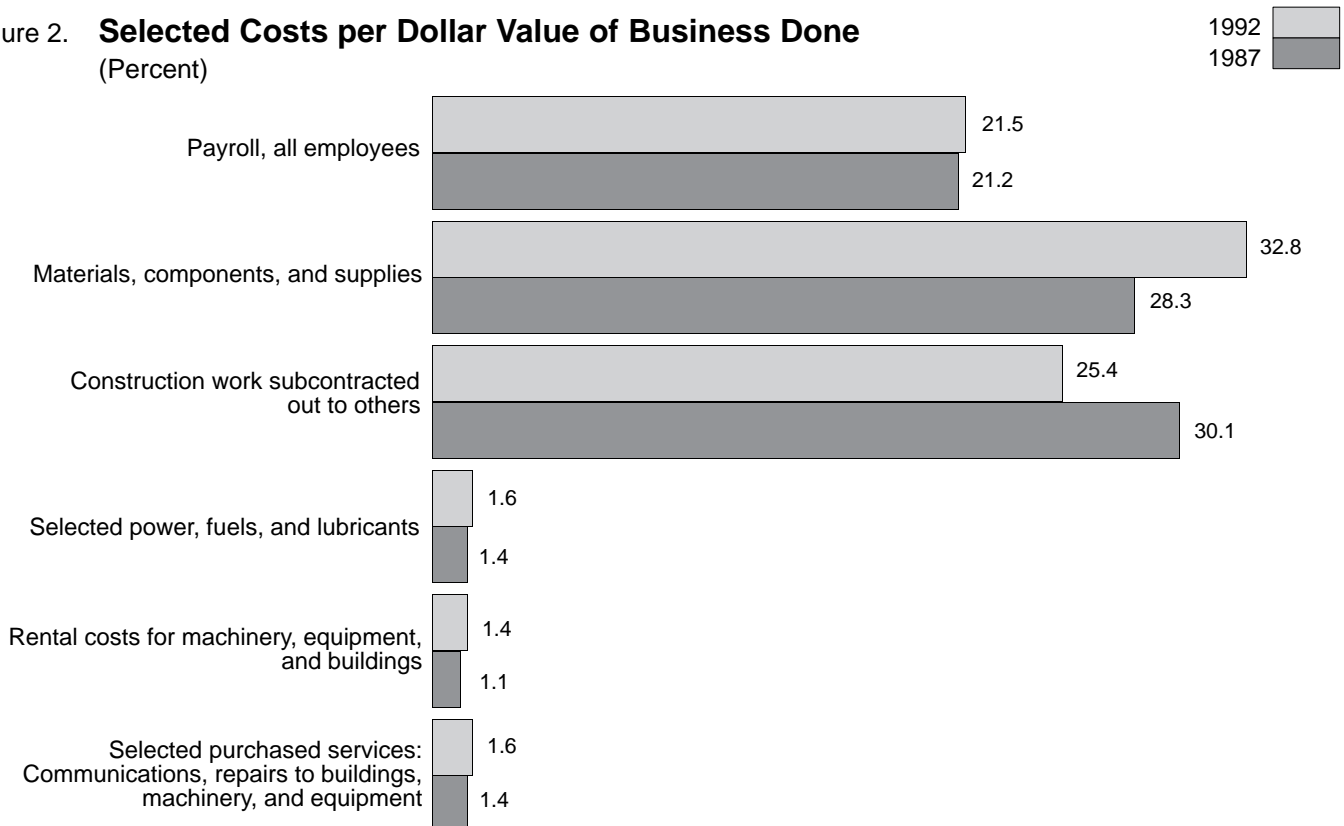


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done 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
1992															
15, 16, 17	Construction industries -----	30 823	26 635	78 254	8 267 070	23 170	22 775	640 744	7 653	3 860	78 254	7 626 326	1	1	
15	Building construction—General contractors and operative builders ----	5 798	4 173	23 721	3 750 344	3 500	3 157	262 603	2 298	1 016	23 721	3 487 741	2	2	
16	Heavy construction other than building construction—contractors -----	1 136	745	13 498	1 512 443	514	505	14 962	622	240	13 498	1 497 481	2	1	
17	Special trade contractors -----	23 889	21 717	41 036	3 004 283	19 156	19 113	363 179	4 733	2 604	41 036	2 641 104	1	1	
1711	Plumbing, heating, and air-conditioning --	2 788	2 143	10 667	869 454	1 648	1 638	46 717	1 140	505	10 667	822 737	2	2	
1731	Electrical work -----	1 940	1 568	6 756	489 706	1 286	1 272	19 303	654	296	6 756	470 403	3	5	
1987															
15, 16, 17	Construction industries ² -----	30 062	24 200	84 812	8 542 039	22 662	22 294	1 051 902	7 400	1 906	84 812	7 490 137	1	1	
15	Building construction—General contractors and operative builders ----	6 984	4 782	(D)	4 268 500	4 712	4 364	423 385	2 272	418	(D)	3 845 115	(D)	2	
16	Heavy construction other than building construction—contractors -----	999	544	16 069	1 485 115	396	401	27 635	603	143	16 069	1 457 480	2	1	
17	Special trade contractors -----	21 356	18 289	(D)	2 596 949	16 949	16 990	453 258	4 407	1 299	(D)	2 143 691	(D)	1	
1711	Plumbing, heating, and air-conditioning --	2 586	1 785	9 187	661 877	1 519	1 524	61 212	1 067	261	9 187	600 665	2	2	
1731	Electrical work -----	1 702	1 240	6 813	442 178	1 102	1 104	28 694	600	136	6 813	413 484	3	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 establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹	7 653	78 254	62 106	1 637 862	1 145 090	7 461 733	5 524 109	3 064 915
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	1 362	5 316	3 882	79 442	52 325	565 373	395 770	218 646
1522	Other residential buildings	60	709	556	13 007	8 401	95 730	51 181	24 558
1531	Operative builders	296	1 317	637	29 580	10 125	431 333	287 102	74 225
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	163	6 739	5 643	174 570	134 499	494 291	386 242	256 468
1542	Nonresidential buildings, n.e.c.	416	9 640	7 210	238 901	149 164	1 866 014	800 967	340 077
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	149	4 268	3 644	87 067	63 395	441 340	357 941	221 984
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	15	763	632	16 240	12 549	92 482	63 712	27 009
1623	Water, sewer, and utility lines	167	3 082	2 554	63 870	45 806	264 735	226 169	134 470
1629	Heavy construction, n.e.c.	292	5 384	3 993	143 717	84 469	634 169	566 090	301 392
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	1 140	10 667	8 328	237 663	172 412	800 645	743 871	437 945
1721	Painting and paper hanging	374	2 575	2 127	48 723	35 993	129 873	119 110	85 163
1731	Electrical work	654	6 756	5 412	141 907	102 150	464 828	430 120	254 651
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	300	2 941	2 644	39 252	32 842	122 657	(D)	75 355
1742	Plastering, drywall, and insulation work	233	2 693	2 223	50 292	38 185	168 090	155 048	92 605
1743	Terrazzo, tile, marble, and mosaic work	105	672	545	11 777	7 778	35 646	35 377	22 371
175	Carpentry and floor work:								
1751	Carpentry	372	1 543	1 293	23 837	19 452	96 396	82 870	46 376
1752	Floor laying and other floor work	131	557	422	8 944	6 168	39 293	36 648	20 997
1761	Roofing, siding, and sheet metal work	379	3 002	2 375	54 075	36 443	188 620	175 777	96 922
1771	Concrete work	279	2 345	2 033	35 886	27 887	125 081	116 216	72 084
1781	Water well drilling	24	131	96	2 321	1 492	9 200	8 934	5 089
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	44	873	745	20 437	16 239	43 277	40 921	37 974
1793	Glass and glazing work	42	582	445	9 892	6 461	35 864	(D)	18 479
1794	Excavation work	204	1 226	988	20 728	16 257	93 005	80 872	51 679
1795	Wrecking and demolition work	7	186	165	2 796	2 301	5 671	5 387	6 878
1796	Installing building equipment, n.e.c.	55	1 235	1 023	27 889	21 508	66 569	64 109	46 959
1799	Special trade contractors, n.e.c.	392	3 053	2 491	55 048	40 790	151 550	140 928	94 561

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
2 623 787	1 937 625	1 768 171	103 826	115 313	1 067 891	84 812	7 261 360	2 946 167	1	1	5	15, 16, 17
185 401 27 314	169 603 44 550	(S) 4 254	5 402 1 100	6 315 (S)	41 057 (S)	5 816 532	497 097 85 780	177 006 24 498	6 11	7 8	30 (S)	152 1521 1522
(S)	144 232	*6 744	(S)	2 570	26 369	(D)	359 331	(D)	10	12	33	1531
131 290 478 722	108 048 1 065 046	18 898 34 751	15 406 16 288	4 454 7 981	28 908 100 181	8 758 13 075	584 147 2 225 696	321 037 450 271	3 3	4 2	12 8	154 1541 1542
159 968	83 399	101 468	8 774	15 274	219 531	3 587	371 534	143 253	3	2	5	1611
37 057 96 746 300 042	28 770 38 566 68 079	16 386 69 126 91 303	807 7 452 9 541	3 845 8 377 14 921	28 372 80 590 139 372	530 3 519 8 433	57 804 229 765 727 367	22 516 133 635 365 702	5 5 3	3 6 2	26 12 16	162 1622 1623 1629
328 018	56 774	399 435	10 622	15 133	98 325	9 187	596 364	299 431	2	2	11	1711
34 717	10 762	79 193	3 319	2 484	20 003	2 277	103 009	70 047	6	5	22	1721
181 044	*34 708	260 706	4 394	7 431	58 376	6 813	401 661	231 415	3	3	15	1731
(D) (S) 15 645	(D) 13 041 269	88 114 142 273 28 229	1 314 (S) 230	(D) 4 166 298	12 251 22 125 3 975	3 422 3 051 409	103 130 189 809 20 931	58 742 109 099 11 873	4 7 11	(D) 7 8	(D) 24 11	174 1741 1742 1743
37 509 17 567	13 526 2 645	43 722 24 608	588 350	(S) 765	5 904 5 121	1 144 (D)	42 502 33 172	23 135 (D)	10 12	11 13	(S) 39	175 1751 1752
82 207	12 843	85 503	2 425	3 365	33 048	2 631	141 776	81 933	7	6	28	1761
46 393	8 866	70 923	2 042	2 432	32 845	2 275	117 493	69 076	9	8	17	1771
3 844	266	468	41	206	(S)	146	7 710	4 651	18	20	18	1781
(D) (D) 29 912	2 356 (D) 12 133	23 381 26 792 (S)	2 585 476 (S)	(S) 165 (S)	15 389 2 341 43 805	799 643 1 004	35 511 47 952 65 947	23 814 24 759 46 775	8 4 12	8 (D) 14	(S) 34 52	1791 1791 1793 1794
(D) (D) 51 619	284 2 461 10 622	557 14 422 45 752	(D) 1 436 (D)	(D) *989 *3 313	4 952 13 359 22 682	95 1 239 2 527	4 437 68 409 118 173	4 636 49 915 77 387	(Z) 6 7	(Z) 6 7	(D) 62 58	1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

ALABAMA AL-7

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	7 653	7 400	5 782	7 400	1	1	2	3
Proprietors and working partners.....	3 860	1 906	2 066	4 834	2	6	5	5
All employees**	78 254	84 812	67 397	80 752	1	1	1	1
Construction workers:								
March.....	59 013	68 592	52 158	65 793	1	1	1	1
May.....	62 785	71 328	54 903	71 465	1	1	1	1
August.....	65 242	71 562	56 804	76 029	1	1	1	1
November.....	61 383	66 100	53 026	68 921	1	1	1	1
Average.....	62 106	69 395	54 729	70 589	1	1	1	1
Other employees:								
March.....	16 195	15 638	12 584	9 776	1	1	2	3
May.....	16 061	15 356	(NA)	(NA)	1	1	(NA)	(NA)
August.....	16 161	15 490	(NA)	(NA)	1	1	(NA)	(NA)
November.....	16 177	15 214	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	16 148	15 424	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	1 637 862	1 588 642	1 029 730	844 281	1	1	1	1
Payroll, construction workers	1 145 090	1 207 030	776 988	683 932	1	1	1	1
Payroll, other employees	492 772	381 612	252 741	160 348	1	1	1	3
First-quarter payroll, all employees	365 581	369 504	235 588	179 990	1	1	1	1
Fringe benefits, all employees	341 995	290 393	186 625	133 470	1	1	1	1
Legally required expenditures.....	248 925	210 722	137 051	89 155	1	1	1	1
Voluntary expenditures.....	93 070	79 670	49 574	44 315	2	1	1	1
Dollar value of business done	7 626 326	7 490 137	4 489 385	3 616 621	1	1	1	1
Value of construction work	7 461 733	7 261 360	4 374 981	3 495 064	1	1	1	1
Value of construction work subcontracted in from others	1 768 171	1 271 150	788 020	684 140	3	2	2	1
Other business receipts.....	164 593	166 166	121 591	121 557	3	4	3	9
Net value of construction†	5 524 109	5 005 363	3 043 654	2 620 646	1	1	1	1
Value added††	3 064 915	2 946 167	1 725 329	1 515 343	1	1	1	1
Selected costs	4 561 411	4 481 360	2 741 243	2 054 710	1	1	1	1
Materials, components, and supplies	2 501 769	2 119 247	1 323 104	1 107 660	1	2	1	1
Construction work subcontracted out to others	1 937 625	2 255 997	1 331 327	874 419	2	1	1	1
Selected power, fuels, and lubricants.....	122 018	106 114	86 811	72 631	2	2	2	4
Electricity.....	21 660	16 743	12 058	9 847	3	2	2	4
Natural gas.....	5 232	4 151	3 583	4 988	5	3	3	11
Gasoline and diesel fuel	88 305	76 535	63 671	46 356	2	2	2	3
On highway use.....	62 688	56 662	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use.....	25 617	19 873	(NA)	(NA)	3	4	(NA)	(NA)
Other, including lubricating oils and greases.....	6 821	8 684	7 497	11 440	3	3	4	9
Rental cost for machinery, equipment, and buildings	103 826	83 345	46 947	38 277	3	3	2	3
For machinery and equipment	77 080	61 514	38 116	32 713	3	3	2	3
For buildings.....	26 747	21 831	8 831	5 564	4	3	4	4
Selected purchased services	119 208	108 448	70 267	66 089	3	2	1	2
Communication services	35 836	30 089	18 219	14 074	3	2	2	3
Repairs to buildings and other structures	5 581	5 216	3 292	2 953	7	6	4	4
Repairs to machinery and equipment	77 791	73 142	48 755	49 062	4	2	2	2
Ownership of construction projects:								
Value of construction work	7 461 733	7 261 360	4 374 981	3 495 064	1	1	1	1
Government owned	1 849 619	1 924 162	1 210 899	897 455	3	2	2	1
Federal	523 356	845 515	(NA)	(NA)	4	3	(NA)	(NA)
State and local	1 326 263	1 078 647	(NA)	(NA)	4	3	(NA)	(NA)
Privately owned	5 612 115	5 337 198	3 164 082	2 597 609	2	2	1	1

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

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

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

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	1 021 646	826 934	2	3
Capital expenditures, other than land	115 313	128 753	5	5
New	87 168	88 384	5	4
Used	28 145	40 368	11	12
Retirements and disposition of depreciable assets	69 069	59 306	15	7
End-of-year gross book value of depreciable assets	1 067 891	896 381	2	2
Depreciation charges during year	120 377	99 887	3	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	125 289	175 152	6	8
Capital expenditures, other than land	13 059	25 512	16	11
New buildings and other structures	8 416	13 965	19	11
Used buildings and other structures	4 643	11 547	27	20
Retirements and disposition of depreciable assets	(S)	14 227	(S)	22
End-of-year gross book value of depreciable assets	133 663	186 436	6	7
Depreciation charges during year	10 842	15 933	8	10
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	896 358	651 782	2	2
Capital expenditures, other than land	102 254	103 240	5	5
New machinery and equipment, including automobiles and trucks	78 752	74 419	5	5
New automobiles and trucks, intended primarily for highway use	30 470	33 444	7	5
Used machinery and equipment, including automobiles and trucks	23 503	28 821	10	10
Retirements and disposition of depreciable assets	64 384	45 078	16	5
End-of-year gross book value of depreciable assets	934 228	709 944	2	2
Depreciation charges during year	109 535	83 953	3	3

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	7 653	1
Value of construction work	7 461 733	1
Establishments with inventories:		
Number	1 900	3
Value of construction work	2 501 325	1
Inventories¹:		
End of 1992, materials and supplies	104 276	23
End of 1991, materials and supplies	90 308	10
Establishments with no inventories:		
Number	2 878	3
Value of construction work	3 562 022	1
Establishments not reporting:		
Number	2 876	2
Value of construction work	1 398 386	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	7 653	(S)	1 530	926	581	136	67	9	5	2
All employees**	78 254	8 518	9 941	12 262	17 165	9 028	9 852	2 770	8 720	(D)
Payroll, all employees	1 637 862	118 347	164 698	221 516	362 419	211 355	237 870	79 424	242 233	(D)
Dollar value of business done	7 626 326	887 816	801 725	928 678	1 637 782	910 219	1 120 849	359 531	979 726	(D)
Value of construction work	7 461 733	880 282	790 900	909 485	1 608 309	894 573	1 081 224	358 513	938 448	(D)
Net value of construction work†	5 524 109	670 396	615 049	731 192	1 194 192	641 886	792 221	229 580	649 592	(D)
Value added††	3 064 915	328 057	358 521	444 804	672 056	377 371	461 569	78 047	344 490	(D)
Cost of materials, components, supplies, and fuels	2 623 787	349 872	267 354	305 582	551 610	280 161	370 277	(S)	346 380	(D)
Cost of construction work subcontracted out to others	1 937 625	209 886	175 851	178 293	414 116	252 687	289 003	128 933	288 856	(D)
Rental cost for machinery, equipment, and buildings	103 826	(S)	8 980	13 272	24 367	13 984	13 419	3 088	18 769	(D)
Capital expenditures, other than land	115 313	12 435	12 519	25 470	26 260	14 279	16 718	2 169	5 464	(D)
End-of-year gross book value of depreciable assets	1 067 891	97 627	112 250	159 725	237 336	156 201	225 263	34 580	44 910	(D)
1987										
All employees**	84 812	(S)	9 302	12 206	15 446	10 414	8 324	5 349	6 496	8 595
Value of construction work	7 261 360	(S)	575 062	894 592	1 257 999	886 242	1 388 704	(D)	1 524 830	(D)
Value added††	2 946 167	(S)	273 918	402 635	538 551	391 430	500 980	(D)	563 654	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	6	5	3	(Z)	(Z)	(Z)	(Z)	(D)
Net value of construction work†	1	6	6	5	2	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	5	14	18	17	4	(Z)	(Z)	(Z)	(Z)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	7 653	(S)	(S)	1 125	1 984	1 291	997	790	309	132	90
All employees**	78 254	(S)	(S)	2 274	6 348	7 722	9 811	13 993	9 506	8 436	19 114
Payroll, all employees	1 637 862	(S)	(S)	20 861	80 140	118 260	166 412	276 709	226 251	203 783	537 361
Dollar value of business done	7 626 326	(S)	(S)	81 416	320 162	448 630	682 709	1 183 859	1 050 130	891 194	2 943 103
Value of construction work	7 461 733	(S)	(S)	80 834	318 571	442 149	672 234	1 168 427	1 021 177	876 451	2 856 961
Net value of construction work†	5 524 109	(S)	(S)	72 217	285 311	388 192	566 374	951 591	767 766	659 146	1 810 510
Value added††	3 064 915	(S)	(S)	41 839	165 858	226 859	328 053	536 805	471 270	388 724	891 217
Cost of materials, components, supplies, and fuels	2 623 787	(S)	(S)	30 960	121 043	167 813	248 797	430 217	325 449	285 165	1 005 436
Cost of construction work subcontracted out to others	1 937 625	(S)	(S)	8 617	(S)	53 957	105 860	216 836	253 411	217 305	1 046 451
Rental cost for machinery, equipment, and buildings	103 826	(S)	(S)	934	4 274	7 044	11 314	14 469	13 203	17 379	34 886
Capital expenditures, other than land	115 313	(S)	(S)	1 785	7 372	10 239	13 038	24 972	19 981	12 137	25 367
End-of-year gross book value of depreciable assets	1 067 891	(S)	(S)	(S)	62 374	79 499	103 339	189 247	159 225	133 690	323 165
1987											
All employees**	84 812	(S)	(S)	(S)	(S)	7 315	9 523	13 110	9 722	9 831	24 645
Value of construction work	7 261 360	(S)	(S)	(S)	(S)	394 500	629 453	996 090	830 060	908 514	3 096 993
Value added††	2 946 167	(S)	(S)	(S)	(S)	197 181	276 429	461 928	373 052	369 274	1 045 409
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	10	7	7	6	4	2	1	(Z)
Net value of construction work†	1	(S)	(S)	7	5	6	6	5	5	2	(Z)
Capital expenditures, other than land	5	(S)	(S)	27	28	19	15	14	8	3	1

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	7 461 733	4 745 233	1 500 000	941 640	1	1	2	2
Building construction	5 424 092	3 514 764	1 263 194	646 135	1	2	2	3
Single-family houses	1 501 223	1 112 620	229 186	159 417	4	5	7	8
Single-family houses, detached	1 412 625	1 056 154	216 754	139 717	4	5	7	9
Single-family houses, attached, including townhouses and townhouse-type condominiums	88 598	56 467	12 432	19 700	11	14	19	17
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	173 628	105 381	41 254	26 994	10	16	5	13
Other residential buildings, including hotels, motels, and tourist cabins.....	75 290	55 871	12 234	7 186	7	9	4	6
Office buildings	580 540	320 067	193 760	66 713	2	3	4	4
Other commercial buildings such as stores, restaurants, and automobile service stations	829 132	604 046	150 806	74 280	2	2	5	6
Industrial buildings and warehouses	1 023 296	554 604	232 109	236 583	2	3	3	3
Industrial buildings	911 214	478 461	209 360	223 393	2	2	3	2
Warehouses	112 082	76 144	22 748	13 190	7	9	5	19
Religious buildings	119 382	80 723	29 878	8 781	4	4	9	13
Educational buildings	260 092	169 069	75 449	15 573	4	3	9	12
Hospitals and institutional buildings	500 059	275 051	186 654	38 354	3	3	6	4
Other nonresidential buildings	361 450	237 331	111 865	12 254	3	3	3	9
Nonbuilding construction.....	1 762 781	1 230 469	236 806	295 505	2	2	4	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	467 932	277 324	92 403	98 205	2	2	4	2
Airport runways and related work	43 308	35 377	(S)	2 815	2	1	(S)	6
Bridges, tunnels, and elevated highways	111 042	83 832	21 257	5 953	2	2	6	4
Conservation and development construction	48 174	25 835	(S)	7 841	17	16	(S)	9
Power and communication transmission lines, towers, and related facilities.....	127 316	87 722	10 192	29 402	18	15	13	36
Sewers, water mains, and related facilities.....	189 486	150 384	21 888	17 215	8	9	22	8
Sewers, sewer lines, septic systems, and related facilities	104 771	81 736	14 595	8 441	9	10	32	10
Water mains and related facilities.....	84 715	68 649	7 293	8 774	10	11	16	12
Pipeline construction other than sewer or water lines	70 730	41 310	13 369	16 051	6	2	27	4
Blast furnaces, petroleum refineries, chemical complexes, etc.	324 834	(D)	(D)	55 947	1	(D)	(D)	2
Power plants	116 525	(D)	(D)	15 345	1	(D)	(D)	1
Sewage treatment and water treatment plants	125 509	112 980	9 598	2 931	3	3	3	7
Other nonbuilding construction	137 924	75 202	18 923	43 800	9	10	14	16
Construction work, n.s.k.....	274 860	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1987								
Value of construction work	7 261 360	4 865 584	1 128 688	968 523	1	1	2	2
Building construction	5 449 395	3 826 731	937 446	685 218	1	2	2	2
Single-family houses	1 090 029	816 862	148 019	125 147	4	6	6	6
Single-family houses, detached	982 429	732 143	135 098	115 188	5	6	6	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	107 599	84 719	12 921	9 959	14	17	14	19
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	201 837	167 574	11 687	22 575	5	5	14	20
Other residential buildings, including hotels, motels, and tourist cabins.....	233 668	189 259	32 856	11 552	3	3	9	16
Office buildings	854 118	685 362	122 698	46 058	2	1	7	8
Other commercial buildings such as stores, restaurants, and automobile service stations	857 000	676 105	133 216	47 678	4	4	5	10
Industrial buildings and warehouses	1 045 655	473 809	210 322	361 523	1	2	3	1
Industrial buildings	935 501	395 088	190 733	349 679	1	2	3	1
Warehouses	110 154	78 721	19 589	11 843	7	8	12	13
Religious buildings	107 275	79 017	22 298	5 958	8	8	13	13
Educational buildings	214 227	143 005	56 702	14 518	8	11	7	17
Hospitals and institutional buildings	495 503	313 548	166 134	15 820	2	1	6	9
Other nonresidential buildings	350 083	282 190	33 514	34 389	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction.....	1 513 402	1 038 853	191 242	283 306	2	2	4	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	389 595	262 571	55 433	71 590	2	3	4	4
Bridges, tunnels, and elevated highways	97 091	70 564	12 542	* 13 984	9	1	1	62
Power and communication transmission lines, towers, and related facilities.....	49 105	29 627	5 026	14 451	10	14	15	3
Sewers, water mains, and related facilities.....	162 530	127 384	12 116	23 029	6	7	18	5
Sewers, sewer lines, septic systems, and related facilities	95 728	75 904	6 799	13 024	7	8	18	8
Water mains and related facilities.....	66 801	51 480	5 317	10 004	10	11	24	6
Pipeline construction other than sewer or water lines	45 886	24 887	13 620	7 378	2	3	1	(Z)
Blast furnaces, petroleum refineries, chemical complexes, etc.	191 831	(D)	(D)	62 302	1	(D)	(D)	2
Power plants	244 018	(D)	(D)	47 897	1	(D)	(D)	2
Sewage treatment and water treatment plants	111 041	84 334	21 722	* 4 984	8	4	27	46
Other nonbuilding construction	222 305	158 335	26 286	37 691	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.....	298 563	(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	A	B	C	D	E
15, 16, 17	Construction industries -----	7 653	62 106	59 013	62 785	65 242	61 383	1	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	1 362	3 882	3 653	3 982	4 121	3 774	4	6	6	7	7	7	7
1522	Other residential buildings -----	60	556	687	583	528	427	21	12	16	11	15	17	17
1531	Operative builders -----	296	637	662	723	588	576	12	12	13	12	13	13	13
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	163	5 643	5 499	6 001	5 982	5 091	14	3	3	3	3	4	4
1542	Nonresidential buildings, n.e.c. ---	416	7 210	7 204	7 111	7 520	7 005	8	4	4	4	4	4	4
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	149	3 644	3 146	3 768	3 965	3 698	9	3	3	3	3	3	3
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	15	632	553	611	673	692	17	4	5	4	4	5	5
1623	Water, sewer, and utility lines ----	167	2 554	2 505	2 624	2 581	2 505	10	5	4	4	5	5	5
1629	Heavy construction, n.e.c. -----	292	3 993	3 785	4 075	4 133	3 978	11	3	4	4	3	3	3
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	1 140	8 328	7 806	8 298	8 782	8 426	3	2	2	3	4	2	2
1721	Painting and paper hanging -----	374	2 127	1 900	1 995	2 419	2 192	6	6	7	7	7	7	7
1731	Electrical work -----	654	5 412	5 120	5 244	5 708	5 576	4	3	3	4	5	4	4
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	300	2 644	2 399	2 667	2 893	2 616	4	4	6	5	4	4	4
1742	Plastering, drywall, and insulation work -----	233	2 223	2 188	2 219	2 297	2 189	9	7	9	9	6	6	6
1743	Terrazzo, tile, marble, and mosaic work -----	105	545	586	536	552	506	14	12	14	10	17	10	10
175	Carpentry and floor work:													
1751	Carpentry -----	372	1 293	1 257	1 401	1 350	1 163	9	10	11	10	10	11	11
1752	Floor laying and other floor work --	131	422	400	414	453	421	13	12	11	14	13	13	13
1761	Roofing, siding, and sheet metal work -----	379	2 375	2 234	2 299	2 504	2 464	6	7	6	7	7	10	10
1771	Concrete work -----	279	2 033	1 798	2 207	2 209	1 916	9	9	8	9	9	11	11
1781	Water well drilling -----	24	96	96	95	100	94	8	14	15	13	14	14	14
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	44	745	739	762	723	757	12	8	7	7	10	10	10
1793	Glass and glazing work -----	42	445	415	449	445	470	12	4	6	4	4	3	3
1794	Excavation work -----	204	988	880	987	1 083	1 001	12	11	10	10	11	12	12
1795	Wrecking and demolition work -----	7	165	171	180	167	142	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1796	Installing building equipment, n.e.c. -----	55	1 023	954	1 062	1 009	1 066	11	5	8	5	5	4	4
1799	Special trade contractors, n.e.c. ---	392	2 491	2 376	2 490	2 456	2 640	8	7	8	8	7	7	7

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 -----	10.2	20.9	120.1	.220	.352	.260	.237	.014
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.9	14.9	145.6	.141	.328	.300	(S)	.010
1522	Other residential buildings -----	11.7	18.3	172.2	.136	.285	.465	.044	.011
1531	Operative builders -----	4.5	22.5	677.1	.069	(S)	.334	*.016	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	41.2	25.9	87.6	.353	.266	.219	.038	.031
1542	Nonresidential buildings, n.e.c. -----	23.2	24.8	258.8	.128	.257	.571	.019	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	28.7	20.4	121.1	.197	.362	.189	.230	.020
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	50.7	21.3	146.3	.176	.401	.311	.177	.009
1623	Water, sewer, and utility lines -----	18.5	20.7	103.7	.241	.365	.146	.261	.028
1629	Heavy construction, n.e.c. -----	18.4	26.7	158.8	.227	.473	.107	.144	.015
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	9.4	22.3	96.1	.297	.410	.071	.499	.013
1721	Painting and paper hanging -----	6.9	18.9	61.1	.375	.267	.083	.610	.026
1731	Electrical work -----	10.3	21.0	85.9	.305	.389	*.075	.561	.009
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	9.8	13.3	46.4	.320	(D)	(D)	.718	.011
1742	Plastering, drywall, and insulation work -----	11.5	18.7	75.6	.299	(S)	.078	.846	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	6.4	17.5	65.4	.330	.439	.008	.792	.006
175	Carpentry and floor work:								
1751	Carpentry -----	4.2	15.4	74.6	.247	.389	.140	.454	.006
1752	Floor laying and other floor work -----	4.3	16.1	93.1	.228	.447	.067	.626	.009
1761	Roofing, siding, and sheet metal work -----	7.9	18.0	79.4	.287	.436	.068	.453	.013
1771	Concrete work -----	8.4	15.3	61.5	.287	.371	.071	.567	.016
1781	Water well drilling -----	5.5	17.7	95.8	.252	.418	.029	.051	.004
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	20.0	23.4	58.1	.472	(D)	.054	.540	.060
1793	Glass and glazing work -----	13.8	17.0	80.6	.276	(D)	(D)	.747	.013
1794	Excavation work -----	6.0	16.9	94.1	.223	.322	.130	(S)	(S)
1795	Wrecking and demolition work -----	26.6	15.0	34.4	.493	(D)	.050	.098	(D)
1796	Installing building equipment, n.e.c. -----	22.5	22.6	65.1	.419	(D)	.037	.217	.022
1799	Special trade contractors, n.e.c. -----	7.8	18.0	60.8	.363	.341	.070	.302	(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 subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
BIRMINGHAM, AL MSA												
15,16,17	Construction industries	1 833	27 527	648 158	2 948 592	2 083 480	1 149 916	981 338	865 112	35 836	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	276	1 058	16 342	119 077	86 965	51 377	35 942	32 112	1 276	17	18
1522	Other residential buildings	(S)	185	3 535	17 430	11 804	(S)	6 291	5 626	—	19	20
1531	Operative builders	100	343	7 775	117 554	79 551	32 805	47 525	38 004	*71	21	27
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	44	(D)	(D)	271 933	(D)	(D)	77 434	(D)	1 737	(D)	(D)
1542	Nonresidential buildings, n.e.c.	122	4 798	133 117	1 017 510	437 042	186 253	258 629	580 468	4 762	5	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	31	888	20 927	105 856	81 302	52 258	36 415	24 554	3 725	6	3
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	42	1 218	26 848	125 691	99 659	52 877	(S)	26 033	3 077	6	10
1629	Heavy construction, n.e.c.	65	1 328	40 811	233 045	199 246	95 419	105 090	33 800	4 795	5	4
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	281	3 299	71 134	265 910	244 356	125 957	122 778	21 554	2 816	4	3
1721	Painting and paper hanging	109	1 041	19 348	49 496	43 287	30 198	13 135	6 209	937	11	6
1731	Electrical work	158	2 007	46 189	173 384	147 739	87 305	61 395	*25 645	2 590	5	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	68	1 077	19 475	72 625	70 494	42 145	28 385	2 132	1 230	9	4
1742	Plastering, drywall, and insulation work	57	1 204	26 207	81 972	77 418	49 765	29 652	4 554	1 593	5	7
1743	Terrazzo, tile, marble, and mosaic work	(S)	241	4 113	13 599	13 444	7 845	5 599	(S)	129	9	6
175	Carpentry and floor work:											
1751	Carpentry	68	400	(D)	21 251	20 048	13 024	7 766	1 203	*246	21	15
1752	Floor laying and other floor work ...	(S)	118	1 897	(D)	(D)	5 373	3 727	331	(S)	16	(D)
1761	Roofing, siding, and sheet metal work	(S)	569	10 494	39 544	35 570	17 825	19 202	3 974	441	12	9
1771	Concrete work	(S)	639	12 026	41 545	39 328	26 259	14 975	2 216	898	16	14
1781	Water well drilling	*3	(S)	(S)	*2 393	(D)	*1 444	(D)	(D)	—	(S)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	481	14 164	28 430	26 377	27 909	5 249	2 053	372	5	8
1793	Glass and glazing work	14	332	4 978	19 441	17 329	(D)	9 326	2 112	(D)	1	1
1794	Excavation work	(S)	138	*3 010	*12 821	9 305	5 473	*4 276	*3 516	1 130	32	31
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ...	16	437	14 546	30 036	29 370	21 230	10 422	666	61	11	7
1799	Special trade contractors, n.e.c.	141	1 189	18 593	51 475	48 640	31 804	17 506	2 835	2 688	12	9

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Kentucky

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Statistics for Establishments With Payroll

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Kentucky. 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 31,512 establishments in this State operating in the construction industries. These establishments accounted for \$7.2 billion in total dollar value of business done.

Most of the 31,512 construction establishments were small. Of the total, 24,175 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,062 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 80 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$6.5 billion in total dollar value of business done. Of this amount, \$6.4 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.6 billion, leaving net value of construction work of \$4.8 billion. In addition, these establishments paid out \$2.5 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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.

and the cost of selected purchased services. Value added for 1992 was \$2.7 billion. (See Introduction and appendixes for explanation of terms.)

There were 7,337 establishments with total employment averaging 63,778 during the year. Total payroll for 1992 was \$1.4 billion.

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

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 24,175 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$642 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.

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

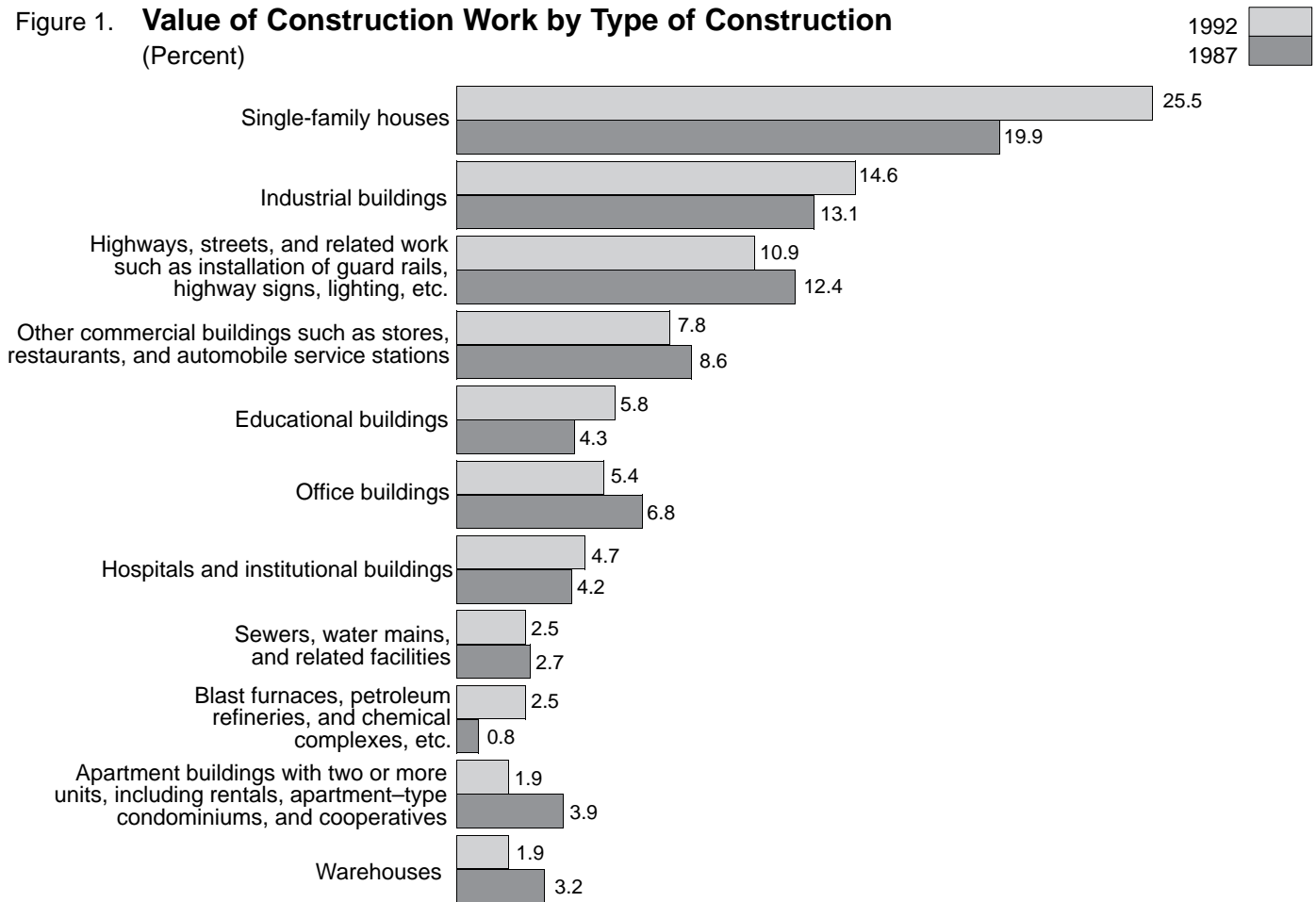


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

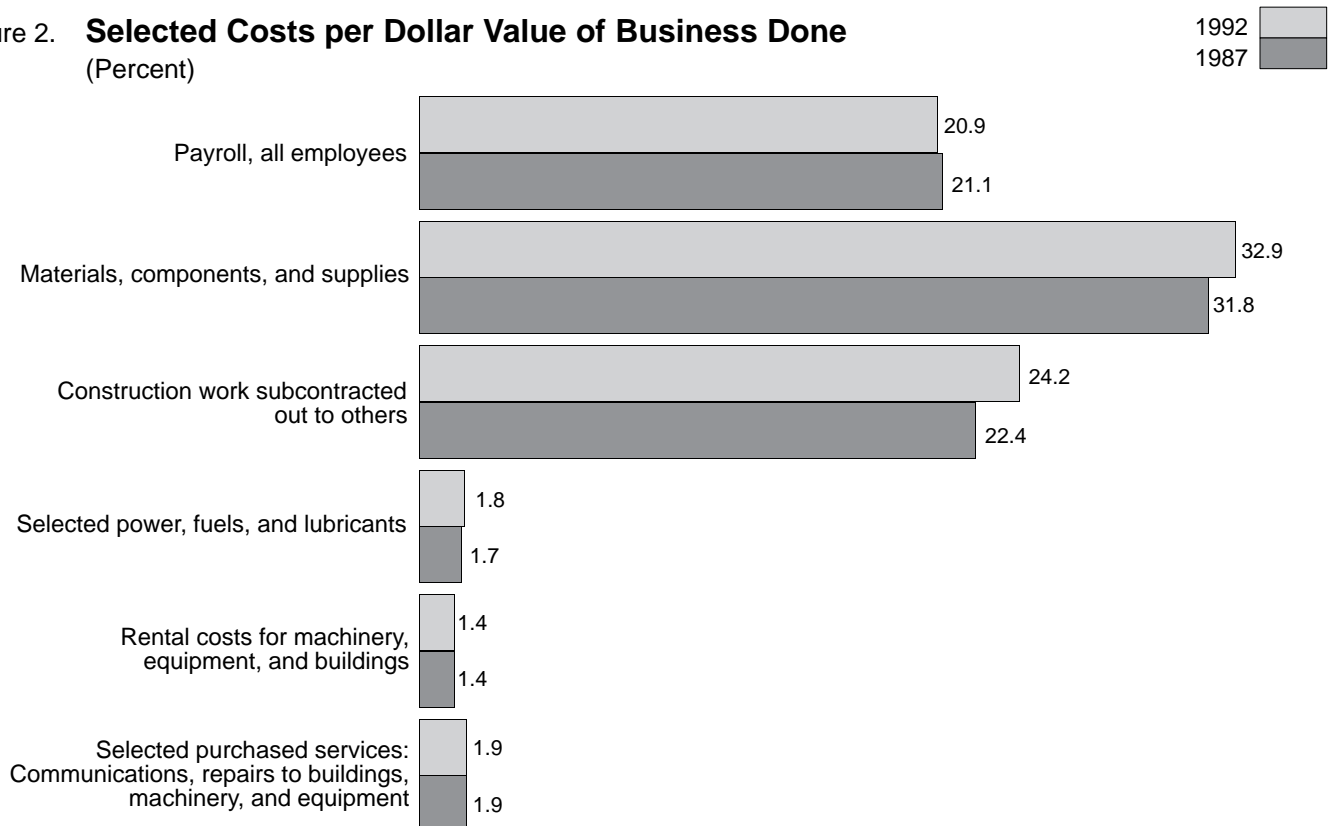


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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
1992															
15, 16, 17	Construction industries -----	31 512	27 438	63 778	7 152 804	24 175	23 781	642 013	7 337	3 657	63 778	6 510 791	1	1	
15	Building construction—General contractors and operative builders ----	5 586	4 207	15 662	2 864 454	3 596	3 296	248 869	1 990	911	15 662	2 615 585	2	3	
16	Heavy construction other than building construction—contractors -----	1 188	697	11 905	1 408 291	553	521	16 116	635	176	11 905	1 392 175	3	2	
17	Special trade contractors -----	24 738	22 534	36 212	2 880 059	20 026	19 964	377 028	4 712	2 570	36 212	2 503 031	1	1	
1711	Plumbing, heating, and air-conditioning --	2 875	2 237	9 338	786 542	1 783	1 746	51 833	1 092	491	9 338	734 709	2	2	
1731	Electrical work -----	2 073	1 686	6 355	484 771	1 474	1 445	26 533	599	241	6 355	458 238	3	3	
1987															
15, 16, 17	Construction industries ² -----	31 572	26 563	55 761	5 718 255	25 261	24 929	914 081	6 311	1 634	55 761	4 804 174	1	1	
15	Building construction—General contractors and operative builders ----	6 493	4 893	13 289	2 205 810	4 893	4 561	343 554	1 600	332	13 289	1 862 256	2	3	
16	Heavy construction other than building construction—contractors -----	995	490	9 727	1 043 326	435	416	15 098	560	74	9 727	1 028 228	3	2	
17	Special trade contractors -----	23 495	20 619	32 625	2 354 735	19 391	19 406	452 639	4 104	1 213	32 625	1 902 096	2	1	
1711	Plumbing, heating, and air-conditioning --	2 681	1 984	8 161	612 444	1 736	1 725	63 229	945	259	8 161	549 215	3	3	
1731	Electrical work -----	2 064	1 594	5 539	369 341	1 463	1 449	36 045	601	145	5 539	333 296	3	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 establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹	7 337	63 778	50 354	1 363 834	982 150	6 359 330	4 784 223	2 682 035
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	1 198	4 429	3 227	66 642	42 679	530 506	383 281	193 093
1522	Other residential buildings	68	577	478	10 540	7 524	61 334	41 035	23 563
1531	Operative builders	196	1 718	646	51 489	13 651	604 805	350 382	153 524
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	131	2 907	2 292	67 949	48 578	361 374	170 550	97 404
1542	Nonresidential buildings, n.e.c.	398	6 031	4 643	142 134	95 883	996 866	482 671	243 514
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	208	4 973	4 210	125 218	93 581	681 319	529 503	258 888
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	24	714	607	22 027	17 315	108 917	84 639	43 330
1623	Water, sewer, and utility lines	162	2 442	1 958	51 568	38 195	180 577	160 204	105 663
1629	Heavy construction, n.e.c.	240	3 776	3 072	89 380	66 569	380 965	321 751	210 124
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	1 092	9 338	7 244	197 854	144 904	720 106	642 480	343 068
1721	Painting and paper hanging	361	2 124	1 796	32 709	25 979	102 628	88 524	59 773
1731	Electrical work	599	6 355	5 088	154 505	117 480	450 330	435 106	257 145
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	361	2 550	2 309	44 630	39 327	119 650	115 083	76 787
1742	Plastering, drywall, and insulation work	191	2 669	2 251	54 944	42 640	159 182	147 183	96 659
1743	Terrazzo, tile, marble, and mosaic work	65	295	240	6 986	4 764	22 228	21 861	12 937
175	Carpentry and floor work:								
1751	Carpentry	449	1 631	1 382	25 626	20 206	103 909	92 089	57 146
1752	Floor laying and other floor work	123	621	474	10 221	7 557	45 697	44 186	23 037
1761	Roofing, siding, and sheet metal work	384	3 125	2 474	58 911	41 676	206 234	193 428	113 635
1771	Concrete work	336	2 232	1 853	36 673	29 537	128 096	113 479	67 505
1781	Water well drilling	24	77	61	1 033	850	4 211	(D)	2 510
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	31	526	413	13 863	10 439	40 276	37 786	27 910
1793	Glass and glazing work	64	451	326	9 529	6 449	33 477	32 982	16 729
1794	Excavation work	248	1 082	902	20 271	16 579	90 537	81 475	58 009
1795	Wrecking and demolition work	9	81	65	1 601	1 297	6 017	(D)	3 720
1796	Installing building equipment, n.e.c.	73	1 556	1 203	40 642	29 124	121 349	112 099	75 429
1799	Special trade contractors, n.e.c.	303	1 497	1 141	26 890	19 368	98 740	92 581	60 933

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††	B	G	M	
I	J	K	L	M	N	O	P	Q				
2 253 649	1 575 107	1 601 057	91 551	129 725	1 043 879	55 761	4 603 454	2 060 016	1	1	4	15, 16, 17
196 447 17 612	147 225 20 299	22 189 294	2 087 428	4 381 *509	29 778 2 697	2 797 990	241 910 105 280	87 614 36 244	7 17	9 18	20 46	152 1522
212 984	254 423	(S)	906	4 729	43 898	1 578	353 058	80 367	9	8	12	1531
(D) 255 101	190 824 514 195	21 134 32 854	3 833 9 152	4 487 12 692	31 880 61 477	2 493 5 431	318 885 726 998	99 086 204 885	6 3	7 3	31 7	154 1542
301 448	151 816	115 644	18 058	33 811	309 898	4 455	568 250	270 106	3	2	5	1611
42 208 57 395 117 439	24 278 20 373 59 214	14 797 29 596 34 419	1 916 6 927 5 295	3 024 10 117 10 747	30 044 69 598 117 015	821 2 250 2 201	88 839 169 508 162 468	29 498 90 438 91 124	1 5 7	(Z) 5 8	3 14 17	162 1622 1623 1629
314 016	77 625	381 491	10 388	10 619	76 850	8 161	543 223	277 988	2	2	10	1711
29 211	14 104	37 244	1 482	1 757	13 378	1 732	79 006	57 997	7	6	32	1721
185 868	15 224	272 254	5 407	6 726	49 268	5 539	329 504	182 360	3	3	18	1731
38 320 54 804 8 937	4 567 11 999 367	90 156 121 522 18 408	2 345 1 657 159	2 193 1 697 231	12 221 13 496 2 181	2 094 3 232 185	75 140 168 467 14 344	48 133 95 692 8 245	5 5 8	4 5 8	29 22 2	174 1742 1743
37 722 21 346	11 820 1 510	40 750 22 665	(S) 493	1 775 *1 005	7 465 3 828	1 362 282	60 702 11 568	35 563 7 438	7 13	7 16	17 63	175 1751 1752
86 352	12 807	107 490	3 020	5 512	34 731	2 684	149 923	82 619	6	4	28	1761
47 087	14 617	56 711	4 083	2 539	27 533	2 467	122 351	68 648	6	6	17	1771
(D)	(D)	869	126	169	1 448	70	2 825	1 497	(Z)	(D)	(Z)	1781
(D) 19 030 25 532	2 490 *495 9 061	28 974 25 963 48 830	1 339 381 6 988	531 450 3 930	8 845 3 937 34 833	736 439 1 163	54 999 33 536 76 900	35 287 18 591 51 518	12 10 9	6 11 6	2 37 29	1791 1793 1794
(D) 38 519 36 548	(D) 9 250 6 159	(D) 39 862 (D)	(D) 2 560 (D)	(S) 2 270 *3 652	(S) 20 724 34 022	52 1 085 1 342	2 912 71 052 65 373	2 508 51 755 41 137	(Z) 4 10	(D) 4 11	(S) (Z) 53	1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

KENTUCKY KY-7

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	7 337	6 311	5 967	7 440	1	1	2	3
Proprietors and working partners.....	3 657	1 634	2 259	4 989	2	6	4	5
All employees**	63 778	55 761	45 497	55 757	1	1	1	1
Construction workers:								
March.....	45 506	40 416	33 703	39 718	1	1	2	2
May.....	50 903	45 647	38 693	50 168	1	1	2	2
August.....	54 176	49 041	39 563	53 071	1	1	2	2
November.....	50 829	45 663	36 863	49 509	2	1	1	2
Average.....	50 354	45 192	37 816	48 150	1	1	1	2
Other employees:								
March.....	13 257	10 330	7 596	7 005	2	2	2	2
May.....	13 494	10 379	(NA)	(NA)	2	2	(NA)	(NA)
August.....	13 415	10 759	(NA)	(NA)	2	2	(NA)	(NA)
November.....	13 532	10 831	(NA)	(NA)	2	2	(NA)	(NA)
Average.....	13 425	10 575	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	1 363 834	1 014 124	701 897	600 076	1	1	1	1
Payroll, construction workers	982 150	759 232	542 534	489 408	1	1	1	1
Payroll, other employees	381 684	254 891	159 362	110 669	1	2	1	1
First-quarter payroll, all employees	290 941	213 799	155 112	110 452	1	1	1	1
Fringe benefits, all employees	302 847	205 432	124 998	100 888	1	1	1	1
Legally required expenditures.....	205 317	145 873	97 502	68 087	1	1	1	1
Voluntary expenditures.....	97 530	59 559	27 495	32 801	2	1	2	1
Dollar value of business done	6 510 791	4 804 174	2 831 665	2 493 404	1	1	1	1
Value of construction work	6 359 330	4 603 454	2 744 178	2 404 759	1	1	1	1
Value of construction work subcontracted in from others	1 601 057	1 074 589	655 468	513 307	2	3	2	2
Other business receipts	151 461	141 962	70 034	88 645	4	3	3	5
Net value of construction†	4 784 223	3 527 907	2 196 161	1 944 503	1	1	1	1
Value added††	2 682 035	2 060 016	1 316 744	1 100 065	1	1	1	1
Selected costs	3 828 756	2 685 401	1 497 467	1 363 955	1	2	1	2
Materials, components, and supplies	2 139 347	1 526 688	875 984	854 928	1	2	1	2
Construction work subcontracted out to others	1 575 107	1 075 547	548 017	460 256	3	2	2	2
Selected power, fuels, and lubricants.....	114 302	83 185	73 466	48 771	2	2	2	2
Electricity.....	16 811	9 673	8 392	4 978	3	2	3	3
Natural gas.....	6 034	2 817	4 094	1 915	4	4	2	6
Gasoline and diesel fuel	84 135	65 376	56 724	35 991	2	2	2	2
On highway use.....	57 185	41 722	(NA)	(NA)	2	3	(NA)	(NA)
Off highway use.....	26 950	23 654	(NA)	(NA)	4	3	(NA)	(NA)
Other, including lubricating oils and greases.....	7 322	5 317	4 255	5 887	5	4	4	4
Rental cost for machinery, equipment, and buildings	91 551	69 491	43 340	32 811	4	3	2	1
For machinery and equipment	67 741	52 235	35 235	28 282	5	4	2	1
For buildings.....	23 809	17 255	8 104	4 529	4	4	4	4
Selected purchased services	120 887	90 103	59 702	50 379	3	2	2	2
Communication services	34 398	19 068	12 690	9 925	7	3	2	2
Repairs to buildings and other structures	7 368	4 763	2 633	2 261	7	9	5	8
Repairs to machinery and equipment	79 120	66 271	44 379	38 194	3	3	2	2
Ownership of construction projects:								
Value of construction work	6 359 330	4 603 454	2 744 178	2 404 759	1	1	1	1
Government owned	1 756 053	1 276 638	763 478	637 474	2	3	3	1
Federal	400 498	384 925	(NA)	(NA)	5	5	(NA)	(NA)
State and local	1 355 555	891 712	(NA)	(NA)	3	3	(NA)	(NA)
Privately owned	4 603 278	3 326 816	1 980 700	1 767 285	2	2	2	2

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

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

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

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	974 090	734 435	3	3
Capital expenditures, other than land	129 725	125 516	4	3
New	95 311	90 371	4	4
Used	34 414	35 144	7	5
Retirements and disposition of depreciable assets	59 935	36 021	8	4
End-of-year gross book value of depreciable assets	1 043 879	823 930	2	3
Depreciation charges during year	116 605	94 205	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	144 848	144 971	7	8
Capital expenditures, other than land	14 425	18 662	9	7
New buildings and other structures	9 905	13 681	11	8
Used buildings and other structures	4 520	4 980	19	11
Retirements and disposition of depreciable assets	6 802	2 846	6	23
End-of-year gross book value of depreciable assets	152 471	160 788	7	7
Depreciation charges during year	10 594	11 134	8	8
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	829 241	589 463	3	3
Capital expenditures, other than land	115 299	106 853	4	4
New machinery and equipment, including automobiles and trucks	85 406	76 689	4	4
New automobiles and trucks, intended primarily for highway use	26 739	28 006	6	5
Used machinery and equipment, including automobiles and trucks	29 894	30 164	8	6
Retirements and disposition of depreciable assets	53 133	33 175	9	4
End-of-year gross book value of depreciable assets	891 408	663 141	2	3
Depreciation charges during year	106 010	83 071	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	7 337	1
Value of construction work	6 359 330	1
Establishments with inventories:		
Number	1 968	3
Value of construction work	2 445 661	2
Inventories¹:		
End of 1992, materials and supplies	100 241	17
End of 1991, materials and supplies	73 825	14
Establishments with no inventories:		
Number	2 561	3
Value of construction work	2 432 302	2
Establishments not reporting:		
Number	2 809	3
Value of construction work	1 481 367	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	7 337	(S)	1 509	884	469	136	54	9	(S)	—
All employees**	63 778	7 716	9 795	11 577	13 794	9 135	7 791	3 971	(D)	—
Payroll, all employees	1 363 834	107 723	156 639	218 189	321 876	225 889	227 063	106 456	(D)	—
Dollar value of business done	6 510 791	787 087	787 128	972 656	1 402 246	968 852	984 739	608 084	(D)	—
Value of construction work	6 359 330	773 504	771 895	953 950	1 368 367	941 853	973 510	576 251	(D)	—
Net value of construction work†	4 784 223	611 280	628 205	743 687	1 057 854	697 655	735 582	309 960	(D)	—
Value added††	2 682 035	342 283	338 842	438 357	617 797	420 532	377 473	146 751	(D)	—
Cost of materials, components, supplies, and fuels	2 253 649	282 579	304 597	324 036	473 936	304 122	369 338	195 042	(D)	—
Cost of construction work subcontracted out to others	1 575 107	162 224	143 689	210 263	310 513	244 198	237 928	266 291	—	—
Rental cost for machinery, equipment, and buildings	91 551	(S)	10 327	14 551	26 957	16 440	12 804	3 289	—	—
Capital expenditures, other than land	129 725	16 647	12 243	19 804	23 923	19 478	30 033	7 596	(D)	—
End-of-year gross book value of depreciable assets	1 043 879	(S)	122 477	144 499	222 522	169 863	214 503	71 915	(D)	—
1987										
All employees**	55 761	(S)	8 128	10 352	14 286	7 588	6 526	1 847	—	—
Value of construction work	4 603 454	(S)	463 807	783 166	1 196 880	742 160	879 587	80 672	(D)	—
Value added††	2 060 016	(S)	227 751	362 995	558 300	315 337	281 868	80 672	—	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	6	5	3	(Z)	(Z)	(Z)	(D)	—
Net value of construction work†	1	7	6	5	3	(Z)	(Z)	(Z)	(D)	—
Capital expenditures, other than land	4	16	15	13	8	(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	7 337	(S)	(S)	(S)	1 903	1 197	840	728	263	125	99
All employees**	63 778	(S)	(S)	(S)	6 209	7 116	7 902	11 791	8 178	6 882	12 677
Payroll, all employees	1 363 834	(S)	(S)	(S)	74 489	103 933	142 366	253 356	196 677	177 197	386 956
Dollar value of business done	6 510 791	(S)	(S)	(S)	311 825	418 497	593 209	1 112 262	902 273	859 161	2 203 582
Value of construction work	6 359 330	(S)	(S)	(S)	308 278	406 735	582 478	1 090 682	880 776	845 386	2 135 600
Net value of construction work†	4 784 223	(S)	(S)	(S)	280 886	355 945	510 056	891 468	708 505	613 264	1 322 845
Value added††	2 682 035	(S)	(S)	(S)	170 831	206 205	290 506	498 038	418 750	359 900	674 064
Cost of materials, components, supplies, and fuels	2 253 649	(S)	(S)	(S)	113 601	161 501	230 280	415 010	311 251	267 139	716 762
Cost of construction work subcontracted out to others	1 575 107	(S)	(S)	(S)	27 393	50 790	72 422	199 214	172 271	232 122	812 756
Rental cost for machinery, equipment, and buildings	91 551	(S)	(S)	(S)	3 516	6 036	9 176	14 701	18 083	16 986	21 326
Capital expenditures, other than land	129 725	(S)	(S)	(S)	7 694	11 441	10 755	21 839	15 617	14 556	45 100
End-of-year gross book value of depreciable assets	1 043 879	(S)	(S)	(S)	46 050	91 267	89 793	169 323	127 046	143 473	355 090
1987											
All employees**	55 761	(S)	(S)	(S)	(S)	6 539	7 256	11 093	7 066	6 556	7 784
Value of construction work	4 603 454	(S)	(S)	(S)	(S)	333 455	470 921	845 622	658 135	738 516	1 204 933
Value added††	2 060 016	(S)	(S)	(S)	(S)	177 117	238 202	404 647	293 459	328 088	421 826
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	6	7	6	4	4	(Z)	(Z)
Net value of construction work†	1	(S)	(S)	(S)	5	7	6	5	6	2	1
Capital expenditures, other than land	4	(S)	(S)	(S)	17	17	17	14	9	1	1

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	6 359 330	3 996 396	1 373 613	813 412	1	2	2	2
Building construction	4 555 904	2 950 351	1 082 340	523 213	2	2	2	3
Single-family houses	1 621 199	1 308 271	183 186	129 742	4	5	6	7
Single-family houses, detached	1 522 408	1 231 055	171 145	120 208	4	5	6	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	98 791	77 216	12 041	9 534	7	7	14	10
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	120 854	54 508	44 186	22 160	8	13	10	9
Other residential buildings, including hotels, motels, and tourist cabins	38 932	18 321	9 919	10 693	11	21	23	5
Office buildings	341 069	200 393	106 036	34 640	4	5	7	6
Other commercial buildings such as stores, restaurants, and automobile service stations	493 739	283 220	132 414	78 106	4	4	6	7
Industrial buildings and warehouses	1 046 104	553 992	321 634	170 479	2	2	5	4
Industrial buildings	926 742	475 352	295 635	155 755	2	1	5	4
Warehouses	119 362	78 640	25 998	14 723	5	7	9	10
Religious buildings	89 325	51 530	26 623	11 172	5	5	7	10
Educational buildings	371 813	224 057	116 393	31 362	4	5	5	15
Hospitals and institutional buildings	299 778	163 987	117 167	18 623	8	14	4	6
Amusement, social, and recreational buildings, indoors	32 013	21 268	7 766	2 979	13	13	31	28
Other nonresidential buildings	101 077	70 806	17 015	13 256	12	15	8	18
Nonbuilding construction	1 627 517	1 046 045	291 273	290 199	2	3	3	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	691 944	422 881	124 964	144 098	2	1	5	5
Private driveways and parking areas	31 896	15 761	4 940	11 195	16	18	18	27
Bridges, tunnels, and elevated highways	117 061	92 775	17 094	7 192	2	2	1	18
Conservation and development construction	92 124	76 402	(S)	7 216	27	32	(S)	14
Power and communication transmission lines, towers, and related facilities	84 382	53 285	19 682	11 415	7	9	3	13
Sewers, water mains, and related facilities	160 761	134 830	17 156	8 775	4	5	18	10
Sewers, sewer lines, septic systems, and related facilities	88 567	75 539	8 684	(S)	4	3	16	(S)
Water mains and related facilities	72 195	59 291	8 472	4 432	8	8	30	13
Pipeline construction other than sewer or water lines	48 402	31 705	10 318	6 379	13	14	16	11
Blast furnaces, petroleum refineries, chemical complexes, etc.	160 399	92 353	20 469	47 577	2	1	3	6
Power plants	40 085	13 492	*4 588	22 005	13	26	43	10
Sewage treatment and water treatment plants	82 886	48 290	30 249	4 347	4	4	8	10
Other nonbuilding construction	117 577	64 271	33 305	20 001	10	11	8	26
Construction work, n.s.k.	175 910	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1987								
Value of construction work	4 603 454	2 955 062	852 182	549 602	1	2	2	2
Building construction	3 183 604	2 152 735	664 888	365 981	2	2	3	3
Single-family houses	916 902	678 022	141 628	97 251	4	5	6	7
Single-family houses, detached	814 372	589 175	132 991	92 205	5	6	6	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	102 530	88 847	8 637	5 045	14	16	17	15
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	178 783	121 250	42 395	15 137	8	10	14	9
Other residential buildings, including hotels, motels, and tourist cabins	76 753	44 240	21 625	10 887	5	4	13	10
Office buildings	311 862	200 747	78 866	32 248	3	3	6	8
Other commercial buildings such as stores, restaurants, and automobile service stations	394 101	275 437	70 952	47 711	3	3	4	7
Industrial buildings and warehouses	751 603	470 168	163 435	118 000	2	3	5	5
Industrial buildings	602 428	354 839	142 586	105 003	3	3	6	6
Warehouses	149 175	115 329	20 849	12 996	4	5	9	6
Religious buildings	54 496	34 386	14 634	5 475	7	10	8	11
Educational buildings	199 551	120 524	62 249	16 776	6	8	11	17
Hospitals and institutional buildings	192 784	123 279	55 106	14 398	3	3	4	12
Amusement, social, and recreational buildings, indoors	20 768	14 728	4 625	1 414	8	10	7	4
Other nonresidential buildings	86 001	69 954	9 373	6 684	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	1 173 243	802 327	187 293	183 622	2	2	6	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	571 255	382 524	81 400	107 331	2	2	2	2
Private driveways and parking areas	35 168	19 900	6 649	8 618	15	15	25	18
Bridges, tunnels, and elevated highways	94 976	79 550	9 918	5 507	3	3	(Z)	5
Power and communication transmission lines, towers, and related facilities	57 024	38 298	11 593	7 133	8	7	29	22
Sewers, water mains, and related facilities	123 962	96 799	11 546	15 616	7	8	20	22
Sewers, sewer lines, septic systems, and related facilities	72 671	53 879	7 560	11 231	8	9	27	29
Water mains and related facilities	51 291	42 920	3 986	4 384	9	10	10	13
Pipeline construction other than sewer or water lines	32 757	20 235	5 482	7 040	5	6	2	17
Blast furnaces, petroleum refineries, chemical complexes, etc.	37 246	17 616	8 681	10 949	10	15	18	6
Sewage treatment and water treatment plants	68 543	43 870	21 151	3 521	5	5	6	13
Other nonbuilding construction	152 312	103 535	30 873	17 907	13	16	13	19
Construction work, n.s.k.	246 605	(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	A	B	C	D	E
15, 16, 17	Construction industries -----	7 337	50 354	45 506	50 903	54 176	50 829	1	1	1	1	1	1	2
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	1 198	3 227	3 045	3 339	3 454	3 069	4	7	7	7	7	7	7
1522	Other residential buildings -----	68	478	423	540	498	451	23	18	18	17	20	18	
1531	Operative builders -----	196	646	611	663	667	641	14	9	9	8	8	10	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	131	2 292	2 141	2 102	2 495	(S)	15	6	5	6	6	(S)	
1542	Nonresidential buildings, n.e.c. ---	398	4 643	4 459	4 560	4 723	4 828	8	3	4	3	3	3	
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	208	4 210	2 860	4 394	5 026	4 559	9	3	2	3	3	4	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	24	607	512	594	661	662	31	1	(Z)	(Z)	(Z)	3	
1623	Water, sewer, and utility lines -----	162	1 958	1 890	1 886	1 972	2 083	11	5	7	5	4	5	
1629	Heavy construction, n.e.c. -----	240	3 072	2 746	3 246	3 210	3 088	11	8	5	8	7	19	
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	1 092	7 244	6 938	7 291	7 624	7 124	3	2	3	2	2	3	
1721	Painting and paper hanging -----	361	1 796	1 486	1 840	2 123	1 737	6	8	9	7	8	8	
1731	Electrical work -----	599	5 088	4 853	5 101	5 560	4 838	4	3	3	3	3	3	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	361	2 309	2 167	2 384	2 409	2 278	3	5	5	4	6	9	
1742	Plastering, drywall, and insulation work -----	191	2 251	2 157	2 316	2 320	2 210	8	4	5	3	5	6	
1743	Terrazzo, tile, marble, and mosaic work -----	65	240	217	228	255	258	16	8	7	6	9	12	
175	Carpentry and floor work:													
1751	Carpentry -----	449	1 382	1 272	1 388	1 516	1 352	6	7	8	7	8	8	
1752	Floor laying and other floor work --	123	474	429	490	533	445	13	12	12	12	12	12	
1761	Roofing, siding, and sheet metal work -----	384	2 474	2 334	2 462	2 569	2 531	5	6	6	6	7	6	
1771	Concrete work -----	336	1 853	1 402	1 954	2 084	1 972	6	6	8	6	7	6	
1781	Water well drilling -----	24	61	57	62	63	60	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	31	413	368	389	426	469	14	13	10	9	15	21	
1793	Glass and glazing work -----	64	326	316	315	327	348	9	10	9	9	9	12	
1794	Excavation work -----	248	902	728	999	986	895	9	9	10	9	9	9	
1795	Wrecking and demolition work -----	9	65	74	68	60	59	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1796	Installing building equipment, n.e.c. -----	73	1 203	1 019	1 081	1 396	1 315	18	5	3	2	8	7	
1799	Special trade contractors, n.e.c. ---	303	1 141	1 004	1 212	1 221	1 128	9	10	11	10	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 -----	8.7	21.4	126.3	.214	.354	.248	.252	.014
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	15.0	164.4	.126	.370	.278	.042	.004
1522	Other residential buildings -----	8.5	18.3	128.3	.172	.287	.331	.005	.007
1531	Operative builders -----	8.8	30.0	936.2	.085	.352	.421	(S)	.001
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	22.1	23.4	157.7	.188	(D)	.528	.058	.011
1542	Nonresidential buildings, n.e.c. -----	15.2	23.6	214.7	.143	.256	.516	.033	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	23.9	25.2	161.8	.184	.442	.223	.170	.027
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	29.8	30.9	179.4	.202	.388	.223	.136	.018
1623	Water, sewer, and utility lines -----	15.0	21.1	92.2	.286	.318	.113	.164	.038
1629	Heavy construction, n.e.c. -----	15.7	23.7	124.0	.235	.308	.155	.090	.014
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.6	21.2	99.4	.275	.436	.108	.530	.014
1721	Painting and paper hanging -----	5.9	15.4	57.1	.319	.285	.137	.363	.014
1731	Electrical work -----	10.6	24.3	88.5	.343	.413	.034	.605	.012
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	7.1	17.5	51.8	.373	.320	.038	.753	.020
1742	Plastering, drywall, and insulation work -----	14.0	20.6	70.7	.345	.344	.075	.763	.010
1743	Terrazzo, tile, marble, and mosaic work -----	4.5	23.7	92.6	.314	.402	.017	.828	.007
175	Carpentry and floor work:								
1751	Carpentry -----	3.6	15.7	75.2	.247	.363	.114	.392	(S)
1752	Floor laying and other floor work -----	5.0	16.5	96.4	.224	.467	.033	.496	.011
1761	Roofing, siding, and sheet metal work -----	8.1	18.9	83.4	.286	.419	.062	.521	.015
1771	Concrete work -----	6.7	16.4	69.1	.286	.368	.114	.443	.032
1781	Water well drilling -----	3.2	13.4	69.0	.245	(D)	(D)	.206	.030
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	17.1	26.4	97.5	.344	(D)	.062	.719	.033
1793	Glass and glazing work -----	7.0	21.1	102.7	.285	.568	.015	.776	.011
1794	Excavation work -----	4.4	18.7	100.4	.224	.282	.100	.539	.077
1795	Wrecking and demolition work -----	9.0	19.8	92.6	.266	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	21.4	26.1	100.9	.335	.317	.076	.328	.021
1799	Special trade contractors, n.e.c. -----	4.9	18.0	86.5	.272	.370	.062	(D)	(D)

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	CINCINNATI—HAMILTON, OH—KY—IN CMSA											
15,16,17	Construction industries	4 374	40 410	1 016 316	4 615 778	3 394 346	1 905 131	1 571 074	1 221 432	70 455	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	674	2 936	52 646	473 452	342 687	161 758	183 863	130 766	2 798	6	8
1522	Other residential buildings	15	261	5 372	31 117	19 902	11 301	9 188	11 215	(D)	2	(Z)
1531	Operative builders	195	1 719	60 376	731 815	410 518	176 046	267 361	321 298	5 112	6	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	62	1 428	39 777	174 437	105 439	66 765	42 301	68 998	977	6	6
1542	Nonresidential buildings, n.e.c.	221	3 042	83 095	681 498	250 959	104 022	155 167	430 539	11 618	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	62	2 068	61 443	313 630	249 276	147 296	105 262	64 355	9 978	4	3
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	50	1 557	40 080	129 522	112 725	76 632	38 414	16 797	5 991	2	2
1629	Heavy construction, n.e.c.	50	1 006	31 507	116 217	103 463	68 354	36 554	12 755	3 056	3	2
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	612	5 896	160 380	537 601	475 109	275 699	205 522	62 492	7 404	2	2
1721	Painting and paper hanging.....	272	1 318	23 343	60 597	57 864	42 903	15 424	2 733	546	10	7
1731	Electrical work	380	3 818	101 957	277 207	264 496	161 367	107 060	12 711	2 578	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	201	1 308	25 703	61 585	59 417	42 161	17 406	2 168	1 259	9	8
1742	Plastering, drywall, and insulation work	147	1 681	36 583	103 490	95 216	58 173	37 328	8 275	1 131	7	5
1743	Terrazzo, tile, marble, and mosaic work	54	323	6 761	19 843	(D)	11 503	7 933	(D)	(D)	18	(D)
175	Carpentry and floor work:											
1751	Carpentry	389	1 816	34 603	108 984	94 033	59 790	36 472	14 951	790	8	9
1752	Floor laying and other floor work ...	64	558	12 793	51 616	47 484	23 749	25 022	4 133	657	4	1
1761	Roofing, siding, and sheet metal work	218	1 649	37 422	121 358	113 220	68 132	47 091	8 138	1 583	6	4
1771	Concrete work	245	3 228	84 879	270 597	242 803	115 021	129 839	27 794	6 081	4	3
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	36	480	13 526	31 725	30 273	24 611	5 674	(S)	674	5	5
1793	Glass and glazing work	53	380	9 113	38 143	34 481	15 041	19 610	3 661	985	14	8
1794	Excavation work	132	766	16 284	59 281	54 713	41 297	13 919	4 568	2 847	9	9
1795	Wrecking and demolition work	9	106	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. ...	35	1 216	32 911	78 533	75 957	58 024	18 641	2 576	1 050	2	3
1799	Special trade contractors, n.e.c.	190	1 823	42 053	129 232	120 921	84 306	43 079	8 312	2 293	7	7
	Cincinnati, OH—KY—IN PMSA											
15,16,17	Construction industries	3 644	33 505	827 482	3 806 813	2 743 906	1 550 055	1 267 287	1 062 907	59 338	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	581	2 666	46 772	416 785	300 528	143 587	159 844	116 257	2 385	7	9
1522	Other residential buildings	11	(D)	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1531	Operative builders	157	1 471	54 014	567 594	306 784	132 531	207 138	260 810	4 795	6	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	53	1 277	34 054	146 688	90 218	56 523	36 313	56 470	(D)	6	7
1542	Nonresidential buildings, n.e.c.	197	2 838	76 223	646 252	228 961	88 049	(D)	417 290	11 371	6	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	50	1 722	50 765	267 174	212 764	121 614	93 277	54 411	8 099	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	38	1 217	32 035	98 430	(D)	58 445	30 941	(D)	4 837	3	(D)
1629	Heavy construction, n.e.c.	39	888	(D)	105 821	95 212	62 453	34 204	10 610	2 819	3	2

KY-14 KENTUCKY

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
	CINCINNATI—HAMILTON, OH—KY—IN CMSA—Con.											
	Cincinnati, OH—KY—IN PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	495	5 163	142 171	477 194	420 558	243 122	182 199	56 636	6 915	3	2
1721	Painting and paper hanging-----	240	1 147	19 624	50 904	48 380	35 726	13 116	2 524	440	12	8
1731	Electrical work-----	308	3 292	87 203	238 246	226 139	138 839	90 175	12 107	2 435	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	173	1 051	20 198	48 495	(D)	33 224	13 398	(D)	1 046	11	(D)
1742	Plastering, drywall, and insulation work-----	111	1 264	29 359	80 309	74 785	46 736	28 203	5 525	585	7	5
1743	Terrazzo, tile, marble, and mosaic work-----	43	260	5 605	(D)	16 576	(D)	6 759	(D)	(D)	15	14
175	Carpentry and floor work:											
1751	Carpentry-----	334	1 579	30 880	96 520	83 195	53 278	32 138	13 325	626	8	10
1752	Floor laying and other floor work-----	53	492	12 025	49 022	(D)	22 208	23 772	(D)	569	6	(D)
1761	Roofing, siding, and sheet metal work-----	185	1 432	31 933	102 335	94 224	58 339	37 854	8 111	1 458	7	5
1771	Concrete work-----	196	1 625	(D)	(D)	(D)	59 706	(D)	(D)	(D)	8	(D)
1781	Water well drilling-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	29	278	7 581	19 178	17 940	15 233	(S)	(S)	(D)	9	8
1793	Glass and glazing work-----	44	338	8 076	35 226	31 596	13 510	18 257	3 630	(D)	14	7
1794	Excavation work-----	108	615	12 608	47 903	43 866	33 120	11 168	4 037	2 109	11	11
1795	Wrecking and demolition work-----	9	106	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c.-----	31	(D)	(D)	(D)	(D)	(D)	17 421	(D)	1 047	(D)	(D)
1799	Special trade contractors, n.e.c.-----	156	1 537	35 576	106 670	100 420	67 595	38 135	6 250	(D)	7	8
	Hamilton—Middletown, OH PMSA											
15,16,17	Construction industries-----	729	6 905	188 834	808 964	650 440	355 076	303 787	158 524	11 117	2	5
	(See appropriate State for SIC detail.)											
	LOUISVILLE, KY—IN MSA											
15,16,17	Construction industries-----	2 343	21 880	496 002	2 209 423	1 679 422	963 308	753 480	530 000	37 680	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	391	1 403	22 336	227 300	146 027	68 092	80 852	81 273	1 204	10	12
1522	Other residential buildings-----	25	175	4 127	19 822	13 737	8 449	5 289	6 085	(D)	28	16
1531	Operative builders-----	64	579	11 814	171 883	111 891	65 968	47 462	59 992	623	23	16
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	47	600	15 211	88 465	41 042	24 802	16 524	47 423	940	13	11
1542	Nonresidential buildings, n.e.c.-----	118	1 817	47 648	348 984	154 578	82 820	74 266	194 406	(D)	6	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	26	655	19 648	105 773	85 482	51 987	35 370	(S)	2 097	10	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	8	252	7 580	49 474	(D)	15 172	21 112	(D)	957	(Z)	(D)
1623	Water, sewer, and utility lines-----	33	777	19 261	75 107	63 154	36 842	27 921	11 952	3 010	2	1
1629	Heavy construction, n.e.c.-----	34	554	12 605	58 445	49 967	32 140	18 166	8 479	3 285	7	8

CONSTRUCTION—GEOGRAPHIC AREA SERIES

KENTUCKY KY—15

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	LOUISVILLE, KY-IN MSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	340	3 840	92 913	315 755	280 913	144 926	141 072	34 842	4 010	3	3
1721	Painting and paper hanging-----	168	856	13 901	51 775	41 792	27 752	14 419	9 983	629	11	8
1731	Electrical work-----	157	2 311	63 044	168 119	164 622	99 122	68 062	3 498	2 030	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	109	1 019	21 003	58 574	55 622	37 256	18 369	(S)	809	4	2
1742	Plastering, drywall, and insulation work-----	71	1 151	23 450	65 773	61 716	43 229	20 912	4 057	662	7	8
1743	Terrazzo, tile, marble, and mosaic work-----	19	170	4 815	13 783	13 718	8 130	5 597	65	150	10	6
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	727	13 086	45 855	41 949	27 029	17 096	3 906	820	8	8
1752	Floor laying and other floor work---	61	420	7 286	30 717	29 571	15 407	14 196	1 147	876	18	22
1761	Roofing, siding, and sheet metal work-----	148	1 438	29 994	98 643	89 545	53 421	40 886	9 098	915	8	7
1771	Concrete work-----	140	1 110	20 599	71 319	61 347	34 247	27 251	9 972	1 132	7	6
1781	Water well drilling-----	4	17	387	(D)	1 024	699	422	(D)	(D)	(Z)	(Z)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	13	265	7 446	15 932	13 980	14 159	4 845	1 952	(D)	11	7
1793	Glass and glazing work-----	11	186	4 576	14 437	14 338	7 793	6 875	99	108	(Z)	(Z)
1794	Excavation work-----	59	298	5 495	18 495	16 981	13 637	4 146	1 514	1 374	17	16
1795	Wrecking and demolition work-----	11	80	1 631	(D)	6 410	3 994	2 482	(D)	128	20	33
1796	Installing building equipment, n.e.c.--	25	596	13 873	47 043	(D)	19 373	26 286	(D)	339	3	(D)
1799	Special trade contractors, n.e.c.-----	85	585	12 274	40 027	39 084	26 862	13 602	(S)	3 125	13	16

Contents

Mississippi

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Mississippi. 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 17,220 establishments in this State operating in the construction industries. These establishments accounted for \$3.6 billion in total dollar value of business done.

Most of the 17,220 construction establishments were small. Of the total, 13,282 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,525 construction establishments with 5 employees or more, while representing only 9 percent of all establishments, accounted for more than 76 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$3.22 billion in total dollar value of business done. Of this amount, \$3.15 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$710 million, leaving net value of construction work of \$2.4 billion. In addition, these establishments paid out \$1.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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.

and the cost of selected purchased services. Value added for 1992 was \$1.3 billion. (See Introduction and appendixes for explanation of terms.)

There were 3,938 establishments with total employment averaging 34,553 during the year. Total payroll for 1992 was \$650 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 13,282 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$368 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.

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

1992 
1987 

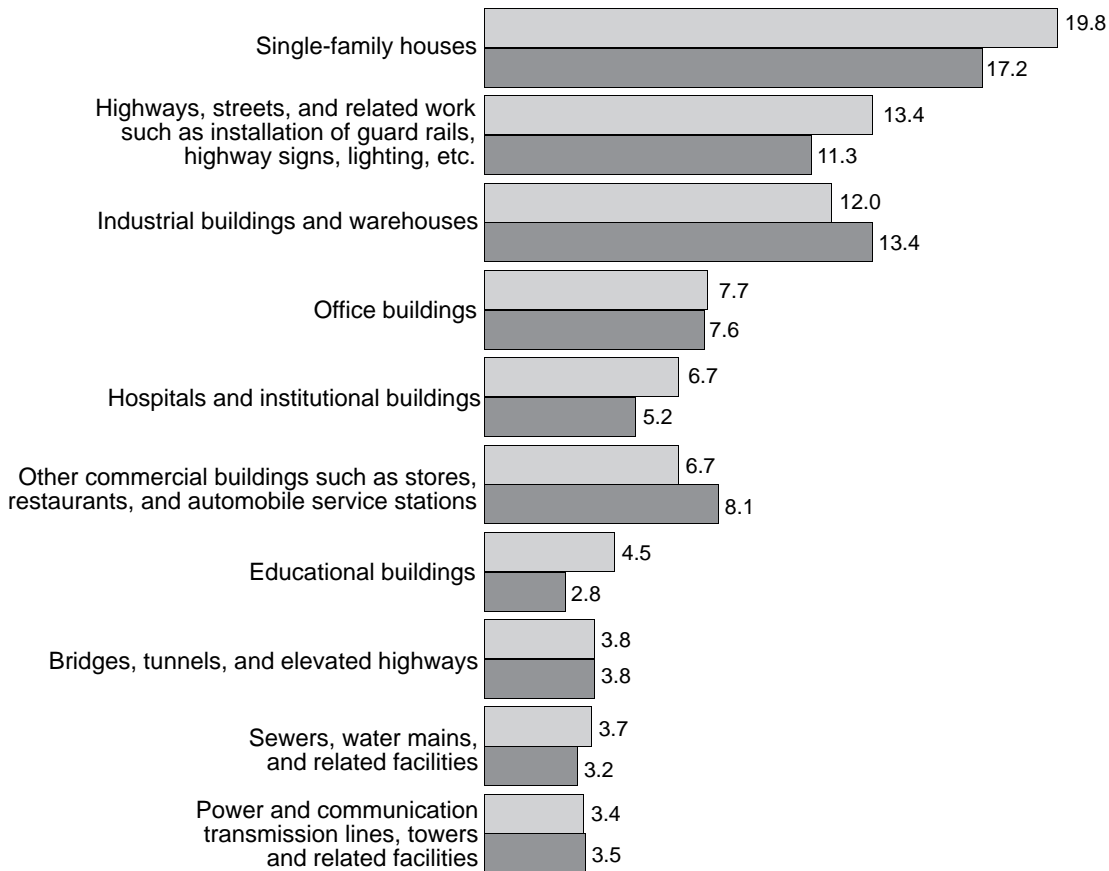




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

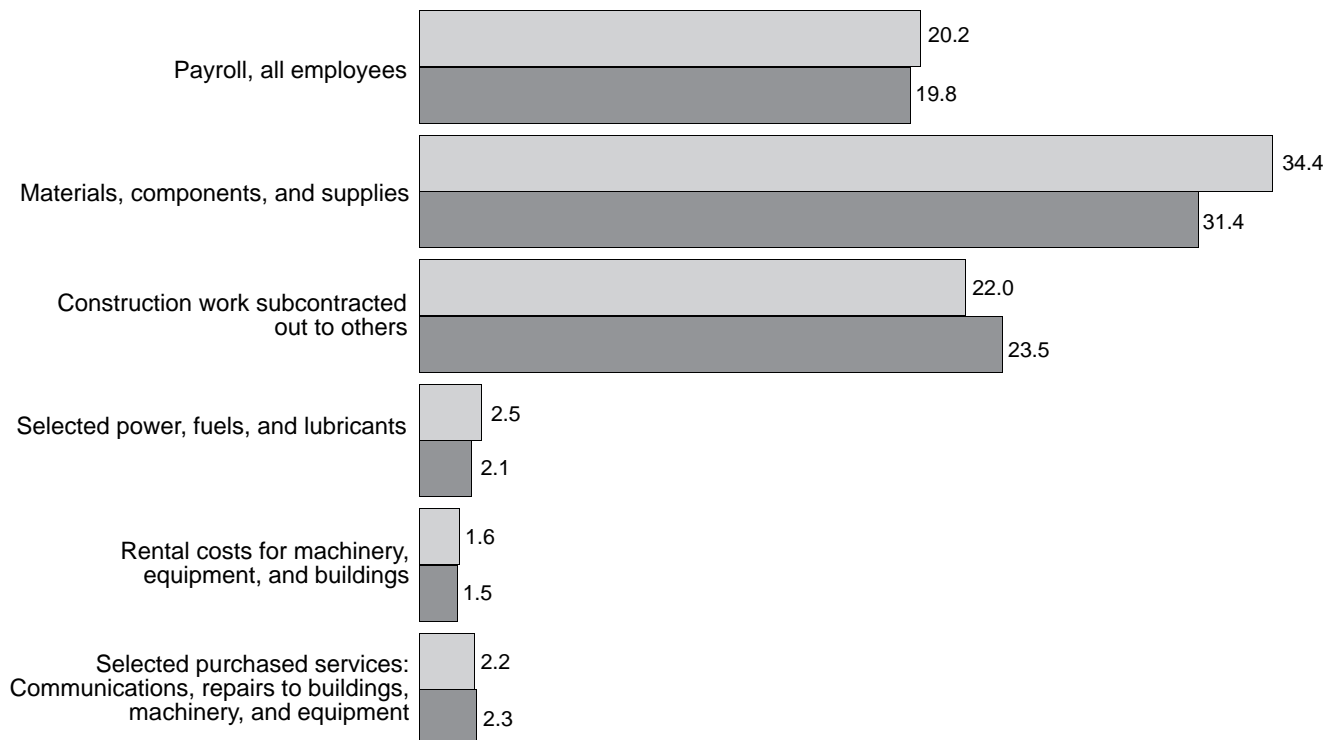


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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
1992															
15, 16, 17	Construction industries -----	17 220	15 425	34 553	3 588 534	13 282	13 118	367 526	3 938	2 307	34 553	3 221 008	1	2	
15	Building construction—General contractors and operative builders ----	2 949	2 287	8 996	1 379 098	1 836	1 704	141 787	1 113	583	8 996	1 237 311	3	4	
16	Heavy construction other than building construction—contractors -----	782	508	9 258	922 731	387	371	14 894	395	(S)	9 258	907 837	2	2	
17	Special trade contractors -----	13 489	12 630	16 298	1 286 705	11 059	11 043	210 845	2 430	1 587	16 298	1 075 860	2	2	
1711	Plumbing, heating, and air-conditioning --	1 586	1 322	4 448	410 485	996	988	29 520	590	334	4 448	380 965	3	3	
1731	Electrical work -----	1 113	971	2 581	180 084	772	767	15 152	341	204	2 581	164 932	5	5	
1987															
15, 16, 17	Construction industries ² -----	17 342	14 419	32 450	3 153 869	13 482	13 334	520 037	3 860	1 085	32 450	2 633 842	1	2	
15	Building construction—General contractors and operative builders ----	3 749	2 682	9 094	1 310 423	2 556	2 407	192 974	1 193	275	9 094	1 117 449	3	4	
16	Heavy construction other than building construction—contractors -----	678	367	8 672	687 317	299	294	23 158	379	73	8 672	664 159	3	2	
17	Special trade contractors -----	12 547	11 065	14 584	1 093 604	10 311	10 333	260 617	2 236	732	14 584	832 987	2	3	
1711	Plumbing, heating, and air-conditioning --	1 542	1 159	3 757	300 768	1 001	1 001	38 359	541	158	3 757	262 409	4	4	
1731	Electrical work -----	1 076	850	2 277	149 854	746	746	21 113	330	104	2 277	128 741	6	5	

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 establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹	3 938	34 553	27 763	649 627	468 930	3 153 995	2 444 000	1 319 709
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	599	2 118	1 675	31 381	20 192	(S)	(S)	75 757
1522	Other residential buildings	37	416	349	5 412	4 022	29 203	20 177	12 498
1531	Operative builders	99	453	166	10 900	2 538	170 237	128 712	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	125	2 034	1 643	34 339	23 536	201 276	131 981	79 724
1542	Nonresidential buildings, n.e.c.	253	3 975	2 994	76 689	49 485	570 681	294 184	131 124
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	137	3 757	3 102	79 053	57 313	422 708	333 542	145 601
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	12	978	855	21 395	17 253	119 275	82 485	49 569
1623	Water, sewer, and utility lines	98	2 151	1 869	48 379	39 442	171 646	151 275	93 778
1629	Heavy construction, n.e.c.	148	2 373	1 911	47 844	34 482	170 521	153 356	94 256
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	590	4 448	3 411	95 013	67 970	371 878	331 500	169 903
1721	Painting and paper hanging	211	924	811	13 603	11 515	36 596	35 098	27 201
1731	Electrical work	341	2 581	2 038	50 424	38 223	161 764	154 691	98 715
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	147	600	560	6 743	6 037	(D)	15 146	(D)
1742	Plastering, drywall, and insulation work	101	1 149	970	20 171	16 021	60 687	56 156	34 168
1743	Terrazzo, tile, marble, and mosaic work	21	101	83	(D)	(S)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry	175	677	563	10 463	7 849	42 707	37 633	18 705
1752	Floor laying and other floor work	52	164	131	2 155	1 588	8 107	7 818	4 667
1761	Roofing, siding, and sheet metal work	239	1 799	1 554	26 333	19 023	107 763	(D)	60 847
1771	Concrete work	136	1 113	933	18 093	14 174	66 492	61 472	39 429
1781	Water well drilling	33	372	284	7 068	5 139	30 789	29 150	16 424
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	28	333	282	5 545	4 306	22 192	19 595	11 471
1793	Glass and glazing work	27	156	89	2 170	1 379	8 493	8 440	3 806
1794	Excavation work	103	402	333	7 827	5 997	25 698	23 718	16 566
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	26	443	369	10 679	8 427	25 536	25 141	19 498
1799	Special trade contractors, n.e.c.	200	1 037	786	(D)	11 404	53 755	50 979	32 654

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	
1 191 304	709 995	732 843	51 778	57 114	550 470	32 450	2 557 272	1 109 665	1	2	5	15, 16, 17
(S) 7 679	(S) 9 026	8 086 *311	1 132 *180	(S) *268	(S) *2 127	2 359 436	170 528 66 271	71 139 18 085	9 31	(S) 29	(S) 46	152 1522
63 274	41 526	(S)	(S)	*1 747	*9 969	789	174 143	57 413	17	24	52	1531
56 006 167 227	69 295 276 496	17 398 27 758	2 182 4 033	1 446 5 130	13 866 45 093	1 204 4 306	144 574 532 056	40 221 126 783	9 4	7 4	30 18	154 1542
202 655	89 166	129 018	13 454	13 881	145 096	3 369	298 284	153 945	4	5	5	1611
(D) 57 726 63 264	36 790 20 371 17 166	16 919 17 167 20 438	2 933 5 731 6 167	3 441 5 165 7 109	35 127 47 919 51 605	973 2 583 1 747	102 676 142 412 96 986	40 007 88 670 56 003	(Z) 5 6	(Z) 6 6	(Z) 15 27	162 1622 1623 1629
170 684	40 378	192 325	5 042	4 811	32 737	3 757	259 435	129 664	3	3	19	1711
(D) 59 145	1 498 7 072	20 973 63 501	1 242 2 505	405 2 190	5 642 35 769	815 2 277	30 614 126 990	21 099 72 997	9 5	12 5	22 21	1721 1731
4 337 22 121 (S)	(D) 4 531 124	10 630 55 734 (S)	118 705 (D)	130 1 043 (S)	1 446 6 750 882	877 1 008 56	22 666 52 494 2 982	13 031 30 471 1 466	11 15 21	10 8 (D)	18 8 (S)	174 1742 1743
19 722 (D)	5 075 289	23 570 2 995	(S) 47	355 20	4 978 849	723 (S)	27 141 (S)	15 103 (S)	15 5	13 4	27 17	175 1751 1752
45 434	(D)	44 166	1 036	1 392	19 737	1 439	83 340	41 832	11	(D)	22	1761
27 500	5 020	21 360	1 184	1 588	15 091	832	28 282	16 829	14	14	30	1771
13 864	1 639	1 088	146	861	17 936	389	25 398	12 382	16	9	8	1781
8 124 5 375 8 656	2 597 (S) 1 979	14 480 3 544 16 469	*485 (S) 1 131	*413 71 1 502	4 839 *2 442 (S)	481 74 572	21 031 (D) 36 696	12 946 3 277 22 947	16 16 22	16 10 16	44 38 38	1791 1793 1794
(D) 21 390	394 2 776	5 012 11 455	387 (D)	482 *1 729	(D) (D)	436 663	41 979 40 077	25 837 26 048	10 14	8 12	(Z) 49	1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

MISSISSIPPI MS—7

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	3 938	3 860	3 566	4 313	1	1	3	4
Proprietors and working partners.....	2 307	1 085	1 522	2 681	3	7	5	6
All employees**	34 553	32 450	37 278	34 137	1	1	1	2
Construction workers:								
March.....	24 925	24 409	30 570	27 045	2	2	1	2
May.....	27 358	26 743	32 771	30 856	1	2	2	2
August.....	29 952	28 602	33 583	31 980	1	2	2	2
November.....	28 816	26 841	31 823	28 680	1	2	1	2
Average.....	27 763	26 649	32 448	29 662	1	2	1	2
Other employees:								
March.....	6 687	5 737	4 795	4 409	2	2	3	3
May.....	6 678	5 774	(NA)	(NA)	2	2	(NA)	(NA)
August.....	6 834	5 892	(NA)	(NA)	2	2	(NA)	(NA)
November.....	6 960	5 801	(NA)	(NA)	2	2	(NA)	(NA)
Average.....	6 790	5 801	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	649 627	522 811	582 257	296 835	1	1	1	1
Payroll, construction workers	468 930	390 641	496 607	238 507	1	1	1	1
Payroll, other employees	180 697	132 170	85 650	58 328	2	2	2	2
First-quarter payroll, all employees	141 929	111 427	125 669	60 996	2	2	1	1
Fringe benefits, all employees	134 071	91 811	121 937	44 472	2	2	1	2
Legally required expenditures.....	99 100	71 745	83 256	32 378	2	2	1	2
Voluntary expenditures.....	34 971	20 066	38 681	12 094	3	3	1	1
Dollar value of business done	3 221 008	2 633 842	2 315 564	1 352 423	2	2	1	2
Value of construction work	3 153 995	2 557 272	2 253 837	1 301 403	2	2	1	2
Value of construction work subcontracted in from others	732 843	505 368	368 385	250 358	4	4	3	3
Other business receipts.....	67 012	55 872	50 464	51 020	6	8	3	4
Net value of construction†	2 444 000	1 937 885	1 880 305	1 059 434	2	2	1	2
Value added††	1 319 709	1 109 665	1 022 752	568 859	2	2	1	2
Selected costs	1 901 299	1 503 479	1 281 549	766 934	2	2	1	3
Materials, components, and supplies	1 109 630	828 013	852 679	493 188	2	2	1	3
Construction work subcontracted out to others	709 995	619 386	373 532	241 969	3	3	2	3
Selected power, fuels, and lubricants.....	81 673	56 079	55 337	31 777	4	2	2	2
Electricity.....	13 320	7 633	7 062	3 480	5	3	2	3
Natural gas.....	6 256	3 127	1 430	1 305	3	3	7	6
Gasoline and diesel fuel	57 334	41 899	41 984	23 701	4	2	2	2
On highway use.....	40 549	30 874	(NA)	(NA)	4	2	(NA)	(NA)
Off highway use.....	16 785	11 024	(NA)	(NA)	6	4	(NA)	(NA)
Other, including lubricating oils and greases.....	4 763	3 419	4 861	3 292	10	3	2	4
Rental cost for machinery, equipment, and buildings	51 778	38 726	39 426	16 445	4	4	1	3
For machinery and equipment	41 169	30 964	34 551	14 457	5	4	2	3
For buildings.....	10 609	7 762	4 875	1 989	6	6	4	5
Selected purchased services	71 350	60 730	57 159	35 110	5	3	1	2
Communication services	17 755	11 247	10 255	6 327	11	4	3	4
Repairs to buildings and other structures	(S)	2 930	2 139	1 316	(S)	11	7	6
Repairs to machinery and equipment	50 076	46 552	44 763	27 468	4	3	1	2
Ownership of construction projects:								
Value of construction work	3 153 995	2 557 272	2 253 837	1 301 403	2	2	1	2
Government owned	1 149 379	799 978	589 868	421 497	3	4	3	2
Federal	374 421	358 555	(NA)	(NA)	5	5	(NA)	(NA)
State and local	774 958	441 423	(NA)	(NA)	4	4	(NA)	(NA)
Privately owned	2 004 617	1 757 293	1 663 968	879 906	4	3	2	3

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

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

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

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	519 973	475 637	3	3
Capital expenditures, other than land	57 114	54 648	5	4
New	42 651	40 336	5	5
Used	14 463	14 312	11	9
Retirements and disposition of depreciable assets	26 616	28 913	9	20
End-of-year gross book value of depreciable assets	550 470	501 372	3	3
Depreciation charges during year	59 933	55 105	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	68 572	94 129	10	8
Capital expenditures, other than land	3 367	8 492	23	12
New buildings and other structures	2 188	6 231	20	14
Used buildings and other structures	*1 179	2 261	54	20
Retirements and disposition of depreciable assets	7 525	2 705	14	29
End-of-year gross book value of depreciable assets	64 414	99 915	10	8
Depreciation charges during year	5 800	7 871	10	8
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	451 401	381 508	3	3
Capital expenditures, other than land	53 746	46 155	5	5
New machinery and equipment, including automobiles and trucks	40 463	34 105	5	5
New automobiles and trucks, intended primarily for highway use	16 675	17 528	8	5
Used machinery and equipment, including automobiles and trucks	13 284	12 050	11	9
Retirements and disposition of depreciable assets	19 091	26 207	12	22
End-of-year gross book value of depreciable assets	486 057	401 456	3	3
Depreciation charges during year	54 133	47 233	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	3 938	1
Value of construction work	3 153 995	2
Establishments with inventories:		
Number	1 120	4
Value of construction work	1 197 992	2
Inventories¹:		
End of 1992, materials and supplies	37 895	18
End of 1991, materials and supplies	37 919	19
Establishments with no inventories:		
Number	1 456	4
Value of construction work	1 171 814	2
Establishments not reporting:		
Number	1 362	4
Value of construction work	784 189	5

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	3 938	2 413	762	413	255	58	28	7	2	—
All employees**	34 553	4 654	4 787	5 598	7 404	4 071	4 669	3 369	(D)	—
Payroll, all employees	649 627	62 775	78 671	94 038	141 051	85 315	104 163	83 615	(D)	—
Dollar value of business done	3 221 008	484 961	376 648	435 209	730 320	338 864	580 018	274 988	(D)	—
Value of construction work	3 153 995	480 467	368 331	422 442	718 992	331 191	562 299	270 273	(D)	—
Net value of construction work†	2 444 000	380 058	323 758	356 836	515 121	281 184	364 614	222 429	(D)	—
Value added††	1 319 709	194 021	184 038	199 117	267 440	149 517	179 396	146 181	(D)	—
Cost of materials, components, supplies, and fuels	1 191 304	190 531	148 038	170 485	259 009	139 340	202 937	80 963	(D)	—
Cost of construction work subcontracted out to others	709 995	100 409	44 573	65 607	203 871	50 007	197 685	47 844	(D)	—
Rental cost for machinery, equipment, and buildings	51 778	3 614	3 894	9 807	9 549	7 281	8 168	9 466	(D)	—
Capital expenditures, other than land	57 114	8 239	8 542	6 330	10 926	9 004	11 131	2 942	(D)	—
End-of-year gross book value of depreciable assets	550 470	(S)	80 070	70 473	107 043	80 321	98 606	55 754	(D)	—
1987										
All employees**	32 450	(S)	5 236	5 831	6 768	3 797	2 936	3 626	(D)	—
Value of construction work	2 557 272	(S)	283 391	382 861	603 214	663 652	(D)	263 837	(D)	—
Value added††	1 109 665	(S)	138 803	167 801	396 406	(D)	111 845	131 684	(D)	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	5	8	8	5	(Z)	(Z)	(Z)	(D)	—
Net value of construction work†	2	9	10	8	4	(Z)	(Z)	(Z)	(D)	—
Capital expenditures, other than land	5	26	20	16	5	(Z)	(Z)	(Z)	(D)	—

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	3 938	(S)	(S)	516	1 011	700	407	362	153	56	42
All employees**	34 553	(S)	(S)	1 010	3 154	4 112	3 748	6 030	4 480	3 925	7 269
Payroll, all employees	649 627	(S)	(S)	10 597	40 238	59 700	61 440	111 467	98 580	82 492	178 563
Dollar value of business done	3 221 008	(S)	(S)	38 482	167 039	251 153	286 843	550 475	531 941	384 140	992 911
Value of construction work	3 153 995	(S)	(S)	38 414	164 207	247 322	277 574	539 566	523 971	376 310	968 716
Net value of construction work†	2 444 000	(S)	(S)	36 021	146 337	223 833	240 969	442 917	405 226	275 526	656 380
Value added††	1 319 709	(S)	(S)	21 981	84 429	126 389	129 767	235 403	207 706	150 829	352 172
Cost of materials, components, supplies, and fuels	1 191 304	(S)	(S)	14 108	64 741	101 276	120 470	218 423	205 489	132 527	328 403
Cost of construction work subcontracted out to others	709 995	(S)	(S)	2 393	17 869	23 488	36 605	96 649	118 745	100 783	312 336
Rental cost for machinery, equipment, and buildings	51 778	(S)	(S)	600	(S)	2 534	3 298	9 563	9 195	6 502	17 748
Capital expenditures, other than land	57 114	(S)	(S)	3 713	6 596	3 674	11 113	8 096	8 265	14 434	
End-of-year gross book value of depreciable assets	550 470	(S)	(S)	(S)	26 033	54 731	44 489	96 925	88 553	69 892	159 917
1987											
All employees**	32 450	(S)	(S)	(S)	4 131	3 141	4 094	5 739	3 278	2 748	6 914
Value of construction work	2 557 272	(S)	(S)	(S)	175 861	183 063	263 667	467 085	346 854	318 252	740 105
Value added††	1 109 665	(S)	(S)	(S)	93 544	92 484	119 766	207 336	152 914	133 565	272 404
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	12	9	9	9	6	3	1	(Z)
Net value of construction work†	2	(S)	(S)	10	7	9	9	8	9	2	(Z)
Capital expenditures, other than land	5	(S)	(S)	28	31	20	12	11	(Z)	(Z)	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	3 153 995	2 005 685	629 334	434 708	2	3	3	4
Building construction	2 014 920	1 341 688	455 080	218 152	3	4	3	6
Single-family houses	626 060	469 139	103 070	53 851	8	11	8	9
Single-family houses, detached	576 329	429 898	96 450	49 981	9	11	8	10
Single-family houses, attached, including townhouses and townhouse-type condominiums	49 730	39 241	6 620	3 870	18	22	26	27
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	55 438	33 605	17 375	4 458	16	23	24	16
Other residential buildings, including hotels, motels, and tourist cabins	23 632	19 426	2 244	1 963	11	10	21	38
Office buildings	242 883	151 195	(S)	27 420	3	4	(S)	8
Other commercial buildings such as stores, restaurants, and automobile service stations	210 607	122 093	55 925	32 590	6	7	10	17
Industrial buildings and warehouses	378 572	251 465	66 104	61 003	3	3	8	8
Industrial buildings	335 820	219 093	58 975	57 753	4	3	8	9
Warehouses	42 752	32 372	7 129	3 250	9	9	17	12
Religious buildings	42 680	20 561	17 732	4 388	11	14	19	17
Educational buildings	141 229	78 909	48 930	13 391	9	12	11	24
Hospitals and institutional buildings	211 730	129 177	68 465	14 087	4	3	9	6
Amusement, social, and recreational buildings, indoors	28 868	23 870	(S)	942	6	6	(S)	26
Other nonresidential buildings	53 221	42 249	6 914	4 059	7	6	12	37
Nonbuilding construction	1 054 807	663 997	174 254	216 557	2	2	6	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	423 657	257 641	95 893	70 122	4	4	9	4
Private driveways and parking areas	25 846	13 817	*2 048	*9 981	27	18	46	47
Recreational facilities	16 417	14 764	1 028	(S)	6	3	21	(S)
Bridges, tunnels, and elevated highways	120 951	98 077	13 541	9 333	1	(Z)	2	4
Conservation and development construction	48 571	32 818	*6 361	9 392	18	22	41	30
Power and communication transmission lines, towers, and related facilities	106 433	50 260	10 376	45 797	7	9	30	2
Sewers, water mains, and related facilities	115 742	84 030	17 603	14 109	5	7	13	8
Sewers, sewer lines, septic systems, and related facilities	51 268	40 306	6 770	4 192	8	9	10	15
Water mains and related facilities	64 474	43 724	10 833	9 917	7	10	21	9
Blast furnaces, petroleum refineries, chemical complexes, etc.	81 787	47 266	*4 405	30 116	8	5	50	13
Sewage treatment and water treatment plants	21 064	11 115	9 116	*833	11	12	10	56
Other nonbuilding construction	94 338	54 209	13 881	26 248	11	16	11	14
Construction work, n.s.k.	84 269	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)
1987								
Value of construction work	2 557 272	1 639 630	475 632	321 784	2	2	3	3
Building construction	1 694 866	1 167 077	374 747	153 042	3	3	4	6
Single-family houses	438 887	323 981	72 932	41 974	8	10	8	10
Single-family houses, detached	376 114	270 222	66 981	38 910	7	10	9	10
Single-family houses, attached, including townhouses and townhouse-type condominiums	62 773	53 758	5 950	3 063	35	40	8	30
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	111 765	90 305	16 403	5 056	7	8	12	19
Other residential buildings, including hotels, motels, and tourist cabins	64 587	42 758	15 764	6 064	9	13	10	24
Office buildings	194 179	141 786	39 076	13 316	5	6	10	7
Other commercial buildings such as stores, restaurants, and automobile service stations	206 423	139 608	44 343	22 471	5	5	9	7
Industrial buildings and warehouses	341 658	221 086	77 509	43 062	5	5	5	12
Industrial buildings	279 217	168 115	70 368	40 733	5	5	6	13
Warehouses	62 441	52 971	7 141	2 328	10	11	12	19
Religious buildings	36 359	21 141	13 349	1 868	8	11	13	12
Educational buildings	72 529	36 769	29 084	6 674	8	10	14	27
Hospitals and institutional buildings	131 957	78 626	48 132	5 198	3	3	4	9
Amusement, social, and recreational buildings, indoors	12 785	10 347	1 881	556	28	35	4	17
Other nonresidential buildings	83 737	60 670	16 274	6 803	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	742 181	472 553	100 885	168 742	2	3	3	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	290 014	166 501	45 566	77 946	2	3	3	3
Private driveways and parking areas	15 189	5 996	1 714	7 477	22	32	35	12
Bridges, tunnels, and elevated highways	96 323	64 973	16 617	14 732	7	6	5	20
Conservation and development construction	16 157	(D)	(D)	*1 155	21	(D)	(D)	52
Power and communication transmission lines, towers, and related facilities	90 605	68 285	9 638	12 680	5	3	9	30
Sewers, water mains, and related facilities	81 598	60 324	7 790	13 483	9	9	21	14
Sewers, sewer lines, septic systems, and related facilities	39 757	27 882	4 635	7 239	10	10	18	21
Water mains and related facilities	41 840	32 441	3 155	6 243	10	10	31	16
Blast furnaces, petroleum refineries, chemical complexes, etc.	30 265	(D)	(D)	20 824	3	(D)	(D)	3
Sewage treatment and water treatment plants	16 010	10 927	4 688	*394	2	3	(Z)	46
Other nonbuilding construction	106 020	74 050	11 930	20 051	14	15	16	15
Construction work, n.s.k.	120 224	(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	A	B	C	D	E
15, 16, 17	Construction industries -----	3 938	27 763	24 925	27 358	29 952	28 816	1	1	2	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	599	1 675	1 598	1 690	1 790	1 619	6	9	9	9	9	9	9
1522	Other residential buildings -----	37	349	354	383	387	274	37	32	35	30	34	30	30
1531	Operative builders -----	99	166	134	172	189	170	19	29	25	26	28	29	29
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	125	1 643	1 410	1 650	1 811	1 701	17	9	9	9	10	10	10
1542	Nonresidential buildings, n.e.c. ---	253	2 994	2 719	2 923	3 281	3 052	11	4	4	5	4	4	4
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	137	3 102	2 556	3 292	3 397	3 162	13	4	4	4	4	4	4
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	12	855	708	868	930	915	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1623	Water, sewer, and utility lines ----	98	1 869	1 288	1 462	2 145	2 581	13	4	6	5	3	4	4
1629	Heavy construction, n.e.c. -----	148	1 911	1 345	1 628	2 340	2 332	13	7	7	7	8	6	6
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	590	3 411	3 282	3 450	3 587	3 327	3	3	3	3	3	3	3
1721	Painting and paper hanging -----	211	811	786	818	858	784	8	10	11	10	10	10	10
1731	Electrical work -----	341	2 038	2 034	1 930	2 085	2 105	6	5	5	5	5	5	5
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	147	560	605	623	549	463	6	11	14	11	12	13	13
1742	Plastering, drywall, and insulation work -----	101	970	974	937	969	1 000	15	15	16	16	13	14	14
1743	Terrazzo, tile, marble, and mosaic work -----	21	83	(S)	91	77	(S)	17	21	(S)	19	23	(S)	(S)
175	Carpentry and floor work:													
1751	Carpentry -----	175	563	490	568	593	601	9	15	15	14	16	18	18
1752	Floor laying and other floor work --	52	131	146	139	124	116	9	6	5	3	6	3	3
1761	Roofing, siding, and sheet metal work -----	239	1 554	1 554	1 489	1 631	1 541	8	11	12	9	11	13	13
1771	Concrete work -----	136	933	856	897	1 057	924	13	15	14	12	19	19	19
1781	Water well drilling -----	33	284	273	288	287	288	23	20	15	18	18	25	25
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	28	282	234	372	254	270	7	15	15	27	19	17	17
1793	Glass and glazing work -----	27	89	86	91	89	91	3	15	13	15	14	16	16
1794	Excavation work -----	103	333	316	362	349	304	20	21	25	22	20	19	19
1795	Wrecking and demolition work -----	--	--	--	--	--	--	--	--	--	--	--	--	--
1796	Installing building equipment, n.e.c. -----	26	369	344	352	396	382	21	12	9	9	13	13	13
1799	Special trade contractors, n.e.c. ---	200	786	747	884	778	738	12	13	18	13	12	14	14

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 -----	8.8	18.8	113.6	.206	.378	.225	.232	.016
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.5	14.8	(S) 83.7	(S) .185	(S) .263	(S) .309	(S) *.011	(S) .006
1522	Other residential buildings -----	11.3	13.0						
1531	Operative builders -----	4.6	24.1	1 025.5	.064	.372	.244	(S)	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	16.3	16.9	122.5	.171	.278	.344	.086	.011
1542	Nonresidential buildings, n.e.c. -----	15.7	19.3	190.6	.134	.293	.485	.049	.007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	27.4	21.0	136.3	.187	.479	.211	.305	.032
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	81.5	21.9	139.5	.179	(D)	.308	.142	.025
1623	Water, sewer, and utility lines -----	21.9	22.5	91.8	.282	.336	.119	.100	.033
1629	Heavy construction, n.e.c. -----	16.1	20.2	89.2	.281	.371	.101	.120	.036
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.5	21.4	109.0	.255	.459	.109	.517	.014
1721	Painting and paper hanging -----	4.4	14.7	45.1	.372	(D)	.041	.573	.034
1731	Electrical work -----	7.6	19.5	79.4	.312	.366	.044	.393	.015
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	4.1	11.2	(D)	(D)	(D)	(D)	(D)	(D)
1742	Plastering, drywall, and insulation work -----	11.4	17.6	62.6	.332	.365	.075	.918	.012
1743	Terrazzo, tile, marble, and mosaic work -----	4.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry -----	3.9	15.5	75.9	.245	.462	.119	.552	(S)
1752	Floor laying and other floor work -----	3.2	13.1	61.9	.266	(D)	.036	.369	.006
1761	Roofing, siding, and sheet metal work -----	7.5	14.6	69.3	.244	.422	(D)	.410	.010
1771	Concrete work -----	8.2	16.3	71.3	.272	.414	.075	.321	.018
1781	Water well drilling -----	11.2	19.0	108.4	.230	.450	.053	.035	.005
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	11.7	16.7	78.7	.250	.366	.117	.652	.022
1793	Glass and glazing work -----	5.8	13.9	95.4	.256	.633	(S)	.417	(S)
1794	Excavation work -----	3.9	19.5	77.2	.305	.337	.077	.641	.044
1795	Wrecking and demolition work -----	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c. -----	17.3	24.1	69.2	.418	(D)	.015	.196	.015
1799	Special trade contractors, n.e.c. -----	5.2	(D)	68.4	(D)	.398	.052	.213	(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) 10 904	67 368	(S) 704	12	13
1522	Other residential buildings	30	291	6 235	44 648	26 674	15 870		17 974		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

Contents

Tennessee

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Tennessee. 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 44,135 establishments in this State operating in the construction industries. These establishments accounted for \$10.7 billion in total dollar value of business done.

Most of the 44,135 construction establishments were small. Of the total, 34,865 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,941 construction establishments with 5 employees or more, while representing only 9 percent of all establishments, accounted for more than 80 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$9.6 billion in total dollar value of business done. Of this amount, \$9.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.8 billion, leaving net value of construction work of \$6.7 billion. In addition, these establishments paid out \$3.5 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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.

and the cost of selected purchased services. Value added for 1992 was \$3.6 billion. (See Introduction and appendixes for explanation of terms.)

There were 9,270 establishments with total employment averaging 89,768 during the year. Total payroll for 1992 was \$2.0 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 34,865 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.1 billion. 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.

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

1992 
1987 

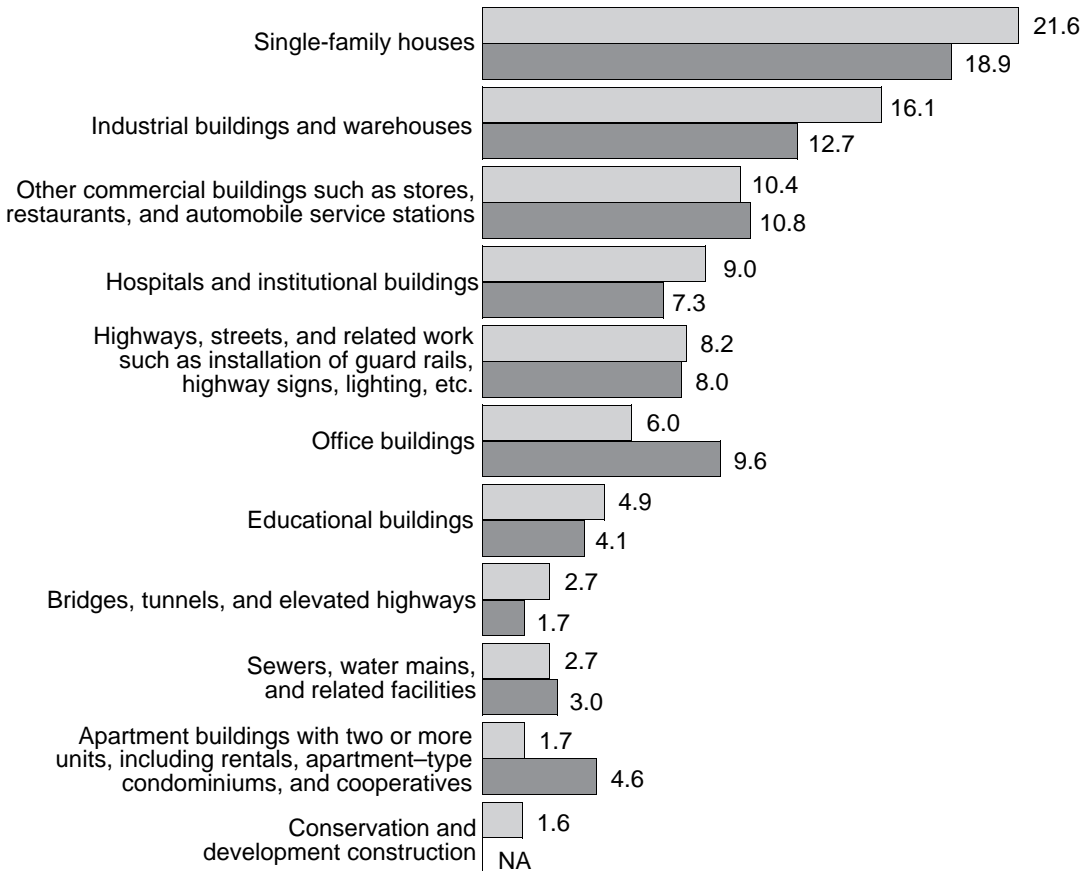




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

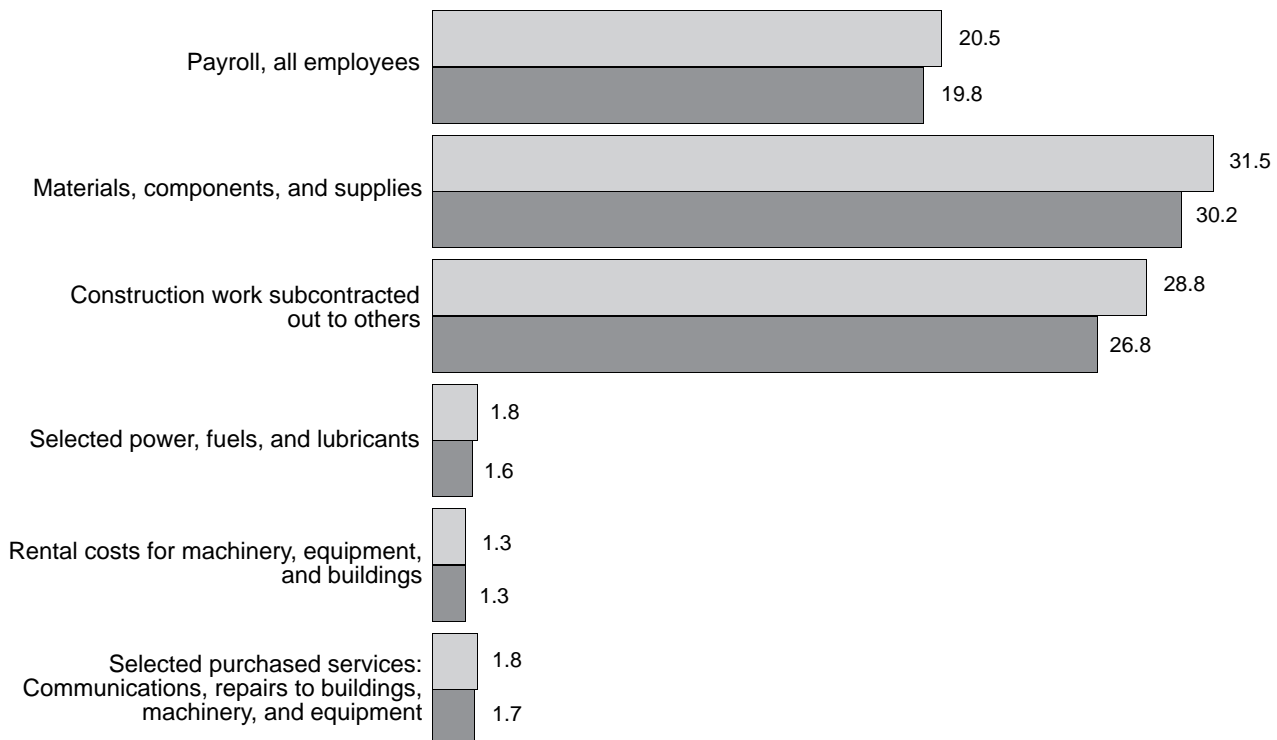


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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
1992															
15, 16, 17	Construction industries -----	44 135	40 479	89 768	10 675 965	34 865	34 970	1 081 683	9 270	5 509	89 768	9 594 282	1	1	
15	Building construction—General contractors and operative builders ----	7 852	6 505	23 002	4 596 906	5 132	5 051	495 045	2 720	1 454	23 002	4 101 861	2	2	
16	Heavy construction other than building construction—contractors -----	1 307	967	15 703	1 939 286	631	635	19 337	676	332	15 703	1 919 949	1	1	
17	Special trade contractors -----	34 976	33 007	51 063	4 139 773	29 102	29 284	567 301	5 874	3 723	51 063	3 572 472	1	1	
1711	Plumbing, heating, and air-conditioning --	3 876	3 281	13 599	1 168 661	2 558	2 578	70 274	1 318	703	13 599	1 098 387	2	2	
1731	Electrical work -----	2 794	2 376	9 669	744 115	2 015	2 013	36 096	779	363	9 669	708 019	2	2	
1987															
15, 16, 17	Construction industries ² -----	43 724	37 854	99 216	11 264 856	34 827	34 953	1 887 050	8 897	2 901	99 216	9 377 806	1	1	
15	Building construction—General contractors and operative builders ----	9 413	7 310	28 356	5 114 580	6 754	6 482	730 041	2 659	828	28 356	4 384 539	2	2	
16	Heavy construction other than building construction—contractors -----	1 208	764	15 576	1 636 426	509	528	40 652	699	236	15 576	1 595 774	2	2	
17	Special trade contractors -----	32 043	28 661	54 798	4 082 610	26 640	26 857	790 632	5 403	1 804	54 798	3 291 978	1	1	
1711	Plumbing, heating, and air-conditioning --	3 612	2 815	12 417	1 015 759	2 412	2 440	114 771	1 200	375	12 417	900 988	2	2	
1731	Electrical work -----	2 452	1 880	11 012	708 466	1 725	1 732	44 726	727	148	11 012	663 740	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 establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries¹	9 270	89 768	70 234	1 965 588	1 370 722	9 470 394	6 704 111	3 632 375
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	1 489	5 463	3 986	88 456	55 912	732 888	515 020	209 610
1522	Other residential buildings	80	848	641	15 528	9 541	121 928	66 958	31 567
1531	Operative builders	408	1 648	799	40 242	13 461	520 651	333 192	148 184
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	203	4 727	3 746	112 321	78 650	606 296	325 130	168 579
1542	Nonresidential buildings, n.e.c.	540	10 315	7 374	246 915	148 548	2 076 727	748 343	379 294
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	191	5 965	5 042	145 517	108 095	795 924	620 940	315 579
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	30	1 433	1 262	35 770	27 549	204 114	136 954	64 753
1623	Water, sewer, and utility lines	191	3 273	2 780	68 830	53 208	296 554	258 409	147 021
1629	Heavy construction, n.e.c.	264	5 033	4 079	162 803	128 891	595 990	451 895	275 928
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	1 318	13 599	10 521	302 404	209 191	1 089 836	996 794	532 988
1721	Painting and paper hanging	405	2 598	2 166	46 639	34 363	124 509	117 014	82 707
1731	Electrical work	779	9 669	7 543	236 231	165 389	695 778	672 550	398 939
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	468	3 219	2 899	51 590	42 496	130 477	(D)	79 465
1742	Plastering, drywall, and insulation work	285	3 743	3 040	70 937	51 239	247 437	228 024	128 658
1743	Terrazzo, tile, marble, and mosaic work	92	541	401	8 875	5 996	28 711	27 745	15 040
175	Carpentry and floor work:								
1751	Carpentry	485	1 932	1 597	30 776	23 238	128 137	109 740	65 061
1752	Floor laying and other floor work	146	681	520	12 006	7 964	68 053	60 364	30 877
1761	Roofing, siding, and sheet metal work	549	4 357	3 383	83 358	57 248	300 934	275 409	147 888
1771	Concrete work	386	2 758	2 240	47 607	33 155	189 476	168 313	99 502
1781	Water well drilling	46	264	204	4 722	3 316	20 704	20 339	12 124
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	45	967	811	22 573	18 157	57 785	53 683	36 191
1793	Glass and glazing work	65	467	317	9 830	5 593	30 611	30 329	13 948
1794	Excavation work	247	1 195	1 006	19 608	15 757	75 936	70 636	50 155
1795	Wrecking and demolition work	12	98	80	1 436	1 147	5 371	(D)	3 331
1796	Installing building equipment, n.e.c.	98	2 129	1 664	49 250	37 646	153 501	136 659	93 342
1799	Special trade contractors, n.e.c.	449	2 847	2 133	51 364	34 974	172 064	151 801	101 643

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	
3 195 624	2 766 283	2 293 286	125 265	169 126	1 469 507	99 216	9 058 512	3 743 920	1	1	3	15, 16, 17
311 580	217 868	14 611	3 870	8 761	54 282	5 967	513 227	196 234	5	6	32	152
35 552	54 970	*3 352	905	827	6 930	1 954	400 517	95 792	20	12	39	1522
199 009	187 459	(S)	1 381	2 789	28 217	3 017	606 496	139 481	9	10	26	1531
162 794	281 166	23 620	6 499	4 244	49 633	3 864	438 788	168 375	4	3	11	154
385 844	1 328 385	44 224	15 699	14 299	118 696	13 554	2 253 954	584 658	2	2	16	1542
												16
325 920	174 984	154 802	17 592	35 425	332 390	6 674	748 872	316 690	2	1	5	1611
73 366	67 160	28 049	2 408	4 702	45 864	1 230	114 007	53 398	4	4	6	162
111 649	38 145	24 644	5 125	9 868	101 638	4 424	372 000	203 684	4	5	14	1622
181 349	144 095	86 648	22 535	34 335	213 401	3 248	321 124	156 523	2	2	2	1623
												1629
												17
472 357	93 042	633 310	15 199	13 304	123 259	12 417	892 336	423 643	2	2	9	1711
34 587	7 495	81 106	2 049	3 563	18 221	2 598	102 111	68 061	5	5	23	1721
285 852	23 228	370 933	7 495	10 016	83 117	11 012	648 989	398 487	2	2	10	1731
44 313	(D)	98 009	1 722	(S)	17 799	4 794	151 393	95 205	5	(D)	(S)	174
105 448	19 413	189 091	2 502	2 137	19 162	4 950	293 342	157 789	6	5	18	1741
14 279	(S)	26 248	*487	287	3 151	743	35 730	20 423	9	10	20	1742
												1743
												175
45 228	18 397	(S)	1 373	1 422	12 011	2 410	118 990	72 316	10	8	22	1751
30 624	7 689	45 787	*1 538	607	6 586	656	40 195	16 612	13	15	39	1752
131 090	25 525	126 288	3 212	4 692	50 192	4 239	248 581	126 651	4	5	20	1761
68 982	21 164	87 563	2 938	4 628	46 653	2 285	138 877	70 049	8	6	27	1771
8 466	365	1 354	250	580	9 986	192	13 241	6 673	9	8	3	1781
19 506	4 102	39 356	1 352	784	12 427	1 461	75 157	55 114	4	3	9	179
18 730	283	21 035	621	298	2 846	609	45 535	24 827	7	6	25	1791
22 009	5 300	43 038	2 875	(S)	56 139	1 586	113 899	80 157	10	11	(S)	1793
1 072	(D)	953	242	110	1 577	165	*10 159	*8 632	(Z)	(D)	(Z)	1794
49 270	16 842	27 645	2 897	3 074	29 435	1 705	141 128	87 412	3	3	5	1795
56 749	20 264	51 464	2 498	2 054	25 896	2 976	150 623	84 831	8	9	23	1796
												1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

TENNESSEE TN-7

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

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

Item	1992	1987	1982	1977	Relative standard error of estimate (percent)			
					1992	1987	1982	1977
Number of establishments in business during year	9 270	8 897	7 558	9 352	1	1	2	3
Proprietors and working partners.....	5 509	2 901	3 263	6 839	2	4	3	4
All employees**	89 768	99 216	73 506	85 239	1	1	1	1
Construction workers:								
March.....	64 834	76 100	57 969	64 673	1	1	1	1
May.....	70 201	81 725	61 307	76 632	1	1	1	1
August.....	73 299	85 656	63 339	80 300	1	1	1	1
November.....	72 600	79 179	59 892	73 783	1	1	1	1
Average.....	70 234	80 665	61 360	74 002	1	1	1	1
Other employees:								
March.....	19 651	18 332	12 028	10 569	1	1	1	2
May.....	19 402	18 474	(NA)	(NA)	1	1	(NA)	(NA)
August.....	19 433	18 652	(NA)	(NA)	1	1	(NA)	(NA)
November.....	19 650	18 743	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	19 534	18 550	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	1 965 588	1 860 226	1 098 325	839 143	1	1	1	1
Payroll, construction workers	1 370 722	1 340 801	836 990	667 116	1	1	1	1
Payroll, other employees	594 866	519 425	261 335	172 028	1	1	1	1
First-quarter payroll, all employees	427 212	415 502	250 697	168 293	1	1	1	1
Fringe benefits, all employees	372 040	328 407	187 493	129 575	1	1	1	1
Legally required expenditures.....	270 630	247 339	141 148	90 427	1	1	1	1
Voluntary expenditures.....	101 410	81 068	46 344	39 149	1	1	1	1
Dollar value of business done	9 594 282	9 377 806	5 272 053	3 707 520	1	1	1	1
Value of construction work	9 470 394	9 058 512	5 110 219	3 548 969	1	1	1	1
Value of construction work subcontracted in from others	2 293 286	1 881 170	1 131 831	842 790	2	2	2	1
Other business receipts	123 888	181 320	135 252	158 551	6	4	2	6
Net value of construction†	6 704 111	6 548 024	3 713 067	2 717 044	1	1	1	1
Value added††	3 632 375	3 743 920	2 113 330	1 466 511	1	1	1	1
Selected costs	5 961 907	5 495 912	3 132 141	2 173 539	1	1	1	1
Materials, components, and supplies	3 024 317	2 836 645	1 629 017	1 270 857	1	1	1	1
Construction work subcontracted out to others	2 766 283	2 510 488	1 397 152	831 925	1	1	1	1
Selected power, fuels, and lubricants.....	171 307	148 778	105 971	70 757	1	1	2	1
Electricity.....	30 335	21 789	14 094	8 261	3	2	2	2
Natural gas.....	8 988	5 727	4 970	3 380	3	3	2	4
Gasoline and diesel fuel	120 050	108 864	79 140	51 194	1	1	2	1
On highway use.....	80 787	74 516	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use.....	39 263	34 348	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases.....	11 935	12 396	7 765	7 922	4	2	2	3
Rental cost for machinery, equipment, and buildings	125 265	122 664	63 251	45 192	3	2	1	1
For machinery and equipment	88 400	89 182	50 474	38 538	3	3	2	2
For buildings.....	36 865	33 481	12 776	6 654	4	3	2	2
Selected purchased services	176 483	158 615	95 787	80 754	2	2	1	3
Communication services	49 143	35 584	21 320	16 416	4	2	2	6
Repairs to buildings and other structures	7 690	7 687	3 513	2 838	5	5	4	5
Repairs to machinery and equipment	119 650	115 343	70 953	61 499	2	2	1	2
Ownership of construction projects:								
Value of construction work	9 470 394	9 058 512	5 110 219	3 548 969	1	1	1	1
Government owned	2 679 008	2 123 651	1 351 559	865 415	2	2	2	1
Federal	778 574	544 358	(NA)	(NA)	5	3	(NA)	(NA)
State and local	1 900 434	1 579 292	(NA)	(NA)	2	2	(NA)	(NA)
Privately owned	6 791 386	6 934 861	3 758 660	2 683 555	2	1	1	1

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

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

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

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	1 380 837	1 079 566	2	2
Capital expenditures, other than land	169 126	167 937	3	3
New	127 838	132 102	4	4
Used	41 288	35 834	4	5
Retirements and disposition of depreciable assets	80 457	70 022	7	8
End-of-year gross book value of depreciable assets	1 469 507	1 177 482	2	2
Depreciation charges during year	151 341	140 514	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	162 428	190 712	6	6
Capital expenditures, other than land	17 120	24 911	13	11
New buildings and other structures	13 786	19 396	16	14
Used buildings and other structures	3 334	5 514	15	13
Retirements and disposition of depreciable assets	12 199	7 305	36	28
End-of-year gross book value of depreciable assets	167 348	208 318	5	6
Depreciation charges during year	12 732	17 130	6	6
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	1 218 409	888 853	2	2
Capital expenditures, other than land	152 007	143 026	3	3
New machinery and equipment, including automobiles and trucks	114 052	112 706	3	4
New automobiles and trucks, intended primarily for highway use	40 682	47 546	6	4
Used machinery and equipment, including automobiles and trucks	37 954	30 320	4	5
Retirements and disposition of depreciable assets	68 258	62 716	5	8
End-of-year gross book value of depreciable assets	1 302 158	969 163	2	2
Depreciation charges during year	138 609	123 384	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	9 270	1
Value of construction work	9 470 394	1
Establishments with inventories:		
Number	2 598	3
Value of construction work	3 517 769	1
Inventories¹:		
End of 1992, materials and supplies	109 032	5
End of 1991, materials and supplies	129 748	10
Establishments with no inventories:		
Number	3 244	3
Value of construction work	4 012 690	1
Establishments not reporting:		
Number	3 429	2
Value of construction work	1 939 936	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	9 270	5 330	1 882	1 096	680	188	78	11	6	—
All employees**	89 768	10 334	12 139	14 639	20 582	12 830	11 452	3 574	4 217	—
Payroll, all employees	1 965 588	144 048	213 086	285 035	472 043	335 750	290 506	93 677	131 443	—
Dollar value of business done	9 594 282	1 088 864	1 034 065	1 304 988	2 111 492	1 440 621	1 574 546	549 462	490 244	—
Value of construction work	9 470 394	1 073 835	1 016 984	1 286 028	2 084 810	1 427 805	1 546 306	546 019	488 607	—
Net value of construction work†	6 704 111	819 470	806 856	1 011 336	1 519 809	1 054 517	937 933	325 665	228 525	—
Value added††	3 632 375	381 766	427 827	548 125	875 073	577 000	483 013	180 209	159 361	—
Cost of materials, components, supplies, and fuels	3 195 624	452 733	396 110	482 171	671 418	490 332	483 160	148 899	70 801	—
Cost of construction work subcontracted out to others	2 766 283	254 365	210 128	274 692	565 001	373 288	608 373	220 354	260 082	—
Rental cost for machinery, equipment, and buildings	125 265	9 331	14 832	16 620	24 219	22 065	20 651	6 046	11 501	—
Capital expenditures, other than land	169 126	13 698	15 804	23 516	35 624	25 260	19 626	35 598	(D)	—
End-of-year gross book value of depreciable assets	1 469 507	115 402	165 676	207 547	333 192	228 928	192 989	225 773	(D)	—
1987										
All employees**	99 216	9 366	13 574	14 866	23 034	15 653	13 146	6 472	3 100	(D)
Value of construction work	9 058 512	783 027	948 134	1 164 005	1 921 145	1 470 439	1 731 602	842 251	197 907	(D)
Value added††	3 743 920	309 755	417 829	527 633	875 684	619 398	656 208	250 548	86 863	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	5	4	2	2	(Z)	(Z)	(Z)	—
Net value of construction work†	1	5	5	4	2	1	(Z)	(Z)	(Z)	—
Capital expenditures, other than land	3	13	18	12	4	(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	9 270	(S)	(S)	1 129	2 325	1 488	1 255	1 036	368	178	141
All employees**	89 768	(S)	(S)	2 136	7 241	8 233	11 523	16 823	12 066	10 632	19 572
Payroll, all employees	1 965 588	(S)	(S)	21 653	90 084	124 712	208 576	362 462	293 569	282 419	569 619
Dollar value of business done	9 594 282	(S)	(S)	83 078	373 235	534 574	877 355	1 555 235	1 288 056	1 233 666	3 612 388
Value of construction work	9 470 394	(S)	(S)	82 574	368 882	526 778	865 497	1 525 675	1 265 199	1 219 999	3 579 301
Net value of construction work†	6 704 111	(S)	(S)	76 392	329 247	456 281	721 864	1 234 419	992 422	921 342	1 938 443
Value added††	3 632 375	(S)	(S)	47 276	190 709	242 379	392 836	667 232	540 879	515 900	1 013 875
Cost of materials, components, supplies, and fuels	3 195 624	(S)	(S)	(S)	142 891	221 699	340 887	596 748	474 400	419 109	957 655
Cost of construction work subcontracted out to others	2 766 283	(S)	(S)	6 182	39 635	70 496	143 632	291 255	272 777	298 657	1 640 858
Rental cost for machinery, equipment, and buildings	125 265	(S)	(S)	1 313	(S)	7 559	13 803	20 703	15 955	13 358	48 605
Capital expenditures, other than land	169 126	(S)	(S)	(S)	6 275	9 277	18 875	24 172	18 449	27 915	61 311
End-of-year gross book value of depreciable assets	1 469 507	(S)	(S)	(S)	59 217	89 777	145 656	267 824	219 074	172 857	494 709
1987											
All employees**	99 216	(S)	(S)	(S)	(S)	9 422	11 159	18 340	14 925	12 653	19 785
Value of construction work	9 058 512	(S)	(S)	(S)	(S)	524 213	732 241	1 531 913	1 275 977	1 206 832	3 335 228
Value added††	3 743 920	(S)	(S)	(S)	(S)	246 821	357 908	722 286	593 017	530 360	1 049 547
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	8	6	6	5	3	2	(Z)	(Z)
Net value of construction work†	1	(S)	(S)	7	5	6	5	4	3	2	1
Capital expenditures, other than land	3	(S)	(S)	(S)	15	19	16	11	6	(Z)	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	9 470 394	5 789 577	2 199 532	1 246 690	1	1	2	2
Building construction	7 053 547	4 491 741	1 780 547	781 260	1	2	2	2
Single-family houses	2 045 003	1 498 726	352 408	193 868	3	4	5	5
Single-family houses, detached	1 938 825	1 430 274	330 991	177 560	4	5	6	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	106 178	68 452	21 418	16 308	11	15	20	18
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	164 521	102 880	31 586	(S)	6	5	11	(S)
Other residential buildings, including hotels, motels, and tourist cabins	93 177	57 444	22 940	12 794	8	8	18	24
Office buildings	570 603	298 783	205 967	65 854	2	2	4	5
Other commercial buildings such as stores, restaurants, and automobile service stations	988 105	632 053	247 088	108 964	2	2	5	6
Industrial buildings and warehouses	1 529 058	852 979	399 150	276 929	1	2	2	2
Industrial buildings	1 300 174	692 400	353 600	254 174	1	2	3	2
Warehouses	228 884	160 579	45 550	22 755	3	4	3	3
Religious buildings	135 937	79 712	44 023	12 202	4	5	7	9
Educational buildings	465 824	270 478	172 295	23 051	4	4	6	6
Hospitals and institutional buildings	855 505	571 830	251 331	32 344	1	1	2	3
Amusement, social, and recreational buildings, indoors	65 683	49 778	12 451	3 455	5	6	10	11
Other nonresidential buildings	140 129	77 077	(S)	21 744	5	4	(S)	19
Nonbuilding construction	2 182 252	1 297 836	418 985	465 430	1	2	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	779 167	417 014	196 267	165 886	2	2	2	2
Outdoor swimming pools	29 271	23 357	861	5 052	22	24	39	29
Private driveways and parking areas	82 628	35 700	23 904	23 024	10	11	15	18
Recreational facilities	33 897	30 681	3 015	*201	2	1	16	64
Bridges, tunnels, and elevated highways	259 157	204 794	34 590	19 772	3	3	3	3
Marine construction	48 886	(D)	(D)	15 369	3	(D)	(D)	(Z)
Conservation and development construction	148 897	57 792	13 549	77 556	4	8	18	3
Power and communication transmission lines, towers, and related facilities	135 441	88 490	25 838	21 113	6	9	6	5
Sewers, water mains, and related facilities	256 049	196 372	35 624	24 053	6	8	5	12
Sewers, sewer lines, septic systems, and related facilities	159 165	124 112	21 842	13 211	9	11	8	21
Water mains and related facilities	96 884	72 259	13 782	10 842	3	4	3	5
Pipeline construction other than sewer or water lines	42 656	31 586	7 769	3 301	4	5	5	6
Blast furnaces, petroleum refineries, chemical complexes, etc.	94 586	57 257	7 713	29 616	2	1	(Z)	5
Power plants	111 884	(D)	(D)	63 532	3	(D)	(D)	5
Sewage treatment and water treatment plants	88 830	63 231	20 421	5 178	5	4	9	22
Sewage treatment plants	41 409	25 627	13 852	1 930	3	1	7	35
Water treatment plants	47 421	37 604	6 569	3 249	8	6	14	28
Other nonbuilding construction	70 904	47 738	11 391	11 775	9	9	15	14
Construction work, n.s.k.	234 594	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
1987								
Value of construction work	9 058 512	6 285 993	1 601 053	793 822	1	1	2	2
Building construction	6 780 220	5 018 496	1 210 269	551 454	1	1	2	3
Single-family houses	1 715 813	1 323 262	244 685	147 865	4	4	7	6
Single-family houses, detached	1 497 040	1 132 303	229 896	134 840	4	5	7	7
Single-family houses, attached, including townhouses and townhouse-type condominiums	218 773	190 958	14 789	13 025	8	8	26	16
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	416 430	364 335	21 183	30 911	3	3	10	17
Other residential buildings, including hotels, motels, and tourist cabins	353 255	289 862	43 198	20 194	3	2	13	8
Office buildings	865 755	631 931	168 111	65 712	2	3	3	4
Other commercial buildings such as stores, restaurants, and automobile service stations	975 967	716 013	183 084	76 869	2	2	6	7
Industrial buildings and warehouses	1 151 881	787 213	214 125	150 543	2	2	3	4
Industrial buildings	874 508	550 030	189 658	134 820	2	2	3	5
Warehouses	277 372	237 182	24 467	15 722	3	3	8	9
Religious buildings	101 608	65 593	27 371	8 643	4	5	8	6
Educational buildings	374 852	270 418	86 686	17 747	2	1	9	2
Hospitals and institutional buildings	658 748	464 026	171 380	23 341	1	1	3	3
Amusement, social, and recreational buildings, indoors	62 026	30 143	29 870	2 012	4	7	4	6
Other nonresidential buildings	103 885	75 700	20 576	7 617	12	14	16	11
Nonbuilding construction	1 900 648	1 267 497	390 783	242 367	1	2	3	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	725 742	429 016	198 657	98 068	2	2	5	2
Private driveways and parking areas	59 045	41 675	9 913	7 456	8	9	6	25
Bridges, tunnels, and elevated highways	149 679	119 379	25 196	5 103	3	4	2	7
Power and communication transmission lines, towers, and related facilities	199 401	89 015	53 831	56 554	1	3	(Z)	1
Sewers, water mains, and related facilities	268 058	224 682	26 373	17 002	7	8	17	10
Sewers, sewer lines, septic systems, and related facilities	170 249	142 307	17 217	10 724	10	11	21	11
Water mains and related facilities	97 809	82 374	9 156	6 278	5	5	24	16
Pipeline construction other than sewer or water lines	55 771	15 719	5 235	4 816	8	8	19	18
Blast furnaces, petroleum refineries, chemical complexes, etc.	16 261	4 356	2 262	9 643	7	19	7	2
Power plants	31 361	12 249	4 691	14 420	7	3	8	13
Sewage treatment and water treatment plants	130 421	103 993	25 311	1 116	1	1	1	6
Sewage treatment plants	103 256	82 701	(D)	(D)	1	1	(D)	(D)
Water treatment plants	27 164	21 292	(D)	(D)	2	3	(D)	(D)
Other nonbuilding construction	294 909	227 413	39 314	28 189	8	9	12	14
Construction work, n.s.k.	377 643	(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	A	B	C	D	E
15, 16, 17	Construction industries -----	9 270	70 234	64 834	70 201	73 299	72 600	1	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	1 489	3 986	3 705	4 168	4 213	3 857	4	6	6	6	6	6	6
1522	Other residential buildings -----	80	641	599	635	627	702	23	23	25	25	23	20	
1531	Operative builders -----	408	799	790	835	823	749	10	12	12	12	12	11	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	203	3 746	3 675	3 725	3 867	3 718	13	5	4	4	7	5	
1542	Nonresidential buildings, n.e.c. ---	540	7 374	7 276	7 275	7 647	7 296	6	2	3	2	2	3	
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	191	5 042	3 708	5 320	5 579	5 560	10	2	2	2	2	2	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	30	1 262	1 103	1 212	1 404	1 327	14	4	4	4	4	4	
1623	Water, sewer, and utility lines ----	191	2 780	2 666	2 811	2 939	2 706	10	4	4	4	5	4	
1629	Heavy construction, n.e.c. -----	264	4 079	3 285	3 883	3 903	5 243	11	2	3	2	3	2	
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	1 318	10 521	10 047	10 477	10 857	10 702	3	2	2	2	2	2	
1721	Painting and paper hanging -----	405	2 166	2 023	2 174	2 370	2 098	3	4	5	5	5	6	
1731	Electrical work -----	779	7 543	7 058	7 342	7 591	8 184	3	2	2	2	3	2	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	468	2 899	2 717	2 861	3 173	2 847	5	5	5	5	5	6	
1742	Plastering, drywall, and insulation work -----	285	3 040	2 912	3 058	3 150	3 040	8	6	6	6	6	7	
1743	Terrazzo, tile, marble, and mosaic work -----	92	401	405	402	398	400	13	9	10	10	10	10	
175	Carpentry and floor work:													
1751	Carpentry -----	485	1 597	1 482	1 750	1 680	1 477	6	10	9	12	11	10	
1752	Floor laying and other floor work --	146	520	514	538	541	486	11	16	15	15	17	17	
1761	Roofing, siding, and sheet metal work -----	549	3 383	3 277	3 316	3 570	3 367	5	4	4	4	5	4	
1771	Concrete work -----	386	2 240	1 887	2 280	2 370	2 423	7	9	9	8	9	9	
1781	Water well drilling -----	46	204	201	200	213	201	12	11	12	10	9	10	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	45	811	790	798	819	838	9	3	4	4	3	4	
1793	Glass and glazing work -----	65	317	312	295	302	361	7	7	7	8	8	7	
1794	Excavation work -----	247	1 006	913	1 071	1 044	997	11	10	10	10	10	10	
1795	Wrecking and demolition work ----	12	80	74	73	85	88	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1796	Installing building equipment, n.e.c. -----	98	1 664	1 373	1 421	1 922	1 939	12	3	3	3	3	4	
1799	Special trade contractors, n.e.c. ---	449	2 133	2 041	2 282	2 212	1 996	8	9	10	9	9	9	

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 -----	9.7	21.9	134.8	.208	.337	.292	.242	.013
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	16.2	183.9	.121	.425	.297	.020	.005
1522	Other residential buildings -----	10.7	18.3	190.2	.127	.292	.451	*.027	.007
1531	Operative builders -----	4.0	24.4	651.6	.077	.382	.360	(S)	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	23.2	23.8	161.9	.185	.269	.464	.039	.011
1542	Nonresidential buildings, n.e.c. -----	19.1	23.9	281.6	.119	.186	.640	.021	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	31.2	24.4	157.9	.183	.409	.220	.194	.022
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	48.5	25.0	161.7	.175	.359	.329	.137	.012
1623	Water, sewer, and utility lines -----	17.1	21.0	106.7	.232	.376	.129	.083	.017
1629	Heavy construction, n.e.c. -----	19.0	32.3	146.1	.273	.304	.242	.145	.038
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	10.3	22.2	103.6	.277	.433	.085	.581	.014
1721	Painting and paper hanging -----	6.4	18.0	57.5	.375	.278	.060	.651	.016
1731	Electrical work -----	12.4	24.4	92.2	.340	.411	.033	.533	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.9	16.0	45.0	.395	.340	(D)	.751	.013
1742	Plastering, drywall, and insulation work -----	13.1	19.0	81.4	.287	.426	.078	.764	.010
1743	Terrazzo, tile, marble, and mosaic work -----	5.9	16.4	71.6	.309	.497	(S)	.914	.017
175	Carpentry and floor work:								
1751	Carpentry -----	4.0	15.9	80.2	.240	.353	.144	(S)	.011
1752	Floor laying and other floor work -----	4.7	17.6	130.9	.176	.450	.113	.673	*.023
1761	Roofing, siding, and sheet metal work -----	7.9	19.1	89.0	.277	.436	.085	.420	.011
1771	Concrete work -----	7.2	17.3	84.6	.251	.364	.112	.462	.016
1781	Water well drilling -----	5.7	17.9	101.5	.228	.409	.018	.065	.012
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	21.6	23.3	71.3	.391	.338	.071	.681	.023
1793	Glass and glazing work -----	7.1	21.1	96.6	.321	.612	.009	.687	.020
1794	Excavation work -----	4.8	16.4	75.5	.258	.290	.070	.567	.038
1795	Wrecking and demolition work -----	8.2	14.7	67.1	.267	.200	(D)	.177	.045
1796	Installing building equipment, n.e.c. -----	21.8	23.1	92.2	.321	.321	.110	.180	.019
1799	Special trade contractors, n.e.c. -----	6.3	18.0	80.7	.299	.330	.118	.299	.015

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
KNOXVILLE, TN MSA												
15,16,17	Construction industries	1 376	15 294	357 428	1 647 147	1 124 913	626 588	516 938	522 234	26 935	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	294	956	15 745	162 995	120 249	58 404	62 641	42 746	880	12	17
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	(S)	(S)
1531	Operative builders	46	262	5 906	65 627	46 254	22 765	25 245	19 372	543	16	21
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	53	632	13 551	63 980	36 597	16 317	20 349	27 384	267	23	16
1542	Nonresidential buildings, n.e.c.	69	2 096	48 626	415 131	147 466	81 281	71 618	267 665	1 174	4	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	22	1 008	22 948	118 470	98 455	45 831	53 056	20 015	4 560	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1623	Water, sewer, and utility lines	30	(S)	(S)	(S)	(S)	(S)	15 406	(S)	732	(S)	(S)
1629	Heavy construction, n.e.c.	36	2 305	97 068	288 340	192 299	131 721	62 331	96 040	10 125	2	2
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	199	1 978	44 816	154 370	145 323	78 914	67 493	9 047	1 869	8	7
1721	Painting and paper hanging	77	553	9 884	28 507	27 665	18 997	8 677	842	1 997	12	17
1731	Electrical work	128	1 420	28 837	86 194	83 802	48 353	36 154	2 392	1 324	4	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	397	5 707	14 502	14 005	(S)	4 825	*497	(S)	21	24
1742	Plastering, drywall, and insulation work	37	606	12 756	50 352	45 065	19 162	26 834	*5 287	1 007	9	9
1743	Terrazzo, tile, marble, and mosaic work	8	69	1 218	3 071	3 026	1 984	1 588	45	(D)	(Z)	(Z)
175	Carpentry and floor work:											
1751	Carpentry	68	282	4 180	(S)	(S)	(S)	(S)	(S)	(S)	12	(S)
1752	Floor laying and other floor work	16	146	2 576	9 946	9 477	5 648	4 405	468	128	25	27
1761	Roofing, siding, and sheet metal work	56	389	7 049	29 895	26 399	12 912	13 497	*3 495	151	9	13
1771	Concrete work	41	*221	*3 143	*11 554	*10 778	*7 938	*2 839	*776	*103	41	41
1781	Water well drilling	7	26	*474	(D)	(D)	*1 163	(D)	—	(D)	39	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	6	142	2 851	(D)	(D)	3 619	2 654	(D)	126	(Z)	(D)
1793	Glass and glazing work	12	48	961	3 570	(D)	1 874	1 670	(D)	32	9	(D)
1794	Excavation work	32	198	3 278	9 658	8 674	6 329	3 300	984	(S)	19	21
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	—	(D)	(D)
1796	Installing building equipment, n.e.c.	7	277	4 657	13 139	(D)	8 299	5 724	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.	47	338	5 554	16 130	14 689	9 979	6 383	1 441	(D)	29	28
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

TN-14 TENNESSEE

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	MEMPHIS, TN-AR-MS MSA—Con.											
15,16,17	Construction industries—Con.											
	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
	NASHVILLE, TN MSA											
15,16,17	Construction industries-----	2 174	23 815	537 973	2 745 648	1 840 833	1 003 751	872 133	904 815	48 698	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	313	1 279	23 030	157 412	114 113	45 012	70 159	43 299	2 442	13	14
1522	Other residential buildings-----	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(D)	-	(S)	(D)
1531	Operative builders-----	106	505	13 228	164 304	103 993	52 067	54 869	60 311	808	10	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	34	(S)	(S)	128 873	65 463	(S)	23 419	63 409	(S)	(S)	5
1542	Nonresidential buildings, n.e.c.-----	145	3 365	82 424	790 050	240 012	123 388	122 760	550 038	8 808	4	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	58	1 804	47 745	300 747	220 177	114 888	119 587	80 571	14 836	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	9	410	10 610	62 412	48 112	19 481	28 705	14 300	(D)	9	7
1623	Water, sewer, and utility lines-----	59	1 154	24 835	110 985	102 128	52 721	49 454	8 857	5 115	9	12
1629	Heavy construction, n.e.c.-----	(S)	587	14 935	50 239	46 147	22 928	24 129	4 092	2 522	7	8
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	347	3 502	81 160	293 071	262 904	143 843	121 333	30 168	3 046	3	3
1721	Painting and paper hanging-----	109	709	15 168	38 034	36 124	26 355	9 783	(S)	623	5	4
1731	Electrical work-----	199	2 960	75 721	211 583	204 822	123 814	83 836	6 761	2 899	4	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	73	918	15 518	37 577	37 093	25 628	11 464	485	(S)	7	6
1742	Plastering, drywall, and insulation work-----	67	1 117	20 687	70 906	69 192	39 404	30 291	1 714	181	10	9
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	(S)	(S)	(S)	(S)	17 033	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floor work---	29	144	3 382	23 802	20 225	8 337	11 912	*3 577	*96	24	30
1761	Roofing, siding, and sheet metal work-----	(S)	990	19 343	72 311	65 965	32 087	33 889	6 346	813	8	9
1771	Concrete work-----	104	851	15 480	51 818	47 269	26 124	21 262	4 549	2 133	16	13

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
	NASHVILLE, TN MSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
1781	Water well drilling -----	5	20	305	(D)	(D)	799	(D)	—	(D)	(Z)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	16	254	6 560	13 849	13 561	11 601	3 299	289	*125	6	2
1793	Glass and glazing work -----	20	128	2 668	8 877	8 847	3 636	5 560	30	*78	12	13
1794	Excavation work -----	54	245	4 112	16 375	15 619	10 501	5 148	756	*527	25	28
1795	Wrecking and demolition work -----	3	45	723	(D)	(D)	1 912	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c. -	24	547	11 411	32 626	28 026	22 535	6 237	*4 601	261	11	13
1799	Special trade contractors, n.e.c. ----	110	885	16 991	66 091	52 548	31 801	21 583	13 543	1 257	17	19

Appendix A.

Explanation of Terms

Construction. Is composed of three broad categories:

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

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

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

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

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

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

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

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

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

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

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

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

Dollar value of business done comprises the following detail:

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

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

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

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

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

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

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

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

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

Costs for materials, components, and supplies include:

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

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

Excluded from this item are:

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

Costs for construction work subcontracted out to others include:

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

Excluded from this item are:

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

Costs for selected power, fuels, and lubricants include:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Building construction:

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

- **Other commercial buildings, such as stores, restaurants, and automobile service stations.** Includes all buildings which are intended for use primarily in the retail and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
 - **Industrial buildings.** Includes all industrial buildings and plants which are used to house production and assembly activities. Note that industrial parks should be classified under its primary usage such as warehouses, office space, commercial or industrial type buildings. Heavy industrial facilities such as blast furnaces, petroleum refineries, and chemical complexes are not included in this category but are reported under nonbuilding construction.
 - **Warehouses.** Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
 - **Religious buildings.** Includes all buildings which are intended for religious services or functions such as churches, synagogues, convents, monasteries, and seminaries.
 - **Educational buildings.** Includes all buildings which are used directly in administrative and instructional activities such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing or commercial establishment, are also included.
 - **Hospitals and institutional buildings.** Includes medical office buildings and all other buildings which are intended to provide hospital and institutional care such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
 - **Farm buildings, nonresidential.** Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
 - **Amusement, social, and recreational buildings.** Includes buildings which are used primarily for entertainment, social, and recreational activities such as sports arenas, convention centers, theaters, music halls, golf and country club buildings, skating rinks, fitness centers, bowling alleys, and indoor swimming pools.
 - **Other nonresidential buildings.** Includes nonresidential buildings which are not classified elsewhere such as fire stations, post offices, bus and air passenger terminals and hangars, and prisons.
- Nonbuilding construction:**
- **Highways, streets, and related work such as installation of guardrails, highway signs, and lighting.** Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control, and lighting. Also includes earthwork protective structures when used in connection with road improvements.
 - **Outdoor swimming pools.** Includes wading pools and reflecting pools.
 - **Airport runways and related work.** Includes runways, taxiways, aprons, and related work.
 - **Private driveways and parking areas.** Includes all nonstructural parking areas and private driveways of all surface types.
 - **Fencing.** Includes all types of fencing.
 - **Recreational facilities.** Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
 - **Tunnels.** Includes highway, pedestrian, railroad, and water distribution tunnels.
 - **Bridges and elevated highways.** Includes viaducts and overpasses, roads, highways, railroads, and causeways built on structural supports.
 - **Dam and reservoir construction.** Includes hydroelectric, water supply, and flood control dams and reservoirs.
 - **Marine construction.** Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
 - **Harbor and port facilities.** Includes docks, piers, and wharves.
 - **Conservation and development construction.** Includes land reclamation, irrigation projects, drainage canals, levees, jetties, breakwaters, and flood control projects.
 - **Power and communication transmission lines, towers, and related facilities.** Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, and electric light and power facilities.
 - **Sewers, sewerlines, septic tanks, and related facilities.** Includes sanitary and storm sewers, pumping stations, septic systems, and related facilities.
 - **Water mains and related facilities.** Includes water supply systems, pumping stations, and related facilities.
 - **Pipeline construction other than sewer or waterlines.** Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
 - **Urban mass transit.** Includes subways, trollies, street cars, and light rail systems.
 - **Railroad construction.** Includes the construction of railroad beds, tracks, freight yards, and signal towers for systems other than urban mass transit.
 - **Blast furnaces, petroleum refineries, chemical complexes, etc.** Includes coke ovens and mining appurtenances such as tipples and washeries.

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

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

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

Appendix C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Appendix D. Metropolitan Areas

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

Abilene, TX MSA

Taylor County, TX

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

Albany, GA MSA

Dougherty County, GA
Lee County, GA

Albany–Schenectady–Troy, NY MSA

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

Albuquerque, NM MSA

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

Alexandria, LA MSA

Rapides Parish, LA

Allentown–Bethlehem–Easton, PA MSA

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

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX
Randall County, TX

Anchorage, AK MSA

Anchorage Borough, AK

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

Anniston, AL MSA

Calhoun County, AL

Appleton–Oshkosh–Neenah, WI MSA

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

Asheville, NC MSA

Buncombe County, NC
Madison County, NC

Athens, GA MSA

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

Atlanta, GA MSA

Barrow County, GA
Bartow County, GA

Atlanta, GA MSA—Con.

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

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

Augusta–Aiken, GA–SC MSA

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

Austin–San Marcos, TX MSA

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

Bakersfield, CA MSA

Kern County, CA

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

Bangor, ME MSA

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

Bangor, ME MSA—Con.

Waldo County, ME (part)
Winterport town, ME

Barnstable–Yarmouth, MA MSA

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

Baton Rouge, LA MSA

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

Beaumont–Port Arthur, TX MSA

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

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

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

Billings, MT MSA

Yellowstone County, MT

Biloxi–Gulfport–Pascagoula, MS MSA

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

Binghamton, NY MSA

Broome County, NY
Tioga County, NY

Birmingham, AL MSA

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

Bismarck, ND MSA

Burleigh County, ND
Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington–Normal, IL MSA
McLean County, IL

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Burlington, VT MSA—Con.

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

Canton–Massillon, OH MSA

Carroll County, OH
 Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign–Urbana, IL MSA

Champaign County, IL

Charleston–North Charleston, SC MSA

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

Charleston, WV MSA

Kanawha County, WV
 Putnam County, WV

Charlotte–Gastonia–Rock Hill, NC–SC MSA

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

Charlottesville, VA MSA

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

Chattanooga, TN–GA MSA

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

Cheyenne, WY MSA

Laramie County, WY

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

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

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

Kenosha, WI PMSA
Kenosha County, WI

Chico-Paradise, CA MSA

Butte County, CA

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

Cincinnati-Hamilton, OH-KY-IN CMSA

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

Clarksville-Hopkinsville, TN-KY MSA

Christian County, KY
Montgomery County, TN

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

Cleveland-Akron, OH CMSA

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

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
Richland County, SC

Columbus, GA-AL MSA

Russell County, AL
Chattahoochee County, GA
Harris County, GA
Muscookee County, GA

Columbus, OH MSA

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

Corpus Christi, TX MSA

Nueces County, TX
San Patricio County, TX

Cumberland, MD-WV MSA

Allegany County, MD
Mineral County, WV

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

Dallas-Fort Worth, TX CMSA

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

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

Danville, VA MSA

Pittsylvania County, VA
Danville city, VA

Davenport-Moline-Rock Island, IA-IL MSA

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

Dayton-Springfield, OH MSA

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

Daytona Beach, FL MSA

Flagler County, FL
Volusia County, FL

Decatur, AL MSA

Lawrence County, AL
Morgan County, AL

Decatur, IL MSA

Macon County, IL

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

Denver-Boulder-Greeley, CO CMSA

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

Des Moines, IA MSA

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

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

Detroit-Ann Arbor-Flint, MI CMSA

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

Detroit-Ann Arbor-Flint, MI CMSA—Con.

Flint, MI PMSA
Genesee County, MI

Dothan, AL MSA

Dale County, AL
Houston County, AL

Dover, DE MSA

Kent County, DE

Dubuque, IA MSA

Dubuque County, IA

Duluth-Superior, MN-WI MSA

St. Louis County, MN
Douglas County, WI

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

Eau Claire, WI MSA

Chippewa County, WI
Eau Claire County, WI

El Paso, TX MSA

El Paso County, TX

Elkhart-Goshen, IN MSA

Elkhart County, IN

Elmira, NY MSA

Chemung County, NY

Enid, OK MSA

Garfield County, OK

Erie, PA MSA

Erie County, PA

Eugene-Springfield, OR MSA

Lane County, OR

Evansville-Henderson, IN-KY MSA

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

Fargo-Moorhead, ND-MN MSA

Clay County, MN
Cass County, ND

Fayetteville, NC MSA

Cumberland County, NC

Fayetteville-Springdale-Rogers, AR MSA

Benton County, AR
Washington County, AR

**Fitchburg-Leominster, MA PMSA—see
Boston-Worcester-Lawrence, MA-NH-
ME-CT CMSA**

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

Florence, AL MSA

Colbert County, AL
Lauderdale County, AL

Florence, SC MSA

Florence County, SC

Fort Collins-Loveland, CO MSA

Larimer County, CO

**Fort Lauderdale, FL PMSA—see Miami-Fort
Lauderdale, FL CMSA**

Fort Myers-Cape Coral, FL MSA

Lee County, FL

Fort Pierce-Port St. Lucie, FL MSA

Martin County, FL
St. Lucie County, FL

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

Fort Walton Beach, FL MSA
Okaloosa County, FL

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

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

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

Gadsden, AL MSA
Etowah County, AL

Gainesville, FL MSA
Alachua County, FL

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

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

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

Goldsboro, NC MSA
Wayne County, NC

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

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

Great Falls, MT MSA
Cascade County, MT

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

Green Bay, WI MSA
Brown County, WI

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

Greenville, NC MSA
Pitt County, NC

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

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

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

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

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

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

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

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

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

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

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

Honolulu, HI MSA
Honolulu County, HI

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

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

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

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

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

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

Iowa City, IA MSA
Johnson County, IA

Jackson, MI MSA
Jackson County, MI

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

Jackson, TN MSA
Madison County, TN

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

Jacksonville, NC MSA
Onslow County, NC

Jamestown, NY MSA
Chautauqua County, NY

Janesville—Beloit, WI MSA
Rock County, WI

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

Johnson City–Kingsport–Bristol, TN–VA MSA

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

Johnstown, PA MSA

Cambria County, PA
Somerset County, PA

Joplin, MO MSA

Jasper County, MO
Newton County, MO

Kalamazoo–Battle Creek, MI MSA

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

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

Kansas City, MO–KS MSA

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

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

Killeen–Temple, TX MSA

Bell County, TX
Coryell County, TX

Knoxville, TN MSA

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

Kokomo, IN MSA

Howard County, IN
Tipton County, IN

La Crosse, WI–MN MSA

Houston County, MN
La Crosse County, WI

Lafayette, LA MSA

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

Lafayette, IN MSA

Clinton County, IN
Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lakeland–Winter Haven, FL MSA

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing–East Lansing, MI MSA

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

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV–AZ MSA

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

Lawrence, KS MSA

Douglas County, KS

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

Lawton, OK MSA

Comanche County, OK

Lewiston–Auburn, ME MSA

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

Lexington, KY MSA

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

Lima, OH MSA

Allen County, OH
Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock–North Little Rock, AR MSA

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

Longview–Marshall, TX MSA

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

Los Angeles–Riverside–Orange County, CA CMSA

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

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

Louisville, KY–IN MSA

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

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

Lubbock, TX MSA

Lubbock County, TX

Lynchburg, VA MSA

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

Macon, GA MSA

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

Madison, WI MSA

Dane County, WI

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

Mansfield, OH MSA

Crawford County, OH
Richland County, OH

McAllen–Edinburg–Mission, TX MSA

Hidalgo County, TX

Medford–Ashland, OR MSA

Jackson County, OR

Melbourne–Titusville–Palm Bay, FL MSA

Brevard County, FL

Memphis, TN–AR–MS MSA

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

Merced, CA MSA

Merced County, CA

Miami–Fort Lauderdale, FL CMSA

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

Miami, FL PMSA—see Miami–Fort Lauderdale, FL CMSA

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

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

Milwaukee–Racine, WI CMSA

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

Milwaukee-Racine, WI CMSA—Con.

Racine, WI PMSA
Racine County, WI

Minneapolis-St. Paul, MN-WI MSA

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

Mobile, AL MSA

Baldwin County, AL
Mobile County, AL

Modesto, CA MSA

Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA

Monroe, LA MSA

Ouachita Parish, LA

Montgomery, AL MSA

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

Muncie, IN MSA

Delaware County, IN

Myrtle Beach, SC MSA

Horry County, SC

Naples, FL MSA

Collier County, FL

Nashua, NH PMSA—see Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA

Nashville, TN MSA

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

Nassau-Suffolk, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA

New Bedford, MA PMSA—see Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA

New Haven-Meriden, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA

New London-Norwich, CT-RI MSA

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

New London-Norwich, CT-RI MSA—Con.

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

New Orleans, LA MSA

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

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

New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA

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

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

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

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

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

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

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

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

Ocala, FL MSA

Marion County, FL

Odessa–Midland, TX MSA

Ector County, TX
 Midland County, TX

Oklahoma City, OK MSA

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

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

Omaha, NE–IA MSA

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

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

Orlando, FL MSA

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

Owensboro, KY MSA

Daviess County, KY

Panama City, FL MSA

Bay County, FL

Parkersburg–Marietta, WV–OH MSA

Washington County, OH
 Wood County, WV

Pensacola, FL MSA

Escambia County, FL
 Santa Rosa County, FL

Peoria–Pekin, IL MSA

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

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

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

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

Philadelphia, PA–NJ PMSA

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

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

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

Phoenix–Mesa, AZ MSA

Maricopa County, AZ
 Pinal County, AZ

Pine Bluff, AR MSA

Jefferson County, AR

Pittsburgh, PA MSA

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

Pittsfield, MA MSA

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

Portland, ME MSA

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

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

Portland–Salem, OR–WA CMSA

Portland–Vancouver, OR–WA PMSA

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

Salem, OR PMSA

Marion County, OR
 Polk County, OR

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

Providence–Fall River–Warwick, RI–MA MSA

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

Provo–Orem, UT MSA

Utah County, UT

Pueblo, CO MSA

Pueblo County, CO

Punta Gorda, FL MSA

Charlotte County, FL

- Racine, WI PMSA—see Milwaukee–Racine, WI CMSA**
- Raleigh–Durham–Chapel Hill, NC MSA**
Chatham County, NC
Durham County, NC
Franklin County, NC
Johnston County, NC
Orange County, NC
Wake County, NC
- Rapid City, SD MSA**
Pennington County, SD
- Reading, PA MSA**
Berks County, PA
- Redding, CA MSA**
Shasta County, CA
- Reno, NV MSA**
Washoe County, NV
- Richland–Kennewick–Pasco, WA MSA**
Benton County, WA
Franklin County, WA
- Richmond–Petersburg, VA MSA**
Charles City County, VA
Chesterfield County, VA
Dinwiddie County, VA
Goochland County, VA
Hanover County, VA
Henrico County, VA
New Kent County, VA
Powhatan County, VA
Prince George County, VA
Colonial Heights city, VA
Hopewell city, VA
Petersburg city, VA
Richmond city, VA
- Riverside–San Bernardino, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**
- Roanoke, VA MSA**
Botetourt County, VA
Roanoke County, VA
Roanoke city, VA
Salem city, VA
- Rochester, MN MSA**
Olmsted County, MN
- Rochester, NY MSA**
Genesee County, NY
Livingston County, NY
Monroe County, NY
Ontario County, NY
Orleans County, NY
Wayne County, NY
- Rockford, IL MSA**
Boone County, IL
Ogle County, IL
Winnebago County, IL
- Rocky Mount, NC MSA**
Edgecombe County, NC
Nash County, NC
- Sacramento, CA PMSA—see Sacramento–Yolo, CA CMSA**
- Sacramento–Yolo, CA CMSA**
Sacramento, CA PMSA
El Dorado County, CA
Placer County, CA
Sacramento County, CA
Yolo, CA PMSA
Yolo County, CA
- Saginaw–Bay City–Midland, MI MSA**
Bay County, MI
Midland County, MI
Saginaw County, MI
- St. Cloud, MN MSA**
Benton County, MN
Stearns County, MN
- St. Joseph, MO MSA**
Andrew County, MO
Buchanan County, MO
- St. Louis, MO–IL MSA**
Clinton County, IL
Jersey County, IL
Madison County, IL
Monroe County, IL
St. Clair County, IL
Franklin County, MO
Jefferson County, MO
Lincoln County, MO
St. Charles County, MO
St. Louis County, MO
Warren County, MO
St. Louis city, MO
- Salem, OR PMSA—see Portland–Salem, OR–WA CMSA**
- Salinas, CA MSA**
Monterey County, CA
- Salt Lake City–Ogden, UT MSA**
Davis County, UT
Salt Lake County, UT
Weber County, UT
- San Angelo, TX MSA**
Tom Green County, TX
- San Antonio, TX MSA**
Bexar County, TX
Comal County, TX
Guadalupe County, TX
Wilson County, TX
- San Diego, CA MSA**
San Diego County, CA
- San Francisco, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- San Francisco–Oakland–San Jose, CA CMSA**
Oakland, CA PMSA
Alameda County, CA
Contra Costa County, CA
San Francisco, CA PMSA
Marin County, CA
San Francisco County, CA
San Mateo County, CA
San Jose, CA PMSA
Santa Clara County, CA
Santa Cruz–Watsonville, CA PMSA
Santa Cruz County, CA
Santa Rosa, CA PMSA
Sonoma County, CA
Vallejo–Fairfield–Napa, CA PMSA
Napa County, CA
Solano County, CA
- San Jose, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- San Luis Obispo–Atascadero–Paso Robles, CA MSA**
San Luis Obispo County, CA
- Santa Barbara–Santa Maria–Lompoc, CA MSA**
Santa Barbara County, CA
- Santa Cruz–Watsonville, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- Santa Fe, NM MSA**
Los Alamos County, NM
Santa Fe County, NM
- Santa Rosa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- Sarasota–Bradenton, FL MSA**
Manatee County, FL
Sarasota County, FL
- Savannah, GA MSA**
Bryan County, GA
Chatham County, GA
Effingham County, GA
- Scranton–Wilkes-Barre–Hazleton, PA MSA**
Columbia County, PA
Lackawanna County, PA
Luzerne County, PA
Wyoming County, PA
- Seattle–Bellevue–Everett, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA**
- Seattle–Tacoma–Bremerton, WA CMSA**
Bremerton, WA PMSA
Kitsap County, WA
Olympia, WA PMSA
Thurston County, WA
Seattle–Bellevue–Everett, WA PMSA
Island County, WA
King County, WA
Snohomish County, WA
Tacoma, WA PMSA
Pierce County, WA
- Sharon, PA MSA**
Mercer County, PA
- Sheboygan, WI MSA**
Sheboygan County, WI
- Sherman–Denison, TX MSA**
Grayson County, TX
- Shreveport–Bossier City, LA MSA**
Bossier Parish, LA
Caddo Parish, LA
Webster Parish, LA
- Sioux City, IA–NE MSA**
Woodbury County, IA
Dakota County, NE
- Sioux Falls, SD MSA**
Lincoln County, SD
Minnehaha County, SD
- South Bend, IN MSA**
St. Joseph County, IN
- Spokane, WA MSA**
Spokane County, WA
- Springfield, IL MSA**
Menard County, IL
Sangamon County, IL
- Springfield, MO MSA**
Christian County, MO
Greene County, MO
Webster County, MO
- Springfield, MA MSA**
Franklin County, MA (part)
Sunderland town, MA
Hampden County, MA (part)
Agawam city, MA
Chicopee city, MA

- Springfield, MA MSA—Con.**
 Hampden County, MA (part)—Con.
 East Longmeadow town, MA
 Hampden town, MA
 Holyoke city, MA
 Longmeadow town, MA
 Ludlow town, MA
 Monson town, MA
 Montgomery town, MA
 Palmer town, MA
 Russell town, MA
 Southwick town, MA
 Springfield city, MA
 Westfield city, MA
 West Springfield town, MA
 Wilbraham town, MA
 Hampshire County, MA (part)
 Amherst town, MA
 Belchertown town, MA
 Easthampton town, MA
 Granby town, MA
 Hadley town, MA
 Hatfield town, MA
 Huntington town, MA
 Northampton city, MA
 Southampton town, MA
 South Hadley town, MA
 Ware town, MA
 Williamsburg town, MA
- Stamford–Norwalk, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- State College, PA MSA**
 Centre County, PA
- Steubenville–Weirton, OH–WV MSA**
 Jefferson County, OH
 Brooke County, WV
 Hancock County, WV
- Stockton–Lodi, CA MSA**
 San Joaquin County, CA
- Sumter, SC MSA**
 Sumter County, SC
- Syracuse, NY MSA**
 Cayuga County, NY
 Madison County, NY
 Onondaga County, NY
 Oswego County, NY
- Tacoma, WA PMSA—see Seattle–Tacoma–Bremerton, WA CMSA**
- Tallahassee, FL MSA**
 Gadsden County, FL
 Leon County, FL
- Tampa–St. Petersburg–Clearwater, FL MSA**
 Hernando County, FL
 Hillsborough County, FL
 Pasco County, FL
 Pinellas County, FL
- Terre Haute, IN MSA**
 Clay County, IN
 Vermillion County, IN
 Vigo County, IN
- Texarkana, TX–Texarkana, AR MSA**
 Miller County, AR
 Bowie County, TX
- Toledo, OH MSA**
 Fulton County, OH
 Lucas County, OH
 Wood County, OH
- Topeka, KS MSA**
 Shawnee County, KS
- Trenton, NJ PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- Tucson, AZ MSA**
 Pima County, AZ
- Tulsa, OK MSA**
 Creek County, OK
 Osage County, OK
 Rogers County, OK
 Tulsa County, OK
 Wagoner County, OK
- Tuscaloosa, AL MSA**
 Tuscaloosa County, AL
- Tyler, TX MSA**
 Smith County, TX
- Utica–Rome, NY MSA**
 Herkimer County, NY
 Oneida County, NY
- Vallejo–Fairfield–Napa, CA PMSA—see San Francisco–Oakland–San Jose, CA CMSA**
- Ventura, CA PMSA—see Los Angeles–Riverside–Orange County, CA CMSA**
- Victoria, TX MSA**
 Victoria County, TX
- Vineland–Millville–Bridgeton, NJ PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**
- Visalia–Tulare–Porterville, CA MSA**
 Tulare County, CA
- Waco, TX MSA**
 McLennan County, TX
- Washington, DC–MD–VA–WV PMSA—see Washington–Baltimore, DC–MD–VA–WV CMSA**
- Washington–Baltimore, DC–MD–VA–WV CMSA**
 Baltimore, MD PMSA
 Anne Arundel County, MD
 Baltimore County, MD
 Carroll County, MD
 Harford County, MD
 Howard County, MD
 Queen Anne’s County, MD
 Baltimore city, MD
 Hagerstown, MD PMSA
 Washington County, MD
 Washington, DC–MD–VA–WV PMSA
 District of Columbia, DC
 Calvert County, MD
 Charles County, MD
 Frederick County, MD
 Montgomery County, MD
 Prince George’s County, MD
 Arlington County, VA
 Clarke County, VA
 Culpeper County, VA
 Fairfax County, VA
- Washington–Baltimore, DC–MD–VA–WV CMSA—Con.**
 Washington, DC–MD–VA–WV PMSA—Con.
 Fauquier County, VA
 King George County, VA
 Loudoun County, VA
 Prince William County, VA
 Spotsylvania County, VA
 Stafford County, VA
 Warren County, VA
 Alexandria city, VA
 Fairfax city, VA
 Falls Church city, VA
 Fredericksburg city, VA
 Manassas city, VA
 Manassas Park city, VA
 Berkeley County, WV
 Jefferson County, WV
- Waterbury, CT PMSA—see New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**
- Waterloo–Cedar Falls, IA MSA**
 Black Hawk County, IA
- Wausau, WI MSA**
 Marathon County, WI
- West Palm Beach–Boca Raton, FL MSA**
 Palm Beach County, FL
- Wheeling, WV–OH MSA**
 Belmont County, OH
 Marshall County, WV
 Ohio County, WV
- Wichita, KS MSA**
 Butler County, KS
 Harvey County, KS
 Sedgwick County, KS
- Wichita Falls, TX MSA**
 Archer County, TX
 Wichita County, TX
- Williamsport, PA MSA**
 Lycoming County, PA
- Wilmington–Newark, DE–MD PMSA—see Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD CMSA**
- Wilmington, NC MSA**
 Brunswick County, NC
 New Hanover County, NC
- Worcester, MA–CT PMSA—see Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**
- Yakima, WA MSA**
 Yakima County, WA
- Yolo, CA PMSA—see Sacramento–Yolo, CA CMSA**
- York, PA MSA**
 York County, PA
- Youngstown–Warren, OH MSA**
 Columbiana County, OH
 Mahoning County, OH
 Trumbull County, OH
- Yuba City, CA MSA**
 Sutter County, CA
 Yuba County, CA
- Yuma, AZ MSA**
 Yuma County, AZ

Publication Program

1992 CENSUS OF CONSTRUCTION INDUSTRIES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(Available November 1995) [P] [C]

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

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

OTHER ECONOMIC CENSUS REPORTS

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

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

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

HOW TO ORDER DATA PRODUCTS

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