

1992

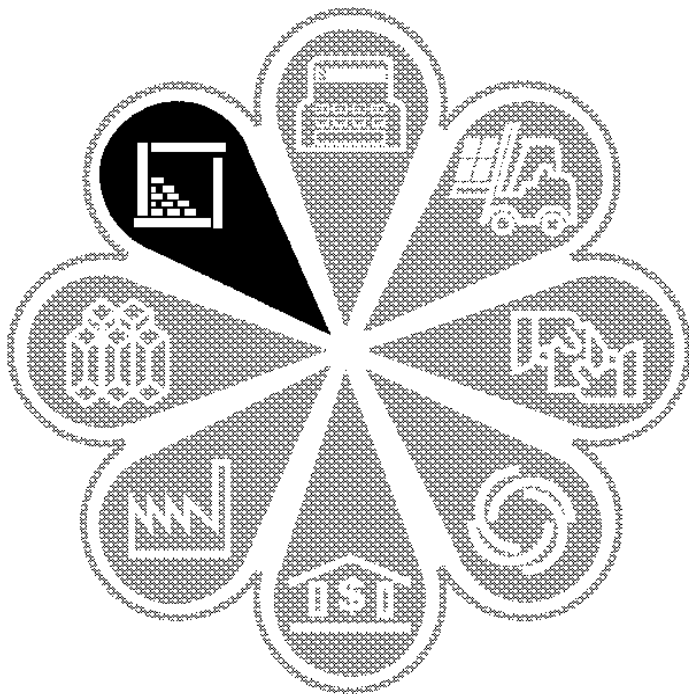
Census of Construction Industries

CC92-A-3

GEOGRAPHIC AREA SERIES

East North Central States

Illinois, Indiana, Michigan, Ohio, Wisconsin



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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Illinois

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Illinois. 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 77,399 establishments in this State operating in the construction industries. These establishments accounted for \$29.0 billion in total dollar value of business done.

Most of the 77,399 construction establishments were small. Of the total, 52,820 were nonemployers, and over half of the employer establishments had less than 5 employees. The 9,594 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 84 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$27.3 billion in total dollar value of business done. Of this amount, \$26.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$6.8 billion, leaving net value of construction work of \$19.9 billion. In addition, these establishments paid out \$8.6 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 \$12.6 billion. (See Introduction and appendixes for explanation of terms.)

There were 24,579 establishments with total employment averaging 211,951 during the year. Total payroll for 1992 was \$6.5 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 52,820 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.7 billion. Most of these establishments, about 82 percent, were special trade contractors.

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

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

1992 
1987 

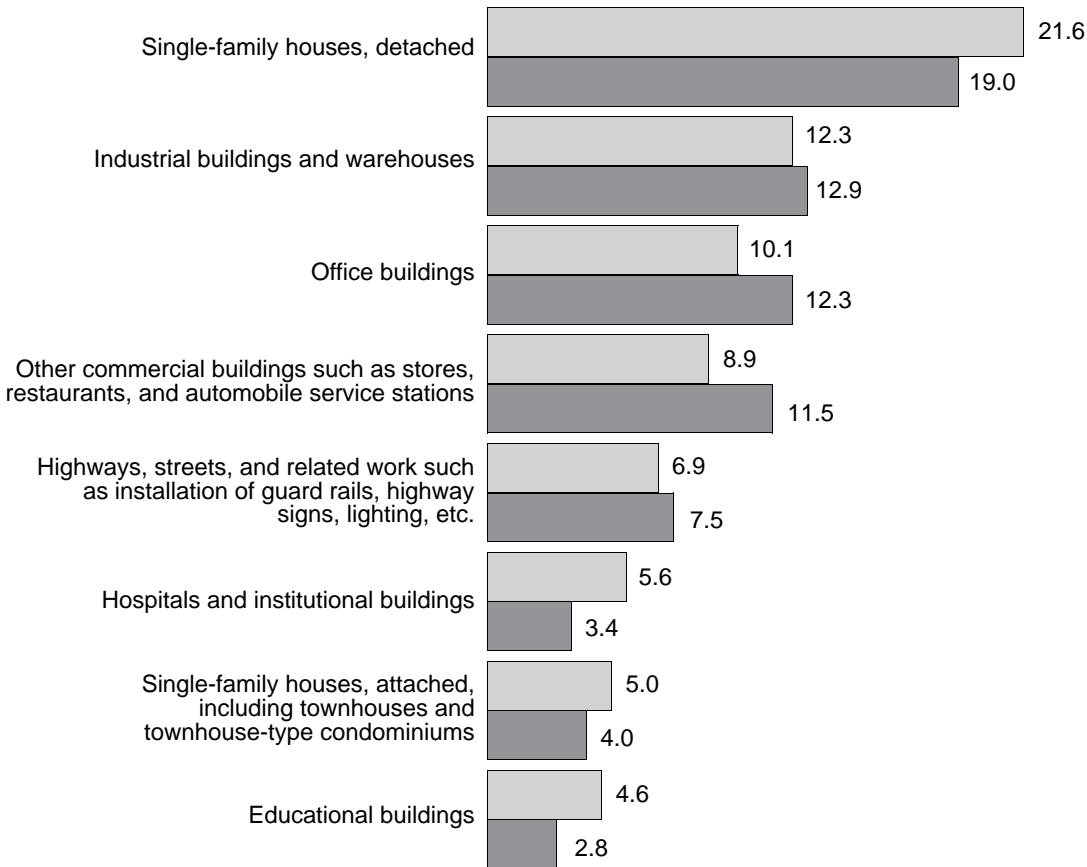




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

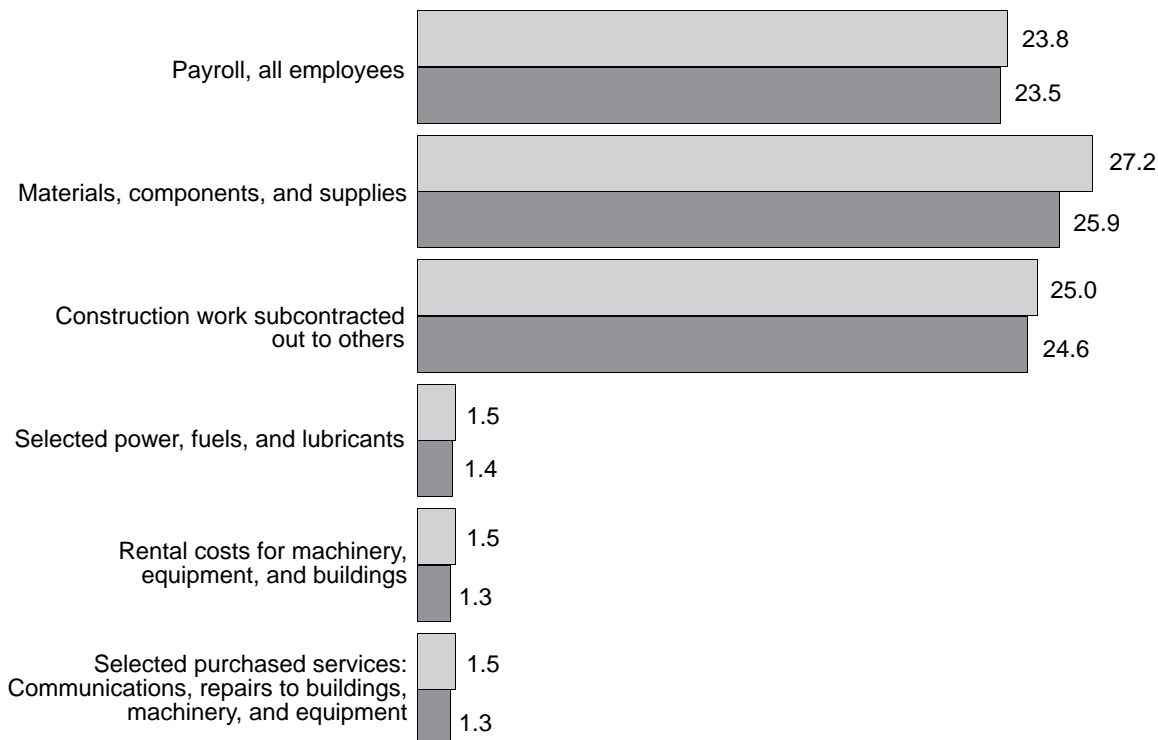


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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		
1992														
15, 16, 17	Construction industries -----	77 399	59 323	211 951	28 955 646	52 820	50 998	1 679 376	24 579	8 325	211 951	27 276 270	1	1
15	Building construction—General contractors and operative builders ----	15 900	10 363	43 831	10 763 405	9 023	8 007	663 637	6 877	2 356	43 831	10 099 768	1	1
16	Heavy construction other than building construction—contractors -----	1 950	1 025	29 320	4 602 949	619	597	23 771	1 331	428	29 320	4 579 178	1	1
17	Special trade contractors -----	59 549	47 935	138 800	13 589 291	43 178	42 394	991 968	16 371	5 541	138 800	12 597 323	1	1
1711	Plumbing, heating, and air-conditioning --	7 100	4 403	30 869	3 258 175	3 566	3 419	115 090	3 534	984	30 869	3 143 085	1	1
1731	Electrical work -----	5 725	3 709	23 636	2 428 111	3 389	3 217	76 760	2 336	492	23 636	2 351 351	1	1
1987														
15, 16, 17	Construction industries ² -----	71 913	54 989	209 154	26 212 664	51 341	50 420	2 918 968	20 572	4 569	209 154	23 293 696	1	1
15	Building construction—General contractors and operative builders ----	15 039	9 924	47 253	9 739 629	9 655	8 829	941 197	5 384	1 095	47 253	8 798 432	2	1
16	Heavy construction other than building construction—contractors -----	1 786	773	25 413	3 540 334	549	561	163 378	1 237	212	25 413	3 376 956	1	1
17	Special trade contractors -----	53 727	43 094	135 402	12 262 824	40 063	39 848	1 313 196	13 664	3 246	135 402	10 949 628	1	1
1711	Plumbing, heating, and air-conditioning --	6 807	4 408	28 475	2 804 288	3 691	3 626	173 714	3 116	782	28 475	2 630 574	1	1
1731	Electrical work -----	4 840	3 159	23 636	2 093 251	2 959	2 895	103 719	1 881	264	23 636	1 989 532	1	1

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

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

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

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

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
			A	B	C	D			
15, 16, 17	Construction industries¹	24 579	211 951	161 927	6 492 735	4 648 497	26 738 481	19 913 253	12 631 107
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4 238	15 598	11 341	303 767	202 627	1 849 065	1 340 010	696 742
1522	Other residential buildings	305	1 595	1 103	43 240	25 236	280 342	148 621	87 584
1531	Operative builders	707	5 751	2 288	198 116	52 514	2 358 890	1 282 865	828 698
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	325	5 053	3 915	171 374	116 275	1 044 851	512 898	322 073
1542	Nonresidential buildings, n.e.c.	1 301	15 834	10 818	537 765	338 703	4 330 652	1 590 374	985 411
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	437	10 569	8 553	383 089	279 735	1 702 714	1 359 777	826 038
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	52	3 062	2 594	128 128	100 380	552 142	414 404	283 334
1623	Water, sewer, and utility lines	369	7 401	6 091	277 275	218 916	963 444	817 951	581 041
1629	Heavy construction, n.e.c.	472	8 288	6 760	284 321	216 804	1 201 560	950 168	732 228
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	3 534	30 869	22 344	989 520	713 580	3 106 163	2 817 296	1 726 829
1721	Painting and paper hanging	1 351	6 852	5 665	177 844	141 410	419 478	394 352	296 801
1731	Electrical work	2 336	23 636	18 390	845 207	638 089	2 333 980	2 218 217	1 412 000
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	1 092	8 125	7 084	215 899	174 700	569 691	548 952	362 927
1742	Plastering, drywall, and insulation work	662	8 131	6 777	248 242	193 627	667 049	615 737	407 341
1743	Terrazzo, tile, marble, and mosaic work	198	1 446	1 106	41 914	31 191	125 019	117 042	70 465
175	Carpentry and floor work:								
1751	Carpentry	1 863	11 230	9 110	286 304	220 239	866 503	795 754	469 694
1752	Floor laying and other floor work	489	2 907	2 144	80 313	55 636	274 873	257 151	147 985
1761	Roofing, siding, and sheet metal work	1 324	10 928	8 508	309 792	218 188	1 013 654	927 824	563 689
1771	Concrete work	1 437	11 330	9 312	298 103	227 333	1 053 357	963 041	545 554
1781	Water well drilling	96	582	409	15 665	10 839	49 335	48 790	30 036
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	149	2 620	2 121	80 685	60 669	226 170	207 463	143 382
1793	Glass and glazing work	173	1 483	921	44 112	26 635	136 430	132 329	75 579
1794	Excavation work	561	3 358	2 661	103 273	78 796	367 033	322 326	235 480
1795	Wrecking and demolition work	62	1 602	1 312	34 519	27 266	98 876	85 152	74 209
1796	Installing building equipment, n.e.c.	171	4 440	3 416	150 274	107 978	406 473	382 993	266 382
1799	Special trade contractors, n.e.c.	874	9 263	7 183	243 996	171 133	740 734	661 767	459 605

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				
7 819 936	6 825 228	7 811 901	403 411	409 781	3 857 656	209 154	22 575 712	10 927 571	1	1	2	15, 16, 17 15
686 090 62 246	509 055 131 721	82 812 2 516	15 723 1 708	21 665 2 195	129 481 23 893	13 514 2 489	1 392 960 355 627	549 697 94 023	3 9	4 8	14 31	152 1522
499 488	1 076 026	10 691	5 344	10 139	119 026	4 552	1 702 600	449 830	5	4	13	1531
221 356 721 049	531 953 2 740 278	106 068 162 430	8 818 26 806	7 878 30 693	82 338 240 501	4 808 21 890	776 477 4 172 725	203 067 1 257 118	4 2	4 2	24 16	154 1542
596 052	342 937	340 277	68 700	51 673	630 121	11 351	1 543 635	798 258	2	1	4	1611
132 490 249 059 301 375	137 738 145 494 251 392	30 552 162 380 168 529	11 897 26 007 41 926	11 344 36 430 33 595	132 178 336 948 433 413	2 393 5 715 5 954	257 699 657 443 826 500	111 479 353 466 483 592	3 3 2	8 2 1	3 8 7	162 1622 1623 1629
1 127 389	288 867	1 466 429	41 276	38 963	365 717	28 475	2 596 230	1 407 347	1	2	7	1711
99 412	25 126	190 895	5 520	5 855	55 891	7 999	428 609	322 896	4	3	17	1721
823 587	115 763	1 407 588	30 878	34 545	253 435	23 636	1 970 662	1 264 271	1	1	8	1731
(D) 212 219 48 879	20 739 51 312 7 977	389 881 564 434 87 274	8 023 8 582 1 773	8 414 6 667 868	76 348 56 086 10 513	7 644 9 706 1 278	483 462 648 472 98 316	313 376 426 387 60 057	3 3 5	3 3 4	13 13 18	174 1741 1742 1743
335 875 113 455	70 750 17 722	485 828 177 454	9 173 6 790	11 955 5 380	80 720 33 303	11 316 2 597	820 248 234 677	462 223 128 879	3 6	3 4	24 26	175 1751 1752
374 091	85 830	470 841	16 515	16 384	131 896	10 868	828 243	495 388	3	3	13	1761
423 284	90 316	625 068	20 563	30 013	241 224	12 599	1 118 152	610 875	3	3	10	1771
18 839	545	15 311	798	2 326	27 140	508	44 119	26 919	9	7	13	1781
69 586 65 091 94 668	18 707 4 102 44 708	188 771 100 313 211 205	7 858 3 101 12 017	3 059 1 067 16 119	33 401 12 662 179 785	2 839 1 385 3 287	240 950 107 588 332 725	160 461 60 702 235 522	5 6 4	4 4 4	19 20 12	1791 1793 1794
(D) 120 574 210 713	13 724 23 480 78 967	43 060 103 707 217 586	3 441 6 768 13 408	3 432 4 505 14 616	26 701 36 797 108 141	895 3 834 6 536	81 489 310 011 443 312	74 728 217 480 295 541	3 2 7	4 1 4	(Z) 13 6	1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

ILLINOIS IL-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	24 579	20 572	18 318	21 048	(Z)	1	1	2
Proprietors and working partners.....	8 325	4 569	6 238	11 835	2	3	3	3
All employees**	211 951	209 154	170 822	210 454	1	1	1	1
Construction workers:								
March.....	138 315	144 192	115 415	144 126	1	1	1	1
May.....	168 152	167 051	139 635	182 616	1	1	1	1
August.....	180 037	182 437	148 680	196 274	1	1	1	1
November.....	161 203	169 240	136 550	178 238	1	1	1	1
Average.....	161 927	165 730	136 888	175 461	1	1	1	1
Other employees:								
March.....	49 594	42 161	33 677	33 560	1	1	1	1
May.....	49 905	43 246	(NA)	(NA)	1	1	(NA)	(NA)
August.....	50 813	44 496	(NA)	(NA)	1	1	(NA)	(NA)
November.....	49 784	43 796	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	50 024	43 425	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	6 492 735	5 482 516	3 763 634	3 338 788	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	4 648 497	4 038 240	2 914 586	2 659 319	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	1 844 238	1 444 275	849 047	679 469	1	1	1	(Z)
First-quarter payroll, all employees	1 360 950	1 174 245	807 417	647 992	1	(Z)	(Z)	(Z)
Fringe benefits, all employees	1 874 894	1 375 032	667 616	677 138	1	(Z)	(Z)	(Z)
Legally required expenditures.....	1 100 881	868 077	516 116	347 828	1	(Z)	(Z)	(Z)
Voluntary expenditures.....	774 014	506 954	151 500	329 309	1	1	1	(Z)
Dollar value of business done	27 276 270	23 293 696	13 462 761	12 337 808	1	1	(Z)	(Z)
Value of construction work	26 738 481	22 575 712	13 109 617	11 866 811	1	1	(Z)	(Z)
Value of construction work subcontracted in from others	7 811 901	5 739 440	3 091 035	3 072 880	1	1	1	1
Other business receipts.....	537 790	438 908	297 953	470 997	2	2	1	3
Net value of construction†	19 913 253	16 844 405	10 119 024	9 125 152	1	(Z)	(Z)	(Z)
Value added††	12 631 107	10 927 571	6 568 407	5 631 498	1	1	(Z)	(Z)
Selected costs	14 645 164	12 087 049	6 839 163	6 511 678	1	1	(Z)	1
Materials, components, and supplies	7 416 479	6 022 245	3 580 983	3 587 580	1	1	1	1
Construction work subcontracted out to others	6 825 228	5 731 306	2 990 592	2 741 659	1	1	1	1
Selected power, fuels, and lubricants.....	403 456	333 497	267 587	182 438	1	1	1	1
Electricity.....	76 648	45 583	35 584	23 518	1	1	1	1
Natural gas.....	31 542	24 059	20 120	15 743	2	1	1	2
Gasoline and diesel fuel	273 513	241 251	195 522	120 245	1	1	1	1
On highway use.....	194 178	171 622	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use.....	79 336	69 629	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases.....	21 753	22 603	16 359	22 934	2	2	1	2
Rental cost for machinery, equipment, and buildings	403 411	303 602	167 658	142 012	2	1	1	1
For machinery and equipment	260 297	205 571	118 194	112 773	2	2	1	1
For buildings.....	143 114	98 030	49 464	29 239	2	2	2	1
Selected purchased services	422 474	312 334	210 024	199 444	2	1	1	5
Communication services	129 322	85 847	55 974	61 493	3	2	1	15
Repairs to buildings and other structures	29 611	19 834	11 545	10 754	13	3	3	5
Repairs to machinery and equipment	263 542	206 653	142 505	127 197	2	1	1	2
Ownership of construction projects:								
Value of construction work	26 738 481	22 575 712	13 109 617	11 866 811	1	1	(Z)	(Z)
Government owned	6 529 424	4 530 383	2 916 357	2 315 532	1	1	1	1
Federal	1 306 604	950 073	(NA)	(NA)	2	3	(NA)	(NA)
State and local	5 222 819	3 580 309	(NA)	(NA)	2	1	(NA)	(NA)
Privately owned	20 209 057	18 045 329	10 193 260	9 551 279	1	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	3 598 532	2 460 877	1	2
Capital expenditures, other than land	409 781	365 010	2	2
New	327 521	295 739	2	2
Used	82 259	69 271	7	4
Retirements and disposition of depreciable assets	150 656	107 297	3	6
End-of-year gross book value of depreciable assets	3 857 656	2 718 590	1	2
Depreciation charges during year	408 228	297 516	1	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	502 036	490 336	3	6
Capital expenditures, other than land	33 969	54 795	8	6
New buildings and other structures	26 991	45 417	7	7
Used buildings and other structures	6 978	9 378	28	10
Retirements and disposition of depreciable assets	14 558	18 604	13	18
End-of-year gross book value of depreciable assets	521 447	526 527	3	5
Depreciation charges during year	35 697	44 315	3	13
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	3 096 496	1 970 540	1	1
Capital expenditures, other than land	375 811	310 214	2	2
New machinery and equipment, including automobiles and trucks	300 530	250 321	3	2
New automobiles and trucks, intended primarily for highway use	110 994	117 205	5	3
Used machinery and equipment, including automobiles and trucks	75 281	59 893	7	4
Retirements and disposition of depreciable assets	136 098	88 692	3	6
End-of-year gross book value of depreciable assets	3 336 210	2 192 063	1	1
Depreciation charges during year	372 532	253 200	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 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	24 579	(Z)
Value of construction work	26 738 481	1
Establishments with inventories:		
Number	8 204	2
Value of construction work	12 493 647	1
Inventories ¹ :		
End of 1992, materials and supplies	416 752	7
End of 1991, materials and supplies	378 251	5
Establishments with no inventories:		
Number	8 922	2
Value of construction work	9 466 797	1
Establishments not reporting:		
Number	7 453	2
Value of construction work	4 778 036	1

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments	24 579	14 985	5 061	2 440	1 442	424	175	41	9	2
All employees**	211 951	29 221	32 557	32 422	42 142	28 508	25 094	13 824	8 184	(D)
Payroll, all employees	6 492 735	546 455	787 827	948 544	1 412 073	1 072 557	961 889	470 379	293 011	(D)
Dollar value of business done	27 276 270	2 923 257	3 437 052	3 813 323	5 412 842	3 903 604	4 144 592	2 090 543	1 551 057	(D)
Value of construction work	26 738 481	2 879 791	3 368 094	3 748 979	5 325 676	3 814 921	4 066 595	2 071 024	1 463 401	(D)
Net value of construction work†	19 913 253	2 289 401	2 606 705	2 938 204	4 022 341	2 973 358	2 764 811	1 411 562	906 872	(D)
Value added††	12 631 107	1 312 764	1 519 753	1 810 344	2 513 882	1 960 104	1 908 016	828 656	777 588	(D)
Cost of materials, components, supplies, and fuels	7 819 936	1 020 104	1 155 910	1 192 204	1 595 625	1 101 937	934 791	602 425	216 940	(D)
Cost of construction work subcontracted out to others	6 825 228	590 390	761 389	810 775	1 303 335	841 563	1 301 785	659 463	556 529	(D)
Rental cost for machinery, equipment, and buildings	403 411	36 828	48 379	52 867	74 890	64 569	53 643	51 168	21 068	(D)
Capital expenditures, other than land	409 781	55 149	62 203	61 368	72 785	61 280	47 057	33 422	16 515	(D)
End-of-year gross book value of depreciable assets	3 857 656	419 139	457 235	535 322	773 093	651 596	566 822	327 869	126 580	(D)
1987										
All employees**	209 154	23 487	29 767	33 595	43 071	29 112	28 575	13 659	7 885	(D)
Value of construction work	22 575 712	2 197 235	2 600 193	3 156 444	4 789 060	3 600 654	3 716 304	1 786 950	728 871	(D)
Value added††	10 927 571	971 478	1 263 357	1 591 264	2 401 230	1 763 118	1 676 894	873 809	386 420	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	3	3	2	1	1	5	(Z)	(D)
Net value of construction work†	1	3	3	3	1	(Z)	(Z)	2	(Z)	(D)
Capital expenditures, other than land	2	8	11	7	3	(Z)	1	(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	24 579	(S)	(S)	3 290	6 460	4 544	2 918	2 530	967	567	399
All employees**	211 951	(S)	(S)	5 187	17 990	21 829	23 713	35 038	26 111	26 395	53 036
Payroll, all employees	6 492 735	(S)	(S)	66 595	291 479	445 105	598 295	1 048 231	894 116	1 014 949	2 109 795
Dollar value of business done	27 276 270	(S)	(S)	240 330	1 048 886	1 593 459	2 045 024	3 824 624	3 301 515	3 923 630	11 224 064
Value of construction work	26 738 481	(S)	(S)	237 248	1 038 826	1 570 036	2 017 010	3 751 105	3 247 131	3 862 710	10 940 083
Net value of construction work†	19 913 253	(S)	(S)	222 477	953 888	1 398 913	1 777 221	3 084 874	2 616 975	2 915 613	6 873 479
Value added††	12 631 107	(S)	(S)	141 845	567 119	829 946	1 086 433	1 861 607	1 628 876	1 874 687	4 596 496
Cost of materials, components, supplies, and fuels	7 819 936	(S)	(S)	83 714	396 830	592 390	718 803	1 296 786	1 042 482	1 101 847	2 560 963
Cost of construction work subcontracted out to others	6 825 228	(S)	(S)	14 771	84 937	171 123	239 789	666 231	630 156	947 097	4 066 605
Rental cost for machinery, equipment, and buildings	403 411	(S)	(S)	3 097	14 016	26 162	36 438	64 077	43 035	56 202	159 688
Capital expenditures, other than land	409 781	(S)	(S)	23 099	23 099	36 665	43 313	72 324	40 005	62 168	124 838
End-of-year gross book value of depreciable assets	3 857 656	(S)	(S)	51 984	165 494	269 290	358 220	584 476	452 296	575 790	1 382 350
1987											
All employees**	209 154	(S)	(S)	(S)	17 109	20 293	23 707	34 617	27 504	25 240	52 928
Value of construction work	22 575 712	(S)	(S)	(S)	867 753	1 273 612	1 821 067	3 271 615	3 183 695	3 104 615	8 794 091
Value added††	10 927 571	(S)	(S)	(S)	491 908	708 911	990 251	1 713 013	1 642 872	1 566 941	3 660 122
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	5	4	4	4	2	1	1	1
Net value of construction work†	1	(S)	(S)	4	3	4	4	3	2	2	(Z)
Capital expenditures, other than land	2	(S)	(S)	(S)	11	11	11	9	4	1	(Z)

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

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	26 738 481	15 398 343	6 885 270	3 661 206	1	1	1	1
Building construction	20 164 719	12 220 234	5 353 997	2 590 488	1	1	1	2
Single-family houses	7 132 665	5 264 318	1 160 898	707 448	2	2	3	4
Single-family houses, detached	5 784 951	4 154 072	1 036 004	592 875	2	2	3	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	1 349 714	1 110 246	124 895	114 573	4	5	8	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	681 524	289 850	227 185	164 488	3	5	5	5
Other residential buildings, including hotels, motels, and tourist cabins	288 460	138 804	90 886	58 770	4	3	7	14
Office buildings	2 694 667	1 349 636	987 060	357 970	1	2	2	2
Other commercial buildings such as stores, restaurants, and automobile service stations	2 392 712	1 385 542	638 578	368 592	2	2	3	4
Industrial buildings and warehouses	3 291 498	1 781 969	969 100	540 429	2	2	2	2
Industrial buildings	2 673 907	1 360 186	843 917	469 804	2	3	2	2
Warehouses	617 592	421 783	125 183	70 625	2	3	3	4
Religious buildings	257 573	116 119	100 937	40 516	2	2	5	4
Educational buildings	1 217 362	563 392	505 779	148 192	4	2	9	7
Hospitals and institutional buildings	1 498 548	853 493	517 295	127 760	1	1	2	3
Amusement, social, and recreational buildings, indoors	187 390	117 293	48 483	21 614	4	6	4	9
Other nonresidential buildings	522 321	359 817	107 795	54 709	3	3	6	12
Nonbuilding construction	5 780 100	3 178 110	1 531 272	1 070 718	1	1	1	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 853 218	783 052	608 429	461 737	1	1	1	2
Private driveways and parking areas	262 614	130 402	50 981	81 230	8	10	15	19
Bridges, tunnels, and elevated highways	597 260	350 224	211 045	35 991	6	11	(Z)	8
Tunnels	206 080	204 735	1 345	—	18	19	24	—
Bridges and elevated highways	391 180	145 489	209 700	35 991	1	(Z)	(Z)	8
Conservation and development construction	246 519	207 925	21 613	16 980	3	3	8	8
Power and communication transmission lines, towers, and related facilities	241 282	151 496	44 481	(S)	5	6	9	(S)
Sewers, water mains, and related facilities	754 733	544 490	124 216	86 028	3	4	5	6
Sewers, sewer lines, septic systems, and related facilities	475 843	348 286	77 439	50 117	3	4	2	9
Water mains and related facilities	278 890	196 203	46 777	35 910	6	7	12	6
Pipeline construction other than sewer or water lines	267 545	220 035	32 445	15 064	(Z)	(Z)	(Z)	(Z)
Blast furnaces, petroleum refineries, chemical complexes, etc.	341 689	126 951	92 699	122 039	1	(Z)	2	3
Power plants	336 292	105 583	138 368	92 341	2	1	(Z)	6
Power plants, nuclear	148 771	9 560	(D)	(D)	(Z)	(Z)	(D)	(D)
Power plants and cogeneration plants, except nuclear	187 520	96 022	(D)	(D)	3	1	(D)	(D)
Sewage treatment and water treatment plants	323 538	204 382	106 678	12 477	2	3	2	11
Other nonbuilding construction	555 411	353 569	100 317	101 525	3	3	2	4
Construction work, n.s.k.	793 662	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
1987								
Value of construction work	22 575 712	14 091 240	4 817 260	2 855 353	1	1	1	1
Building construction	17 214 703	11 529 775	3 610 898	2 074 030	1	1	1	2
Single-family houses	5 200 568	3 994 122	709 312	497 134	2	2	4	4
Single-family houses, detached	4 287 698	3 188 149	662 651	436 897	2	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	912 869	805 973	46 660	60 236	4	4	9	8
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	957 979	706 635	134 314	117 029	2	2	4	4
Other residential buildings, including hotels, motels, and tourist cabins	572 263	399 463	62 192	36 192	3	3	6	5
Office buildings	2 778 084	1 783 419	694 869	299 795	1	1	3	2
Other commercial buildings such as stores, restaurants, and automobile service stations	2 607 050	1 696 355	583 240	327 454	2	2	2	4
Industrial buildings and warehouses	2 910 378	1 746 326	692 962	471 090	1	1	1	2
Industrial buildings	2 487 518	1 457 184	611 682	418 651	1	1	1	2
Warehouses	422 860	289 142	81 279	52 438	3	3	5	4
Religious buildings	213 699	104 928	64 868	43 902	3	4	5	5
Educational buildings	634 445	255 883	273 079	105 482	2	2	2	5
Hospitals and institutional buildings	765 066	421 735	260 364	82 965	2	2	3	3
Amusement, social, and recreational buildings, indoors	169 792	128 493	23 718	17 580	2	1	7	12
Other nonresidential buildings	405 379	292 416	63 565	49 407	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	4 549 151	2 561 465	1 206 362	781 324	1	1	1	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 690 681	734 956	558 068	397 655	1	2	1	3
Private driveways and parking areas	168 206	101 491	31 026	35 688	8	9	15	11
Bridges, tunnels, and elevated highways	314 201	209 003	(D)	(D)	2	2	(D)	(D)
Tunnels	57 986	48 230	(D)	(D)	1	1	(D)	(D)
Bridges and elevated highways	256 214	160 773	70 560	24 880	2	3	1	7
Power and communication transmission lines, towers, and related facilities	91 133	45 865	27 801	17 465	7	8	13	8
Sewers, water mains, and related facilities	580 991	443 936	87 559	49 496	3	3	4	6
Sewers, sewer lines, septic systems, and related facilities	407 787	307 273	65 819	34 695	3	3	4	7
Water mains and related facilities	173 204	136 662	21 739	14 801	3	4	8	9
Pipeline construction other than sewer or water lines	103 208	69 170	19 976	14 061	1	1	1	5
Blast furnaces, petroleum refineries, chemical complexes, etc.	232 976	119 079	62 163	51 734	1	(Z)	2	4
Power plants	370 512	196 918	129 679	43 914	1	2	1	3
Power plants, nuclear	169 395	(D)	(D)	22 514	(Z)	(D)	(D)	1
Power plants and cogeneration plants, except nuclear	201 117	(D)	(D)	21 400	2	(D)	(D)	7
Sewage treatment and water treatment plants	463 509	324 721	122 923	15 863	3	3	7	11
Other nonbuilding construction	533 734	316 326	96 055	121 363	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	811 857	(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 -----	24 579	161 927	138 315	168 152	180 037	161 203	(Z)	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	4 238	11 341	10 303	11 628	12 368	11 066	2	3	3	3	3	3	3
1522	Other residential buildings -----	305	1 103	1 094	1 145	1 169	1 006	12	9	8	9	10	9	9
1531	Operative builders -----	707	2 288	2 172	2 391	2 397	2 195	7	6	6	6	6	6	6
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	325	3 915	3 789	3 699	4 242	3 931	11	4	4	4	5	6	6
1542	Nonresidential buildings, n.e.c. ---	1 301	10 818	9 855	10 686	11 897	10 835	5	3	3	2	3	3	3
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	437	8 553	3 858	10 105	11 646	8 606	8	2	2	2	2	2	2
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	52	2 594	1 878	2 864	3 157	2 479	10	3	4	3	2	3	3
1623	Water, sewer, and utility lines -----	369	6 091	4 612	6 306	6 928	6 519	8	3	2	3	3	3	3
1629	Heavy construction, n.e.c. -----	472	6 760	5 777	7 269	7 509	6 487	8	2	2	2	2	2	2
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	3 534	22 344	20 874	22 327	23 869	22 305	2	1	1	2	2	2	2
1721	Painting and paper hanging -----	1 351	5 665	4 756	5 962	6 645	5 297	2	4	3	5	5	3	3
1731	Electrical work -----	2 336	18 390	17 721	18 366	19 230	18 242	2	1	1	1	1	1	1
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	1 092	7 084	5 908	7 683	7 679	7 068	4	3	4	4	3	4	4
1742	Plastering, drywall, and insulation work -----	662	6 777	6 401	6 808	7 001	6 898	5	3	4	3	4	4	4
1743	Terrazzo, tile, marble, and mosaic work -----	198	1 106	1 104	1 099	1 155	1 066	11	5	5	5	6	5	5
175	Carpentry and floor work:													
1751	Carpentry -----	1 863	9 110	7 867	9 457	10 065	9 051	3	3	3	3	3	3	3
1752	Floor laying and other floor work --	489	2 144	1 967	2 165	2 266	2 178	6	6	6	7	7	7	7
1761	Roofing, siding, and sheet metal work -----	1 324	8 508	6 809	9 031	9 627	8 563	4	3	3	3	3	3	3
1771	Concrete work -----	1 437	9 312	5 994	10 191	11 203	9 858	3	3	4	3	3	3	3
1781	Water well drilling -----	96	409	387	403	430	416	10	8	9	9	9	8	8
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	149	2 121	1 953	2 137	2 378	2 015	10	5	5	4	4	5	5
1793	Glass and glazing work -----	173	921	909	911	944	921	9	7	8	7	7	7	7
1794	Excavation work -----	561	2 661	2 054	2 889	3 064	2 635	7	5	5	4	5	5	5
1795	Wrecking and demolition work -----	62	1 312	1 220	1 266	1 505	1 257	20	2	2	2	2	2	2
1796	Installing building equipment, n.e.c. -----	171	3 416	3 690	3 145	3 359	3 469	6	2	2	3	2	2	2
1799	Special trade contractors, n.e.c. ---	874	7 183	5 364	8 221	8 303	6 842	7	9	5	13	11	11	6

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 -----	8.6	30.6	165.1	.243	.292	.255	.292	.015
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	19.5	163.0	.164	.371	.275	.045	.009
1522	Other residential buildings -----	5.2	27.1	254.2	.154	.222	.470	.009	.006
1531	Operative builders -----	8.1	34.4	1 031.0	.084	.212	.456	.005	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	15.5	33.9	266.9	.164	.212	.509	.102	.008
1542	Nonresidential buildings, n.e.c. -----	12.2	34.0	400.3	.124	.166	.633	.038	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	24.2	36.2	199.1	.225	.350	.201	.200	.040
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	59.4	41.8	212.9	.232	.240	.249	.055	.022
1623	Water, sewer, and utility lines -----	20.0	37.5	158.2	.288	.259	.151	.169	.027
1629	Heavy construction, n.e.c. -----	17.5	34.3	177.7	.237	.251	.209	.140	.035
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.7	32.1	139.0	.319	.363	.093	.472	.013
1721	Painting and paper hanging -----	5.1	26.0	74.0	.424	.237	.060	.455	.013
1731	Electrical work -----	10.1	35.8	126.9	.362	.353	.050	.603	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	7.4	26.6	80.4	.379	(D)	.036	.684	.014
1742	Plastering, drywall, and insulation work -----	12.3	30.5	98.4	.372	.318	.077	.846	.013
1743	Terrazzo, tile, marble, and mosaic work -----	7.3	29.0	113.0	.335	.391	.064	.698	.014
175	Carpentry and floor work:								
1751	Carpentry -----	6.0	25.5	95.1	.330	.388	.082	.561	.011
1752	Floor laying and other floor work -----	6.0	27.6	128.2	.292	.413	.064	.646	.025
1761	Roofing, siding, and sheet metal work -----	8.3	28.3	119.1	.306	.369	.085	.464	.016
1771	Concrete work -----	7.9	26.3	113.1	.283	.402	.086	.593	.020
1781	Water well drilling -----	6.1	26.9	120.6	.318	.382	.011	.310	.016
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	17.5	30.8	106.6	.357	.308	.083	.835	.035
1793	Glass and glazing work -----	8.6	29.7	148.1	.323	.477	.030	.735	.023
1794	Excavation work -----	6.0	30.8	137.9	.281	.258	.122	.575	.033
1795	Wrecking and demolition work -----	25.7	21.5	75.4	.349	(D)	.139	.435	.035
1796	Installing building equipment, n.e.c. -----	26.0	33.8	119.0	.370	.297	.058	.255	.017
1799	Special trade contractors, n.e.c. -----	10.6	26.3	103.1	.329	.284	.107	.294	.018

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
	CHICAGO-GARY-KENOSHA, IL-IN-WI CMSA											
15,16,17	Construction industries	17 461	168 121	5 399 233	22 184 439	16 162 846	10 365 237	6 228 715	6 021 593	279 047	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 885	11 080	233 167	1 376 443	983 916	527 016	491 491	392 527	12 220	4	4
1522	Other residential buildings	243	1 227	33 414	237 423	116 365	73 322	43 972	121 059	1 346	10	9
1531	Operative builders	548	5 255	184 956	2 318 036	1 243 261	803 724	478 592	1 074 775	9 348	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	234	3 719	137 975	904 972	414 983	257 419	187 174	489 989	6 576	5	3
1542	Nonresidential buildings, n.e.c.	856	12 245	444 751	3 659 631	1 234 914	792 052	543 363	2 424 717	21 504	3	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	201	5 458	221 418	1 017 241	780 051	478 541	349 073	237 189	25 837	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	30	1 974	86 144	374 933	273 385	189 102	84 397	101 548	6 403	4	12
1623	Water, sewer, and utility lines	239	4 256	170 523	590 859	506 731	336 813	181 403	84 128	19 833	3	2
1629	Heavy construction, n.e.c.	(S)	7 450	269 993	1 088 583	843 673	664 918	244 021	244 910	21 311	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	2 446	25 623	867 194	2 657 598	2 406 530	1 506 359	924 498	251 067	29 898	2	2
1721	Painting and paper hanging.....	996	5 830	161 165	375 898	343 850	263 365	82 935	32 048	6 311	4	3
1731	Electrical work	1 723	19 593	727 771	1 992 008	1 885 342	1 200 925	691 395	106 666	21 936	1	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	816	6 484	184 849	484 270	464 542	311 663	154 936	19 728	7 013	3	4
1742	Plastering, drywall, and insulation work	506	6 676	208 099	564 077	518 750	339 914	180 603	45 328	5 270	3	4
1743	Terrazzo, tile, marble, and mosaic work	157	1 237	35 821	104 163	(D)	61 701	37 746	(D)	695	5	(D)
175	Carpentry and floor work:											
1751	Carpentry	1 357	9 556	259 590	761 948	698 659	420 608	284 683	63 288	10 802	3	3
1752	Floor laying and other floor work	395	2 687	77 301	262 710	244 966	137 171	110 431	17 744	5 292	6	4
1761	Roofing, siding, and sheet metal work	946	8 807	261 216	842 191	768 463	467 465	307 554	73 728	12 749	3	4
1771	Concrete work	1 095	8 991	244 995	868 094	788 541	441 503	351 094	79 553	21 069	3	3
1781	Water well drilling	54	421	13 407	39 793	(D)	24 851	14 483	(D)	1 904	9	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	102	1 833	64 863	177 653	161 900	112 839	53 591	15 753	2 714	6	2
1793	Glass and glazing work	151	1 372	41 712	126 986	122 562	70 719	59 204	4 424	850	6	4
1794	Excavation work	351	2 531	85 334	285 719	257 998	189 803	73 018	27 721	14 145	5	4
1795	Wrecking and demolition work	(S)	1 529	32 845	89 343	(D)	70 086	23 211	(D)	3 295	3	(D)
1796	Installing building equipment, n.e.c.	131	3 704	129 286	353 616	333 078	230 855	105 977	20 538	3 408	2	1
1799	Special trade contractors, n.e.c.	730	8 584	221 445	630 249	554 850	392 504	169 869	75 399	7 318	8	5
	Chicago, IL PMSA											
15,16,17	Construction industries	15 745	150 021	4 872 634	20 279 362	14 635 290	9 343 621	5 695 384	5 644 072	248 879	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 560	9 842	209 107	1 220 944	863 301	465 334	429 830	357 644	10 099	4	5
1522	Other residential buildings	213	1 105	31 755	227 106	(D)	69 696	41 117	(D)	(D)	11	(D)
1531	Operative builders	499	4 876	176 783	2 159 407	1 156 131	762 398	428 183	1 003 276	8 671	6	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	225	3 076	113 165	801 807	356 770	225 002	160 800	445 037	5 907	5	4
1542	Nonresidential buildings, n.e.c.	793	11 075	408 776	3 496 800	1 144 177	728 302	515 489	2 352 623	20 255	3	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	177	4 886	200 986	922 682	708 506	429 717	322 565	214 176	24 062	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	28	(D)	(D)	(D)	(D)	(D)	(D)	101 548	(D)	(D)	(D)
1623	Water, sewer, and utility lines	219	3 973	162 336	562 320	482 297	317 730	175 918	80 023	16 623	3	2
1629	Heavy construction, n.e.c.	(S)	5 048	181 448	808 867	614 071	482 339	195 036	194 796	15 667	2	2

IL-14 ILLINOIS

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
	CHICAGO—GARY—KENOSHA, IL—IN—WI CMSA—Con.											
	Chicago, IL PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	2 192	22 542	763 848	2 375 461	2 151 693	1 329 811	842 964	223 768	27 269	2	2
1721	Painting and paper hanging	903	5 049	138 323	314 777	(D)	227 117	68 773	(D)	3 977	5	(D)
1731	Electrical work	1 590	17 611	665 856	1 820 725	1 721 990	1 095 274	632 915	98 735	20 523	2	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	750	6 048	172 969	446 868	428 617	284 281	146 040	18 251	6 789	3	4
1742	Plastering, drywall, and insulation work	461	6 345	199 609	542 439	497 948	326 814	172 902	44 490	5 193	4	4
1743	Terrazzo, tile, marble, and mosaic work	152	1 224	35 558	103 416	(D)	61 317	37 398	(D)	695	5	(D)
175	Carpentry and floor work:											
1751	Carpentry	1 204	8 859	246 348	705 477	650 786	390 966	266 038	54 692	9 720	3	3
1752	Floor laying and other floor work	355	2 496	73 007	246 706	230 210	129 464	102 935	16 495	5 179	6	5
1761	Roofing, siding, and sheet metal work	850	7 857	238 096	767 995	697 635	424 708	279 345	70 360	11 960	3	4
1771	Concrete work	982	8 284	232 501	822 986	745 590	418 677	330 894	77 396	20 485	4	3
1781	Water well drilling	46	(D)	(D)	(D)	37 513	(D)	13 808	(D)	1 770	(D)	8
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	89	1 477	52 069	149 168	135 404	93 463	45 754	13 764	(D)	6	2
1793	Glass and glazing work	137	1 261	38 539	117 779	(D)	65 179	54 071	(D)	(D)	7	(D)
1794	Excavation work	307	2 253	77 123	256 189	230 239	169 562	65 319	25 949	12 499	5	4
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	125	3 654	128 006	350 305	(D)	228 889	105 022	(D)	(D)	2	(D)
1799	Special trade contractors, n.e.c.	665	7 331	195 110	559 828	487 901	336 559	155 766	71 927	5 050	9	6
	Gary, IN PMSA											
15,16,17	Construction industries	1 245	14 122	405 843	1 419 834	1 163 027	783 878	397 404	256 807	22 143	2	2
	(See appropriate State for SIC detail.)											
	Kankakee, IL PMSA											
15,16,17	Construction industries	(S)	1 854	58 314	220 555	175 810	123 380	56 394	44 745	5 023	8	5
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	*19	*27	*379	*1 510	*1 316	*670	*646	*194	(D)	43	52
1522	Other residential buildings	—	—	—	—	—	—	—	—	—	—	—
1531	Operative builders	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	*11	*155	*4 441	29 857	*11 766	*6 816	*4 961	18 090	(D)	56	47
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	4	250	7 452	24 321	21 264	16 329	8 548	3 057	792	(Z)	(Z)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	*10	(D)	(S)	(S)	(S)	(S)	(D)	(S)	2 587	(D)	(S)
1629	Heavy construction, n.e.c.	*9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

CONSTRUCTION—GEOGRAPHIC AREA SERIES

ILLINOIS IL—15

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	CHICAGO—GARY—KENOSHA, IL—IN—WI CMSA—Con.											
	Kankakee, IL PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	44	189	5 096	16 220	15 139	8 353	6 868	1 081	246	29	28
1721	Painting and paper hanging	*5	*32	*780	*1 428	*1 428	*1 124	*303	—	—	55	50
1731	Electrical work	(S)	115	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	(S)	(S)	(S)	(S)	(S)	(S)	*608	(S)	—	(S)	(S)
1742	Plastering, drywall, and insulation work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1743	Terrazzo, tile, marble, and mosaic work	—	—	—	—	—	—	—	—	—	—	—
175	Carpentry and floor work:											
1751	Carpentry	(S)	*25	*485	*1 313	*1 192	*753	*463	*120	(D)	68	71
1752	Floor laying and other floor work	—	—	—	—	—	—	—	—	—	—	—
1761	Roofing, siding, and sheet metal work	10	158	4 797	13 443	12 942	9 138	3 807	502	(D)	23	18
1771	Concrete work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1781	Water well drilling	—	—	—	—	—	—	—	—	—	—	—
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	(S)	(D)	(S)	(S)	(D)	(S)	—	(S)	(S)	(S)
1793	Glass and glazing work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1794	Excavation work	(S)	70	2 829	(D)	(D)	7 319	1 967	581	(D)	32	(D)
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	(S)	55	1 782	6 163	(D)	4 364	1 794	(D)	(D)	14	(D)
	Kenosha, WI PMSA											
15,16,17	Construction industries	290	2 124	62 443	264 688	188 720	114 359	79 533	75 969	3 002	3	2
	(See appropriate State for SIC detail.)											
	ST. LOUIS, MO—IL MSA											
15,16,17	Construction industries	6 082	55 365	1 548 072	6 937 162	4 977 510	3 106 041	2 055 513	1 959 652	99 753	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 113	5 395	100 063	547 029	406 977	217 550	195 903	140 051	5 377	6	8
1522	Other residential buildings	(S)	463	11 296	(S)	(S)	(S)	(S)	(S)	(S)	28	(S)
1531	Operative builders	175	1 825	56 639	618 927	439 125	251 807	201 479	179 803	2 002	7	5
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	89	2 953	102 976	690 995	377 033	244 934	179 810	313 962	4 853	2	1
1542	Nonresidential buildings, n.e.c.	336	4 407	135 675	1 215 224	399 504	236 786	194 070	815 720	4 492	4	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	106	2 414	74 124	392 285	280 219	161 796	134 227	112 066	10 436	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	17	417	17 276	76 814	62 811	34 589	28 557	14 003	1 849	6	4
1623	Water, sewer, and utility lines	104	1 858	52 923	212 691	188 279	132 470	56 327	24 412	12 425	5	5
1629	Heavy construction, n.e.c.	159	2 487	82 619	351 757	286 491	187 106	116 320	65 266	15 566	4	3

IL—16 ILLINOIS

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
	ST. LOUIS, MO-IL MSA—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	840	6 732	214 643	653 031	556 451	333 009	228 900	96 580	11 327	3	2
1721	Painting and paper hanging-----	449	2 425	60 781	146 028	143 220	104 480	38 788	2 808	2 551	5	4
1731	Electrical work -----	373	5 162	167 446	449 043	430 218	281 704	155 770	18 825	7 643	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	280	1 857	46 197	120 933	115 491	75 298	40 439	5 442	853	8	7
1742	Plastering, drywall, and insulation work -----	183	2 179	64 292	150 344	135 241	92 248	46 684	15 103	762	6	4
1743	Terrazzo, tile, marble, and mosaic work -----	52	299	6 988	22 027	(D)	13 714	8 306	(D)	33	24	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	378	2 141	49 587	167 291	143 471	100 895	46 046	(S)	1 990	9	12
1752	Floor laying and other floor work ---	(S)	1 160	27 118	92 397	90 965	45 174	47 431	(S)	1 071	13	14
1761	Roofing, siding, and sheet metal work -----	356	2 661	58 212	203 364	190 098	113 230	79 437	13 266	1 972	6	5
1771	Concrete work -----	(S)	2 978	72 139	221 714	206 387	121 185	85 669	15 327	5 452	5	4
1781	Water well drilling -----	13	178	4 483	14 766	14 545	8 226	6 400	221	811	15	18
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	43	1 024	37 073	149 533	130 566	93 299	37 267	18 967	998	8	5
1793	Glass and glazing work -----	31	190	5 788	22 235	22 163	11 483	11 287	(S)	198	15	21
1794	Excavation work -----	122	805	17 955	76 551	60 814	42 752	18 837	15 737	3 837	10	8
1795	Wrecking and demolition work -----	*19	149	2 910	18 084	(D)	9 035	1 607	(D)	272	18	(D)
1796	Installing building equipment, n.e.c. -	35	471	16 230	38 473	37 804	27 027	11 101	669	447	8	7
1799	Special trade contractors, n.e.c.-----	215	2 735	62 642	191 574	176 777	139 395	60 934	14 797	1 833	6	5

Contents

Indiana

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Indiana. 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 43,619 establishments in this State operating in the construction industries. These establishments accounted for \$12.9 billion in total dollar value of business done.

Most of the 43,619 construction establishments were small. Of the total, 30,495 were nonemployers, and over half of the employer establishments had less than 5 employees. The 5,587 construction establishments with 5 employees or more, while representing only 13 percent of all establishments, accounted for more than 83 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$12.1 billion in total dollar value of business done. Of this amount, \$11.9 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.5 billion, leaving net value of construction work of \$9.4 billion. In addition, these establishments paid out \$4.4 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 \$5.6 billion. (See Introduction and appendixes for explanation of terms.)

There were 13,124 establishments with total employment averaging 116,001 during the year. Total payroll for 1992 was \$2.9 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 30,495 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$790 million. Most of these establishments, about 81 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 

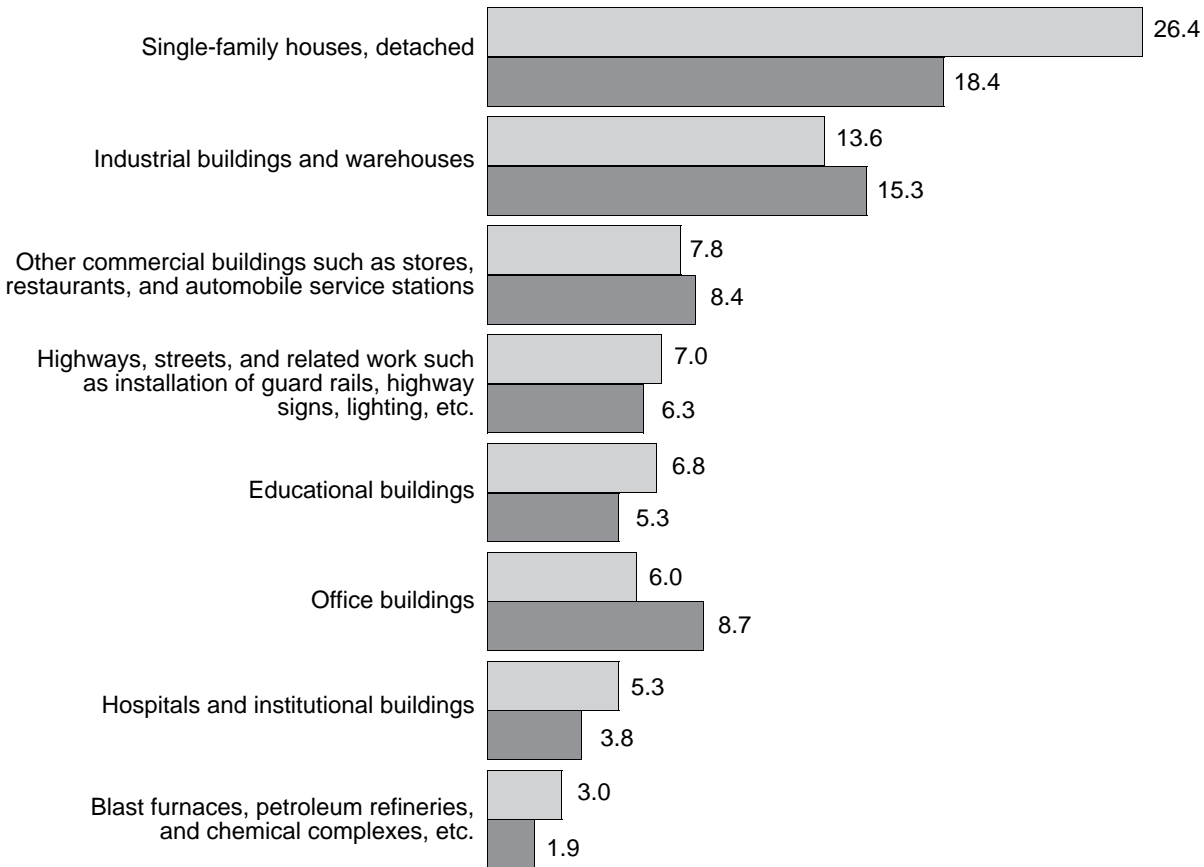




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

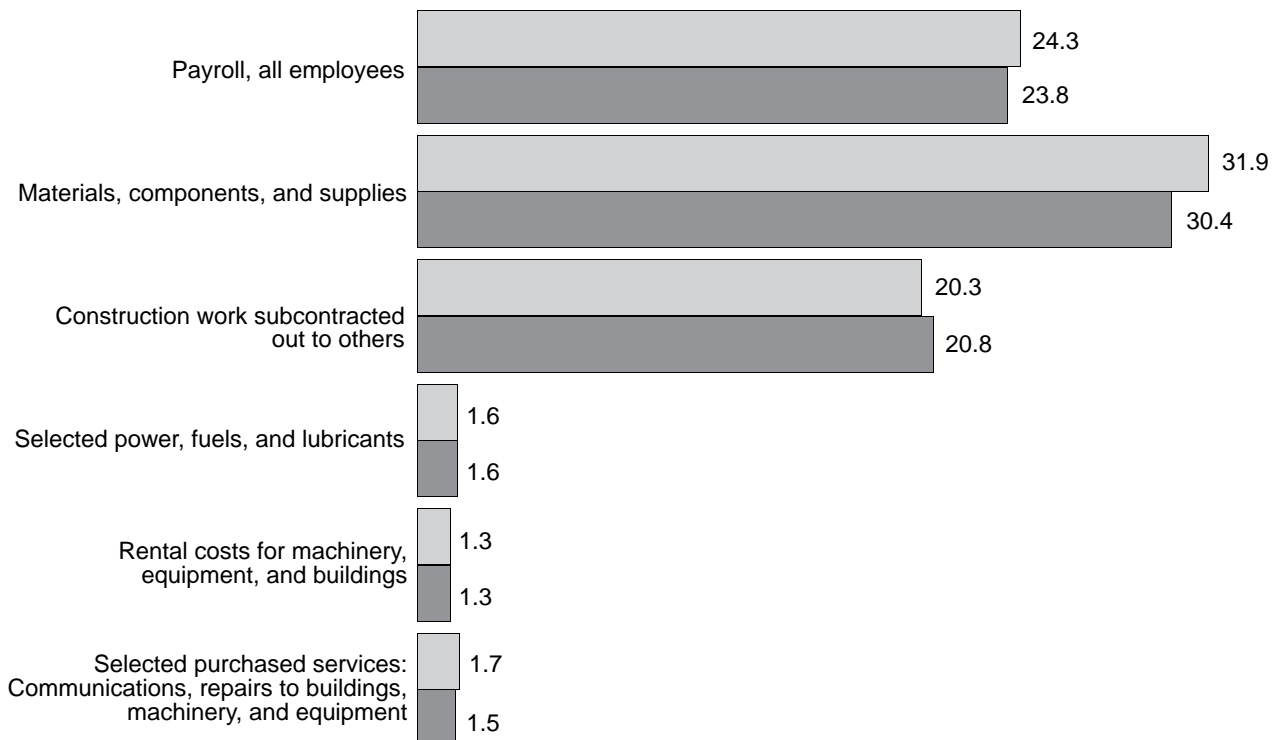


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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	K	
1992															
15, 16, 17	Construction industries -----	43 619	35 419	116 001	12 880 819	30 495	29 884	790 250	13 124	5 535	116 001	12 090 569	1	1	
15	Building construction—General contractors and operative builders ----	9 371	6 615	28 887	4 984 135	5 244	4 846	307 999	4 127	1 769	28 887	4 676 136	1	2	
16	Heavy construction other than building construction—contractors -----	1 313	710	18 579	2 241 274	458	438	12 739	855	272	18 579	2 228 535	1	1	
17	Special trade contractors -----	32 935	28 094	68 535	5 655 409	24 793	24 600	469 512	8 142	3 494	68 535	5 185 897	1	1	
1711	Plumbing, heating, and air-conditioning --	3 496	2 368	17 569	1 629 773	1 862	1 814	51 607	1 634	554	17 569	1 578 166	2	1	
1731	Electrical work -----	2 720	1 846	11 724	952 778	1 667	1 612	28 143	1 053	234	11 724	924 635	2	1	
1987															
15, 16, 17	Construction industries ² -----	42 346	33 748	98 408	10 373 798	31 373	30 604	1 257 428	10 973	3 144	98 408	9 116 370	1	1	
15	Building construction—General contractors and operative builders ----	10 448	7 645	25 719	4 075 483	7 253	6 783	516 404	3 195	862	25 719	3 559 079	2	2	
16	Heavy construction other than building construction—contractors -----	1 154	514	16 105	1 646 279	351	336	20 934	803	178	16 105	1 625 345	2	1	
17	Special trade contractors -----	29 960	25 038	56 152	4 451 712	23 085	22 949	588 380	6 875	2 089	56 152	3 863 332	1	1	
1711	Plumbing, heating, and air-conditioning --	3 408	2 318	14 755	1 294 453	1 895	1 848	72 860	1 513	470	14 755	1 221 593	2	1	
1731	Electrical work -----	2 372	1 620	9 571	684 933	1 484	1 447	38 312	888	173	9 571	646 621	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	13 124	116 001	90 667	2 939 817	2 156 197	11 888 023	9 428 757	5 582 888
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses.....	2 824	11 581	8 663	204 952	139 423	1 440 902	1 091 022	504 289
1522	Other residential buildings.....	236	1 083	743	19 862	13 074	127 589	75 569	47 013
1531	Operative builders.....	338	2 075	1 059	49 561	20 193	861 564	564 498	273 622
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses.....	206	3 643	2 816	104 449	74 142	505 678	297 308	165 888
1542	Nonresidential buildings, n.e.c.....	522	10 506	8 031	297 456	204 775	1 669 682	894 109	556 466
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction.....	197	5 433	4 396	176 822	133 438	764 057	605 555	296 151
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction.....	32	2 252	1 852	92 367	72 229	354 663	288 560	136 836
1623	Water, sewer, and utility lines.....	211	6 207	5 107	177 226	125 224	545 463	492 343	342 353
1629	Heavy construction, n.e.c.....	415	4 687	3 939	146 939	116 899	525 558	431 071	304 414
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning.....	1 634	17 569	13 060	507 684	371 705	1 553 176	1 375 942	840 535
1721	Painting and paper hanging.....	757	4 243	3 518	81 247	63 608	223 245	203 652	149 114
1731	Electrical work.....	1 053	11 724	9 211	320 473	240 942	903 341	862 095	535 416
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework.....	633	4 048	3 553	82 073	68 944	209 577	202 710	144 979
1742	Plastering, drywall, and insulation work.....	354	3 617	3 008	86 106	67 303	243 495	222 410	139 347
1743	Terrazzo, tile, marble, and mosaic work.....	64	603	503	13 031	9 826	36 273	34 951	19 964
175	Carpentry and floor work:								
1751	Carpentry.....	884	4 105	3 384	71 908	56 581	259 405	235 769	149 067
1752	Floor laying and other floor work.....	234	1 214	785	24 836	13 869	124 294	109 245	56 764
1761	Roofing, siding, and sheet metal work.....	641	6 072	4 806	138 419	100 601	463 784	434 589	252 985
1771	Concrete work.....	616	4 247	3 564	80 553	63 083	287 332	268 788	154 475
1781	Water well drilling.....	105	463	357	11 086	8 516	44 488	43 135	27 326
179	Miscellaneous special trade contractors:								
1791	Structural steel erection.....	91	1 605	1 345	44 870	37 041	106 029	99 602	75 218
1793	Glass and glazing work.....	85	695	445	17 319	10 387	58 166	57 258	29 528
1794	Excavation work.....	433	2 378	1 858	53 123	41 554	201 687	186 112	126 205
1795	Wrecking and demolition work.....	29	191	141	3 033	2 511	11 628	11 253	8 166
1796	Installing building equipment, n.e.c.....	95	1 327	1 040	40 982	31 351	103 605	94 453	75 675
1799	Special trade contractors, n.e.c.....	435	4 432	3 483	93 440	68 979	263 344	246 757	171 092

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	
4 048 415	2 459 265	3 058 713	162 072	215 371	1 738 867	98 408	8 799 822	4 205 974	1	1	4	15, 16, 17
607 199 30 430	349 880 52 020	37 864 (S)	8 740 (S)	15 269 *627	114 804 8 528	8 234 1 574	713 896 210 382	301 004 57 419	4 15	5 17	15 74	152 1522
305 679	297 066	4 872	1 725	*9 336	29 873	2 320	585 018	157 470	8	8	72	1531
135 182 367 461	208 370 775 573	37 057 83 710	4 293 10 756	4 872 11 371	58 076 113 932	4 554 9 037	577 711 1 300 643	197 201 394 492	4 2	4 2	18 8	154 1542
329 793	158 502	159 992	22 870	38 978	226 577	4 973	569 333	286 203	3	2	2	1611
155 333 157 058 134 385	66 103 53 120 94 487	12 556 57 376 90 708	6 512 15 242 12 675	9 750 18 016 17 448	77 492 209 348 123 233	1 850 5 410 3 872	241 116 356 448 418 590	108 457 224 446 212 266	(Z) 3 3	(Z) 2 3	(Z) 4 9	162 1622 1623 1629
560 397	177 234	756 831	31 535	20 082	175 378	14 755	1 201 123	632 928	2	1	9	1711
56 010 347 973	19 594 41 246	132 328 409 320	3 422 9 216	4 316 10 195	40 234 99 928	3 165 9 571	137 922 637 738	103 109 402 616	4 2	4 1	15 7	1721 1731
58 834 83 978 15 052	6 866 21 085 1 322	131 172 184 173 29 274	1 761 1 891 242	4 351 1 894 356	32 487 15 417 4 111	3 083 3 272 329	174 933 211 377 21 458	121 124 115 873 12 942	5 5 7	4 4 5	13 21 16	174 1742 1743
90 571 61 003	23 635 15 049	150 188 74 769	1 977 1 683	4 609 *1 898	34 451 11 247	3 262 916	165 516 72 125	90 457 35 044	6 8	6 10	23 57	175 1751 1752
184 573	29 194	177 988	5 486	5 246	63 877	5 072	342 620	194 843	3	3	6	1761
116 980	18 544	168 577	3 456	7 264	76 682	3 715	233 190	131 763	5	3	18	1771
16 486	1 352	4 415	*178	(S)	*19 759	487	31 527	17 858	12	13	(S)	1781
31 780 31 931 62 096 3 799 22 203 82 228	6 428 908 15 574 *375 9 152 16 587	77 817 55 047 104 565 *2 088 18 535 94 105	4 031 977 5 529 *136 2 085 5 197	3 110 436 9 860 111 3 295 9 399	22 891 5 204 108 496 1 222 23 410 42 213	1 339 652 2 110 45 1 519 2 860	67 459 55 749 152 092 1 679 113 985 161 240	52 213 27 683 110 810 1 409 87 640 100 864	8 10 7 39 4 5	6 8 7 32 4 5	4 26 16 8 29 26	179 1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

INDIANA IN-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	13 124	10 973	9 648	11 251	(Z)	1	2	2
Proprietors and working partners.....	5 535	3 144	3 695	6 868	2	4	4	4
All employees**	116 001	98 408	77 804	99 225	1	1	1	1
Construction workers:								
March.....	80 532	68 445	54 059	70 877	1	1	1	1
May.....	91 493	79 176	63 951	86 086	1	1	1	1
August.....	99 227	86 628	69 551	92 898	1	1	1	1
November.....	91 417	79 717	62 479	85 152	1	1	1	1
Average.....	90 667	78 492	63 456	83 818	1	1	1	1
Other employees:								
March.....	25 237	19 371	14 287	14 861	1	1	1	4
May.....	25 255	20 033	(NA)	(NA)	1	1	(NA)	(NA)
August.....	25 321	20 182	(NA)	(NA)	1	1	(NA)	(NA)
November.....	25 522	20 086	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	25 334	19 918	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	2 939 817	2 169 441	1 467 103	1 327 493	(Z)	(Z)	1	1
Payroll, construction workers	2 156 197	1 608 886	1 159 938	1 083 223	(Z)	1	1	1
Payroll, other employees	783 620	560 554	307 165	244 270	1	1	1	3
First-quarter payroll, all employees	621 570	456 826	314 388	262 280	1	1	1	1
Fringe benefits, all employees	719 849	465 002	257 994	232 246	1	1	1	1
Legally required expenditures.....	431 378	292 911	189 426	124 440	1	1	1	1
Voluntary expenditures.....	288 471	172 090	68 568	107 806	1	1	1	(Z)
Dollar value of business done	12 090 569	9 116 370	5 037 326	4 904 613	1	1	1	1
Value of construction work	11 888 023	8 799 822	4 884 399	4 688 990	1	1	1	1
Value of construction work subcontracted in from others	3 058 713	1 927 804	957 344	892 496	2	2	1	1
Other business receipts.....	202 546	218 764	130 695	215 623	4	4	2	2
Net value of construction†	9 428 757	6 906 193	3 953 085	3 670 425	1	1	1	1
Value added††	5 582 888	4 205 974	2 470 522	2 157 956	1	1	1	1
Selected costs	6 507 681	4 812 612	2 544 571	2 658 742	1	1	1	1
Materials, components, and supplies	3 859 799	2 774 334	1 512 045	1 559 778	1	1	1	1
Construction work subcontracted out to others	2 459 265	1 893 628	931 313	1 018 566	2	2	1	1
Selected power, fuels, and lubricants.....	188 616	144 649	101 211	80 399	2	1	2	1
Electricity.....	29 554	22 217	14 880	10 075	3	2	3	3
Natural gas.....	11 508	7 852	7 560	5 688	2	2	3	5
Gasoline and diesel fuel	135 847	105 898	72 224	55 305	2	1	2	1
On highway use.....	101 508	73 874	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use.....	34 339	32 024	(NA)	(NA)	4	2	(NA)	(NA)
Other, including lubricating oils and greases.....	11 707	8 681	6 546	9 333	4	2	3	3
Rental cost for machinery, equipment, and buildings	162 072	118 318	55 992	54 706	2	2	2	1
For machinery and equipment	106 049	85 612	39 770	45 930	3	3	2	1
For buildings.....	56 023	32 706	16 222	8 776	3	3	3	2
Selected purchased services	202 485	140 482	84 896	84 338	2	2	2	5
Communication services	63 605	37 542	24 240	21 459	3	2	2	6
Repairs to buildings and other structures	11 432	9 236	6 636	5 361	6	7	3	4
Repairs to machinery and equipment	127 448	93 703	54 019	57 517	2	2	2	7
Ownership of construction projects:								
Value of construction work	11 888 023	8 799 822	4 884 399	4 688 990	1	1	1	1
Government owned	2 890 550	1 762 818	1 009 722	822 754	2	2	2	1
Federal	384 667	411 529	(NA)	(NA)	6	3	(NA)	(NA)
State and local	2 505 883	1 351 288	(NA)	(NA)	1	2	(NA)	(NA)
Privately owned	8 997 473	7 037 003	3 874 676	3 866 236	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	1 617 048	1 121 441	2	2
Capital expenditures, other than land	215 371	186 895	4	3
New	160 788	147 758	5	4
Used	54 583	39 137	5	5
Retirements and disposition of depreciable assets	93 552	60 701	8	3
End-of-year gross book value of depreciable assets	1 738 867	1 247 635	2	2
Depreciation charges during year	189 057	147 782	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	248 046	224 193	5	5
Capital expenditures, other than land	27 925	30 411	21	11
New buildings and other structures	21 375	22 766	26	14
Used buildings and other structures	6 549	7 644	27	14
Retirements and disposition of depreciable assets	16 067	13 084	33	9
End-of-year gross book value of depreciable assets	259 904	241 519	5	5
Depreciation charges during year	22 143	19 649	5	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	1 369 002	897 247	2	2
Capital expenditures, other than land	187 447	156 484	3	3
New machinery and equipment, including automobiles and trucks	139 413	124 991	3	3
New automobiles and trucks, intended primarily for highway use	46 329	51 211	4	6
Used machinery and equipment, including automobiles and trucks	48 034	31 492	4	5
Retirements and disposition of depreciable assets	77 486	47 616	6	3
End-of-year gross book value of depreciable assets	1 478 963	1 006 115	2	2
Depreciation charges during year	166 914	128 133	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 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	13 124	(Z)
Value of construction work	11 888 023	1
Establishments with inventories:		
Number	4 213	2
Value of construction work	5 783 967	1
Inventories ¹ :		
End of 1992, materials and supplies	158 555	5
End of 1991, materials and supplies	149 679	7
Establishments with no inventories:		
Number	4 843	2
Value of construction work	4 203 109	2
Establishments not reporting:		
Number	4 068	2
Value of construction work	1 900 947	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	13 124	7 537	3 055	1 490	715	192	110	15	9	1
All employees**	116 001	14 660	19 199	19 655	21 188	12 911	16 153	5 167	7 066	(D)
Payroll, all employees	2 939 817	231 282	362 358	448 809	581 642	397 200	506 288	163 359	248 879	(D)
Dollar value of business done	12 090 569	1 456 357	1 671 674	1 733 574	2 340 783	1 608 374	1 906 122	586 234	787 450	(D)
Value of construction work	11 888 023	1 428 014	1 652 816	1 705 602	2 303 353	1 571 356	1 864 768	582 871	779 243	(D)
Net value of construction work†	9 428 757	1 151 148	1 348 546	1 424 957	1 814 101	1 201 258	1 375 941	465 459	647 347	(D)
Value added††	5 582 888	629 185	734 378	824 645	1 044 174	755 692	829 374	301 779	463 662	(D)
Cost of materials, components, supplies, and fuels	4 048 415	550 307	633 026	628 285	807 357	482 584	587 921	167 043	191 892	(D)
Cost of construction work subcontracted out to others	2 459 265	276 865	304 270	280 645	489 253	370 098	488 827	117 412	131 896	(D)
Rental cost for machinery, equipment, and buildings	162 072	12 729	18 151	21 528	30 611	18 247	32 726	9 241	18 838	(D)
Capital expenditures, other than land	215 371	20 961	38 195	26 723	48 421	36 150	27 346	4 171	13 405	(D)
End-of-year gross book value of depreciable assets	1 738 867	181 762	251 521	263 259	391 575	229 004	245 047	37 915	138 784	(D)
1987										
All employees**	98 408	12 865	14 994	16 992	21 331	12 633	9 945	4 446	5 199	(D)
Value of construction work	8 799 822	1 103 285	994 570	1 387 194	1 955 546	1 288 204	1 050 242	1 020 779	(D)	(D)
Value added††	4 205 974	491 582	479 024	694 686	966 325	604 600	502 642	249 975	217 139	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	3	4	4	2	1	(Z)	(Z)	(Z)	(D)
Net value of construction work†	1	4	5	4	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	4	12	21	10	2	(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	13 124	(S)	(S)	1 701	3 434	2 439	1 669	1 317	424	228	178
All employees**	116 001	(S)	(S)	3 018	10 952	13 110	14 177	19 463	13 440	11 071	28 930
Payroll, all employees	2 939 817	(S)	(S)	35 108	153 363	235 633	295 875	471 748	384 785	352 587	996 680
Dollar value of business done	12 090 569	(S)	(S)	123 588	550 703	858 290	1 166 186	1 940 757	1 479 412	1 520 772	4 400 099
Value of construction work	11 888 023	(S)	(S)	122 614	542 438	847 655	1 154 658	1 903 309	1 450 235	1 488 252	4 328 480
Net value of construction work†	9 428 757	(S)	(S)	115 151	500 090	765 962	998 629	1 584 050	1 179 190	1 118 746	3 119 549
Value added††	5 582 888	(S)	(S)	72 267	299 188	452 517	569 638	912 498	705 921	613 856	1 928 151
Cost of materials, components, supplies, and fuels	4 048 415	(S)	(S)	43 859	209 167	324 080	440 519	709 000	502 446	537 410	1 263 017
Cost of construction work subcontracted out to others	2 459 265	(S)	(S)	(S)	42 348	81 693	156 029	319 259	271 045	369 505	1 208 930
Rental cost for machinery, equipment, and buildings	162 072	(S)	(S)	(S)	6 073	11 157	16 074	23 566	19 127	17 721	65 324
Capital expenditures, other than land	215 371	(S)	(S)	3 566	9 664	17 388	29 046	29 131	22 302	38 821	64 474
End-of-year gross book value of depreciable assets	1 738 867	(S)	(S)	22 812	101 244	144 658	193 670	314 987	217 444	230 893	500 858
1987											
All employees**	98 408	(S)	(S)	3 663	10 188	10 807	12 470	17 779	11 666	9 850	20 403
Value of construction work	8 799 822	(S)	(S)	133 473	477 060	596 442	844 585	1 566 334	1 238 470	1 146 012	2 756 775
Value added††	4 205 974	(S)	(S)	76 385	274 617	317 424	426 244	774 263	610 246	548 440	1 153 264
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	7	5	5	4	3	2	1	(Z)
Net value of construction work†	1	(S)	(S)	6	4	5	5	4	3	3	(Z)
Capital expenditures, other than land	4	(S)	(S)	21	14	16	15	8	2	17	(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	11 888 023	6 950 103	2 953 042	1 693 998	1	1	1	1
Building construction	8 787 124	5 512 258	2 217 274	1 057 592	1	2	1	2
Single-family houses	3 432 240	2 523 173	585 900	323 167	3	4	4	5
Single-family houses, detached	3 138 226	2 294 120	558 306	285 801	3	4	4	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	294 014	229 054	27 595	37 366	14	17	10	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	250 023	146 047	70 772	33 204	9	14	10	8
Other residential buildings, including hotels, motels, and tourist cabins	78 138	35 257	28 854	14 027	11	14	19	18
Office buildings	709 324	385 339	234 483	89 502	2	3	4	5
Other commercial buildings such as stores, restaurants, and automobile service stations	929 173	516 393	252 794	159 985	3	3	4	5
Industrial buildings and warehouses	1 614 610	876 846	446 296	291 468	1	2	2	3
Industrial buildings	1 375 031	708 779	395 490	270 762	1	2	2	3
Warehouses	239 579	168 067	50 806	20 706	5	5	10	9
Religious buildings	124 495	57 432	44 679	22 385	5	4	9	8
Educational buildings	804 161	473 163	278 674	52 323	1	2	2	5
Hospitals and institutional buildings	624 253	353 057	223 535	47 661	1	1	2	3
Amusement, social, and recreational buildings, indoors	91 743	66 371	19 464	5 908	2	2	4	16
Other nonresidential buildings	128 965	79 179	31 824	17 961	5	6	3	14
Nonbuilding construction	2 810 020	1 437 845	735 768	636 406	1	1	2	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	835 633	326 401	346 927	162 305	2	2	2	3
Private driveways and parking areas	78 000	32 628	29 319	16 053	9	9	15	17
Bridges, tunnels, and elevated highways	340 690	265 195	35 872	39 623	1	1	3	3
Tunnels	108 378	(D)	(D)	(D)	1	(D)	(D)	(D)
Bridges and elevated highways	232 312	(D)	(D)	(D)	1	(D)	(D)	(D)
Power and communication transmission lines, towers, and related facilities	249 116	110 451	62 904	75 761	3	5	2	4
Sewers, water mains, and related facilities	411 725	327 835	46 906	36 984	3	3	5	9
Sewers, sewer lines, septic systems, and related facilities	248 410	194 623	33 674	20 112	5	5	6	13
Water mains and related facilities	163 315	133 212	13 232	16 872	4	4	6	11
Pipeline construction other than sewer or water lines	62 391	26 486	3 926	31 979	1	1	3	(Z)
Mass transit construction	(S)	11 364	(S)	19 890	(S)	23	(S)	7
Blast furnaces, petroleum refineries, chemical complexes, etc.	358 667	126 527	65 751	166 389	1	1	(Z)	2
Power plants	108 286	16 030	41 112	51 145	1	4	(Z)	1
Sewage treatment and water treatment plants	107 508	75 104	22 205	10 199	10	14	2	3
Other nonbuilding construction	186 870	119 825	40 966	26 080	6	6	16	11
Construction work, n.s.k.	290 879	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1987								
Value of construction work	8 799 822	5 250 943	2 068 791	1 075 401	1	2	1	2
Building construction	6 349 911	4 139 413	1 500 303	710 195	1	2	2	2
Single-family houses	1 868 022	1 321 956	343 149	202 917	3	4	5	5
Single-family houses, detached	1 615 827	1 113 705	319 296	182 825	3	4	6	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	252 195	208 251	23 852	20 091	11	13	23	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	318 138	256 507	31 585	30 045	8	22	11	8
Other residential buildings, including hotels, motels, and tourist cabins	208 186	136 048	55 746	16 391	8	7	24	10
Office buildings	763 335	483 929	195 974	83 431	2	2	3	5
Other commercial buildings such as stores, restaurants, and automobile service stations	736 772	474 235	179 225	83 312	3	4	3	6
Industrial buildings and warehouses	1 350 085	825 154	338 819	186 110	1	2	2	3
Industrial buildings	1 130 807	656 658	303 129	171 019	2	2	3	3
Warehouses	219 277	168 496	35 690	15 091	2	2	5	6
Religious buildings	91 919	49 838	26 156	15 924	6	10	5	5
Educational buildings	467 272	268 657	165 041	33 573	2	3	2	3
Hospitals and institutional buildings	330 971	172 272	128 902	29 796	3	6	2	4
Amusement, social, and recreational buildings, indoors	101 187	84 792	5 263	11 132	5	2	18	32
Other nonresidential buildings	114 024	66 025	30 443	17 564	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	2 045 224	1 111 529	568 488	365 206	1	2	1	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	555 197	258 268	195 270	101 658	2	3	1	4
Private driveways and parking areas	78 611	48 566	15 879	14 166	9	11	8	15
Bridges, tunnels, and elevated highways	268 024	197 937	43 053	27 032	2	2	7	2
Tunnels	38 500	31 682	3 381	3 437	9	11	21	(Z)
Bridges and elevated highways	229 523	166 255	39 672	23 595	2	2	7	2
Power and communication transmission lines, towers, and related facilities	98 855	42 857	32 164	23 833	4	7	1	8
Sewers, water mains, and related facilities	265 423	207 390	29 773	28 259	4	4	8	17
Sewers, sewer lines, septic systems, and related facilities	177 190	141 312	21 300	14 576	4	4	8	16
Water mains and related facilities	88 233	66 078	8 472	13 682	7	8	14	19
Pipeline construction other than sewer or water lines	61 159	41 895	11 691	7 572	6	6	22	2
Blast furnaces, petroleum refineries, chemical complexes, etc.	169 018	58 240	49 371	61 406	4	4	4	7
Power plants	165 573	37 238	96 749	31 585	1	2	2	3
Sewage treatment and water treatment plants	108 476	60 952	41 232	6 292	4	3	7	29
Other nonbuilding construction	274 888	158 186	53 306	63 403	7	11	2	17
Construction work, n.s.k.	404 686	(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 -----	13 124	90 667	80 532	91 493	99 227	91 417	(Z)	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	2 824	8 663	7 936	8 897	9 449	8 368	3	4	4	4	4	4	4
1522	Other residential buildings -----	236	743	664	679	818	810	15	17	17	17	18	19	
1531	Operative builders -----	338	1 059	926	1 084	1 161	1 063	10	11	12	11	10	11	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	206	2 816	2 587	2 770	3 073	2 834	12	4	3	4	4	4	4
1542	Nonresidential buildings, n.e.c. ---	522	8 031	7 168	7 933	8 852	8 171	7	2	3	2	2	2	2
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	197	4 396	2 497	4 990	5 566	4 533	11	3	4	3	3	4	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	32	1 852	1 731	1 961	2 049	1 668	5	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1623	Water, sewer, and utility lines ----	211	5 107	4 420	5 306	5 256	5 447	11	3	2	2	3	3	3
1629	Heavy construction, n.e.c. -----	415	3 939	3 566	4 051	3 882	4 255	9	3	3	3	3	3	3
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	1 634	13 060	12 346	12 944	13 841	13 108	3	2	2	2	2	2	2
1721	Painting and paper hanging -----	757	3 518	2 937	3 712	4 069	3 354	4	4	5	5	5	5	5
1731	Electrical work -----	1 053	9 211	8 958	8 782	9 738	9 364	2	2	1	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	633	3 553	2 982	3 699	3 915	3 617	4	5	5	5	5	6	
1742	Plastering, drywall, and insulation work -----	354	3 008	2 933	3 012	3 186	2 901	7	4	5	4	5	4	
1743	Terrazzo, tile, marble, and mosaic work -----	64	503	468	497	564	481	10	6	5	5	7	7	
175	Carpentry and floor work:													
1751	Carpentry -----	884	3 384	3 039	3 349	3 724	3 426	5	6	6	6	6	7	
1752	Floor laying and other floor work --	234	785	750	773	872	744	6	9	9	10	9	9	
1761	Roofing, siding, and sheet metal work -----	641	4 806	4 241	4 877	5 346	4 762	5	3	4	3	3	3	
1771	Concrete work -----	616	3 564	2 561	3 706	4 223	3 768	4	5	6	5	5	6	
1781	Water well drilling -----	105	357	338	345	384	360	8	13	15	14	13	13	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	91	1 345	1 206	1 247	1 573	1 356	14	8	8	7	10	7	
1793	Glass and glazing work -----	85	445	419	424	487	449	11	8	8	7	9	10	
1794	Excavation work -----	433	1 858	1 534	1 887	2 080	1 929	8	7	7	7	7	8	
1795	Wrecking and demolition work ----	29	141	140	160	134	129	29	32	35	25	31	38	
1796	Installing building equipment, n.e.c. -----	95	1 040	1 030	1 038	1 052	1 041	15	4	3	5	6	4	
1799	Special trade contractors, n.e.c. ---	435	3 483	3 154	3 368	3 930	3 482	8	4	4	5	6	4	

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	25.3	131.1	.247	.341	.207	.257	.014
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.1	17.7	166.3	.142	.421	.243	.026	.006
1522	Other residential buildings -----	4.6	18.3	171.7	.156	.238	.408	(S)	(S)
1531	Operative builders -----	6.1	23.9	813.6	.058	.355	.345	.006	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	17.7	28.7	179.6	.207	.267	.412	.073	.008
1542	Nonresidential buildings, n.e.c. -----	20.1	28.3	207.9	.178	.220	.465	.050	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	27.6	32.5	173.8	.231	.432	.207	.209	.030
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	70.7	41.0	191.5	.260	.438	.186	.035	.018
1623	Water, sewer, and utility lines -----	29.4	28.6	106.8	.325	.288	.097	.105	.028
1629	Heavy construction, n.e.c. -----	11.3	31.4	133.4	.280	.256	.180	.173	.024
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	10.8	28.9	118.9	.327	.361	.114	.487	.020
1721	Painting and paper hanging -----	5.6	19.1	63.5	.364	.251	.088	.593	.015
1731	Electrical work -----	11.1	27.3	98.1	.355	.385	.046	.453	.010
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.4	20.3	59.0	.392	.281	.033	.626	.008
1742	Plastering, drywall, and insulation work -----	10.2	23.8	80.9	.354	.345	.087	.756	.008
1743	Terrazzo, tile, marble, and mosaic work -----	9.5	21.6	72.1	.359	.415	.036	.807	.007
175	Carpentry and floor work:								
1751	Carpentry -----	4.6	17.5	76.7	.277	.349	.091	.579	.008
1752	Floor laying and other floor work -----	5.2	20.5	158.3	.200	.491	.121	.602	.014
1761	Roofing, siding, and sheet metal work -----	9.5	22.8	96.5	.298	.398	.063	.384	.012
1771	Concrete work -----	6.9	19.0	80.6	.280	.407	.065	.587	.012
1781	Water well drilling -----	4.4	23.9	124.6	.249	.371	.030	*.099	*.004
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	17.7	28.0	78.8	.423	.300	.061	.734	.038
1793	Glass and glazing work -----	8.2	24.9	130.7	.298	.549	.016	.946	.017
1794	Excavation work -----	5.5	22.3	108.6	.263	.308	.077	.518	.027
1795	Wrecking and demolition work -----	6.6	15.9	82.5	.261	.327	*.032	.180	.012
1796	Installing building equipment, n.e.c. -----	13.9	30.9	99.6	.396	.214	.088	.179	.020
1799	Special trade contractors, n.e.c. -----	10.2	21.1	75.6	.355	.312	.063	.357	.020

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
	CHICAGO-GARY-KENOSHA, IL-IN-WI CMSA											
15,16,17	Construction industries	17 461	168 121	5 399 233	22 184 439	16 162 846	10 365 237	6 228 715	6 021 593	279 047	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 885	11 080	233 167	1 376 443	983 916	527 016	491 491	392 527	12 220	4	4
1522	Other residential buildings	243	1 227	33 414	237 423	116 365	73 322	43 972	121 059	1 346	10	9
1531	Operative builders	548	5 255	184 956	2 318 036	1 243 261	803 724	478 592	1 074 775	9 348	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	234	3 719	137 975	904 972	414 983	257 419	187 174	489 989	6 576	5	3
1542	Nonresidential buildings, n.e.c.	856	12 245	444 751	3 659 631	1 234 914	792 052	543 363	2 424 717	21 504	3	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	201	5 458	221 418	1 017 241	780 051	478 541	349 073	237 189	25 837	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	30	1 974	86 144	374 933	273 385	189 102	84 397	101 548	6 403	4	12
1623	Water, sewer, and utility lines	239	4 256	170 523	590 859	506 731	336 813	181 403	84 128	19 833	3	2
1629	Heavy construction, n.e.c.	(S)	7 450	269 993	1 088 583	843 673	664 918	244 021	244 910	21 311	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	2 446	25 623	867 194	2 657 598	2 406 530	1 506 359	924 498	251 067	29 898	2	2
1721	Painting and paper hanging	996	5 830	161 165	375 898	343 850	263 365	82 935	32 048	6 311	4	3
1731	Electrical work	1 723	19 593	727 771	1 992 008	1 885 342	1 200 925	691 395	106 666	21 936	1	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	816	6 484	184 849	484 270	464 542	311 663	154 936	19 728	7 013	3	4
1742	Plastering, drywall, and insulation work	506	6 676	208 099	564 077	518 750	339 914	180 603	45 328	5 270	3	4
1743	Terrazzo, tile, marble, and mosaic work	157	1 237	35 821	104 163	(D)	61 701	37 746	(D)	695	5	(D)
175	Carpentry and floor work:											
1751	Carpentry	1 357	9 556	259 590	761 948	698 659	420 608	284 683	63 288	10 802	3	3
1752	Floor laying and other floor work	395	2 687	77 301	262 710	244 966	137 171	110 431	17 744	5 292	6	4
1761	Roofing, siding, and sheet metal work	946	8 807	261 216	842 191	768 463	467 465	307 554	73 728	12 749	3	4
1771	Concrete work	1 095	8 991	244 995	868 094	788 541	441 503	351 094	79 553	21 069	3	3
1781	Water well drilling	54	421	13 407	39 793	(D)	24 851	14 483	(D)	1 904	9	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	102	1 833	64 863	177 653	161 900	112 839	53 591	15 753	2 714	6	2
1793	Glass and glazing work	151	1 372	41 712	126 986	122 562	70 719	59 204	4 424	850	6	4
1794	Excavation work	351	2 531	85 334	285 719	257 998	189 803	73 018	27 721	14 145	5	4
1795	Wrecking and demolition work	(S)	1 529	32 845	89 343	(D)	70 086	23 211	(D)	3 295	3	(D)
1796	Installing building equipment, n.e.c. .	131	3 704	129 286	353 616	333 078	230 855	105 977	20 538	3 408	2	1
1799	Special trade contractors, n.e.c.	730	8 584	221 445	630 249	554 850	392 504	169 869	75 399	7 318	8	5
	Chicago, IL PMSA											
15,16,17	Construction industries	15 745	150 021	4 872 634	20 279 362	14 635 290	9 343 621	5 695 384	5 644 072	248 879	1	1
	(See appropriate State for SIC detail.)											
	Gary, IN PMSA											
15,16,17	Construction industries	1 245	14 122	405 843	1 419 834	1 163 027	783 878	397 404	256 807	22 143	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	242	965	19 155	129 484	103 319	52 627	51 967	26 165	1 830	12	15
1522	Other residential buildings	24	113	*1 526	*9 375	(D)	3 248	*2 668	(D)	-	38	(D)
1531	Operative builders	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	43	798	24 103	96 658	59 929	43 334	16 840	36 729	705	5	5

IN-14 INDIANA

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
	CHICAGO—GARY—KENOSHA, IL—IN—WI CMSA—Con.											
	Gary, IN PMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	20	323	12 980	70 237	50 281	32 495	17 959	19 956	982	13	19
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	8	141	(D)	(D)	(D)	(D)	3 204	(D)	(D)	(Z)	(D)
1629	Heavy construction, n.e.c. -----	28	1 995	(D)	(D)	(D)	(D)	(D)	(D)	5 074	2	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	174	2 470	84 115	220 483	199 049	138 389	63 377	21 434	1 925	3	3
1721	Painting and paper hanging-----	69	641	19 526	(D)	(D)	30 346	12 176	(D)	2 161	6	(D)
1731	Electrical work -----	(S)	1 686	49 996	140 661	134 673	87 849	47 549	5 988	1 238	6	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	314	10 100	31 782	30 412	22 866	7 589	(S)	(D)	16	12
1742	Plastering, drywall, and insulation work -----	30	268	7 386	17 759	17 194	(D)	6 438	(S)	(D)	13	13
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	—	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	121	568	10 606	47 902	39 887	24 508	15 758	*8 015	(S)	20	20
1752	Floor laying and other floor work ---	36	(D)	(D)	11 459	10 515	5 490	(D)	944	(D)	(D)	13
1761	Roofing, siding, and sheet metal work -----	72	721	16 753	55 518	52 735	30 806	22 063	2 783	349	10	8
1771	Concrete work -----	71	515	8 878	31 512	30 595	16 036	14 611	917	386	16	6
1781	Water well drilling -----	(S)	(D)	(D)	(D)	(D)	(S)	(D)	—	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	8	302	(D)	27 515	25 526	(D)	7 767	1 989	(D)	(Z)	(Z)
1793	Glass and glazing work -----	8	(D)	(D)	(D)	(D)	4 460	4 009	(D)	(D)	(D)	(D)
1794	Excavation work-----	30	175	4 410	(D)	(D)	10 481	4 634	(S)	1 130	8	(D)
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	(S)	(S)	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(S)	(D)
1799	Special trade contractors, n.e.c.-----	47	1 187	24 286	63 307	59 881	51 000	11 968	3 426	2 185	7	9
	Kankakee, IL PMSA											
15,16,17	Construction industries -----	(S)	1 854	58 314	220 555	175 810	123 380	56 394	44 745	5 023	8	5
	(See appropriate State for SIC detail.)											
	Kenosha, WI PMSA											
15,16,17	Construction industries -----	290	2 124	62 443	264 688	188 720	114 359	79 533	75 969	3 002	3	2
	(See appropriate State for SIC detail.)											
	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

CONSTRUCTION—GEOGRAPHIC AREA SERIES

INDIANA IN—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
	CINCINNATI—HAMILTON, OH—KY—IN CMSA—Con.											
15,16,17	Construction industries—Con.											
	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)	(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	36 313 (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
17	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)

IN-16 INDIANA

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
	CINCINNATI—HAMILTON, OH—KY—IN CMSA—Con.											
	Cincinnati, OH—KY—IN PMSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
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.)											
	INDIANAPOLIS, IN MSA											
15,16,17	Construction industries	3 519	37 349	961 491	4 200 995	3 227 731	1 870 117	1 425 913	973 263	56 951	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	588	2 612	52 998	391 603	281 257	138 373	147 862	110 345	3 550	7	8
1522	Other residential buildings	70	345	6 625	50 324	29 415	17 378	13 455	*20 909	(D)	28	29
1531	Operative builders	153	1 029	27 957	555 912	370 023	180 877	192 430	185 889	1 084	8	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	33	455	13 999	94 173	51 000	24 412	26 688	43 173	(S)	12	10
1542	Nonresidential buildings, n.e.c.	176	3 581	100 748	702 488	326 454	201 492	130 787	376 034	2 658	4	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	32	1 006	35 186	151 530	118 256	43 256	85 809	33 274	10 032	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	8	212	6 135	23 463	19 136	11 838	10 241	4 327	1 136	(Z)	(Z)
1623	Water, sewer, and utility lines	53	1 272	40 309	114 712	106 069	69 860	37 035	8 643	4 688	6	5
1629	Heavy construction, n.e.c.	(S)	836	22 337	92 291	77 017	42 867	34 459	15 274	2 421	9	5
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	382	6 041	183 728	555 024	484 357	287 765	207 752	70 667	5 312	3	2
1721	Painting and paper hanging	252	1 565	28 649	80 213	73 657	52 066	21 636	6 555	(S)	7	6
1731	Electrical work	273	4 714	128 198	368 357	348 673	214 426	142 643	19 684	4 522	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	188	1 332	27 738	67 640	64 704	44 802	20 248	2 936	1 618	7	6
1742	Plastering, drywall, and insulation work	117	1 900	44 526	124 501	111 454	71 590	40 050	13 047	1 025	7	5
1743	Terrazzo, tile, marble, and mosaic work	17	381	7 842	21 051	20 226	11 308	8 976	825	126	3	2
175	Carpentry and floor work:											
1751	Carpentry	273	1 598	30 459	96 600	90 602	59 145	33 589	5 999	1 543	9	8
1752	Floor laying and other floor work	82	623	14 570	85 150	73 008	34 577	45 416	12 142	361	9	14
1761	Roofing, siding, and sheet metal work	176	2 381	56 181	195 034	184 838	114 255	72 639	10 196	2 100	5	4
1771	Concrete work	167	1 571	33 368	120 317	108 399	62 654	47 049	11 918	3 119	8	6
1781	Water well drilling	13	51	1 138	(D)	(D)	3 267	(D)	(D)	86	14	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	21	394	9 485	26 225	24 180	17 441	6 791	*2 045	504	24	21
1793	Glass and glazing work	38	383	9 469	32 851	32 539	16 172	17 229	311	(S)	15	11
1794	Excavation work	134	757	19 513	79 605	73 915	45 794	5 690	4 172	10	10	10
1795	Wrecking and demolition work	(S)	(S)	(S)	(D)	(D)	(S)	(D)	(D)	(D)	(S)	(D)
1796	Installing building equipment, n.e.c. ..	54	516	18 011	48 064	41 521	33 422	9 679	6 543	2 016	10	9
1799	Special trade contractors, n.e.c.	(S)	1 788	42 218	117 911	111 172	70 819	42 638	6 739	3 760	7	8

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
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
17	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

Michigan

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Michigan. 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 66,190 establishments in this State operating in the construction industries. These establishments accounted for \$17.9 billion in total dollar value of business done.

Most of the 66,190 million construction establishments were small. Of the total, 45,744 million were nonemployers, and over half of the employer establishments had less than 5 employees. The 7,491 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 78 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$16.4 billion in total dollar value of business done. Of this amount, \$16.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$4.0 billion, leaving net value of construction work of \$12.0 billion. In addition, these establishments paid out \$5.8 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 \$7.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 20,446 establishments with total employment averaging 141,595 during the year. Total payroll for 1992 was \$3.7 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 45,744 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.5 billion. Most of these establishments, about 80 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)

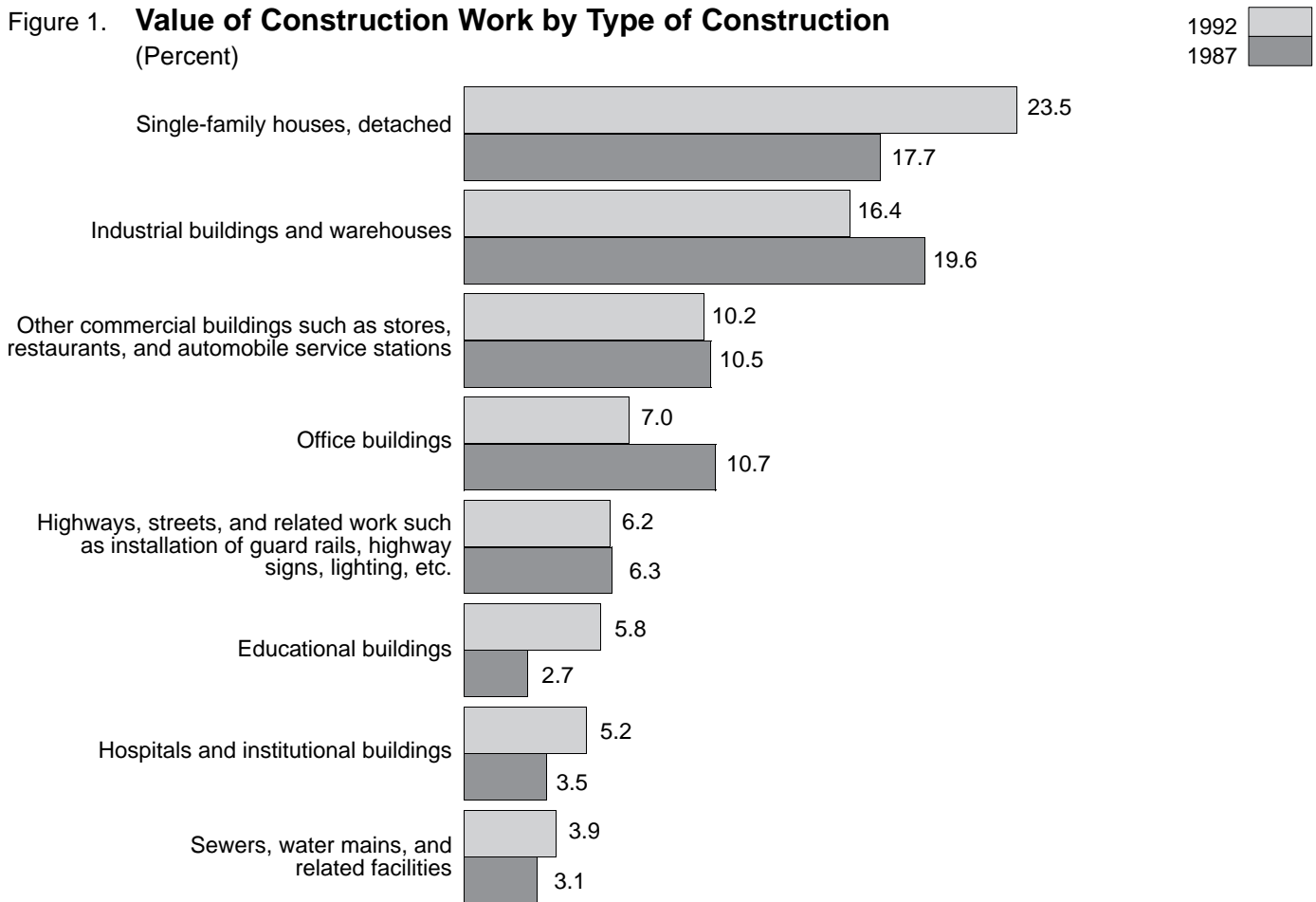


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

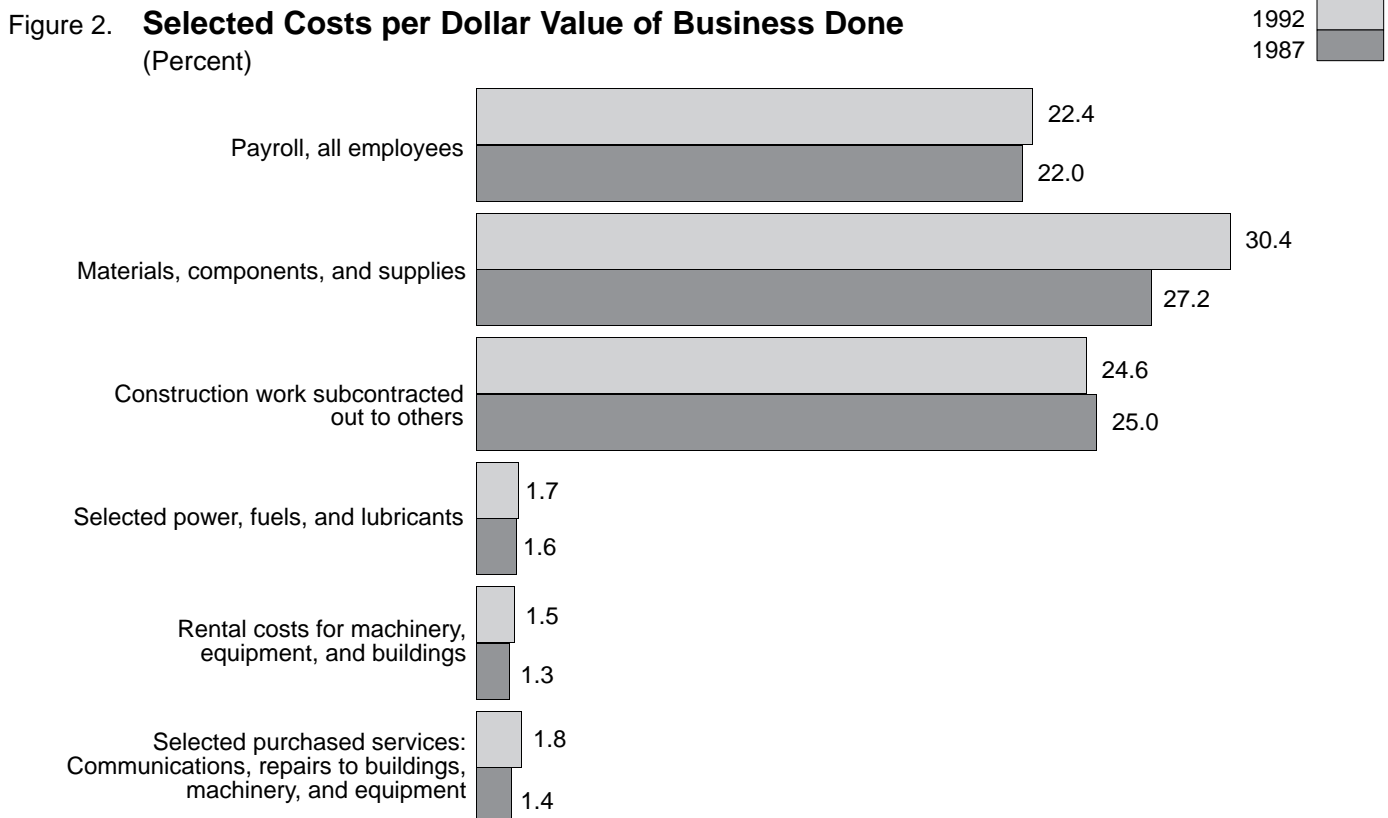


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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 -----	66 190	51 590	141 595	17 853 253	45 744	44 115	1 457 456	20 446	7 475	141 595	16 395 797	1	1	
15	Building construction—General contractors and operative builders ----	14 823	10 060	33 463	6 905 622	8 680	7 670	604 963	6 143	2 390	33 463	6 300 659	2	2	
16	Heavy construction other than building construction—contractors -----	1 718	730	16 457	2 237 771	549	489	18 194	1 169	241	16 457	2 219 577	2	1	
17	Special trade contractors -----	49 649	40 800	91 676	8 709 861	36 515	35 956	834 299	13 134	4 844	91 676	7 875 562	1	1	
1711	Plumbing, heating, and air-conditioning --	5 549	3 533	19 464	2 100 498	2 908	2 781	92 285	2 641	752	19 464	2 008 213	2	1	
1731	Electrical work -----	4 431	3 022	16 327	1 440 840	2 591	2 467	52 621	1 840	555	16 327	1 388 219	2	1	
1987															
15, 16, 17	Construction industries ² -----	61 599	48 072	140 085	17 255 267	44 553	43 773	2 042 889	17 046	4 299	140 085	15 212 378	1	1	
15	Building construction—General contractors and operative builders ----	14 326	10 066	33 107	6 627 818	9 620	8 912	742 396	4 706	1 154	33 107	5 885 422	1	2	
16	Heavy construction other than building construction—contractors -----	1 467	518	16 676	2 084 690	426	382	22 290	1 041	136	16 676	2 062 400	2	1	
17	Special trade contractors -----	44 803	36 483	89 813	8 217 190	33 621	33 495	1 023 365	11 182	2 988	89 813	7 193 825	1	1	
1711	Plumbing, heating, and air-conditioning --	5 087	3 281	19 591	1 924 368	2 812	2 757	128 491	2 275	524	19 591	1 795 877	2	1	
1731	Electrical work -----	3 917	2 643	15 096	1 320 624	2 349	2 298	74 565	1 568	345	15 096	1 246 059	2	1	

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

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

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

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

SIC code	Industry	1992							
		Number of 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	20 446	141 595	107 740	3 666 125	2 600 447	16 048 438	12 018 699	7 109 697
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4 331	15 815	11 684	283 703	192 895	1 724 596	1 221 174	611 570
1522	Other residential buildings	197	1 342	924	27 306	16 854	195 818	120 280	65 905
1531	Operative builders	515	2 290	972	78 257	22 733	805 423	496 069	279 384
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	293	3 830	2 798	115 764	73 350	850 305	413 525	249 387
1542	Nonresidential buildings, n.e.c.	808	10 186	6 853	315 543	185 798	2 564 043	998 785	464 168
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	309	6 279	5 168	196 185	157 227	971 986	770 751	429 296
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	29	607	495	21 689	16 379	108 551	75 805	42 002
1623	Water, sewer, and utility lines	363	6 034	4 954	197 119	146 809	739 506	641 658	413 037
1629	Heavy construction, n.e.c.	468	3 537	2 844	95 566	72 749	356 851	300 768	208 293
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	2 641	19 464	14 150	566 541	397 611	1 966 036	1 715 611	1 016 885
1721	Painting and paper hanging	926	4 507	3 668	91 685	71 233	263 413	244 661	175 093
1731	Electrical work	1 840	16 327	12 394	504 834	370 821	1 374 604	1 315 622	857 420
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	882	4 818	4 302	107 334	90 444	338 039	320 493	207 187
1742	Plastering, drywall, and insulation work	592	4 684	3 881	109 857	83 875	355 881	302 056	184 438
1743	Terrazzo, tile, marble, and mosaic work	141	636	499	15 748	11 738	47 702	45 906	25 752
175	Carpentry and floor work:								
1751	Carpentry	1 628	7 760	6 226	149 838	113 404	564 889	490 858	299 510
1752	Floor laying and other floor work	266	1 214	907	29 678	20 124	126 796	111 445	54 133
1761	Roofing, siding, and sheet metal work	872	7 150	5 509	163 009	114 689	581 409	539 923	295 295
1771	Concrete work	1 159	7 126	5 699	164 427	124 410	638 084	579 033	333 438
1781	Water well drilling	268	1 218	932	24 866	18 654	103 098	101 724	60 667
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	160	2 301	1 816	68 703	52 120	241 336	210 932	137 441
1793	Glass and glazing work	143	969	628	25 501	16 337	89 809	84 441	44 240
1794	Excavation work	619	3 142	2 491	82 808	64 356	296 862	264 466	187 604
1795	Wrecking and demolition work	55	682	530	21 935	14 518	90 706	76 410	63 137
1796	Installing building equipment, n.e.c.	160	4 017	3 236	82 270	61 784	248 497	222 685	171 430
1799	Special trade contractors, n.e.c.	783	5 660	4 179	125 960	89 535	404 196	353 618	232 986

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	
5 256 361	4 029 739	4 655 280	238 464	274 924	2 558 404	140 085	14 654 738	6 915 232	1	1	3	15, 16, 17 15
638 441 56 686	503 423 75 538	67 088 *28 660	12 646 1 393	21 609 830	143 010 7 516	12 298 1 802	1 211 838 213 441	441 816 74 627	3 11	4 12	11 35	152 1522
250 329	309 354	15 713	6 187	3 677	38 150	2 244	732 842	194 030	7	8	13	1531
183 649 610 787	436 779 1 565 259	90 892 105 312	8 816 16 634	4 387 19 192	68 134 163 034	5 925 10 838	1 140 377 2 216 361	352 453 578 151	8 3	5 3	10 8	154 1541 1542
368 623	201 236	219 077	29 901	33 372	412 711	5 636	859 953	423 737	3	2	4	1611
34 130 236 517 99 766	32 746 97 848 56 083	15 509 145 705 70 612	1 164 23 959 16 739	3 606 36 881 18 031	32 015 326 045 138 228	675 4 811 5 554	112 063 505 274 539 054	39 162 282 096 331 087	5 3 5	2 3 4	6 12 11	162 1622 1623 1629
740 903	250 425	961 007	25 745	27 278	226 209	19 591	1 772 975	945 744	2	1	10	1711
72 096 471 817	18 751 58 982	129 824 774 119	5 178 18 755	3 833 24 073	44 825 177 334	5 662 15 096	304 613 1 228 011	202 149 785 131	5 2	5 1	13 7	1721 1731
115 848 122 091 20 317	17 546 53 825 1 796	231 904 258 325 28 643	4 369 4 257 342	5 478 2 356 *1 058	59 742 30 206 5 706	4 290 4 741 798	265 692 337 596 58 700	177 002 182 489 34 610	4 4 11	5 3 9	13 12 73	174 1741 1742 1743
198 797 59 206	74 032 15 351	257 088 80 319	5 725 2 016	4 802 1 464	38 987 10 219	6 736 1 018	404 709 88 361	221 256 45 616	4 8	4 5	18 10	175 1751 1752
246 716	41 486	219 476	6 958	11 703	97 085	7 623	608 683	333 035	4	5	17	1761
262 397	59 051	338 297	11 748	14 949	164 034	6 748	582 253	332 759	3	3	10	1771
41 153	1 374	15 807	1 270	2 764	49 303	778	66 649	34 167	10	7	21	1781
77 635 48 336 90 674 14 590 62 587 132 270	30 404 5 368 32 396 14 296 25 812 50 577	122 313 62 581 150 593 40 987 5 077 61 902 163 530	4 193 1 649 11 178 5 077 5 032 7 534	3 076 821 17 198 1 714 2 150 8 621	30 691 10 429 164 898 21 337 42 930 55 625	2 262 1 324 3 391 654 2 933 6 168	219 687 119 227 312 220 81 751 263 255 361 966	143 815 65 421 210 336 67 723 170 459 223 339	4 7 5 4 3 4	7 5 6 5 2 4	21 26 19 12 5 12	1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

MICHIGAN MI-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	20 446	17 046	13 953	16 354	(Z)	1	1	2
Proprietors and working partners.....	7 475	4 299	4 491	9 199	2	4	3	3
All employees**	141 595	140 085	105 675	128 198	1	1	1	1
Construction workers:								
March.....	88 548	92 489	70 197	83 053	1	1	1	1
May.....	110 000	112 039	85 322	112 002	1	1	1	1
August.....	122 867	123 768	92 442	122 138	1	1	1	1
November.....	109 543	113 518	82 881	112 054	1	1	1	1
Average.....	107 740	110 453	84 331	107 420	1	1	1	1
Other employees:								
March.....	32 812	28 228	20 995	19 408	1	1	1	1
May.....	33 562	29 549	(NA)	(NA)	1	1	(NA)	(NA)
August.....	34 553	30 525	(NA)	(NA)	1	1	(NA)	(NA)
November.....	34 495	30 233	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	33 856	29 634	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	3 666 125	3 340 818	2 178 928	1 923 025	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	2 600 447	2 425 766	1 663 174	1 537 235	(Z)	(Z)	1	(Z)
Payroll, other employees	1 065 678	915 051	515 754	385 791	1	1	1	1
First-quarter payroll, all employees	725 628	698 897	480 970	353 183	1	1	1	(Z)
Fringe benefits, all employees	1 013 444	846 861	366 886	407 629	1	1	1	(Z)
Legally required expenditures.....	620 839	546 615	277 744	218 863	1	1	1	1
Voluntary expenditures.....	392 605	300 246	89 142	188 766	1	1	1	(Z)
Dollar value of business done	16 395 797	15 212 378	9 301 645	7 759 714	1	1	(Z)	1
Value of construction work	16 048 438	14 654 738	8 991 253	7 549 535	1	1	(Z)	1
Value of construction work subcontracted in from others	4 655 280	3 934 452	1 794 525	1 852 362	2	1	1	1
Other business receipts	347 360	437 070	293 619	203 179	4	2	1	2
Net value of construction†	12 018 699	10 851 030	6 174 978	5 608 217	1	1	1	1
Value added††	7 109 697	6 915 232	4 182 301	3 378 784	1	1	1	1
Selected costs	9 286 100	8 176 576	5 102 570	4 326 389	1	1	1	1
Materials, components, and supplies	4 979 743	4 132 394	2 115 457	2 248 550	1	1	1	1
Construction work subcontracted out to others	4 029 739	3 803 707	2 816 275	1 941 319	1	2	1	1
Selected power, fuels, and lubricants.....	276 618	240 474	170 838	136 520	1	1	1	1
Electricity.....	42 959	27 627	20 067	14 087	2	1	2	2
Natural gas.....	20 301	15 508	13 091	11 199	2	2	2	2
Gasoline and diesel fuel	199 197	179 932	124 833	94 459	1	1	1	1
On highway use.....	144 304	126 771	(NA)	(NA)	2	1	(NA)	(NA)
Off highway use.....	54 893	53 160	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases.....	14 161	17 406	12 845	16 779	3	2	2	2
Rental cost for machinery, equipment, and buildings	238 464	194 796	108 006	100 294	2	2	1	1
For machinery and equipment	147 452	131 884	77 430	79 995	3	3	1	1
For buildings.....	91 012	62 912	30 575	20 299	3	2	2	1
Selected purchased services	293 043	216 568	122 675	127 338	2	1	1	1
Communication services	88 345	62 719	36 716	31 237	3	2	2	1
Repairs to buildings and other structures	17 801	13 755	8 296	7 288	6	3	2	3
Repairs to machinery and equipment	186 896	140 093	77 662	88 813	2	2	2	1
Ownership of construction projects:								
Value of construction work	16 048 438	14 654 738	8 991 253	7 549 535	1	1	(Z)	1
Government owned	3 336 922	2 318 567	1 501 923	1 427 024	3	3	2	1
Federal	392 447	549 367	(NA)	(NA)	5	3	(NA)	(NA)
State and local	2 944 475	1 769 199	(NA)	(NA)	2	3	(NA)	(NA)
Privately owned	12 711 516	12 336 171	7 489 329	6 122 511	1	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	2 391 965	1 646 876	2	2
Capital expenditures, other than land	274 924	278 704	3	2
New	202 833	228 858	3	2
Used	72 091	49 846	6	5
Retirements and disposition of depreciable assets	108 485	76 400	3	6
End-of-year gross book value of depreciable assets	2 558 404	1 849 180	2	2
Depreciation charges during year	278 151	221 619	2	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	276 580	292 925	5	5
Capital expenditures, other than land	18 171	34 895	8	9
New buildings and other structures	12 696	27 912	9	10
Used buildings and other structures	5 475	6 983	19	10
Retirements and disposition of depreciable assets	5 500	10 908	11	21
End-of-year gross book value of depreciable assets	289 251	316 913	4	5
Depreciation charges during year	24 390	32 271	5	14
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	2 115 385	1 353 951	2	2
Capital expenditures, other than land	256 753	243 808	3	2
New machinery and equipment, including automobiles and trucks	190 137	200 945	3	2
New automobiles and trucks, intended primarily for highway use	77 188	88 866	6	3
Used machinery and equipment, including automobiles and trucks	66 616	42 863	6	6
Retirements and disposition of depreciable assets	102 985	65 492	4	5
End-of-year gross book value of depreciable assets	2 269 153	1 532 267	2	2
Depreciation charges during year	253 761	189 348	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 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	20 446	(Z)
Value of construction work	16 048 438	1
Establishments with inventories:		
Number	6 826	2
Value of construction work	7 189 023	1
Inventories ¹ :		
End of 1992, materials and supplies	260 797	5
End of 1991, materials and supplies	235 357	5
Establishments with no inventories:		
Number	7 131	2
Value of construction work	5 629 051	1
Establishments not reporting:		
Number	6 489	2
Value of construction work	3 230 365	1

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments	20 446	12 956	4 182	2 027	941	236	88	12	5	—
All employees**	141 595	25 907	26 736	26 479	27 259	15 519	12 489	3 897	3 309	—
Payroll, all employees	3 666 125	453 622	556 937	675 285	845 950	513 472	412 287	115 236	93 337	—
Dollar value of business done	16 395 797	2 557 885	2 565 714	2 778 553	3 580 153	2 113 623	1 705 485	409 685	684 700	—
Value of construction work	16 048 438	2 518 026	2 515 805	2 719 349	3 475 229	2 056 513	1 673 848	405 267	684 400	—
Net value of construction work†	12 018 699	2 036 212	1 992 519	2 140 000	2 622 693	1 466 285	1 106 319	654 671	(D)	—
Value added††	7 109 697	1 132 548	1 148 875	1 258 098	1 611 567	935 117	732 432	291 059	(D)	—
Cost of materials, components, supplies, and fuels	5 256 361	943 522	893 553	941 106	1 116 049	588 277	405 524	107 128	261 202	—
Cost of construction work subcontracted out to others	4 029 739	481 814	523 286	579 349	852 537	590 228	567 529	434 996	(D)	—
Rental cost for machinery, equipment, and buildings	238 464	29 305	40 464	44 248	61 592	28 836	24 672	4 981	4 366	—
Capital expenditures, other than land	274 924	49 280	44 256	47 471	63 022	33 307	27 776	9 811	(D)	—
End-of-year gross book value of depreciable assets	2 558 404	415 230	358 008	430 420	588 275	324 477	322 314	119 679	(D)	—
1987										
All employees**	140 085	20 392	24 915	26 550	29 313	16 476	13 445	5 346	3 644	(D)
Value of construction work	14 654 738	1 943 208	2 120 489	2 565 322	3 251 336	2 136 597	1 609 550	1 028 234	(D)	(D)
Value added††	6 915 232	832 440	1 013 910	1 218 404	1 596 022	957 069	805 696	364 448	127 241	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	3	3	2	(Z)	(Z)	(Z)	(Z)	—
Net value of construction work†	1	3	4	3	1	(Z)	(Z)	(Z)	(D)	—
Capital expenditures, other than land	3	9	10	8	2	(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	20 446	(S)	(S)	2 702	5 915	3 682	2 684	1 727	676	310	210
All employees**	141 595	(S)	(S)	4 734	17 127	18 222	20 956	24 840	17 248	13 765	22 374
Payroll, all employees	3 666 125	(S)	(S)	56 513	256 605	334 943	465 343	661 027	537 217	478 518	854 225
Dollar value of business done	16 395 797	(S)	(S)	199 295	967 757	1 283 400	1 875 006	2 627 009	2 355 608	2 105 842	4 912 165
Value of construction work	16 048 438	(S)	(S)	198 162	956 452	1 274 259	1 827 785	2 573 223	2 297 466	2 055 230	4 796 643
Net value of construction work†	12 018 699	(S)	(S)	184 355	877 958	1 149 118	1 555 495	2 104 280	1 757 703	1 537 613	2 787 629
Value added††	7 109 697	(S)	(S)	110 831	520 944	657 760	911 063	1 276 568	1 040 847	913 696	1 638 929
Cost of materials, components, supplies, and fuels	5 256 361	(S)	(S)	74 657	368 320	500 499	691 652	881 499	774 999	674 529	1 264 222
Cost of construction work subcontracted out to others	4 029 739	(S)	(S)	(S)	78 494	125 141	272 290	468 943	539 763	517 617	2 009 013
Rental cost for machinery, equipment, and buildings	238 464	(S)	(S)	3 350	11 800	18 585	37 176	42 508	31 440	35 740	57 269
Capital expenditures, other than land	274 924	(S)	(S)	(S)	21 412	28 087	41 851	44 982	35 152	37 919	59 606
End-of-year gross book value of depreciable assets	2 558 404	(S)	(S)	(S)	177 182	225 495	358 028	405 166	329 348	332 520	677 980
1987											
All employees**	140 085	(S)	(S)	(S)	15 358	15 848	19 129	25 103	17 345	16 306	24 077
Value of construction work	14 654 738	(S)	(S)	(S)	780 541	1 006 904	1 564 362	2 438 455	2 125 621	2 284 389	4 222 289
Value added††	6 915 232	(S)	(S)	(S)	435 458	552 815	783 139	1 245 194	1 007 249	1 051 277	1 705 652
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	6	4	4	4	3	1	1	(Z)
Net value of construction work†	1	(S)	(S)	5	3	4	4	3	3	2	(Z)
Capital expenditures, other than land	3	(S)	(S)	(S)	11	12	12	7	4	4	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	16 048 438	9 019 682	4 342 310	2 133 596	1	1	1	2
Building construction	12 514 641	7 414 072	3 494 867	1 605 702	1	1	1	2
Single-family houses	4 204 601	2 764 723	946 314	493 564	2	3	4	4
Single-family houses, detached	3 768 935	2 455 886	888 975	424 075	2	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	435 666	308 837	57 339	69 489	6	7	11	8
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	432 241	295 504	69 631	67 106	6	7	10	6
Other residential buildings, including hotels, motels, and tourist cabins.....	114 528	54 048	43 854	16 627	4	6	4	9
Office buildings	1 127 338	689 139	297 610	140 590	2	2	4	3
Other commercial buildings such as stores, restaurants, and automobile service stations	1 638 468	875 342	518 059	245 066	2	2	3	4
Industrial buildings and warehouses	2 631 992	1 445 187	780 427	406 378	1	2	2	3
Industrial buildings	2 347 764	1 262 977	719 374	365 413	1	2	2	3
Warehouses	284 228	182 210	61 053	40 965	5	7	6	10
Religious buildings	305 195	185 919	83 468	35 808	4	3	14	7
Educational buildings	934 412	484 299	351 450	98 662	2	2	4	8
Hospitals and institutional buildings	836 585	444 321	328 768	63 496	1	2	2	7
Amusement, social, and recreational buildings, indoors	85 287	46 787	28 029	10 471	8	12	5	37
Other nonresidential buildings	203 993	128 804	47 256	27 933	5	6	6	14
Nonbuilding construction.....	2 980 948	1 605 610	847 444	527 894	1	2	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	995 886	373 092	433 773	189 021	1	2	2	2
Private driveways and parking areas	172 681	82 442	51 794	38 446	8	9	9	11
Bridges, tunnels, and elevated highways	138 563	71 522	44 014	23 027	2	(Z)	(Z)	12
Power and communication transmission lines, towers, and related facilities.....	251 781	145 793	49 046	56 942	5	8	7	4
Sewers, water mains, and related facilities.....	630 265	489 325	92 177	48 763	4	4	11	9
Sewers, sewer lines, septic systems, and related facilities	399 144	317 032	55 137	26 975	4	4	5	14
Water mains and related facilities.....	231 121	172 293	37 040	21 788	6	5	25	12
Pipeline construction other than sewer or water lines	95 238	65 834	20 369	9 036	4	3	9	11
Blast furnaces, petroleum refineries, chemical complexes, etc.	128 432	54 300	41 324	32 808	3	2	4	7
Power plants	101 818	35 962	16 012	49 844	2	(Z)	3	3
Sewage treatment and water treatment plants	137 740	96 148	25 105	16 487	4	4	11	7
Other nonbuilding construction	328 544	191 193	73 830	63 521	5	6	3	10
Construction work, n.s.k.....	552 849	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1987								
Value of construction work	14 654 738	8 969 264	3 404 909	1 658 941	1	1	1	1
Building construction	11 273 020	7 393 548	2 650 290	1 229 183	1	1	2	2
Single-family houses	3 039 231	2 105 908	615 798	317 524	3	4	5	4
Single-family houses, detached	2 591 221	1 736 085	568 944	286 192	3	4	5	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	448 010	369 823	46 854	31 332	9	11	10	10
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	472 589	354 269	56 044	62 275	4	5	8	7
Other residential buildings, including hotels, motels, and tourist cabins.....	345 017	257 556	53 586	33 875	3	4	7	7
Office buildings	1 569 254	1 133 933	279 581	155 739	2	3	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations	1 533 940	934 483	417 882	181 574	2	2	3	3
Industrial buildings and warehouses	2 876 196	1 805 341	749 882	320 972	1	1	3	2
Industrial buildings	2 567 392	1 569 346	701 427	296 618	1	2	3	2
Warehouses	308 803	235 995	48 454	24 353	4	5	5	5
Religious buildings	151 586	77 263	48 105	26 216	4	6	5	4
Educational buildings	399 859	166 931	177 328	55 600	4	3	7	6
Hospitals and institutional buildings	507 465	287 509	175 615	44 340	2	2	2	4
Amusement, social, and recreational buildings, indoors	175 650	150 325	17 916	7 408	1	1	4	8
Other nonresidential buildings	202 233	120 030	58 553	23 660	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction.....	2 760 095	1 575 717	754 619	429 759	1	2	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	926 238	371 462	413 596	141 179	2	4	2	5
Private driveways and parking areas	123 043	55 868	35 546	31 627	8	10	8	15
Bridges, tunnels, and elevated highways	122 967	80 595	34 081	8 290	3	3	5	23
Power and communication transmission lines, towers, and related facilities.....	164 928	103 379	37 506	24 042	6	5	11	7
Sewers, water mains, and related facilities.....	451 483	346 840	58 787	45 855	4	4	7	9
Sewers, sewer lines, septic systems, and related facilities	269 039	206 398	39 269	23 371	3	3	10	12
Water mains and related facilities.....	182 443	140 442	19 517	22 483	6	6	6	12
Pipeline construction other than sewer or water lines	65 226	43 501	13 331	8 392	3	3	7	8
Blast furnaces, petroleum refineries, chemical complexes, etc.	164 511	76 526	37 645	50 338	2	2	3	3
Power plants	122 059	36 073	33 578	52 407	1	1	(Z)	1
Sewage treatment and water treatment plants	124 963	84 814	37 360	2 788	6	8	5	18
Other nonbuilding construction	494 677	376 659	53 189	64 841	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.....	621 622	(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 -----	20 446	107 740	88 548	110 000	122 867	109 543	(Z)	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	4 331	11 684	10 005	12 293	13 155	11 282	2	3	3	3	3	3	3
1522	Other residential buildings -----	197	924	904	975	1 029	790	13	12	11	11	13	12	12
1531	Operative builders -----	515	972	858	1 006	1 077	945	8	11	11	10	10	11	11
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	293	2 798	2 472	2 776	3 078	2 868	11	7	5	7	9	9	9
1542	Nonresidential buildings, n.e.c. ---	808	6 853	5 565	6 786	7 829	7 231	6	3	3	3	3	3	3
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	309	5 168	2 135	5 959	7 207	5 372	7	3	4	3	3	3	3
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	29	495	240	508	653	578	20	6	4	11	3	3	4
1623	Water, sewer, and utility lines -----	363	4 954	3 321	5 106	5 812	5 577	8	3	4	3	3	3	3
1629	Heavy construction, n.e.c. -----	468	2 844	1 832	3 092	3 503	2 949	8	5	6	5	5	5	5
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	2 641	14 150	13 027	14 015	15 711	13 847	2	2	2	2	2	2	2
1721	Painting and paper hanging -----	926	3 668	2 975	3 742	4 428	3 526	3	6	6	5	6	7	7
1731	Electrical work -----	1 840	12 394	11 866	11 972	13 229	12 511	2	2	2	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	882	4 302	3 498	4 450	4 817	4 444	4	4	5	4	4	4	4
1742	Plastering, drywall, and insulation work -----	592	3 881	3 827	3 869	4 115	3 713	5	4	4	5	5	5	5
1743	Terrazzo, tile, marble, and mosaic work -----	141	499	496	512	530	458	10	10	10	9	11	11	11
175	Carpentry and floor work:													
1751	Carpentry -----	1 628	6 226	5 593	6 086	6 398	6 825	3	4	4	4	4	4	3
1752	Floor laying and other floor work --	266	907	861	869	1 018	879	6	9	9	9	9	9	9
1761	Roofing, siding, and sheet metal work -----	872	5 509	4 320	5 412	6 637	5 668	4	4	5	4	4	4	4
1771	Concrete work -----	1 159	5 699	3 045	6 380	7 227	6 142	4	3	5	4	3	3	3
1781	Water well drilling -----	268	932	733	1 001	1 020	974	8	10	10	10	10	10	10
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	160	1 816	1 565	1 840	2 064	1 797	10	4	5	4	4	4	4
1793	Glass and glazing work -----	143	628	593	624	636	661	10	7	7	7	6	7	7
1794	Excavation work -----	619	2 491	1 676	2 844	2 974	2 468	6	5	7	5	5	5	5
1795	Wrecking and demolition work -----	55	530	499	566	564	491	14	3	4	3	4	4	4
1796	Installing building equipment, n.e.c. -----	160	3 236	3 271	2 833	3 408	3 433	11	3	2	2	6	3	3
1799	Special trade contractors, n.e.c. ---	783	4 179	3 371	4 484	4 748	4 113	6	4	4	4	4	4	4

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 -----	6.9	25.9	149.0	.228	.328	.251	.290	.015
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	17.9	147.6	.165	.370	.292	.039	.007
1522	Other residential buildings -----	6.8	20.3	211.9	.139	.289	.386	.146	.007
1531	Operative builders -----	4.5	34.2	828.6	.097	.311	.384	.020	.008
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	13.1	30.2	303.9	.136	.216	.514	.107	.010
1542	Nonresidential buildings, n.e.c. -----	12.6	31.0	374.1	.123	.238	.610	.041	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	20.3	31.2	188.1	.202	.379	.207	.225	.031
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	21.1	35.7	219.3	.200	.314	.302	.143	.011
1623	Water, sewer, and utility lines -----	16.6	32.7	149.3	.267	.320	.132	.197	.032
1629	Heavy construction, n.e.c. -----	7.6	27.0	125.5	.268	.280	.157	.198	.047
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.4	29.1	138.9	.288	.377	.127	.489	.013
1721	Painting and paper hanging -----	4.9	20.3	71.8	.348	.274	.071	.493	.020
1731	Electrical work -----	8.9	30.9	110.9	.367	.343	.043	.563	.014
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.5	22.3	78.6	.318	.343	.052	.686	.013
1742	Plastering, drywall, and insulation work -----	7.9	23.5	91.7	.309	.343	.151	.726	.012
1743	Terrazzo, tile, marble, and mosaic work -----	4.5	24.8	95.6	.330	.426	.038	.600	.007
175	Carpentry and floor work:								
1751	Carpentry -----	4.8	19.3	90.7	.265	.352	.131	.455	.010
1752	Floor laying and other floor work -----	4.6	24.4	139.8	.234	.467	.121	.633	.016
1761	Roofing, siding, and sheet metal work -----	8.2	22.8	105.5	.280	.424	.071	.377	.012
1771	Concrete work -----	6.2	23.1	112.0	.258	.411	.093	.530	.018
1781	Water well drilling -----	4.5	20.4	110.6	.241	.399	.013	.153	.012
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	14.4	29.9	132.9	.285	.322	.126	.507	.017
1793	Glass and glazing work -----	6.8	26.3	143.0	.284	.538	.060	.697	.018
1794	Excavation work -----	5.1	26.4	119.2	.279	.305	.109	.507	.038
1795	Wrecking and demolition work -----	12.5	32.2	171.1	.242	.161	.158	.452	.056
1796	Installing building equipment, n.e.c. -----	25.2	20.5	76.8	.331	.252	.104	.249	.020
1799	Special trade contractors, n.e.c. -----	7.2	22.3	96.7	.312	.327	.125	.405	.019

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
DETROIT-ANN ARBOR-FLINT, MI CMSA												
15,16,17	Construction industries	10 438	76 874	2 131 851	9 476 778	6 939 844	4 087 119	3 032 361	2 536 934	133 165	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 817	7 017	140 106	842 190	567 655	285 846	299 199	274 535	9 346	5	5
1522	Other residential buildings	119	738	12 942	98 489	56 038	28 246	29 881	42 451	661	17	16
1531	Operative builders	346	1 591	58 929	654 066	396 401	232 552	184 111	257 665	2 497	7	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	137	1 578	55 366	485 448	230 342	148 159	89 900	255 106	1 789	10	8
1542	Nonresidential buildings, n.e.c.	407	5 325	179 200	1 539 482	560 901	199 601	408 372	978 582	10 709	3	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	123	3 686	120 536	595 389	469 559	278 245	197 589	125 830	16 194	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	14	372	13 926	72 743	44 982	20 973	24 023	27 761	1 641	1	(Z)
1623	Water, sewer, and utility lines	217	2 829	97 751	384 514	327 848	199 102	129 599	56 666	14 425	5	5
1629	Heavy construction, n.e.c.	(S)	1 172	32 811	113 522	97 907	63 344	34 761	15 616	(S)	11	7
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	1 385	10 987	342 020	1 179 854	1 008 582	613 320	410 766	171 272	14 883	2	2
1721	Painting and paper hanging.....	524	2 435	54 732	157 267	143 188	103 692	40 669	14 078	2 390	6	3
1731	Electrical work	1 023	8 687	288 332	774 163	740 509	479 007	268 805	33 654	10 320	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	447	2 334	54 997	173 175	165 447	111 208	54 924	7 728	2 849	6	8
1742	Plastering, drywall, and insulation work	285	2 519	63 686	192 816	167 989	102 531	68 008	24 827	1 286	6	4
1743	Terrazzo, tile, marble, and mosaic work	122	496	12 579	37 746	37 014	21 133	15 890	*733	(D)	11	11
175	Carpentry and floor work:											
1751	Carpentry	974	5 400	107 140	389 186	338 067	209 897	131 995	51 119	(S)	4	5
1752	Floor laying and other floor work ...	140	746	18 894	87 013	74 526	34 071	42 001	12 487	949	10	5
1761	Roofing, siding, and sheet metal work	480	4 206	103 447	378 815	343 823	187 364	157 334	34 992	7 372	5	8
1771	Concrete work	621	4 100	101 750	391 466	348 515	204 182	153 151	42 951	6 395	4	3
1781	Water well drilling	115	428	8 250	33 506	32 932	19 713	13 247	574	*1 124	16	13
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	85	1 674	54 027	194 112	174 005	114 204	62 305	20 107	2 602	4	8
1793	Glass and glazing work	95	687	19 210	67 436	62 578	34 188	32 999	4 858	(D)	10	7
1794	Excavation work	274	1 544	48 409	159 291	137 413	98 524	49 738	21 878	10 129	7	8
1795	Wrecking and demolition work	34	339	10 695	55 191	43 924	35 596	8 773	11 267	(D)	7	8
1796	Installing building equipment, n.e.c. ...	86	2 745	60 084	187 097	164 998	126 562	47 651	22 099	1 384	2	2
1799	Special trade contractors, n.e.c.	410	3 240	72 030	232 802	204 702	135 859	76 668	28 100	6 253	6	6
Ann Arbor, MI PMSA												
15,16,17	Construction industries	1 233	7 451	191 846	793 186	597 121	374 725	241 587	196 065	15 867	3	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	231	810	15 281	90 218	63 138	34 125	30 833	27 080	1 132	11	12
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(D)	(S)	(S)
1531	Operative builders	39	148	5 927	64 188	41 227	23 971	21 502	22 961	(D)	23	22
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	3 964	47 045	(D)	7 609	(S)	(D)	191	(S)	(D)
1542	Nonresidential buildings, n.e.c.	(S)	371	10 492	78 777	28 598	20 811	10 317	50 178	407	6	9
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	10	125	4 449	20 113	15 360	6 651	10 269	4 753	539	1	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	3	43	1 239	4 495	3 737	2 433	1 304	758	(D)	(Z)	(Z)
1623	Water, sewer, and utility lines	32	253	8 459	46 760	(D)	19 459	(D)	(D)	1 798	23	(D)
1629	Heavy construction, n.e.c.	(S)	144	3 727	14 222	(D)	8 684	4 203	(D)	(D)	7	(D)

MI-14 MICHIGAN

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
	DETROIT-ANN ARBOR-FLINT, MI CMSA—Con.											
	Ann Arbor, MI PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	158	1 170	40 146	127 061	110 330	71 536	39 462	16 731	1 201	9	8
1721	Painting and paper hanging-----	51	237	5 264	14 547	(D)	9 884	2 767	(D)	582	24	(D)
1731	Electrical work-----	97	619	19 406	51 164	49 861	31 068	18 875	1 303	584	12	10
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	59	207	3 549	11 591	11 275	7 393	3 887	317	(D)	26	22
1742	Plastering, drywall, and insulation work-----	36	479	13 128	37 014	30 226	19 420	11 032	6 789	318	10	8
1743	Terrazzo, tile, marble, and mosaic work-----	6	16	243	677	677	417	260	-	(D)	(Z)	(Z)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	655	12 099	(S)	(S)	22 524	(S)	(S)	(S)	16	(S)
1752	Floor laying and other floor work---	(S)	(D)	(D)	(D)	(D)	(D)	*871	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sheet metal work-----	63	577	11 562	33 212	32 620	20 048	12 625	592	531	18	15
1771	Concrete work-----	60	373	9 544	33 355	(D)	20 870	14 080	(D)	(D)	12	(D)
1781	Water well drilling-----	30	180	3 374	11 298	(D)	7 062	4 115	(D)	*895	31	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	9	178	4 337	13 136	(D)	7 786	4 617	(D)	216	(Z)	(D)
1793	Glass and glazing work-----	(S)	50	1 322	7 872	(D)	2 853	3 950	(D)	(S)	8	(D)
1794	Excavation work-----	50	198	4 999	19 846	16 738	12 616	4 129	3 108	3 202	23	21
1795	Wrecking and demolition work-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.---	6	45	836	2 174	(D)	1 743	414	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.-----	62	416	6 970	22 945	21 212	12 713	9 091	*1 734	*890	19	20
	Detroit, MI PMSA											
15,16,17	Construction industries-----	8 483	64 119	1 803 987	8 161 916	5 924 886	3 442 855	2 615 927	2 237 030	108 583	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	1 434	5 572	112 249	664 582	444 803	221 837	234 413	219 780	7 096	6	6
1522	Other residential buildings-----	99	669	11 489	92 450	51 739	26 044	27 784	40 711	604	18	18
1531	Operative builders-----	302	1 408	51 999	583 180	351 065	206 305	160 579	232 115	1 910	8	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	124	1 341	46 137	395 773	192 438	120 520	76 913	203 335	1 594	11	9
1542	Nonresidential buildings, n.e.c.-----	337	4 600	159 805	1 424 423	516 104	158 312	393 778	908 319	9 702	3	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction---	98	3 366	110 463	549 919	432 199	253 908	180 981	117 720	14 856	3	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	11	329	12 687	68 248	41 245	18 540	22 719	27 003	(D)	2	(Z)
1623	Water, sewer, and utility lines-----	181	2 488	85 980	330 004	282 852	174 715	108 954	47 152	11 987	5	5
1629	Heavy construction, n.e.c.-----	(S)	928	26 264	88 651	76 119	48 032	28 225	12 533	2 442	14	9
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	1 129	8 817	274 129	953 567	815 088	495 144	334 129	138 479	12 621	2	2
1721	Painting and paper hanging-----	431	1 881	42 409	124 785	115 105	81 905	34 030	9 680	1 798	6	4
1731	Electrical work-----	836	7 465	249 878	678 486	647 005	418 299	231 716	31 480	8 304	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	374	2 029	48 223	153 285	146 045	98 794	47 930	7 240	2 485	7	9
1742	Plastering, drywall, and insulation work-----	219	1 926	48 565	148 397	131 297	80 200	53 420	17 100	901	6	4
1743	Terrazzo, tile, marble, and mosaic work-----	116	481	12 336	37 069	36 337	20 716	15 630	*733	*916	12	11
175	Carpentry and floor work:											
1751	Carpentry-----	794	4 626	92 922	341 636	294 700	181 740	116 267	46 936	2 153	5	5
1752	Floor laying and other floor work---	122	723	18 328	84 504	72 214	32 722	40 993	12 290	934	10	5
1761	Roofing, siding, and sheet metal work-----	397	3 219	80 606	311 194	279 259	147 015	132 776	31 935	6 416	6	9
1771	Concrete work-----	534	3 535	89 051	343 551	307 111	176 865	132 377	36 440	5 488	4	4

CONSTRUCTION—GEOGRAPHIC AREA SERIES

MICHIGAN MI-15

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	DETROIT-ANN ARBOR-FLINT, MI CMSA—Con.											
	Detroit, MI PMSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
1781	Water well drilling -----	62	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	68	1 397	47 384	176 857	157 989	102 856	57 164	18 867	2 300	4	9
1793	Glass and glazing work -----	73	521	14 603	51 195	48 219	27 188	23 288	2 976	332	12	9
1794	Excavation work -----	199	1 162	38 042	122 911	106 207	76 606	40 441	16 704	5 327	7	9
1795	Wrecking and demolition work -----	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	73	2 548	56 241	177 563	155 594	119 581	45 175	21 969	1 305	2	2
1799	Special trade contractors, n.e.c.-----	316	2 602	60 551	190 664	166 763	112 573	60 850	23 900	5 249	6	6
	Flint, MI PMSA											
15,16,17	Construction industries -----	722	5 305	136 018	521 677	417 837	269 539	174 846	103 840	8 715	5	5
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	152	635	12 576	87 390	59 714	29 885	33 953	27 675	1 118	18	20
1522	Other residential buildings -----	*7	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(D)	(S)	(S)
1531	Operative builders -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	6	149	5 266	42 629	(D)	20 029	9 253	(D)	4	22	(D)
1542	Nonresidential buildings, n.e.c.-----	35	354	8 903	36 283	16 199	20 479	4 278	20 085	600	28	22
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	(S)	194	5 624	25 357	22 000	17 686	6 339	3 357	799	27	30
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines -----	*4	87	3 312	7 749	(D)	*4 929	(D)	(D)	641	38	(D)
1629	Heavy construction, n.e.c.-----	*14	(S)	(S)	(S)	(D)	(S)	2 333	(D)	(D)	(S)	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	99	999	27 746	99 225	83 164	46 640	37 174	16 062	1 061	12	11
1721	Painting and paper hanging-----	43	317	7 059	17 935	(D)	11 903	3 872	(D)	(S)	18	(D)
1731	Electrical work -----	90	602	19 048	44 513	43 642	29 640	18 215	871	1 432	19	15
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	*15	97	3 225	8 299	8 127	5 020	3 107	*172	(D)	25	26
1742	Plastering, drywall, and insulation work -----	*29	*114	1 994	*7 404	6 466	2 910	*3 556	*938	68	44	39
1743	Terrazzo, tile, marble, and mosaic work -----	-	-	-	-	-	-	-	-	-	-	-
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	12 628	11 506	5 633	5 884	(S)	75	(S)	10
1752	Floor laying and other floor work -----	(S)	(D)	(D)	(D)	(D)	(D)	(S)	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sheet metal work -----	(S)	410	11 278	34 408	31 943	20 301	11 933	2 465	425	10	7
1771	Concrete work -----	*27	192	3 155	14 559	(D)	6 447	6 694	(D)	(D)	30	(D)
1781	Water well drilling -----	*23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(D)	(S)	(S)	(D)
1793	Glass and glazing work -----	(S)	116	3 285	8 369	(D)	4 147	5 762	(D)	(D)	26	(D)
1794	Excavation work -----	*25	184	5 368	16 535	14 469	9 302	5 169	2 066	1 599	24	25
1795	Wrecking and demolition work -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
1796	Installing building equipment, n.e.c. -	6	152	3 008	7 360	(D)	5 238	*2 062	(D)	(D)	14	(D)
1799	Special trade contractors, n.e.c.-----	32	(S)	(S)	(S)	(S)	(S)	(S)	(S)	115	(S)	(S)

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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
GRAND RAPIDS—MUSKEGON—HOLLAND, MI MSA												
15,16,17	Construction industries	2 355	19 496	505 396	2 148 090	1 642 629	953 961	745 267	505 461	43 752	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	505	1 995	38 105	235 622	163 192	76 431	89 433	72 430	4 157	8	9
1522	Other residential buildings	11	78	2 533	*18 562	*11 037	*5 641	5 405	7 524	15	32	46
1531	Operative builders	54	254	10 228	56 696	34 745	14 745	29 016	21 951	554	23	27
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	40	466	14 535	111 115	47 776	*10 007	40 021	63 339	519	13	13
1542	Nonresidential buildings, n.e.c.	92	1 670	47 486	369 488	162 592	107 282	64 595	206 896	2 820	10	8
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	299	9 536	51 707	43 828	17 075	29 057	7 878	1 986	12	9
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	3	(D)	4 841	(D)	(D)	(D)	6 864	(D)	1 548	(D)	(D)
1623	Water, sewer, and utility lines	40	1 136	38 563	141 662	120 656	81 516	39 897	21 006	7 745	3	3
1629	Heavy construction, n.e.c.	52	729	19 050	73 480	61 561	46 254	18 532	11 919	4 819	6	5
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning.....	334	2 740	77 955	286 462	252 251	142 310	122 421	34 211	(S)	5	4
1721	Painting and paper hanging.....	105	823	15 633	44 500	42 020	30 693	11 335	*2 480	414	22	24
1731	Electrical work	173	2 440	77 343	221 367	211 312	134 483	79 359	10 055	3 847	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	125	853	18 323	51 533	48 148	28 404	19 835	3 385	1 442	9	8
1742	Plastering, drywall, and insulation work	109	932	21 637	80 986	66 890	40 160	26 909	14 096	442	10	7
1743	Terrazzo, tile, marble, and mosaic work	5	*39	(D)	3 625	(D)	*1 189	1 591	(D)	(D)	61	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	489	11 324	39 151	34 916	16 978	19 038	*4 235	(S)	10	10
1752	Floor laying and other floor work	24	135	2 631	8 924	8 576	5 050	3 602	348	(S)	4	2
1761	Roofing, siding, and sheet metal work	119	1 239	26 283	89 525	86 138	44 991	42 143	3 387	1 755	8	7
1771	Concrete work	163	1 068	25 642	90 274	84 810	47 482	40 002	5 464	2 810	11	9
1781	Water well drilling	19	81	2 139	8 818	8 683	4 805	3 898	135	248	5	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*14	101	2 397	5 225	5 058	3 904	(D)	167	88	15	8
1793	Glass and glazing work	6	80	1 974	7 586	(D)	2 534	6 074	(D)	95	(Z)	(D)
1794	Excavation work.....	68	425	9 447	37 921	33 918	23 479	11 614	*4 003	2 017	18	20
1795	Wrecking and demolition work	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	31	545	9 588	28 105	27 041	18 418	9 764	1 064	106	15	13
1799	Special trade contractors, n.e.c.	102	644	13 765	50 701	45 851	28 108	19 477	4 851	923	12	11

Contents

Ohio

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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 Ohio. 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 81,102 establishments in this State operating in the construction industries. These establishments accounted for \$24.2 billion in total dollar value of business done.

Most of the 81,102 construction establishments were small. Of the total, 57,750 were nonemployers, and over half of the employer establishments had less than 5 employees. The 9,245 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 \$22.6 billion in total dollar value of business done. Of this amount, \$22.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$5.8 billion, leaving net value of construction work of \$16.3 billion. In addition, these establishments paid out \$8.1 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 \$9.4 billion. (See Introduction and appendixes for explanation of terms.)

There were 23,352 establishments with total employment averaging 190,335 during the year. Total payroll for 1992 was \$5.0 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 57,750 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$1.6 billion. Most of these establishments, about 84 percent, were special trade contractors.

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

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

1992 
1987 

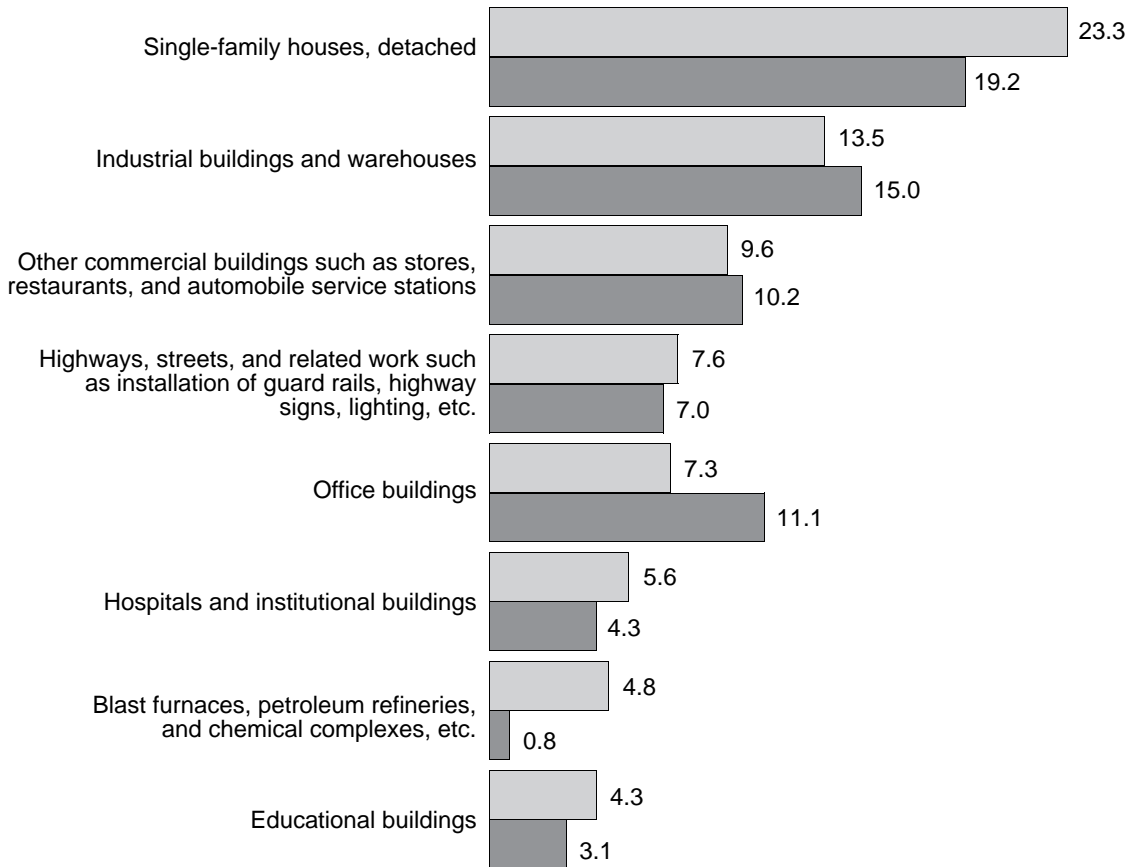




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

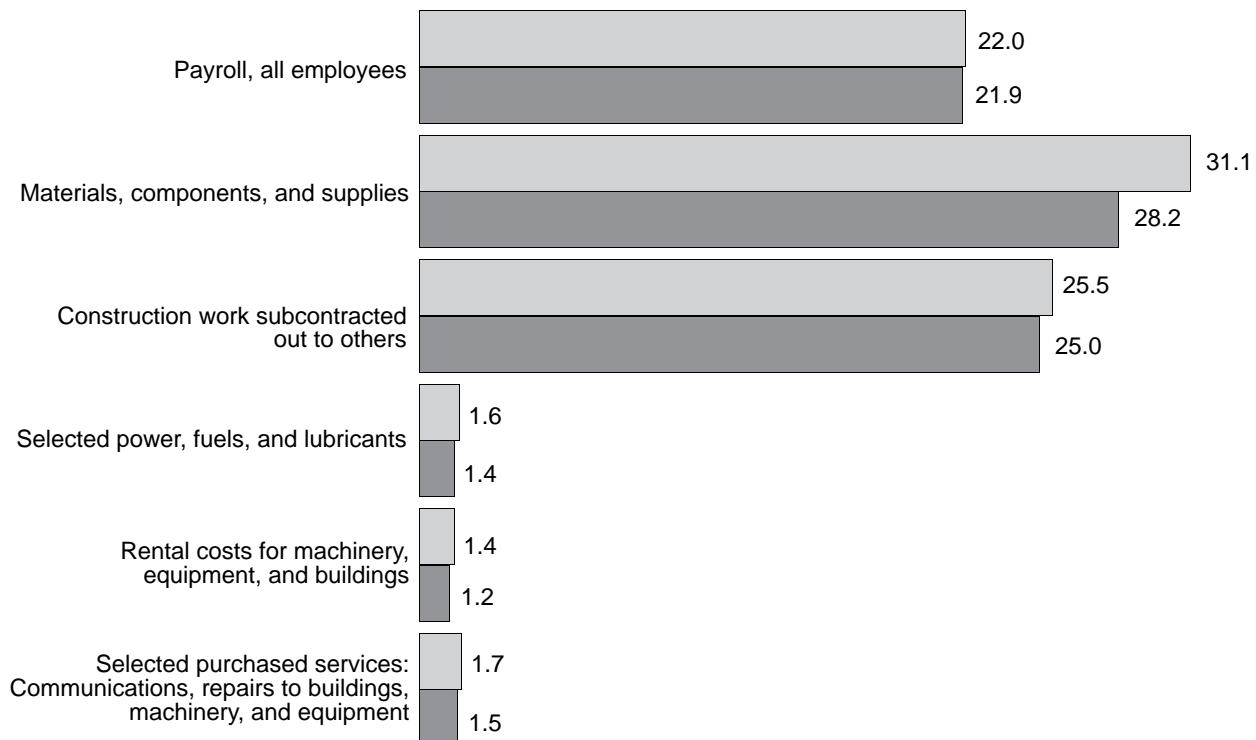


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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— J K		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			
1992															
15, 16, 17	Construction industries -----	81 102	67 162	190 335	24 161 161	57 750	56 881	1 601 076	23 352	10 281	190 335	22 560 085	(Z)	1	
15	Building construction—General contractors and operative builders ----	15 405	11 044	43 162	9 040 885	8 764	8 190	554 834	6 641	2 854	43 162	8 486 051	1	1	
16	Heavy construction other than building construction—contractors -----	2 058	1 071	29 078	4 690 194	716	685	21 251	1 342	386	29 078	4 668 943	1	1	
17	Special trade contractors -----	63 639	55 047	118 094	10 430 082	48 270	48 006	1 024 991	15 369	7 041	118 094	9 405 091	1	1	
1711	Plumbing, heating, and air-conditioning --	7 209	5 230	27 773	2 697 181	4 071	4 022	124 307	3 138	1 208	27 773	2 572 874	1	1	
1731	Electrical work -----	5 366	3 987	18 893	1 620 495	3 439	3 371	59 206	1 927	(S)	18 893	1 561 289	1	1	
1987															
15, 16, 17	Construction industries ² -----	76 142	60 797	181 669	21 119 999	55 341	54 814	2 399 380	20 801	5 983	181 669	18 720 619	1	1	
15	Building construction—General contractors and operative builders ----	16 243	11 455	43 939	8 537 189	10 423	9 849	775 701	5 820	1 606	43 939	7 761 488	1	2	
16	Heavy construction other than building construction—contractors -----	1 771	811	25 890	3 242 083	582	573	51 603	1 189	238	25 890	3 190 480	1	1	
17	Special trade contractors -----	56 993	47 506	111 397	8 920 872	43 348	43 406	1 217 186	13 645	4 100	111 397	7 703 686	1	1	
1711	Plumbing, heating, and air-conditioning --	6 447	4 462	27 187	2 192 717	3 752	3 743	152 647	2 695	719	27 187	2 040 070	1	1	
1731	Electrical work -----	4 517	3 231	16 303	1 251 763	2 904	2 873	75 965	1 613	358	16 303	1 175 798	1	1	

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

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

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

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

SIC code	Industry	1992							
		Number of 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	23 352	190 335	144 844	4 967 288	3 503 473	22 014 084	16 263 672	9 436 350
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4 130	15 890	11 699	289 410	191 175	1 988 607	1 427 032	695 571
1522	Other residential buildings	222	1 642	1 163	43 213	21 796	239 739	125 916	76 021
1531	Operative builders	666	3 996	1 867	121 682	42 246	1 675 382	999 513	537 372
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	406	5 530	3 936	154 271	98 674	908 944	529 112	300 469
1542	Nonresidential buildings, n.e.c.	1 217	16 104	10 709	457 105	272 392	3 449 300	1 426 004	749 491
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	375	10 672	8 699	355 290	261 707	1 750 712	1 391 058	610 619
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	57	1 712	1 294	61 359	46 309	278 470	216 309	126 190
1623	Water, sewer, and utility lines	340	6 479	5 276	186 741	144 667	692 701	609 504	393 386
1629	Heavy construction, n.e.c.	570	10 215	7 222	423 774	277 212	1 785 950	1 129 337	792 613
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	3 138	27 773	20 635	739 849	530 323	2 545 882	2 227 564	1 282 644
1721	Painting and paper hanging	1 369	6 549	5 405	125 592	96 895	359 890	336 004	244 206
1731	Electrical work	1 927	18 893	14 667	548 733	406 846	1 537 927	1 451 672	896 254
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	1 180	6 622	5 840	133 448	112 484	392 817	372 432	247 483
1742	Plastering, drywall, and insulation work	682	6 769	5 537	156 796	120 835	460 377	422 405	267 945
1743	Terrazzo, tile, marble, and mosaic work	148	771	632	18 057	14 561	57 032	55 519	31 705
175	Carpentry and floor work:								
1751	Carpentry	1 685	7 840	6 349	144 311	112 887	534 421	452 534	281 347
1752	Floor laying and other floor work	365	2 156	1 504	50 655	30 852	198 350	181 877	98 976
1761	Roofing, siding, and sheet metal work	1 271	9 026	7 051	204 565	148 631	738 428	680 319	396 254
1771	Concrete work	1 159	9 720	8 263	226 928	183 530	807 378	732 737	389 283
1781	Water well drilling	105	447	336	11 212	7 991	40 283	39 198	24 884
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	147	2 732	2 297	73 110	55 218	206 595	183 293	124 650
1793	Glass and glazing work	226	1 329	867	34 551	22 549	117 153	111 616	60 336
1794	Excavation work	798	3 929	3 166	88 366	69 804	335 132	300 666	204 672
1795	Wrecking and demolition work	49	1 028	820	20 515	14 698	71 952	67 973	52 007
1796	Installing building equipment, n.e.c.	178	4 651	3 740	121 798	94 279	326 555	310 460	232 852
1799	Special trade contractors, n.e.c.	942	7 859	5 869	175 957	124 912	514 109	483 618	319 120

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	
7 373 324	5 750 412	5 617 103	309 379	339 009	3 004 919	181 669	18 095 164	8 287 663	(Z)	1	2	15, 16, 17 15
769 251 60 672	561 576 113 824	53 276 7 531	14 328 2 272	14 729 2 390	126 638 18 168	12 831 3 447	1 309 904 437 647	513 005 148 958	3 9	4 10	11 13	152 1521 1522
536 230	675 869	6 049	7 623	9 138	117 125	4 531	1 368 380	375 844	5	6	16	1531
254 492 752 085	379 832 2 023 296	84 438 223 647	12 727 25 773	7 983 31 696	87 881 254 043	6 328 16 802	1 026 470 3 294 245	306 643 961 420	4 2	4 2	13 11	154 1541 1542
821 258	359 654	364 139	34 143	56 368	523 522	9 488	1 285 954	601 745	1	1	4	1611
93 078 220 929 449 246	62 160 83 197 656 613	44 013 106 591 184 366	4 309 22 018 43 877	9 219 30 874 35 355	50 896 252 278 356 505	1 660 6 402 8 340	203 375 581 918 996 536	94 500 360 060 501 273	2 3 2	2 4 2	7 13 7	162 1622 1623 1629
971 912	318 318	1 068 000	36 563	31 659	271 145	27 187	2 017 620	1 044 399	1	1	7	1711
96 910	23 886	168 156	6 899	6 298	47 730	6 564	303 382	224 404	4	4	15	1721
578 781	86 255	793 901	16 657	18 798	173 422	16 303	1 160 626	700 493	1	1	5	1731
126 348 162 999 23 996	20 385 37 972 1 513	259 509 399 842 37 783	4 534 5 858 478	4 998 5 209 555	56 676 42 789 5 723	7 347 7 272 720	383 660 453 007 63 198	236 160 276 207 33 590	4 4 10	5 3 10	13 13 21	174 1741 1742 1743
184 569 88 030	81 887 16 472	260 659 117 051	4 361 2 773	4 847 2 275	42 987 16 738	6 433 1 860	366 700 142 268	194 829 77 124	4 4	5 3	15 13	175 1751 1752
299 560	58 109	227 191	11 676	9 499	97 914	9 820	676 917	383 140	3	3	10	1761
350 857	74 641	479 412	12 164	19 113	146 325	10 094	732 113	402 440	2	2	10	1771
14 355	1 085	6 139	810	1 688	14 770	387	26 136	14 801	8	6	15	1781
71 569 56 370 100 056 18 209 81 472 190 089	23 302 5 537 34 465 3 979 16 095 30 490	144 119 92 810 201 433 21 466 86 371 179 211	6 057 2 083 12 628 1 162 5 695 11 912	4 269 1 586 14 976 401 4 939 10 148	34 099 11 101 119 336 20 718 28 827 87 562	2 028 1 290 4 660 628 2 655 6 149	138 590 103 405 361 722 36 809 219 415 365 242	96 145 53 224 244 880 32 049 162 322 225 878	3 7 6 4 2 4	3 8 5 4 2 3	3 37 5 4 2 14	179 1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

OHIO OH-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	23 352	20 801	18 078	20 752	(Z)	1	1	2
Proprietors and working partners.....	10 281	5 983	6 544	11 710	1	3	3	3
All employees**	190 335	181 669	151 902	180 454	(Z)	1	1	1
Construction workers:								
March.....	124 673	121 517	102 185	120 747	1	1	1	1
May.....	147 329	143 971	123 536	152 756	1	1	1	1
August.....	159 056	159 531	132 469	166 500	1	1	1	1
November.....	148 318	147 997	120 012	156 233	1	1	1	1
Average.....	144 844	143 254	121 582	149 199	(Z)	1	1	1
Other employees:								
March.....	45 444	37 432	30 134	30 086	1	1	1	1
May.....	45 524	38 156	(NA)	(NA)	1	1	(NA)	(NA)
August.....	45 439	39 241	(NA)	(NA)	1	1	(NA)	(NA)
November.....	45 555	38 850	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	45 491	38 420	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	4 967 288	4 094 094	2 902 090	2 595 614	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	3 503 473	3 011 320	2 210 000	2 049 643	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	1 463 815	1 082 774	692 090	545 971	1	1	(Z)	1
First-quarter payroll, all employees	1 021 701	847 432	610 977	478 812	(Z)	1	1	(Z)
Fringe benefits, all employees	1 352 135	973 184	551 765	508 952	1	1	1	(Z)
Legally required expenditures.....	823 488	612 189	385 737	272 853	1	1	1	(Z)
Voluntary expenditures.....	528 647	360 994	166 027	236 099	1	1	1	(Z)
Dollar value of business done	22 560 085	18 720 619	10 701 097	9 893 166	1	1	1	1
Value of construction work	22 014 084	18 095 164	10 360 020	9 530 951	1	1	1	1
Value of construction work subcontracted in from others	5 617 103	4 080 286	2 376 619	2 094 606	1	1	1	1
Other business receipts	546 001	430 691	281 612	362 216	2	3	1	1
Net value of construction†	16 263 672	13 411 631	7 792 679	7 384 737	1	1	1	1
Value added††	9 436 350	8 287 663	4 948 283	4 393 828	1	1	(Z)	(Z)
Selected costs	13 123 736	10 238 192	5 693 350	5 377 010	1	1	1	1
Materials, components, and supplies	7 011 436	5 288 495	2 932 454	3 080 198	1	1	1	1
Construction work subcontracted out to others	5 750 412	4 683 533	2 567 341	2 146 214	1	1	1	1
Selected power, fuels, and lubricants.....	361 888	266 164	193 554	150 598	1	1	1	1
Electricity.....	74 429	37 891	25 428	18 551	1	2	1	1
Natural gas.....	30 859	13 170	11 652	9 691	1	2	2	2
Gasoline and diesel fuel	237 223	197 115	142 730	103 260	1	1	1	1
On highway use.....	171 688	142 292	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use.....	65 535	54 823	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases.....	19 376	17 986	13 743	19 102	2	3	2	2
Rental cost for machinery, equipment, and buildings	309 379	232 828	135 502	116 771	2	1	1	1
For machinery and equipment	202 850	157 186	95 172	92 367	2	2	1	1
For buildings.....	106 529	75 642	40 329	24 404	3	2	2	1
Selected purchased services	375 719	282 514	164 574	155 797	2	1	1	1
Communication services	112 381	75 385	48 964	39 079	2	2	1	1
Repairs to buildings and other structures	19 151	16 884	10 662	8 651	5	4	2	3
Repairs to machinery and equipment	244 188	190 244	104 948	108 068	2	1	1	1
Ownership of construction projects:								
Value of construction work	22 014 084	18 095 164	10 360 020	9 530 951	1	1	1	1
Government owned	5 247 662	3 852 064	2 249 975	2 014 716	1	1	1	1
Federal	1 103 936	788 913	(NA)	(NA)	2	3	(NA)	(NA)
State and local	4 143 726	3 063 151	(NA)	(NA)	2	2	(NA)	(NA)
Privately owned	16 766 422	14 243 100	8 110 044	7 516 235	1	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	2 826 847	1 938 881	2	3
Capital expenditures, other than land	339 009	294 167	2	2
New	257 692	221 791	2	2
Used	81 317	72 376	5	4
Retirements and disposition of depreciable assets	160 936	79 667	5	4
End-of-year gross book value of depreciable assets	3 004 919	2 153 382	2	3
Depreciation charges during year	320 659	244 305	2	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	454 983	474 577	4	10
Capital expenditures, other than land	30 784	36 652	6	5
New buildings and other structures	24 032	24 214	7	5
Used buildings and other structures	6 752	12 438	10	9
Retirements and disposition of depreciable assets	23 917	15 042	8	13
End-of-year gross book value of depreciable assets	461 849	496 187	4	10
Depreciation charges during year	35 835	32 693	6	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	2 371 864	1 464 304	2	1
Capital expenditures, other than land	308 225	257 515	2	2
New machinery and equipment, including automobiles and trucks	233 660	197 577	3	2
New automobiles and trucks, intended primarily for highway use	80 443	90 321	4	3
Used machinery and equipment, including automobiles and trucks	74 565	59 938	6	4
Retirements and disposition of depreciable assets	137 019	64 624	6	4
End-of-year gross book value of depreciable assets	2 543 070	1 657 194	2	1
Depreciation charges during year	284 824	211 612	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 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	23 352	(Z)
Value of construction work	22 014 084	1
Establishments with inventories:		
Number	6 779	2
Value of construction work	8 844 105	1
Inventories ¹ :		
End of 1992, materials and supplies	302 956	5
End of 1991, materials and supplies	293 405	6
Establishments with no inventories:		
Number	9 061	2
Value of construction work	9 218 514	1
Establishments not reporting:		
Number	7 512	2
Value of construction work	3 951 465	1

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

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

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

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1992										
Number of establishments	23 352	14 108	4 847	2 557	1 349	328	131	20	10	3
All employees**	190 335	27 103	30 928	33 829	39 373	22 140	18 773	6 768	6 808	4 612
Payroll, all employees	4 967 288	440 388	627 468	839 017	1 120 721	672 403	620 021	199 387	190 197	257 687
Dollar value of business done	22 560 085	2 893 377	2 928 502	3 554 051	4 547 391	2 843 047	2 864 209	1 104 582	646 876	1 178 050
Value of construction work	22 014 084	2 842 271	2 874 897	3 498 271	4 440 100	2 792 482	2 782 325	1 092 776	605 234	1 085 729
Net value of construction work†	16 263 672	2 255 903	2 230 393	2 730 453	3 402 946	2 076 379	1 827 323	654 740	1 085 536	(D)
Value added††	9 436 350	1 251 251	1 279 768	1 605 787	2 066 518	1 212 291	954 335	325 740	740 660	(D)
Cost of materials, components, supplies, and fuels	7 373 324	1 055 758	1 004 230	1 180 446	1 443 720	914 653	954 872	340 806	478 839	(D)
Cost of construction work subcontracted out to others	5 750 412	586 368	644 504	767 818	1 037 154	716 103	955 002	438 036	605 427	(D)
Rental cost for machinery, equipment, and buildings	309 379	29 753	34 771	55 909	63 940	44 547	37 473	18 701	24 284	(D)
Capital expenditures, other than land	339 009	48 728	36 914	61 679	72 969	49 552	39 445	10 326	12 694	6 702
End-of-year gross book value of depreciable assets	3 004 919	376 396	381 982	518 344	666 862	351 032	388 711	160 063	118 955	42 574
1987										
All employees**	181 669	23 011	29 560	32 488	39 203	20 741	18 752	8 073	2 779	7 060
Value of construction work	18 095 164	2 052 181	2 220 816	2 873 589	3 890 582	2 494 284	2 522 100	1 207 198	834 413	(D)
Value added††	8 287 663	890 232	1 065 602	1 406 241	1 875 144	1 096 947	981 959	538 971	134 212	298 354
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	(Z)	2	3	3	1	1	(Z)	(Z)	(Z)	(Z)
Net value of construction work†	1	3	3	3	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	2	9	9	7	3	(Z)	(Z)	(Z)	(Z)	(Z)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies. 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	23 352	(S)	(S)	3 170	6 360	4 298	2 680	2 336	904	398	302
All employees**	190 335	(S)	(S)	5 177	18 315	22 125	23 488	34 615	24 666	17 017	42 129
Payroll, all employees	4 967 288	(S)	(S)	58 762	269 170	401 798	497 302	893 899	717 479	565 781	1 540 092
Dollar value of business done	22 560 085	(S)	(S)	230 528	1 025 765	1 500 424	1 871 020	3 632 491	3 132 747	2 698 818	8 387 809
Value of construction work	22 014 084	(S)	(S)	228 320	1 015 475	1 481 310	1 834 716	3 559 452	3 068 800	2 631 112	8 114 723
Net value of construction work†	16 263 672	(S)	(S)	211 485	916 615	1 317 623	1 575 145	2 925 868	2 391 449	1 949 413	4 901 115
Value added††	9 436 350	(S)	(S)	130 373	551 876	767 821	950 731	1 720 419	1 427 932	1 118 423	2 721 964
Cost of materials, components, supplies, and fuels	7 373 324	(S)	(S)	83 320	375 029	568 915	660 718	1 278 489	1 027 464	898 695	2 452 236
Cost of construction work subcontracted out to others	5 750 412	(S)	(S)	(S)	98 860	163 688	259 571	633 584	677 351	681 699	3 213 609
Rental cost for machinery, equipment, and buildings	309 379	(S)	(S)	(S)	16 358	21 066	31 930	49 981	42 744	34 676	109 138
Capital expenditures, other than land	339 009	(S)	(S)	6 168	24 153	28 289	35 701	59 875	52 902	35 962	104 687
End-of-year gross book value of depreciable assets	3 004 919	(S)	(S)	52 325	174 902	223 134	261 690	548 818	475 935	315 585	936 431
1987											
All employees**	181 669	(S)	(S)	(S)	18 740	19 233	22 782	32 984	24 536	17 699	36 680
Value of construction work	18 095 164	(S)	(S)	(S)	907 185	1 150 271	1 621 755	3 002 666	2 712 386	2 176 368	6 218 960
Value added††	8 287 663	(S)	(S)	(S)	502 282	614 178	862 475	1 483 754	1 293 040	980 983	2 369 401
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	(Z)	(S)	(S)	5	4	4	3	2	2	1	(Z)
Net value of construction work†	1	(S)	(S)	4	3	3	3	3	3	2	(Z)
Capital expenditures, other than land	2	(S)	(S)	13	10	11	9	7	6	8	(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	22 014 084	12 578 309	5 605 894	3 313 860	1	1	1	1
Building construction	16 027 421	9 516 028	4 344 889	2 166 504	1	1	1	1
Single-family houses	5 692 767	4 033 154	1 023 512	636 101	2	3	3	3
Single-family houses, detached	5 122 161	3 635 865	916 648	569 648	2	3	3	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	570 606	397 289	106 864	66 453	6	6	17	9
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	553 893	338 223	117 341	98 329	7	11	6	5
Other residential buildings, including hotels, motels, and tourist cabins.....	133 814	69 268	38 441	26 105	6	4	14	15
Office buildings	1 605 651	807 499	545 596	252 556	2	2	2	3
Other commercial buildings such as stores, restaurants, and automobile service stations	2 111 938	1 278 623	546 993	286 323	2	3	3	3
Industrial buildings and warehouses	2 965 598	1 334 549	1 044 027	587 022	1	2	2	2
Industrial buildings	2 525 349	1 053 732	934 336	537 281	1	2	2	2
Warehouses	440 249	280 816	109 691	49 742	4	5	3	6
Religious buildings	257 081	127 266	91 412	38 402	3	4	2	9
Educational buildings	937 232	488 825	360 485	87 922	1	1	3	4
Hospitals and institutional buildings	1 242 777	692 357	454 227	96 193	2	3	2	4
Amusement, social, and recreational buildings, indoors	177 334	114 747	43 347	19 240	5	7	6	12
Other nonresidential buildings	349 337	231 519	79 508	38 310	4	4	5	11
Nonbuilding construction.....	5 470 642	3 062 280	1 261 006	1 147 356	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 684 071	598 924	559 766	525 381	1	4	3	2
Private driveways and parking areas	208 128	112 871	42 849	52 409	5	6	9	8
Bridges, tunnels, and elevated highways	421 327	185 234	155 484	80 609	3	1	7	11
Conservation and development construction	153 494	128 055	12 916	12 523	8	8	20	24
Power and communication transmission lines, towers, and related facilities.....	176 570	118 087	35 372	23 111	3	4	4	6
Sewers, water mains, and related facilities.....	665 833	504 382	94 434	67 017	4	5	5	6
Sewers, sewer lines, septic systems, and related facilities	420 328	318 809	55 392	46 127	4	5	7	7
Water mains and related facilities.....	245 504	185 572	39 042	20 890	6	8	5	7
Pipeline construction other than sewer or water lines	188 339	130 989	26 561	30 788	4	3	5	16
Blast furnaces, petroleum refineries, chemical complexes, etc.	1 054 603	(D)	(D)	156 498	(Z)	(D)	(D)	2
Power plants	268 127	(D)	(D)	118 805	2	(D)	(D)	2
Sewage treatment and water treatment plants	286 052	157 274	112 693	16 085	2	1	4	8
Sewage treatment plants	165 708	120 401	36 128	9 179	3	1	11	12
Water treatment plants	120 345	36 873	76 565	6 906	2	5	1	10
Other nonbuilding construction	364 098	226 521	73 447	64 130	4	4	6	6
Construction work, n.s.k.....	516 021	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1987								
Value of construction work	18 095 164	11 156 862	3 881 089	2 322 103	1	1	1	1
Building construction	13 314 436	8 804 556	2 947 718	1 562 163	1	1	1	2
Single-family houses	3 976 182	2 852 575	684 915	438 691	3	3	3	4
Single-family houses, detached	3 474 082	2 450 001	630 951	393 129	2	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	502 099	402 573	53 963	45 562	10	12	13	11
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	622 168	496 465	62 220	63 482	7	8	8	8
Other residential buildings, including hotels, motels, and tourist cabins.....	306 711	203 247	63 622	39 841	6	8	8	6
Office buildings	2 005 901	1 380 765	451 826	173 310	1	2	2	2
Other commercial buildings such as stores, restaurants, and automobile service stations	1 847 908	1 190 760	430 711	226 435	2	2	3	3
Industrial buildings and warehouses	2 715 059	1 598 674	692 161	424 224	1	1	2	3
Industrial buildings	2 207 728	1 210 676	620 504	376 547	1	1	2	3
Warehouses	507 331	387 998	71 656	47 676	2	3	4	4
Religious buildings	161 353	78 927	53 766	28 660	3	5	5	6
Educational buildings	567 867	332 689	171 151	64 027	2	3	4	4
Hospitals and institutional buildings	786 635	456 015	268 994	61 625	1	2	3	3
Amusement, social, and recreational buildings, indoors	110 072	76 872	24 886	8 313	4	4	8	7
Other nonresidential buildings	214 580	137 567	43 466	33 555	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction.....	4 045 619	2 352 306	933 371	759 942	1	1	1	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	1 275 456	621 657	272 953	380 845	2	2	2	3
Private driveways and parking areas	210 987	138 663	31 476	40 848	5	5	7	10
Bridges, tunnels, and elevated highways	273 424	143 641	95 170	34 612	2	1	1	13
Power and communication transmission lines, towers, and related facilities.....	119 230	87 346	12 303	19 580	5	4	15	14
Sewers, water mains, and related facilities.....	525 899	360 559	122 289	43 050	3	4	4	5
Sewers, sewer lines, septic systems, and related facilities	362 041	263 200	69 287	29 547	3	3	4	5
Water mains and related facilities.....	163 858	97 353	53 001	13 503	5	7	5	8
Pipeline construction other than sewer or water lines	110 061	70 937	25 358	13 765	4	5	2	3
Blast furnaces, petroleum refineries, chemical complexes, etc.	138 209	43 406	39 074	55 728	2	2	3	1
Power plants	403 913	223 196	117 803	62 913	1	2	3	2
Sewage treatment and water treatment plants	522 295	383 850	115 933	22 512	2	2	3	6
Sewage treatment plants	372 001	273 377	84 245	14 378	1	2	2	9
Water treatment plants	150 294	110 472	31 687	8 133	5	5	8	2
Other nonbuilding construction	466 145	279 051	101 012	86 089	7	7	19	12
Construction work, n.s.k.....	735 109	(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	F	
15, 16, 17	Construction industries -----	23 352	144 844	124 673	147 329	159 056	148 318	(Z)	(Z)	1	1	1	1	1	1	
15	Building construction—General contractors and operative builders:															
152	General contractors, residential buildings:															
1521	Single-family houses -----	4 130	11 699	10 582	12 033	12 836	11 346	2	3	4	3	3	4			
1522	Other residential buildings -----	222	1 163	1 083	1 289	1 245	1 033	14	10	10	13	12	10			
1531	Operative builders -----	666	1 867	1 707	1 886	2 006	1 868	7	7	7	7	6	6			
154	General contractors, nonresidential buildings:															
1541	Industrial buildings and warehouses -----	406	3 936	3 341	3 841	4 321	4 243	8	4	4	5	5	5			
1542	Nonresidential buildings, n.e.c. ---	1 217	10 709	9 749	10 439	11 874	10 773	5	2	2	2	2	2			
16	Heavy construction other than building construction—contractors:															
1611	Highway and street construction ----	375	8 699	4 494	9 865	11 021	9 415	5	2	2	2	1	2			
162	Heavy construction, except highway:															
1622	Bridge, tunnel, and elevated highway construction -----	57	1 294	980	1 511	1 597	1 088	10	2	2	2	1	2			
1623	Water, sewer, and utility lines -----	340	5 276	4 273	5 379	5 935	5 517	8	3	2	3	3	3			
1629	Heavy construction, n.e.c. -----	570	7 222	6 317	8 302	6 755	7 514	7	3	2	2	3	3			
17	Special trade contractors:															
1711	Plumbing, heating, and air-conditioning -----	3 138	20 635	19 534	20 405	21 471	21 132	2	1	1	2	1	2			
1721	Painting and paper hanging -----	1 369	5 405	3 964	5 585	6 859	5 212	3	4	5	4	4	4			
1731	Electrical work -----	1 927	14 667	14 336	14 342	15 259	14 732	2	1	1	1	1	1			
174	Masonry, stonework, tile setting, and plastering:															
1741	Masonry, stone setting, and other stonework -----	1 180	5 840	4 646	6 202	6 387	6 125	3	4	4	4	4	4			
1742	Plastering, drywall, and insulation work -----	682	5 537	5 196	5 531	5 796	5 626	4	4	3	4	4	3			
1743	Terrazzo, tile, marble, and mosaic work -----	148	632	546	630	759	595	11	10	10	9	14	10			
175	Carpentry and floor work:															
1751	Carpentry -----	1 685	6 349	5 846	6 359	6 919	6 271	3	4	5	4	4	4			
1752	Floor laying and other floor work --	365	1 504	1 495	1 509	1 591	1 420	4	4	4	4	5	4			
1761	Roofing, siding, and sheet metal work -----	1 271	7 051	5 658	6 879	8 263	7 405	3	3	4	3	3	3			
1771	Concrete work -----	1 159	8 263	5 567	8 873	9 670	8 943	3	2	3	3	3	3			
1781	Water well drilling -----	105	336	319	328	360	339	11	9	9	8	9	9			
179	Miscellaneous special trade contractors:															
1791	Structural steel erection -----	147	2 297	2 167	2 303	2 387	2 332	9	2	2	3	2	3			
1793	Glass and glazing work -----	226	867	783	835	941	908	8	8	7	8	10	8			
1794	Excavation work -----	798	3 166	2 673	3 258	3 631	3 101	6	5	6	5	5	5			
1795	Wrecking and demolition work -----	49	820	727	811	896	847	22	4	3	4	4	4			
1796	Installing building equipment, n.e.c. -----	178	3 740	3 756	3 124	3 737	4 342	7	2	2	2	2	2			
1799	Special trade contractors, n.e.c. ---	942	5 869	4 934	5 810	6 539	6 192	6	3	4	4	4	4			

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 -----	8.2	26.1	152.0	.226	.335	.261	.255	.014
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.8	18.2	170.0	.146	.387	.282	.027	.007
1522	Other residential buildings -----	7.4	26.3	206.1	.180	.253	.475	.031	.009
1531	Operative builders -----	6.0	30.5	897.4	.073	.320	.403	.004	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	13.6	27.9	230.9	.170	.280	.418	.093	.014
1542	Nonresidential buildings, n.e.c. -----	13.2	28.4	322.1	.133	.218	.587	.065	.007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	28.5	33.3	201.3	.203	.469	.205	.208	.020
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	30.1	35.8	215.2	.220	.334	.223	.158	.015
1623	Water, sewer, and utility lines -----	19.0	28.8	131.3	.270	.319	.120	.154	.032
1629	Heavy construction, n.e.c. -----	17.9	41.5	247.3	.237	.252	.368	.103	.025
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.9	26.6	123.4	.291	.382	.125	.420	.014
1721	Painting and paper hanging -----	4.8	19.2	66.6	.349	.269	.066	.467	.019
1731	Electrical work -----	9.8	29.0	104.9	.357	.376	.056	.516	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.6	20.2	67.3	.340	.322	.052	.661	.012
1742	Plastering, drywall, and insulation work -----	9.9	23.2	83.1	.341	.354	.082	.869	.013
1743	Terrazzo, tile, marble, and mosaic work -----	5.2	23.4	90.2	.317	.421	.027	.662	.008
175	Carpentry and floor work:								
1751	Carpentry -----	4.7	18.4	84.2	.270	.345	.153	.488	.008
1752	Floor laying and other floor work -----	5.9	23.5	131.9	.255	.444	.083	.590	.014
1761	Roofing, siding, and sheet metal work -----	7.1	22.7	104.7	.277	.406	.079	.308	.016
1771	Concrete work -----	8.4	23.3	97.7	.281	.435	.092	.594	.015
1781	Water well drilling -----	4.2	25.1	119.9	.278	.356	.027	.152	.020
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	18.6	26.8	89.9	.354	.346	.113	.698	.029
1793	Glass and glazing work -----	5.9	26.0	135.1	.295	.481	.047	.792	.018
1794	Excavation work -----	4.9	22.5	105.9	.264	.299	.103	.601	.038
1795	Wrecking and demolition work -----	20.9	20.0	87.7	.285	.253	.055	.298	.016
1796	Installing building equipment, n.e.c. -----	26.1	26.2	87.3	.373	.249	.049	.264	.017
1799	Special trade contractors, n.e.c. -----	8.3	22.4	87.6	.342	.370	.059	.349	.023

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work 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

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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
	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
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	93	271	(S)	56 667	(S)	(S)	24 019	14 509	(S)	17	(S)
1522	Other residential buildings-----	4	(D)	749	667	(D)	(D)	(D)	(D)	-	(D)	(D)
1531	Operative builders-----	39	248	6 362	164 222	103 734	43 515	60 224	60 488	*317	26	29
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	9	150	5 723	27 750	15 221	10 243	5 988	12 529	(D)	9	7
1542	Nonresidential buildings, n.e.c.-----	(S)	204	6 872	35 247	21 998	15 973	(D)	13 249	247	8	11
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction---	12	(S)	(S)	(S)	36 512	(S)	11 985	(S)	1 879	(S)	1
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-----	12	340	8 045	31 092	(D)	18 187	7 473	(D)	1 154	4	(D)
1629	Heavy construction, n.e.c.-----	*11	118	(D)	10 396	8 251	5 901	2 350	2 145	*237	7	8
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	117	733	18 209	60 407	54 550	32 578	23 323	5 856	490	8	9
1721	Painting and paper hanging-----	32	171	3 719	9 693	9 484	7 177	2 308	*209	106	25	15
1731	Electrical work-----	(S)	525	14 754	38 961	38 357	22 529	16 885	604	143	5	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	28	257	5 505	13 090	(D)	8 937	4 007	(D)	213	9	(D)
1742	Plastering, drywall, and insulation work-----	36	418	7 224	23 181	20 431	11 437	9 125	*2 750	545	24	20
1743	Terrazzo, tile, marble, and mosaic work-----	12	*63	*1 157	(D)	(D)	(D)	*1 174	(D)	(D)	68	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	55	237	3 723	12 464	10 838	6 512	4 335	1 626	165	18	19
1752	Floor laying and other floor work---	*11	*66	*768	*2 594	(D)	*1 541	*1 250	(D)	(S)	67	(D)
1761	Roofing, siding, and sheet metal work-----	33	217	5 489	19 023	18 996	9 793	9 237	27	125	8	1

CONSTRUCTION—GEOGRAPHIC AREA SERIES

OHIO OH-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
	CINCINNATI—HAMILTON, OH—KY—IN CMSA—Con.											
	Hamilton—Middletown, OH PMSA—Con.											
15,16,17	Construction industries—Con.											
1771	Special trade contractors—Con.											
	Concrete work -----	49	1 603	(D)	(D)	(D)	55 315	(D)	(D)	(D)	3	(D)
1781	Water well drilling -----	—	—	—	—	—	—	—	—	—	—	—
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	7	202	5 945	12 547	12 333	9 378	2 955	214	(D)	(Z)	(Z)
1793	Glass and glazing work -----	*9	*42	*1 037	*2 917	*2 885	*1 531	*1 354	(S)	(D)	60	54
1794	Excavation work -----	24	151	3 676	11 378	10 847	8 177	(S)	*531	738	18	13
1795	Wrecking and demolition work -----	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c. -	5	(D)	(D)	(D)	(D)	(D)	1 220	(D)	(S)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	34	286	6 477	22 562	20 500	16 711	4 944	2 062	(D)	14	13
	CLEVELAND—AKRON, OH CMSA											
15,16,17	Construction industries -----	6 239	53 328	1 556 441	6 843 617	4 795 471	3 002 804	1 997 121	2 048 146	103 597	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	1 040	3 929	80 590	562 458	372 547	184 066	200 935	189 911	(S)	6	7
1522	Other residential buildings -----	74	418	10 614	56 625	(D)	22 223	11 002	(D)	377	25	(D)
1531	Operative builders -----	170	1 028	29 665	383 928	229 655	155 086	83 193	154 273	2 824	10	11
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	94	1 033	32 463	205 147	(D)	66 176	55 811	(D)	1 449	9	(D)
1542	Nonresidential buildings, n.e.c.-----	351	4 345	126 571	1 019 420	367 597	177 350	207 447	651 823	9 671	3	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	80	2 356	83 905	402 788	307 018	151 712	160 439	95 770	17 111	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	13	637	26 094	127 522	91 985	49 876	42 749	35 537	3 221	2	2
1623	Water, sewer, and utility lines -----	116	1 488	47 206	207 049	177 913	110 212	68 504	29 136	11 360	9	13
1629	Heavy construction, n.e.c. -----	153	5 466	287 381	1 189 293	(D)	587 562	198 824	(D)	12 940	2	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	848	6 995	193 316	699 042	596 709	336 200	268 247	102 333	10 936	3	3
1721	Painting and paper hanging -----	404	1 823	37 374	99 537	92 097	65 564	26 553	7 440	1 895	6	4
1731	Electrical work -----	508	4 770	149 275	403 215	384 491	242 060	148 910	18 724	4 593	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	295	2 064	47 592	156 122	147 665	97 274	51 255	8 457	1 553	6	11
1742	Plastering, drywall, and insulation work -----	187	1 689	45 436	144 196	133 408	82 619	52 350	10 788	1 046	7	5
1743	Terrazzo, tile, marble, and mosaic work -----	36	170	4 354	(D)	(D)	6 849	5 228	*186	239	14	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	2 013	41 971	133 315	116 350	75 829	43 046	16 964	996	9	8
1752	Floor laying and other floor work -----	118	654	15 095	48 323	43 827	28 829	17 828	4 496	552	9	8
1761	Roofing, siding, and sheet metal work -----	386	2 415	56 462	233 589	206 019	115 654	93 401	27 570	3 049	5	6
1771	Concrete work -----	338	2 664	61 139	235 649	204 326	118 036	87 117	31 324	4 017	4	4
1781	Water well drilling -----	(S)	(S)	(S)	(D)	(D)	(S)	(S)	(S)	(D)	(S)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	40	1 262	30 330	73 326	65 953	44 312	27 634	7 374	1 642	2	1
1793	Glass and glazing work -----	72	395	11 834	35 324	34 069	20 199	14 965	*1 255	159	12	13
1794	Excavation work -----	196	1 371	32 244	111 220	94 643	70 554	26 143	16 578	5 100	12	7
1795	Wrecking and demolition work -----	*15	219	3 225	19 913	19 004	13 581	5 427	909	(D)	14	10
1796	Installing building equipment, n.e.c. -	36	960	23 740	63 740	60 973	45 679	15 771	2 767	1 123	(Z)	(Z)
1799	Special trade contractors, n.e.c.-----	249	3 104	77 332	215 835	205 788	132 378	82 504	10 047	3 931	4	4

OH—16 OHIO

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
	CLEVELAND-AKRON, OH CMSA—Con.											
	Akron, OH PMSA											
15,16,17	Construction industries	1 445	11 631	345 527	1 333 817	1 058 899	697 562	383 601	274 918	20 154	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	229	864	17 202	117 935	77 295	40 518	38 164	40 640	(S)	12	13
1522	Other residential buildings	*25	*140	*3 180	*22 952	(D)	*9 820	*2 604	(D)	*297	51	(D)
1531	Operative builders	35	(S)	(S)	104 878	69 710	49 788	22 514	35 168	338	(S)	23
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	30	255	8 722	51 625	35 096	18 262	18 969	16 529	625	17	24
1542	Nonresidential buildings, n.e.c.	66	612	20 775	99 574	51 026	36 539	17 972	(S)	958	15	13
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	12	464	17 358	85 327	65 991	36 893	29 329	19 336	3 719	4	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	4	71	2 718	12 805	(D)	8 808	2 443	(D)	(D)	10	(D)
1623	Water, sewer, and utility lines	33	323	7 843	33 343	29 380	21 739	8 298	3 963	786	10	12
1629	Heavy construction, n.e.c.	42	1 844	88 998	240 833	204 514	165 778	38 790	36 319	2 036	3	2
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning.....	155	1 234	34 987	137 709	110 727	59 689	51 144	26 982	2 114	8	6
1721	Painting and paper hanging.....	(S)	339	6 031	17 960	16 244	10 359	5 905	1 715	(S)	13	11
1731	Electrical work	118	1 061	31 800	98 108	92 500	55 256	37 504	5 608	2 367	6	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	102	484	(S)	31 975	30 317	19 493	10 879	(S)	456	13	14
1742	Plastering, drywall, and insulation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	185	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work	*14	*53	*1 397	(D)	(D)	*2 153	*1 382	(S)	*183	43	(D)
175	Carpentry and floor work:											
1751	Carpentry	103	386	6 267	(S)	(S)	(S)	8 993	2 705	(S)	30	(S)
1752	Floor laying and other floor work	22	160	2 632	7 958	7 400	4 995	3 006	*558	63	20	14
1761	Roofing, siding, and sheet metal work	80	449	9 641	43 072	35 931	23 433	12 498	7 141	(S)	14	16
1771	Concrete work	93	451	8 106	31 255	27 905	16 295	11 719	3 350	(S)	11	5
1781	Water well drilling	9	(D)	(D)	(D)	(D)	(D)	(S)	30	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	238	8 162	25 337	20 128	10 152	13 061	5 210	453	3	2
1793	Glass and glazing work	10	42	1 190	4 062	3 935	2 365	1 960	*127	34	5	8
1794	Excavation work	40	247	5 186	21 921	19 386	12 743	6 643	2 535	2 241	21	21
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	5	(D)	(D)	4 927	(D)	(D)	850	(D)	13	(D)	(D)
1799	Special trade contractors, n.e.c.	77	1 194	36 017	88 175	84 658	62 395	29 163	*3 517	1 252	6	5
	Cleveland-Lorain-Elyria, OH PMSA											
15,16,17	Construction industries	4 794	41 697	1 210 914	5 509 800	3 736 572	2 305 242	1 613 520	1 773 228	83 443	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	811	3 065	63 388	444 522	295 252	143 549	162 770	149 271	2 789	7	9
1522	Other residential buildings	(S)	277	7 434	33 674	18 439	12 403	8 398	15 235	*80	27	24
1531	Operative builders	135	777	20 846	279 050	159 944	105 298	60 680	119 106	2 486	12	13
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	64	777	23 741	153 522	(D)	47 915	36 841	(D)	824	10	(D)
1542	Nonresidential buildings, n.e.c.	285	3 733	105 796	919 845	316 570	140 811	189 475	603 275	8 714	3	4

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
	CLEVELAND—AKRON, OH CMSA—Con.											
	Cleveland—Lorain—Elyria, OH PMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	68	1 892	66 546	317 461	241 027	114 819	131 110	76 434	13 392	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	9	566	23 376	114 717	(D)	41 068	40 306	(D)	(D)	2	(D)
1623	Water, sewer, and utility lines -----	83	1 165	39 363	173 706	148 532	88 473	60 206	25 174	10 573	11	16
1629	Heavy construction, n.e.c. -----	111	3 621	198 382	948 460	(D)	421 784	160 034	(D)	10 903	3	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	693	5 761	158 329	561 333	485 982	276 511	217 103	75 352	8 822	3	3
1721	Painting and paper hanging-----	317	1 485	31 343	81 577	75 852	55 205	20 648	5 725	1 620	7	5
1731	Electrical work -----	390	3 709	117 475	305 108	291 991	186 805	111 407	13 117	2 226	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	193	1 580	38 117	124 147	117 349	77 780	40 375	6 799	1 096	6	13
1742	Plastering, drywall, and insulation work -----	147	1 400	39 075	123 118	113 268	71 335	43 476	9 850	861	8	6
1743	Terrazzo, tile, marble, and mosaic work -----	22	(S)	2 958	(D)	(D)	(S)	3 846	102	(S)	(S)	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	1 627	35 704	108 370	94 111	62 543	34 053	14 259	920	8	9
1752	Floor laying and other floor work -----	96	493	12 463	40 364	36 427	23 834	14 823	3 937	489	11	9
1761	Roofing, siding, and sheet metal work -----	306	1 966	46 821	190 516	170 088	92 221	80 903	20 428	2 989	6	7
1771	Concrete work -----	245	2 213	53 033	204 394	176 420	101 741	75 398	27 974	3 540	5	4
1781	Water well drilling -----	(S)	(D)	(D)	(D)	(D)	(D)	(S)	(S)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	28	1 024	22 168	47 989	45 825	34 160	14 573	2 164	1 188	2	1
1793	Glass and glazing work -----	62	353	10 644	31 262	30 134	17 834	13 005	*1 128	125	14	15
1794	Excavation work -----	156	1 124	27 058	89 299	75 257	57 811	19 500	14 043	2 858	14	7
1795	Wrecking and demolition work -----	*15	219	3 225	19 913	19 004	13 581	5 427	909	(D)	14	10
1796	Installing building equipment, n.e.c. -	31	(D)	(D)	58 813	(D)	(D)	14 921	(D)	1 110	(D)	(D)
1799	Special trade contractors, n.e.c. -----	172	1 909	41 315	127 659	121 129	69 983	53 341	6 530	2 679	6	7
	COLUMBUS, OH MSA											
15,16,17	Construction industries -----	2 820	27 675	720 067	3 376 500	2 390 325	1 259 450	1 208 798	986 174	46 425	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	449	1 794	34 025	215 351	149 062	87 742	67 314	66 289	(S)	8	9
1522	Other residential buildings -----	41	465	17 267	74 394	32 040	23 409	14 083	42 354	389	10	12
1531	Operative builders -----	76	899	30 182	459 613	252 052	108 924	159 165	207 560	1 385	7	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	40	532	12 436	106 487	58 707	27 896	34 697	47 780	1 156	12	20
1542	Nonresidential buildings, n.e.c. -----	151	1 945	60 262	500 053	177 704	80 794	103 032	322 349	2 418	6	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	47	1 266	46 095	203 567	165 982	58 846	110 557	37 585	6 025	3	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	61	1 049	27 050	109 049	96 443	62 958	33 955	(S)	4 912	7	8
1629	Heavy construction, n.e.c. -----	(S)	1 063	37 180	209 252	(D)	(S)	130 338	(D)	6 963	9	(D)

OH—18 OHIO

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
COLUMBUS, OH MSA—Con.												
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	347	4 053	112 605	372 599	331 860	190 188	145 079	40 740	3 873	3	3
1721	Painting and paper hanging -----	196	1 078	19 445	54 633	46 941	34 695	14 890	7 692	1 137	7	6
1731	Electrical work -----	239	3 182	94 433	265 651	243 290	148 219	96 741	22 361	2 784	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	143	1 116	22 219	65 316	61 279	36 903	24 674	4 037	813	7	6
1742	Plastering, drywall, and insulation work -----	(S)	1 389	33 073	87 316	81 879	55 584	28 062	5 438	1 114	6	4
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	(D)	(D)	6 852	6 549	(D)	(D)	303	97	(D)	3
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	1 136	22 097	95 419	71 630	44 648	30 624	*23 789	1 098	8	9
1752	Floor laying and other floor work -----	42	326	(S)	43 046	38 241	(S)	18 148	(S)	463	3	5
1761	Roofing, siding, and sheet metal work -----	145	1 395	33 981	110 026	102 775	67 076	42 208	7 252	1 406	8	8
1771	Concrete work -----	159	1 440	31 006	109 376	102 499	58 786	44 849	6 877	3 746	5	5
1781	Water well drilling -----	*8	101	3 265	10 725	10 011	6 647	3 364	714	(D)	11	14
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	19	230	6 994	28 862	26 399	14 444	14 863	2 464	141	8	8
1793	Glass and glazing work -----	34	180	3 681	11 685	11 469	5 280	6 322	*216	81	24	16
1794	Excavation work -----	66	470	10 735	41 347	38 115	18 565	19 607	3 233	1 547	17	14
1795	Wrecking and demolition work -----	*15	90	2 704	(D)	(D)	5 481	322	(D)	(D)	8	(D)
1796	Installing building equipment, n.e.c. -----	15	1 174	19 921	77 278	49 972	23 580	23 580	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c. -----	128	993	19 163	63 159	58 641	39 353	21 649	4 518	2 389	13	12
DAYTON-SPRINGFIELD, OH MSA												
15,16,17	Construction industries -----	1 803	14 720	356 206	1 652 610	1 273 689	762 794	545 591	378 921	21 991	2	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	311	1 426	25 624	125 625	88 587	34 387	54 667	37 039	1 613	21	13
1522	Other residential buildings -----	*13	74	(D)	(D)	(D)	(D)	2 026	(D)	(D)	10	(D)
1531	Operative builders -----	51	337	12 820	156 984	114 529	70 120	51 751	42 455	114	20	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	30	479	9 473	83 057	48 311	24 517	24 415	34 747	433	16	10
1542	Nonresidential buildings, n.e.c. -----	78	1 348	40 332	390 523	222 761	145 425	79 318	167 762	1 743	6	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	37	446	12 330	59 771	45 336	29 083	18 651	14 435	2 817	6	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines -----	17	332	8 349	34 012	29 598	19 709	10 008	4 414	955	11	8
1629	Heavy construction, n.e.c. -----	24	403	9 030	54 477	42 375	20 380	22 006	12 102	2 740	9	18
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	272	2 473	66 318	205 966	187 308	104 292	85 364	18 658	2 520	3	3
1721	Painting and paper hanging -----	118	665	11 466	29 722	27 121	20 866	7 679	*2 601	(S)	14	14
1731	Electrical work -----	164	1 610	46 082	137 611	129 462	81 705	56 922	8 149	3 046	4	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	(S)	406	9 859	24 439	23 399	17 123	6 305	1 040	(D)	14	10
1742	Plastering, drywall, and insulation work -----	64	847	17 535	49 645	46 284	30 678	18 650	3 361	935	15	12
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	76	1 490	5 642	5 443	2 663	2 780	199	(D)	20	11
175	Carpentry and floor work:											
1751	Carpentry -----	137	796	12 637	43 137	38 214	24 996	13 455	4 923	706	17	24
1752	Floor laying and other floor work -----	28	185	4 067	19 443	18 650	7 872	10 878	793	205	3	3
1761	Roofing, siding, and sheet metal work -----	114	942	21 985	63 790	61 135	36 856	26 592	2 655	803	9	8
1771	Concrete work -----	102	588	11 512	42 267	40 262	20 107	20 155	2 005	702	12	9

CONSTRUCTION—GEOGRAPHIC AREA SERIES

OHIO OH-19

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	DAYTON-SPRINGFIELD, OH MSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
1781	Water well drilling -----	(S)	58	1 435	(D)	(D)	2 638	(D)	(D)	(D)	10	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	9	142	2 395	9 559	(D)	3 618	(D)	(D)	85	(Z)	(D)
1793	Glass and glazing work -----	(S)	96	2 293	6 278	6 132	4 027	3 023	(S)	57	1	3
1794	Excavation work -----	39	350	8 940	34 737	30 927	20 544	10 397	3 810	1 454	7	5
1795	Wrecking and demolition work -----	*3	(S)	(D)	(S)	(S)	(D)	*410	(S)	—	(S)	(S)
1796	Installing building equipment, n.e.c. -	28	235	7 950	23 864	(D)	16 737	4 939	(D)	230	13	(D)
1799	Special trade contractors, n.e.c. ----	(S)	375	8 976	23 277	22 040	15 193	7 984	1 237	133	13	9
	TOLEDO, OH MSA											
15,16,17	Construction industries -----	1 229	12 804	357 920	1 443 111	1 077 502	628 147	486 554	365 609	14 825	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	215	982	17 919	98 295	73 118	38 494	36 156	25 177	857	11	9
1522	Other residential buildings -----	(S)	(S)	*2 171	*19 226	*14 872	*2 915	*12 846	*4 354	*171	(S)	49
1531	Operative builders -----	*21	114	2 714	20 879	(D)	8 454	7 805	(D)	(S)	14	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	9	560	(D)	(D)	88 842	48 484	(D)	(D)	(D)	4	2
1542	Nonresidential buildings, n.e.c. ----	43	683	24 137	210 627	59 607	(S)	62 824	151 019	(S)	8	7
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction ----	24	758	19 218	93 129	76 209	57 251	32 001	16 920	1 328	3	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines -----	20	1 107	33 828	100 178	96 266	55 733	40 836	3 912	3 257	(Z)	(Z)
1629	Heavy construction, n.e.c. -----	22	599	18 180	66 764	56 103	32 248	24 379	10 662	2 134	4	3
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	179	2 264	61 211	197 237	164 079	105 161	61 981	33 157	1 120	5	3
1721	Painting and paper hanging -----	54	331	6 309	18 101	17 463	12 076	5 481	637	205	18	16
1731	Electrical work -----	112	1 404	46 813	128 896	122 384	74 955	47 809	6 512	1 698	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	50	215	5 334	13 394	(D)	8 286	4 310	(D)	*197	15	(D)
1742	Plastering, drywall, and insulation work -----	55	483	9 521	30 382	24 874	14 887	10 809	*5 508	67	9	12
1743	Terrazzo, tile, marble, and mosaic work -----	6	(D)	497	1 706	(D)	826	841	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	88	338	6 750	29 412	22 918	12 988	13 131	*6 494	102	14	22
1752	Floor laying and other floor work ---	24	145	3 255	11 348	11 226	6 195	5 366	(S)	*105	16	15
1761	Roofing, siding, and sheet metal work -----	(S)	694	17 361	64 597	61 990	39 511	23 129	(S)	(S)	8	10
1771	Concrete work -----	71	497	11 392	47 624	46 017	24 694	21 438	1 607	483	16	16
1781	Water well drilling -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	6	119	5 426	(D)	(D)	6 853	2 966	(D)	(D)	(Z)	(D)
1793	Glass and glazing work -----	*14	*74	*2 030	(D)	(D)	*3 291	(D)	(D)	(D)	41	(D)
1794	Excavation work -----	45	144	3 222	13 526	12 202	8 361	3 853	1 324	*577	20	21
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1796	Installing building equipment, n.e.c. -	14	729	(D)	65 963	(D)	50 103	12 295	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c. ----	54	411	9 601	24 996	23 973	16 205	11 561	1 024	346	15	16

OH-20 OHIO

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
	YOUNGSTOWN—WARREN, OH MSA											
15,16,17	Construction industries	1 284	9 877	238 267	965 323	754 839	472 183	335 409	210 484	14 093	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	246	869	16 386	112 692	88 044	43 237	47 311	24 648	(S)	14	11
1522	Other residential buildings	(S)	57	(D)	3 573	2 795	(D)	1 596	778	(D)	(Z)	(Z)
1531	Operative builders	34	167	3 939	36 428	23 821	7 707	18 968	12 607	339	30	25
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	42	227	5 939	21 950	16 107	10 013	6 292	5 843	508	31	17
1542	Nonresidential buildings, n.e.c.	70	1 786	40 449	199 468	93 766	80 007	47 071	105 702	664	3	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	22	427	12 169	48 972	41 068	18 921	26 196	7 904	1 934	8	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	7	197	4 406	14 356	11 625	7 327	4 516	2 731	208	(Z)	(Z)
1623	Water, sewer, and utility lines	16	321	12 655	41 044	34 215	26 001	8 286	6 829	769	5	5
1629	Heavy construction, n.e.c.	36	254	6 519	29 394	24 353	15 892	9 232	5 041	495	20	14
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning.....	137	1 504	40 178	145 602	125 628	70 067	56 479	19 973	1 303	4	3
1721	Painting and paper hanging.....	91	465	12 310	54 117	52 108	36 213	15 908	*2 009	1 464	11	15
1731	Electrical work	(S)	821	25 106	71 395	66 754	40 676	27 667	4 641	523	4	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	61	304	3 967	11 914	11 635	8 259	3 382	278	758	24	16
1742	Plastering, drywall, and insulation work	35	294	7 897	25 537	22 608	13 475	9 164	(S)	(S)	11	11
1743	Terrazzo, tile, marble, and mosaic work	*17	*89	*2 658	*9 169	*8 868	*5 260	*3 640	*301	(D)	42	52
175	Carpentry and floor work:											
1751	Carpentry.....	80	396	6 456	24 443	22 237	14 788	8 582	2 206	*124	14	13
1752	Floor laying and other floor work	16	(D)	1 144	5 478	5 437	3 273	2 180	*41	54	(D)	5
1761	Roofing, siding, and sheet metal work	(S)	398	8 224	26 391	25 989	16 134	11 748	402	384	12	10
1771	Concrete work	53	307	5 138	18 650	17 440	10 397	7 043	1 211	1 107	18	14
1781	Water well drilling	(S)	*28	*511	*2 062	*1 945	*1 081	(D)	*116	*175	55	50
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	4	32	1 158	(D)	(D)	1 686	(D)	(D)	(D)	36	(D)
1793	Glass and glazing work	11	72	2 000	5 647	(D)	3 773	3 131	(D)	(D)	15	(D)
1794	Excavation work.....	60	228	3 984	16 770	15 153	11 467	3 723	1 617	*893	23	25
1795	Wrecking and demolition work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	7	158	3 766	8 703	(D)	7 794	1 279	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.	80	263	5 231	17 327	15 209	8 850	6 501	2 119	298	25	24

Contents

Wisconsin

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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 Wisconsin. 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 35,757 establishments in this State operating in the construction industries. These establishments accounted for \$12.1 billion in total dollar value of business done.

Most of the 35,757 construction establishments were small. Of the total, 23,043 were nonemployers, and over half of the employer establishments had less than 5 employees. The 4,736 construction establishments with 5 employees or more, while representing only 13 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 \$11.4 billion in total dollar value of business done. Of this amount, \$11.1 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.6 billion, leaving net value of construction work of \$8.5 billion. In addition, these establishments paid out \$4.1 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 \$5.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 12,714 establishments with total employment averaging 96,781 during the year. Total payroll for 1992 was \$2.6 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 23,043 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$708 million. Most of these establishments, about 85 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 

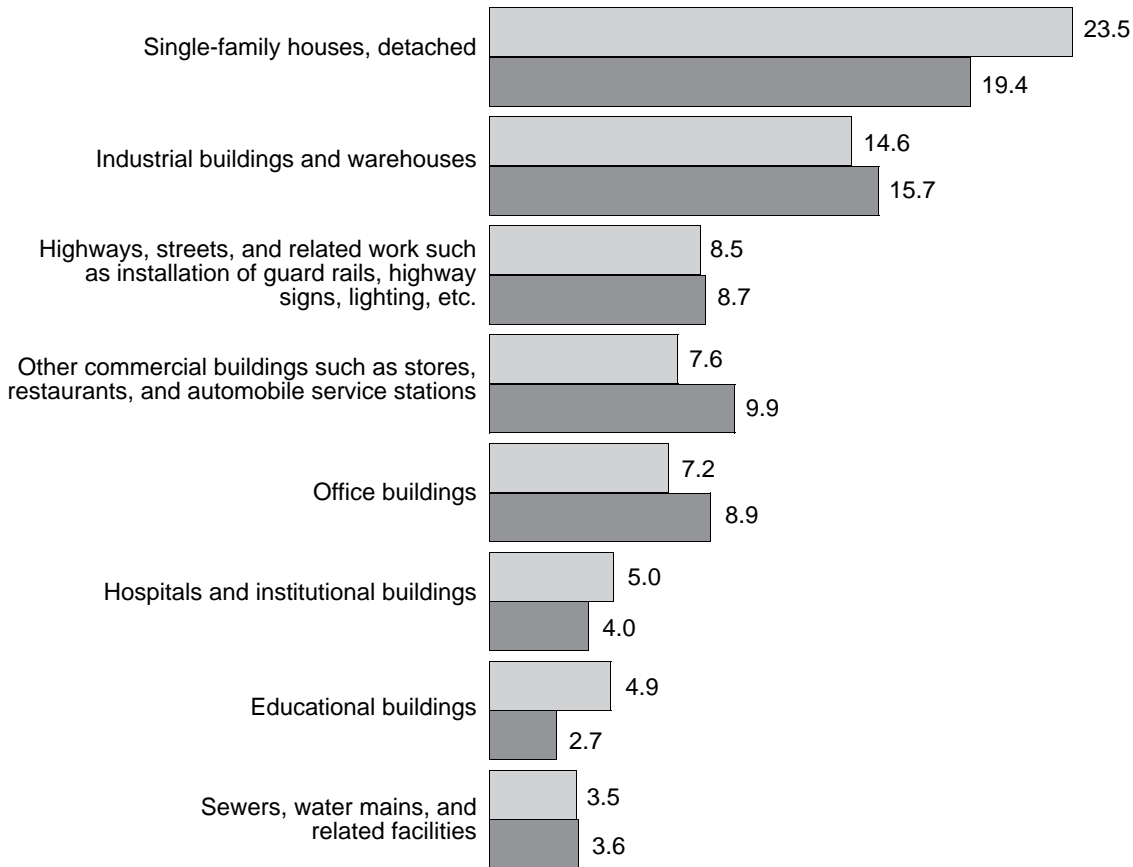




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

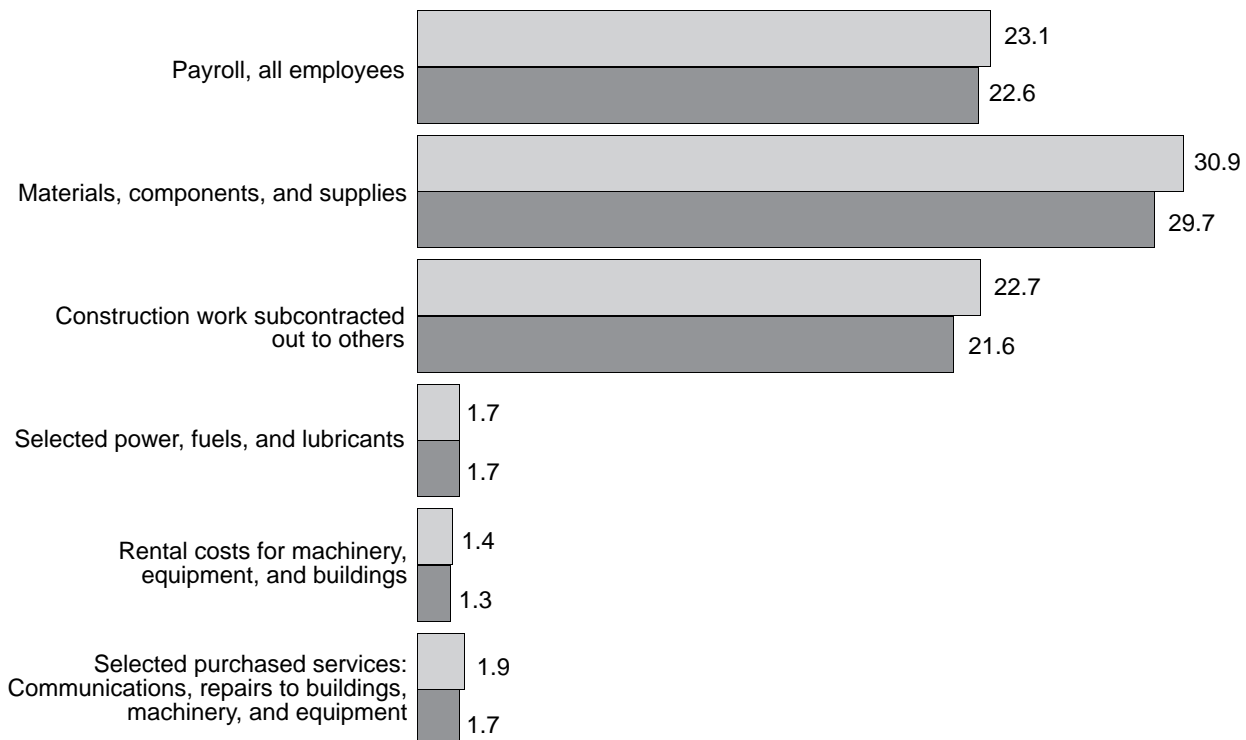


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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		
1992														
15, 16, 17	Construction industries -----	35 757	29 704	96 781	12 108 870	23 043	23 166	708 055	12 714	6 538	96 781	11 400 815	1	1
15	Building construction—General contractors and operative builders ----	6 599	4 922	25 279	4 543 317	3 156	3 100	234 591	3 443	1 822	25 279	4 308 726	1	2
16	Heavy construction other than building construction—contractors -----	875	430	12 062	2 170 975	220	206	5 826	655	224	12 062	2 165 149	2	1
17	Special trade contractors -----	28 283	24 353	59 440	5 394 578	19 667	19 860	467 638	8 616	4 493	59 440	4 926 940	1	1
1711	Plumbing, heating, and air-conditioning --	2 977	1 867	14 921	1 498 856	1 243	1 249	46 823	1 734	618	14 921	1 452 033	2	1
1731	Electrical work -----	2 323	1 591	9 932	879 232	1 254	1 242	32 472	1 069	349	9 932	846 760	2	1
1987														
15, 16, 17	Construction industries ² -----	34 069	27 094	77 419	8 701 940	23 338	23 351	952 393	10 731	3 743	77 419	7 749 547	1	1
15	Building construction—General contractors and operative builders ----	6 833	4 712	20 688	3 209 971	3 900	3 726	283 223	2 933	986	20 688	2 926 748	2	3
16	Heavy construction other than building construction—contractors -----	849	415	10 465	1 366 247	210	205	23 526	639	210	10 465	1 342 721	2	2
17	Special trade contractors -----	25 705	21 300	46 114	3 967 250	18 622	18 773	518 018	7 083	2 527	46 114	3 449 232	1	1
1711	Plumbing, heating, and air-conditioning --	2 877	1 797	11 208	1 029 137	1 326	1 322	57 604	1 551	475	11 208	971 533	2	2
1731	Electrical work -----	2 173	1 523	7 128	535 660	1 320	1 327	39 399	853	196	7 128	496 261	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	12 714	96 781	75 745	2 634 937	1 957 373	11 078 769	8 491 178	5 096 395
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses.....	2 402	9 554	7 246	184 622	128 481	1 319 855	866 558	399 065
1522	Other residential buildings.....	158	1 118	843	25 083	17 881	155 174	95 779	43 145
1531	Operative builders.....	221	930	501	24 231	10 752	304 081	168 724	81 525
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses.....	156	4 639	3 619	158 755	123 463	703 260	412 575	269 814
1542	Nonresidential buildings, n.e.c.....	506	9 039	6 663	295 680	193 368	1 688 776	830 970	491 955
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction.....	152	4 548	3 803	179 156	142 956	914 358	667 240	419 075
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction.....	12	1 155	1 007	44 257	36 219	323 954	211 177	112 780
1623	Water, sewer, and utility lines.....	215	3 902	3 287	126 066	98 860	478 261	438 085	289 464
1629	Heavy construction, n.e.c.....	276	2 457	1 892	76 132	57 090	365 917	254 439	165 916
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning.....	1 734	14 921	11 119	437 937	321 278	1 428 177	1 326 527	812 310
1721	Painting and paper hanging.....	748	3 283	2 713	65 853	51 056	173 822	167 517	124 027
1731	Electrical work.....	1 069	9 932	7 957	298 815	235 483	834 393	803 649	485 555
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework.....	531	3 471	3 003	80 216	68 190	246 941	237 964	149 591
1742	Plastering, drywall, and insulation work.....	441	3 856	3 203	92 553	72 076	273 405	260 526	164 408
1743	Terrazzo, tile, marble, and mosaic work.....	88	500	386	11 929	8 781	34 599	34 320	20 132
175	Carpentry and floor work:								
1751	Carpentry.....	1 086	3 994	3 241	77 005	61 061	295 295	258 939	149 480
1752	Floor laying and other floor work.....	321	1 223	920	26 297	19 207	98 575	93 334	52 541
1761	Roofing, siding, and sheet metal work.....	718	4 947	3 926	112 051	80 051	380 679	363 588	212 741
1771	Concrete work.....	719	4 614	3 807	106 456	80 775	383 970	363 352	211 449
1781	Water well drilling.....	137	642	446	14 022	9 813	61 952	60 198	33 900
179	Miscellaneous special trade contractors:								
1791	Structural steel erection.....	78	889	739	27 738	21 846	76 432	73 677	53 879
1793	Glass and glazing work.....	59	786	497	20 960	11 278	59 981	58 846	41 712
1794	Excavation work.....	389	2 246	1 813	52 137	41 044	191 964	172 362	123 282
1795	Wrecking and demolition work.....	18	114	88	2 819	1 932	11 217	10 024	8 244
1796	Installing building equipment, n.e.c.....	98	1 526	1 148	40 029	27 114	109 229	105 653	79 896
1799	Special trade contractors, n.e.c.....	382	2 495	1 881	54 138	37 319	164 504	155 157	100 511

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	
3 716 829	2 587 592	3 049 072	158 775	244 139	1 979 103	77 419	7 481 951	3 605 139	1	1	3	15, 16, 17
501 902	453 297	41 476	8 450	16 299	105 286	7 893	(D)	276 405	4	5	10	152
55 629	59 395	4 603	935	*1 902	*22 488	1 694	266 351	76 619	15	17	44	1522
110 022	135 357	(S)	*1 205	*4 158	33 013	684	(D)	55 887	12	13	55	1531
160 553	290 685	55 115	3 434	5 680	86 383	2 830	369 335	134 820	3	2	11	154
398 576	857 806	78 122	10 703	19 939	157 098	7 587	1 174 550	436 955	2	2	3	1542
												16
319 938	247 118	306 308	29 953	34 240	379 937	4 381	662 689	314 077	2	1	5	1611
(D)	112 777	22 867	3 637	6 757	55 340	977	148 661	61 930	(Z)	(Z)	1	162
149 616	40 177	73 944	22 471	23 402	173 853	3 500	327 181	203 108	3	4	12	1622
96 917	111 478	95 243	12 417	18 393	132 483	1 607	173 335	92 049	7	7	24	1623
												17
538 073	101 650	681 884	17 018	26 425	179 486	11 208	943 910	514 494	2	1	10	1711
48 324	6 304	79 349	2 323	4 013	24 684	2 904	125 782	94 758	5	5	23	1721
330 460	(S)	338 436	8 657	13 153	91 300	7 128	483 991	294 711	2	1	10	1731
90 260	8 977	180 316	3 073	5 319	38 720	2 660	156 069	92 226	5	5	17	174
103 877	12 879	239 487	3 433	3 205	22 822	2 559	166 923	95 428	3	3	15	1742
14 697	(S)	31 832	277	854	4 144	359	27 262	14 426	13	8	26	1743
												175
112 653	36 356	100 613	2 000	4 638	29 201	2 567	163 947	81 410	5	5	18	1751
44 334	5 241	53 419	1 308	2 607	11 214	742	50 740	28 165	8	8	26	1752
157 345	17 092	149 113	5 285	7 125	65 129	4 317	284 358	158 898	3	3	13	1761
158 742	20 618	175 412	4 718	14 361	106 831	3 662	257 993	151 330	4	4	17	1771
26 554	1 754	7 476	852	*4 584	36 110	328	25 829	14 551	15	13	45	1781
(D)	2 756	44 163	1 489	724	10 269	799	66 489	45 206	10	8	20	179
28 544	1 135	44 659	1 409	750	8 024	816	55 149	33 857	5	5	25	1791
56 184	19 602	122 733	8 455	18 753	142 594	2 004	172 266	114 945	8	6	16	1793
1 895	1 193	555	434	1 021	5 990	136	5 479	4 927	3	4	(Z)	1794
30 031	3 576	44 640	1 611	2 665	27 475	1 797	223 149	115 496	5	4	3	1795
60 957	9 347	66 013	3 228	3 173	29 228	2 128	143 184	88 473	8	7	18	1796
												1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

WISCONSIN WI-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	12 714	10 731	10 055	11 016	1	1	2	2
Proprietors and working partners.....	6 538	3 743	3 858	5 806	2	4	4	4
All employees**	96 781	77 419	65 892	80 680	1	1	1	1
Construction workers:								
March.....	61 228	49 009	42 241	53 042	1	1	1	1
May.....	78 018	62 189	53 877	70 423	1	1	1	1
August.....	86 213	69 941	58 478	78 079	1	1	1	1
November.....	77 523	63 796	52 911	71 878	1	1	2	1
Average.....	75 745	61 234	52 996	68 415	1	1	1	1
Other employees:								
March.....	20 785	15 570	12 842	11 663	1	1	2	2
May.....	20 872	16 049	(NA)	(NA)	1	1	(NA)	(NA)
August.....	21 170	16 534	(NA)	(NA)	1	1	(NA)	(NA)
November.....	21 314	16 598	(NA)	(NA)	1	1	(NA)	(NA)
Average.....	21 035	16 188	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	2 634 937	1 750 847	1 218 540	1 117 593	(Z)	1	1	1
Payroll, construction workers	1 957 373	1 316 924	945 721	920 932	(Z)	1	1	1
Payroll, other employees	677 564	433 923	272 819	196 661	1	1	1	1
First-quarter payroll, all employees	529 388	347 320	248 844	204 377	1	1	1	1
Fringe benefits, all employees	739 421	439 900	218 534	211 139	1	1	1	1
Legally required expenditures.....	429 306	277 813	161 965	111 758	1	1	1	1
Voluntary expenditures.....	310 116	162 087	56 569	99 382	1	1	1	1
Dollar value of business done	11 400 815	7 749 547	4 499 025	4 362 260	1	1	1	1
Value of construction work	11 078 769	7 481 951	4 361 699	4 205 483	1	1	1	1
Value of construction work subcontracted in from others	3 049 072	1 622 570	923 855	960 195	2	2	2	1
Other business receipts.....	322 046	234 380	126 458	156 776	3	3	2	5
Net value of construction†	8 491 178	5 806 805	3 471 757	3 365 134	1	1	1	1
Value added††	5 096 395	3 605 139	2 091 361	1 916 136	1	1	1	1
Selected costs	6 304 420	4 111 193	2 396 796	2 403 249	1	2	1	1
Materials, components, and supplies	3 525 038	2 303 469	1 403 418	1 489 178	1	1	1	1
Construction work subcontracted out to others	2 587 592	1 675 146	889 942	840 349	1	3	1	2
Selected power, fuels, and lubricants.....	191 791	132 577	103 436	73 722	1	2	2	1
Electricity.....	23 635	15 078	11 080	7 596	3	2	2	2
Natural gas.....	11 412	6 290	5 896	4 406	3	2	4	3
Gasoline and diesel fuel	143 888	103 359	77 569	52 643	1	2	2	1
On highway use.....	97 639	68 744	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use.....	46 249	34 614	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases.....	12 855	7 848	8 889	9 079	3	3	2	3
Rental cost for machinery, equipment, and buildings	158 775	99 749	54 810	44 772	3	2	2	1
For machinery and equipment	105 869	64 993	38 431	35 551	4	3	2	1
For buildings.....	52 906	34 756	16 379	9 222	4	3	3	2
Selected purchased services	218 088	128 551	77 669	77 432	2	2	1	6
Communication services	54 768	28 534	20 814	18 269	4	2	2	8
Repairs to buildings and other structures	11 596	7 255	4 549	3 582	6	10	4	5
Repairs to machinery and equipment	151 724	92 760	52 306	55 582	2	2	2	7
Ownership of construction projects:								
Value of construction work	11 078 769	7 481 951	4 361 699	4 205 483	1	1	1	1
Government owned	2 719 702	1 503 252	989 178	710 781	1	2	3	1
Federal	438 495	427 980	(NA)	(NA)	3	3	(NA)	(NA)
State and local	2 281 208	1 075 272	(NA)	(NA)	2	2	(NA)	(NA)
Privately owned	8 359 067	5 978 699	3 372 520	3 494 702	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	1 812 923	1 091 416	2	2
Capital expenditures, other than land	244 139	162 187	3	3
New	182 441	120 299	4	3
Used	61 698	41 887	6	6
Retirements and disposition of depreciable assets	77 959	46 959	7	6
End-of-year gross book value of depreciable assets	1 979 103	1 206 644	2	2
Depreciation charges during year	212 408	131 259	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	244 632	195 587	8	3
Capital expenditures, other than land	20 571	21 283	11	8
New buildings and other structures	14 850	16 344	11	9
Used buildings and other structures	5 721	4 938	30	18
Retirements and disposition of depreciable assets	13 165	5 867	35	16
End-of-year gross book value of depreciable assets	252 038	211 003	6	3
Depreciation charges during year	16 643	13 901	6	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	1 568 292	895 829	2	2
Capital expenditures, other than land	223 568	140 903	3	3
New machinery and equipment, including automobiles and trucks	167 591	103 954	4	3
New automobiles and trucks, intended primarily for highway use	62 528	45 635	5	4
Used machinery and equipment, including automobiles and trucks	55 977	36 949	6	6
Retirements and disposition of depreciable assets	64 794	41 092	5	6
End-of-year gross book value of depreciable assets	1 727 065	995 640	2	2
Depreciation charges during year	195 765	117 358	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 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	12 714	1
Value of construction work	11 078 769	1
Establishments with inventories:		
Number	4 607	2
Value of construction work	6 369 358	1
Inventories ¹ :		
End of 1992, materials and supplies	166 596	4
End of 1991, materials and supplies	160 964	4
Establishments with no inventories:		
Number	4 751	2
Value of construction work	3 283 241	1
Establishments not reporting:		
Number	3 356	2
Value of construction work	1 426 170	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	12 714	7 979	2 546	1 271	692	147	59	18	2	1
All employees**	96 781	15 560	16 525	16 468	20 519	9 903	8 352	6 394	3 061	(D)
Payroll, all employees	2 634 937	268 202	340 784	417 335	613 940	334 437	306 036	241 752	112 451	(D)
Dollar value of business done	11 400 815	1 586 583	1 512 831	1 693 111	2 351 335	1 310 356	1 357 209	1 589 391	(D)	(D)
Value of construction work	11 078 769	1 564 423	1 463 068	1 652 406	2 292 169	1 251 858	1 327 034	1 527 811	(D)	(D)
Net value of construction work†	8 491 178	1 300 334	1 189 163	1 321 456	1 811 726	918 516	902 538	755 306	292 139	(D)
Value added††	5 096 395	713 318	663 818	774 799	1 110 445	614 796	571 374	462 112	185 733	(D)
Cost of materials, components, supplies, and fuels	3 716 829	609 175	575 107	587 361	760 448	362 218	361 339	351 115	110 065	(D)
Cost of construction work subcontracted out to others	2 587 592	264 090	273 905	330 950	480 443	333 342	424 496	480 366	(D)	(D)
Rental cost for machinery, equipment, and buildings	158 775	13 448	20 007	25 605	30 060	16 930	27 373	25 352	(D)	(D)
Capital expenditures, other than land	244 139	39 673	39 778	42 083	49 408	21 301	24 332	27 564	(D)	(D)
End-of-year gross book value of depreciable assets	1 979 103	271 505	225 708	320 102	454 561	214 105	235 853	257 269	(D)	(D)
1987										
All employees**	77 419	13 914	14 935	13 268	15 107	8 409	7 666	4 117	(D)	—
Value of construction work	7 481 951	1 087 062	1 219 241	1 120 986	1 559 994	898 730	1 002 157	593 780	(D)	—
Value added††	3 605 139	505 218	553 749	569 075	751 823	443 552	490 582	291 138	(D)	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	3	4	4	2	(Z)	(Z)	(Z)	(Z)	(D)
Net value of construction work†	1	4	5	3	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	3	10	13	10	3	(Z)	(Z)	(Z)	(D)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	12 714	(S)	(S)	1 570	3 545	2 570	1 594	1 190	423	196	149
All employees**	96 781	(S)	(S)	2 448	9 578	12 189	12 446	17 346	11 709	8 602	21 149
Payroll, all employees	2 634 937	(S)	(S)	28 746	146 755	226 488	278 743	466 648	362 632	301 615	812 614
Dollar value of business done	11 400 815	(S)	(S)	116 321	581 254	894 560	1 115 205	1 824 806	1 460 917	1 326 873	4 040 846
Value of construction work	11 078 769	(S)	(S)	114 504	576 914	880 329	1 083 793	1 787 440	1 424 810	1 269 716	3 901 465
Net value of construction work†	8 491 178	(S)	(S)	106 877	540 330	800 556	937 039	1 506 169	1 114 716	951 773	2 496 626
Value added††	5 096 395	(S)	(S)	64 482	316 593	457 526	544 146	889 267	661 986	572 090	1 567 590
Cost of materials, components, supplies, and fuels	3 716 829	(S)	(S)	44 212	228 078	357 261	424 305	654 267	488 837	436 840	1 068 418
Cost of construction work subcontracted out to others	2 587 592	(S)	(S)	7 627	36 584	79 773	146 754	281 272	310 094	317 942	1 404 839
Rental cost for machinery, equipment, and buildings	158 775	(S)	(S)	1 465	5 671	11 351	18 225	26 128	17 543	15 854	62 171
Capital expenditures, other than land	244 139	(S)	(S)	4 052	17 495	27 424	32 275	46 275	29 154	20 478	65 750
End-of-year gross book value of depreciable assets	1 979 103	(S)	(S)	27 248	121 014	165 612	174 688	357 429	251 900	241 986	629 469
1987											
All employees**	77 419	(S)	(S)	3 124	10 220	9 846	11 002	11 802	10 118	7 562	12 354
Value of construction work	7 481 951	(S)	(S)	121 882	536 742	623 335	851 424	1 150 224	1 174 714	947 070	2 041 985
Value added††	3 605 139	(S)	(S)	69 976	289 739	329 621	422 156	581 960	565 654	422 058	903 699
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	8	5	5	5	3	2	1	(Z)
Net value of construction work†	1	(S)	(S)	6	4	5	5	3	3	2	(Z)
Capital expenditures, other than land	3	(S)	(S)	19	12	16	13	10	4	1	(Z)

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

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	11 078 769	6 755 021	2 717 918	1 312 810	1	1	1	2
Building construction	8 218 231	5 133 745	2 077 558	1 006 929	1	1	2	2
Single-family houses	2 933 746	2 056 807	573 614	303 325	2	3	4	4
Single-family houses, detached	2 602 401	1 811 578	521 157	269 667	3	3	4	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	331 345	245 229	52 457	33 659	8	11	12	11
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	359 435	253 650	59 100	46 685	7	6	19	20
Other residential buildings, including hotels, motels, and tourist cabins.....	129 938	80 282	32 881	16 775	7	9	11	15
Office buildings	793 537	508 953	204 532	80 052	2	2	4	3
Other commercial buildings such as stores, restaurants, and automobile service stations	846 920	520 926	221 723	104 270	2	3	3	4
Industrial buildings and warehouses	1 618 138	829 750	482 933	305 456	1	1	2	2
Industrial buildings	1 358 103	660 138	414 643	283 322	1	1	2	3
Warehouses	260 035	169 611	68 290	22 134	2	3	3	5
Religious buildings	120 850	61 668	36 203	22 979	3	3	5	6
Educational buildings	543 003	323 722	169 778	49 504	2	1	3	6
Hospitals and institutional buildings	555 435	310 571	199 014	45 850	1	1	2	4
Farm buildings, nonresidential	112 892	76 625	19 509	16 758	10	13	18	12
Other nonresidential buildings	204 336	110 790	78 272	15 275	4	5	7	10
Nonbuilding construction.....	2 567 518	1 621 276	640 360	305 881	1	1	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	936 639	421 777	357 044	157 818	1	2	1	4
Private driveways and parking areas	125 347	73 599	29 746	22 001	6	6	10	9
Bridges, tunnels, and elevated highways	321 761	284 737	(D)	(D)	1	(Z)	(D)	(D)
Conservation and development construction	76 879	65 202	(D)	(D)	8	7	(D)	(D)
Power and communication transmission lines, towers, and related facilities.....	116 394	72 446	27 195	16 753	5	5	3	11
Sewers, water mains, and related facilities.....	392 788	287 170	64 977	40 642	6	6	12	13
Sewers, sewer lines, septic systems, and related facilities	261 216	196 037	44 381	20 797	6	6	11	13
Water mains and related facilities.....	131 572	91 132	20 595	19 845	9	8	15	15
Pipeline construction other than sewer or water lines	140 492	101 205	28 601	10 686	3	(Z)	1	31
Sewage treatment and water treatment plants	247 707	201 941	40 128	5 638	2	2	2	5
Other nonbuilding construction	209 511	113 200	53 800	42 511	4	5	5	6
Construction work, n.s.k.....	293 021	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1987								
Value of construction work	7 481 951	4 494 762	1 700 502	961 389	1	2	2	2
Building construction	5 536 209	3 483 178	1 337 933	715 098	2	2	3	2
Single-family houses	1 669 005	1 132 214	318 512	182 278	4	6	4	5
Single-family houses, detached	1 450 163	958 385	298 784	192 993	4	6	5	5
Single-family houses, attached, including townhouses and townhouse-type condominiums	218 841	173 829	19 727	25 285	11	14	11	19
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	333 116	238 836	64 507	29 772	8	9	21	7
Other residential buildings, including hotels, motels, and tourist cabins.....	162 735	108 248	28 358	26 128	4	4	10	13
Office buildings	668 707	451 102	152 606	64 997	2	2	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations	741 957	452 876	205 434	83 646	3	3	3	5
Industrial buildings and warehouses	1 171 668	656 432	333 687	181 548	3	3	4	4
Industrial buildings	972 804	525 256	283 658	163 890	2	3	3	4
Warehouses	198 864	131 176	50 029	17 657	7	7	10	11
Religious buildings	90 593	38 907	32 237	19 447	4	6	8	5
Educational buildings	202 396	109 913	60 470	32 012	4	5	4	10
Hospitals and institutional buildings	299 803	170 454	103 308	26 039	3	3	6	4
Farm buildings, nonresidential	93 748	60 022	15 466	18 259	8	11	9	12
Other nonresidential buildings	102 481	64 174	23 348	14 972	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction.....	1 620 445	1 011 584	362 569	246 292	2	2	3	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	647 276	308 284	215 511	123 480	2	2	3	3
Private driveways and parking areas	88 266	53 446	19 961	14 858	13	15	15	24
Bridges, tunnels, and elevated highways	156 604	122 313	21 151	13 139	1	2	3	4
Power and communication transmission lines, towers, and related facilities.....	70 087	50 248	13 595	6 243	6	4	22	13
Sewers, water mains, and related facilities.....	271 928	217 581	31 173	23 172	3	3	9	6
Sewers, sewer lines, septic systems, and related facilities	190 768	153 531	21 773	15 464	3	3	10	7
Water mains and related facilities.....	81 159	64 050	9 400	7 708	5	5	13	7
Pipeline construction other than sewer or water lines	52 000	32 863	12 712	6 424	7	(Z)	14	28
Sewage treatment and water treatment plants	94 391	73 566	15 435	5 388	4	4	3	21
Other nonbuilding construction	239 893	153 283	33 031	53 588	12	13	17	17
Construction work, n.s.k.....	325 297	(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
15, 16, 17	Construction industries -----	12 714	75 745	61 228	78 018	86 213	77 523	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	2 402	7 246	6 407	7 375	8 113	7 088	3	4	4	4	4	4
1522	Other residential buildings -----	158	843	784	831	904	853	17	14	14	14	15	14
1531	Operative builders -----	221	501	466	476	553	511	14	13	13	12	13	14
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	156	3 619	3 487	3 457	4 026	3 507	13	3	2	3	3	3
1542	Nonresidential buildings, n.e.c. ---	506	6 663	5 287	6 562	7 589	7 214	8	2	2	3	3	2
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction ----	152	3 803	1 369	4 640	5 437	3 766	11	2	5	2	2	2
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	12	1 007	511	1 188	1 353	976	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1623	Water, sewer, and utility lines ----	215	3 287	1 928	3 446	3 937	3 837	11	3	3	3	3	3
1629	Heavy construction, n.e.c. -----	276	1 892	1 280	2 001	2 390	1 896	12	7	7	7	7	7
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	1 734	11 119	10 454	11 224	11 460	11 339	2	2	2	2	2	2
1721	Painting and paper hanging -----	748	2 713	2 181	2 820	3 325	2 527	4	5	6	6	6	5
1731	Electrical work -----	1 069	7 957	7 426	7 843	8 427	8 130	2	2	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	531	3 003	2 300	3 026	3 350	3 337	5	5	5	5	5	4
1742	Plastering, drywall, and insulation work -----	441	3 203	3 011	3 236	3 365	3 199	5	3	4	4	3	3
1743	Terrazzo, tile, marble, and mosaic work -----	88	386	363	352	423	403	11	12	11	12	14	9
175	Carpentry and floor work:												
1751	Carpentry -----	1 086	3 241	2 924	3 332	3 491	3 216	3	5	6	5	5	5
1752	Floor laying and other floor work --	321	920	873	930	1 022	853	7	8	8	8	8	8
1761	Roofing, siding, and sheet metal work -----	718	3 926	3 012	4 026	4 474	4 190	4	3	4	3	3	3
1771	Concrete work -----	719	3 807	1 980	4 228	4 982	4 038	5	4	6	4	5	5
1781	Water well drilling -----	137	446	371	454	492	467	14	14	15	14	14	15
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	78	739	559	721	913	765	18	11	9	16	10	11
1793	Glass and glazing work -----	59	497	462	499	496	529	13	6	7	5	5	6
1794	Excavation work -----	389	1 813	1 217	1 968	2 257	1 808	8	8	11	9	7	8
1795	Wrecking and demolition work ----	18	88	72	65	110	105	19	4	5	5	3	3
1796	Installing building equipment, n.e.c. -----	98	1 148	985	1 145	1 173	1 288	14	5	4	8	6	3
1799	Special trade contractors, n.e.c. ---	382	1 881	1 519	2 172	2 151	1 681	9	8	8	10	8	8

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	7.6	27.2	146.3	.238	.335	.234	.275	.014
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.0	19.3	182.1	.140	.380	.343	.031	.006
1522	Other residential buildings -----	7.1	22.4	184.1	.162	.358	.383	.030	.006
1531	Operative builders -----	4.2	26.1	606.9	.080	.362	.445	(S)	*.004
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	29.7	34.2	194.3	.226	.228	.413	.078	.005
1542	Nonresidential buildings, n.e.c. -----	17.8	32.7	253.5	.175	.236	.508	.046	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	29.9	39.4	240.4	.196	.350	.270	.335	.033
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	96.3	38.3	321.7	.137	(D)	.348	.071	.011
1623	Water, sewer, and utility lines -----	18.2	32.3	145.5	.264	.313	.084	.155	.047
1629	Heavy construction, n.e.c. -----	8.9	31.0	193.4	.208	.265	.305	.260	.034
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.6	29.4	128.4	.307	.377	.071	.477	.012
1721	Painting and paper hanging -----	4.4	20.1	64.1	.379	.278	.036	.456	.013
1731	Electrical work -----	9.3	30.1	104.9	.358	.396	(S)	.406	.010
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.5	23.1	82.2	.325	.366	.036	.730	.012
1742	Plastering, drywall, and insulation work -----	8.7	24.0	85.4	.339	.380	.047	.876	.013
1743	Terrazzo, tile, marble, and mosaic work -----	5.7	23.9	89.6	.345	.425	(S)	.920	.008
175	Carpentry and floor work:								
1751	Carpentry -----	3.7	19.3	91.1	.261	.381	.123	.341	.007
1752	Floor laying and other floor work -----	3.8	21.5	107.1	.267	.450	.053	.542	.013
1761	Roofing, siding, and sheet metal work -----	6.9	22.7	97.0	.294	.413	.045	.392	.014
1771	Concrete work -----	6.4	23.1	100.9	.277	.413	.054	.457	.012
1781	Water well drilling -----	4.7	21.8	138.9	.226	.429	.028	.121	.014
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	11.3	31.2	103.4	.363	(D)	.036	.578	.019
1793	Glass and glazing work -----	13.3	26.7	120.7	.349	.476	.019	.745	.023
1794	Excavation work -----	5.8	23.2	105.9	.272	.293	.102	.639	.044
1795	Wrecking and demolition work -----	6.3	24.7	127.5	.251	.169	.106	.049	.039
1796	Installing building equipment, n.e.c. -----	15.6	26.2	95.1	.366	.275	.033	.409	.015
1799	Special trade contractors, n.e.c. -----	6.5	21.7	87.5	.329	.371	.057	.401	.020

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
	CHICAGO-GARY-KENOSHA, IL-IN-WI CMSA											
15,16,17	Construction industries	17 461	168 121	5 399 233	22 184 439	16 162 846	10 365 237	6 228 715	6 021 593	279 047	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 885	11 080	233 167	1 376 443	983 916	527 016	491 491	392 527	12 220	4	4
1522	Other residential buildings	243	1 227	33 414	237 423	116 365	73 322	43 972	121 059	1 346	10	9
1531	Operative builders	548	5 255	184 956	2 318 036	1 243 261	803 724	478 592	1 074 775	9 348	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	234	3 719	137 975	904 972	414 983	257 419	187 174	489 989	6 576	5	3
1542	Nonresidential buildings, n.e.c.	856	12 245	444 751	3 659 631	1 234 914	792 052	543 363	2 424 717	21 504	3	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	201	5 458	221 418	1 017 241	780 051	478 541	349 073	237 189	25 837	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	30	1 974	86 144	374 933	273 385	189 102	84 397	101 548	6 403	4	12
1623	Water, sewer, and utility lines	239	4 256	170 523	590 859	506 731	336 813	181 403	84 128	19 833	3	2
1629	Heavy construction, n.e.c.	(S)	7 450	269 993	1 088 583	843 673	664 918	244 021	244 910	21 311	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	2 446	25 623	867 194	2 657 598	2 406 530	1 506 359	924 498	251 067	29 898	2	2
1721	Painting and paper hanging	996	5 830	161 165	375 898	343 850	263 365	82 935	32 048	6 311	4	3
1731	Electrical work	1 723	19 593	727 771	1 992 008	1 885 342	1 200 925	691 395	106 666	21 936	1	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work.....	816	6 484	184 849	484 270	464 542	311 663	154 936	19 728	7 013	3	4
1742	Plastering, drywall, and insulation work	506	6 676	208 099	564 077	518 750	339 914	180 603	45 328	5 270	3	4
1743	Terrazzo, tile, marble, and mosaic work	157	1 237	35 821	104 163	(D)	61 701	37 746	(D)	695	5	(D)
175	Carpentry and floor work:											
1751	Carpentry	1 357	9 556	259 590	761 948	698 659	420 608	284 683	63 288	10 802	3	3
1752	Floor laying and other floor work	395	2 687	77 301	262 710	244 966	137 171	110 431	17 744	5 292	6	4
1761	Roofing, siding, and sheet metal work	946	8 807	261 216	842 191	768 463	467 465	307 554	73 728	12 749	3	4
1771	Concrete work	1 095	8 991	244 995	868 094	788 541	441 503	351 094	79 553	21 069	3	3
1781	Water well drilling	54	421	13 407	39 793	(D)	24 851	14 483	(D)	1 904	9	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	102	1 833	64 863	177 653	161 900	112 839	53 591	15 753	2 714	6	2
1793	Glass and glazing work	151	1 372	41 712	126 986	122 562	70 719	59 204	4 424	850	6	4
1794	Excavation work	351	2 531	85 334	285 719	257 998	189 803	73 018	27 721	14 145	5	4
1795	Wrecking and demolition work	(S)	1 529	32 845	89 343	(D)	70 086	23 211	(D)	3 295	3	(D)
1796	Installing building equipment, n.e.c.	131	3 704	129 286	353 616	333 078	230 855	105 977	20 538	3 408	2	1
1799	Special trade contractors, n.e.c.	730	8 584	221 445	630 249	554 850	392 504	169 869	75 399	7 318	8	5
	Chicago, IL PMSA											
15,16,17	Construction industries	15 745	150 021	4 872 634	20 279 362	14 635 290	9 343 621	5 695 384	5 644 072	248 879	1	1
	(See appropriate State for SIC detail.)											
	Gary, IN PMSA											
15,16,17	Construction industries	1 245	14 122	405 843	1 419 834	1 163 027	783 878	397 404	256 807	22 143	2	2
	(See appropriate State for SIC detail.)											
	Kankakee, IL PMSA											
15,16,17	Construction industries	(S)	1 854	58 314	220 555	175 810	123 380	56 394	44 745	5 023	8	5
	(See appropriate State for SIC detail.)											

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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
	CHICAGO—GARY—KENOSHA, IL—IN—WI CMSA—Con.											
	Kenosha, WI PMSA											
15,16,17	Construction industries	290	2 124	62 443	264 688	188 720	114 359	79 533	75 969	3 002	3	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	63	(S)	4 525	24 505	15 981	8 384	9 048	8 524	(D)	(S)	11
1522	Other residential buildings	*5	*9	133	942	(D)	378	187	(D)	(D)	58	(D)
1531	Operative builders	*4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	8	218	7 431	36 317	19 042	13 600	6 073	17 275	(D)	(D)	(Z)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	—	—	—	—	—	—	—	—	—	—	—
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c.	5	(D)	394	(D)	(D)	1 576	499	(D)	(D)	(D)	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	37	422	14 134	45 434	40 649	29 807	11 289	4 785	*458	4	6
1721	Painting and paper hanging	(S)	109	2 536	(D)	(D)	4 778	1 682	(D)	173	7	(D)
1731	Electrical work	16	181	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	(D)
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	11	44	530	2 235	2 185	1 796	699	(S)	(D)	(Z)	(Z)
1742	Plastering, drywall, and insulation work	14	(D)	(D)	(D)	(D)	2 071	(D)	(D)	(D)	(D)	(D)
1743	Terrazzo, tile, marble, and mosaic work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	28	*105	*2 150	7 255	6 794	*4 380	2 424	461	(D)	44	36
1752	Floor laying and other floor work	5	(D)	(D)	4 546	4 241	2 217	(D)	305	(D)	(D)	1
1761	Roofing, siding, and sheet metal work	14	71	1 570	5 235	5 151	2 812	2 339	*84	(D)	22	21
1771	Concrete work	29	140	2 862	11 073	10 673	5 767	4 928	400	(D)	10	6
1781	Water well drilling	(S)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	—	—	—	—	—	—	—	—	—	—	—
1793	Glass and glazing work	5	16	244	(D)	(D)	(D)	(D)	(D)	(D)	9	(D)
1794	Excavation work	9	33	972	4 041	3 539	2 442	1 097	502	(D)	12	8
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
1799	Special trade contractors, n.e.c.	7	11	267	952	(D)	582	341	(D)	(D)	(Z)	(D)
	MILWAUKEE—RACINE, WI CMSA											
15,16,17	Construction industries	3 669	31 927	929 071	3 696 665	2 855 345	1 773 710	1 186 066	841 320	64 107	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	584	2 541	60 725	466 983	284 902	131 101	168 397	182 081	3 122	6	10
1522	Other residential buildings	22	244	7 295	33 263	(D)	12 301	9 700	(D)	79	11	(D)
1531	Operative builders	85	244	7 168	104 295	(D)	27 026	28 115	(D)	1 156	15	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	29	683	20 808	112 614	65 225	48 555	19 574	47 390	605	5	5
1542	Nonresidential buildings, n.e.c.	145	2 475	91 073	527 794	228 069	161 237	91 791	299 725	5 340	5	5

CONSTRUCTION—GEOGRAPHIC AREA SERIES

WISCONSIN WI-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
	MILWAUKEE—RACINE, WI CMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	32	1 269	53 374	296 916	206 552	128 204	107 377	90 365	11 143	3	1
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1622		63	1 460	45 768	170 667	157 281	103 868	53 586	13 385	7 441	6	4
1623	Water, sewer, and utility lines -----	63	470	13 888	46 085	40 488	27 460	15 608	5 597	1 323	9	6
1629	Heavy construction, n.e.c. -----	45										
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	465	5 167	164 569	515 558	473 720	296 115	181 099	41 838	6 520	2	2
1721	Painting and paper hanging-----	252	1 207	25 341	60 754	58 315	43 761	14 708	2 439	596	8	5
1731	Electrical work -----	327	3 769	127 046	357 430	338 855	198 321	144 562	(S)	4 631	3	2
174	Masonry, stone work, tile setting, and plastering: Masonry, stone setting, and other stone work-----	197	1 741	43 579	129 840	125 394	80 153	46 656	4 446	1 856	7	9
1741		106	1 336	35 435	91 789	86 611	59 384	28 291	5 178	1 171	5	3
1742	Plastering, drywall, and insulation work -----	106	1 336	35 435	91 789	86 611	59 384	28 291	5 178	1 171	5	3
1743	Terrazzo, tile, marble, and mosaic work -----	32	293	7 297	(D)	(D)	(D)	(D)	(S)	439	19	(D)
175	Carpentry and floor work: Carpentry-----	360	1 535	34 847	103 562	92 400	59 351	33 843	11 163	1 433	8	7
1751		1752	(S)	642	13 481	44 457	41 303	24 395	19 153	3 154	1 273	11
1761	Roofing, siding, and sheet metal work -----	255	1 982	47 159	165 406	156 071	94 794	63 655	9 335	2 704	5	4
1771	Concrete work -----	202	1 307	32 148	104 854	98 570	57 451	43 230	6 285	2 630	8	7
1781	Water well drilling -----	29	199	7 484	21 834	21 025	12 625	8 401	809	678	12	17
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	21	341	11 875	33 774	31 550	21 475	11 052	2 224	(D)	9	6
1793	Glass and glazing work -----	23	357	(D)	28 130	27 234	19 237	13 861	895	(D)	8	8
1794	Excavation work -----	92	696	17 034	65 666	56 447	39 551	17 411	9 218	6 797	15	7
1795	Wrecking and demolition work -----	9	(D)	(D)	5 067	4 482	3 531	987	585	(D)	(D)	(Z)
1796	Installing building equipment, n.e.c. -	48	824	23 710	63 337	61 685	45 309	17 132	1 652	804	6	6
1799	Special trade contractors, n.e.c. -----	105	899	19 438	59 753	54 477	32 993	22 789	5 276	840	13	12
	Milwaukee—Waukesha, WI PMSA											
15,16,17	Construction industries -----	3 254	29 003	848 416	3 357 418	2 587 785	1 617 462	1 072 660	769 633	54 656	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	522	2 296	55 924	436 239	263 274	120 792	156 983	172 966	2 705	7	11
1522	Other residential buildings -----	18	241	7 248	33 122	(D)	12 199	9 663	(D)	70	11	(D)
1531	Operative builders -----	78	201	5 554	91 203	44 360	22 024	25 108	46 843	(D)	18	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	19	501	16 186	88 308	53 233	41 259	(D)	35 075	515	6	6
1542	Nonresidential buildings, n.e.c. -----	136	2 367	87 583	511 970	220 088	157 271	87 604	291 882	4 980	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6 728	(D)	(D)
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1622		56	1 355	42 381	158 116	145 919	97 674	48 402	12 196	(D)	6	4
1623	Water, sewer, and utility lines -----	56	432	12 128	40 148	(D)	(D)	13 926	(D)	(S)	10	(D)
1629	Heavy construction, n.e.c. -----	39										

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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	C
	MILWAUKEE—RACINE, WI CMSA —Con.												
	Milwaukee—Waukesha, WI PMSA —Con.												
15,16,17	Construction industries—Con.												
	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning-----	401	4 604	147 440	459 881	423 050	268 725	157 513	36 831	5 867	(D)	2	2
1721	Painting and paper hanging-----	229	1 134	23 909	57 203	54 887	41 192	13 843	2 316	(D)	(D)	8	5
1731	Electrical work-----	293	3 511	119 029	335 873	317 656	184 825	136 818	(S)	4 539	(S)	3	2
174	Masonry, stone work, tile setting, and plastering:												
1741	Masonry, stone setting, and other stone work-----	178	1 605	40 852	121 535	(D)	76 079	43 135	(D)	1 531	(D)	7	(D)
1742	Plastering, drywall, and insulation work-----	102	1 275	33 925	88 439	83 406	57 259	27 211	5 033	(D)	(D)	5	4
1743	Terrazzo, tile, marble, and mosaic work-----	25	260	6 727	(D)	(D)	(D)	(D)	(S)	391	(D)	20	(D)
175	Carpentry and floor work:												
1751	Carpentry-----	329	1 426	33 118	96 257	86 037	56 166	30 638	10 221	1 327	(D)	8	7
1752	Floor laying and other floor work---	(S)	597	12 745	40 753	37 630	21 744	18 125	3 123	1 175	(D)	11	11
1761	Roofing, siding, and sheet metal work-----	229	1 815	43 520	154 083	145 500	88 626	58 998	8 583	2 527	(D)	5	4
1771	Concrete work-----	172	1 165	29 013	94 264	88 140	50 992	39 196	6 124	2 296	(D)	9	8
1781	Water well drilling-----	24	186	7 277	21 035	20 226	12 156	8 071	809	659	(D)	14	18
179	Miscellaneous special trade contractors:												
1791	Structural steel erection-----	18	322	11 589	33 327	31 103	21 061	11 020	2 224	(D)	(D)	9	6
1793	Glass and glazing work-----	22	(D)	(D)	(D)	(D)	(D)	(D)	895	(D)	(D)	(D)	(D)
1794	Excavation work-----	75	622	15 222	57 955	48 987	33 911	15 562	8 968	5 859	(D)	16	7
1795	Wrecking and demolition work-----	7	34	712	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c.---	45	804	(D)	(D)	60 942	(D)	17 037	(D)	(D)	(D)	7	6
1799	Special trade contractors, n.e.c.---	86	795	16 785	(D)	(D)	27 700	20 861	(D)	773	(D)	15	(D)
	Racine, WI PMSA												
15,16,17	Construction industries-----	415	2 924	80 654	339 248	267 560	156 248	113 406	71 687	9 450		2	2
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses-----	62	245	4 801	30 744	21 628	10 309	11 414	9 116	417	(S)	10	11
1522	Other residential buildings-----	*4	(S)	*47	*141	(D)	*102	*37	(D)	(S)	(S)	(S)	(D)
1531	Operative builders-----	(S)	43	1 614	(S)	(D)	(S)	(S)	(D)	(D)	(D)	17	(D)
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses-----	10	(S)	(S)	24 306	11 992	(S)	(D)	12 314	90	(S)	7	7
1542	Nonresidential buildings, n.e.c.-----	9	108	3 490	15 824	7 981	3 966	4 187	7 843	360	(S)	1	4
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction---	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4 415	(D)	(D)	(D)
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction-----	—	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines-----	6	104	3 387	12 551	11 362	6 195	5 184	1 189	(D)	(D)	8	7
1629	Heavy construction, n.e.c.-----	6	38	1 760	5 937	(D)	(D)	1 682	(D)	198	(Z)	8	(D)
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning-----	64	563	17 129	55 677	50 670	27 390	23 587	5 007	653	(D)	7	7
1721	Painting and paper hanging-----	23	73	1 432	3 551	3 428	2 569	865	123	(D)	(D)	18	9
1731	Electrical work-----	34	258	8 017	21 557	21 199	13 496	7 744	358	92	(D)	7	1
174	Masonry, stone work, tile setting, and plastering:												
1741	Masonry, stone setting, and other stone work-----	(S)	136	2 727	8 305	(D)	4 074	3 522	(D)	325	(D)	26	(D)
1742	Plastering, drywall, and insulation work-----	(S)	60	1 510	3 350	3 205	2 125	(S)	(S)	(D)	(Z)	(Z)	(Z)
1743	Terrazzo, tile, marble, and mosaic work-----	*7	*34	*570	*1 921	*1 874	*1 104	*918	*47	*48	(D)	53	52
175	Carpentry and floor work:												
1751	Carpentry-----	31	(S)	(S)	7 305	6 363	(S)	3 205	942	106	(S)	20	20
1752	Floor laying and other floor work---	(S)	44	736	3 704	3 673	2 650	(S)	*31	98	(S)	12	6
1761	Roofing, siding, and sheet metal work-----	26	168	3 639	11 323	10 571	6 168	4 656	751	177	(D)	13	13

CONSTRUCTION—GEOGRAPHIC AREA SERIES

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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
	MILWAUKEE—RACINE, WI CMSA—Con.											
	Racine, WI PMSA—Con.											
15,16,17	Construction industries—Con.											
1771	Special trade contractors—Con.											
	Concrete work	30	143	3 135	10 590	10 430	6 459	4 034	*161	*334	18	18
1781	Water well drilling	(S)	*13	*207	*799	*799	*469	*330	—	(S)	74	65
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*3	(S)	*286	*447	*447	*415	*32	—	—	(S)	71
1793	Glass and glazing work	1	(D)	(D)	(D)	(D)	(D)	(D)	—	—	(D)	(D)
1794	Excavation work	17	74	1 812	7 710	7 460	5 640	1 849	*250	938	21	16
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ..	3	19	(D)	(D)	743	(D)	95	(D)	(D)	(Z)	(Z)
1799	Special trade contractors, n.e.c.	19	104	2 653	(D)	(D)	5 293	1 928	(D)	*67	22	(D)
	MINNEAPOLIS—ST. PAUL, MN—WI MSA											
15,16,17	Construction industries	6 022	57 068	1 746 540	8 585 142	5 752 252	3 678 458	2 286 669	2 832 890	121 034	2	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 062	3 861	82 032	626 103	390 582	188 316	220 047	235 521	4 817	5	6
1522	Other residential buildings	(S)	262	7 764	(D)	(D)	10 725	14 429	(D)	160	11	(D)
1531	Operative builders	262	1 418	47 540	748 053	432 744	226 664	224 836	315 308	2 236	9	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	55	3 453	97 561	(D)	(D)	(D)	89 017	(D)	3 116	32	(D)
1542	Nonresidential buildings, n.e.c.	312	5 062	178 218	1 681 161	598 535	409 322	224 271	1 082 626	11 821	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	58	2 566	110 089	491 100	(D)	259 259	185 415	(D)	15 773	9	(D)
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	99	1 743	57 377	227 036	193 336	122 453	71 725	33 700	10 907	6	5
1629	Heavy construction, n.e.c.	(S)	(S)	(S)	226 605	169 796	122 802	47 587	56 808	3 765	(S)	4
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	741	8 160	285 960	925 290	804 519	490 228	320 279	120 771	11 453	2	2
1721	Painting and paper hanging	324	1 842	48 307	129 043	120 374	86 367	34 569	8 670	3 562	6	5
1731	Electrical work	609	6 540	229 404	590 947	568 679	363 501	228 857	22 268	7 916	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	295	2 211	52 100	163 961	152 503	95 304	57 367	11 458	2 852	8	6
1742	Plastering, drywall, and insulation work	253	2 821	82 743	228 516	203 671	130 721	74 482	24 845	1 751	4	4
1743	Terrazzo, tile, marble, and mosaic work	95	667	18 025	55 508	53 217	31 866	25 037	*2 291	*483	10	11
175	Carpentry and floor work:											
1751	Carpentry	401	2 378	48 523	165 505	145 852	96 337	50 297	(S)	1 517	7	8
1752	Floor laying and other floor work ..	(S)	767	16 945	68 768	62 922	35 597	27 797	(S)	1 009	12	10
1761	Roofing, siding, and sheet metal work	266	2 638	73 765	275 409	250 765	138 446	121 455	24 643	4 399	5	4
1771	Concrete work	344	2 742	69 316	240 935	221 029	130 636	98 470	19 906	9 035	6	5
1781	Water well drilling	50	(D)	7 456	27 386	26 267	16 164	10 103	1 119	1 720	(D)	4
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	28	868	31 582	86 328	80 682	63 175	19 075	5 646	1 459	4	2
1793	Glass and glazing work	42	507	14 215	58 956	51 413	25 896	31 561	7 542	1 035	4	15
1794	Excavation work	182	1 341	38 777	146 365	124 409	97 940	33 708	21 955	11 458	9	6
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ..	53	1 178	39 382	121 820	116 749	95 862	22 703	5 071	1 755	4	4
1799	Special trade contractors, n.e.c.	235	2 379	60 944	163 785	151 302	119 487	48 489	12 483	5 869	6	7

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CONSTRUCTION—GEOGRAPHIC AREA SERIES

Appendix A.

Explanation of Terms

Construction. Is composed of three broad categories:

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

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

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

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

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

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

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

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

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

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

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

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

Dollar value of business done comprises the following detail:

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

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

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

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

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

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

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

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

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

Costs for materials, components, and supplies include:

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

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

Excluded from this item are:

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

Costs for construction work subcontracted out to others include:

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

Excluded from this item are:

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

Costs for selected power, fuels, and lubricants include:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Building construction:

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

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