

1992

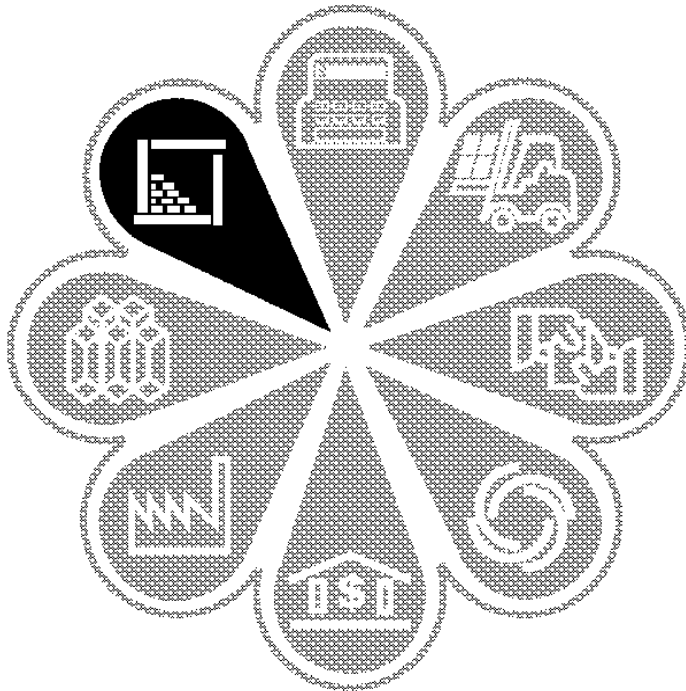
Census of Construction Industries

CC92-A-9

GEOGRAPHIC AREA SERIES

Pacific States

Alaska, California, Hawaii, Oregon,
Washington



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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Washington

Issued May 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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Alaska

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-- Not applicable for this report.

Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Alaska. 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 4,537 establishments in this State operating in the construction industries. These establishments accounted for \$2.0 billion in total dollar value of business done.

Most of the 4,537 construction establishments were small. Of the total, 2,861 were nonemployers, and over half of the employer establishments had less than 5 employees. The 690 construction establishments with 5 employees or more, while representing only 15 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 \$1.93 billion in total dollar value of business done. Of this amount, \$1.88 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$400 million, leaving net value of construction work of \$1.5 billion. In addition, these establishments paid out \$694 million 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 \$922 million. (See Introduction and appendixes for explanation of terms.)

There were 1,676 establishments with total employment averaging 12,969 during the year. Total payroll for 1992 was \$473 million.

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

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



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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 2,861 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$87.8 million. Most of these establishments, about 78 percent, were special trade contractors.

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

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

1992 
1987 

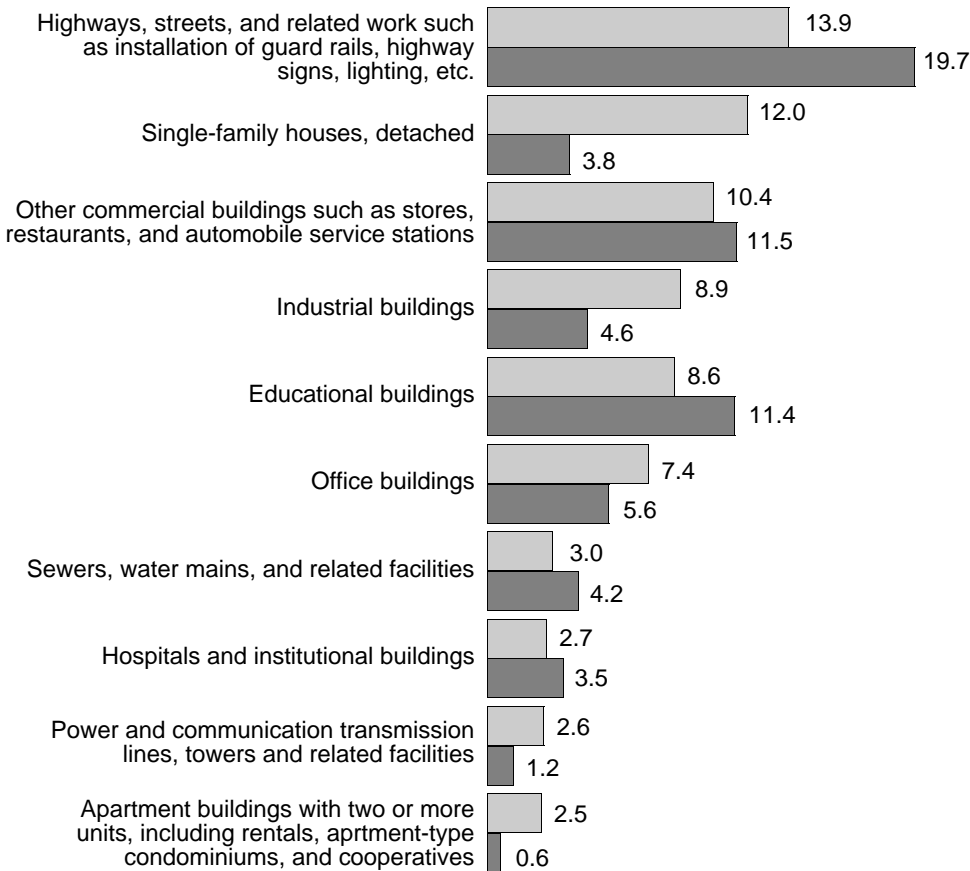




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

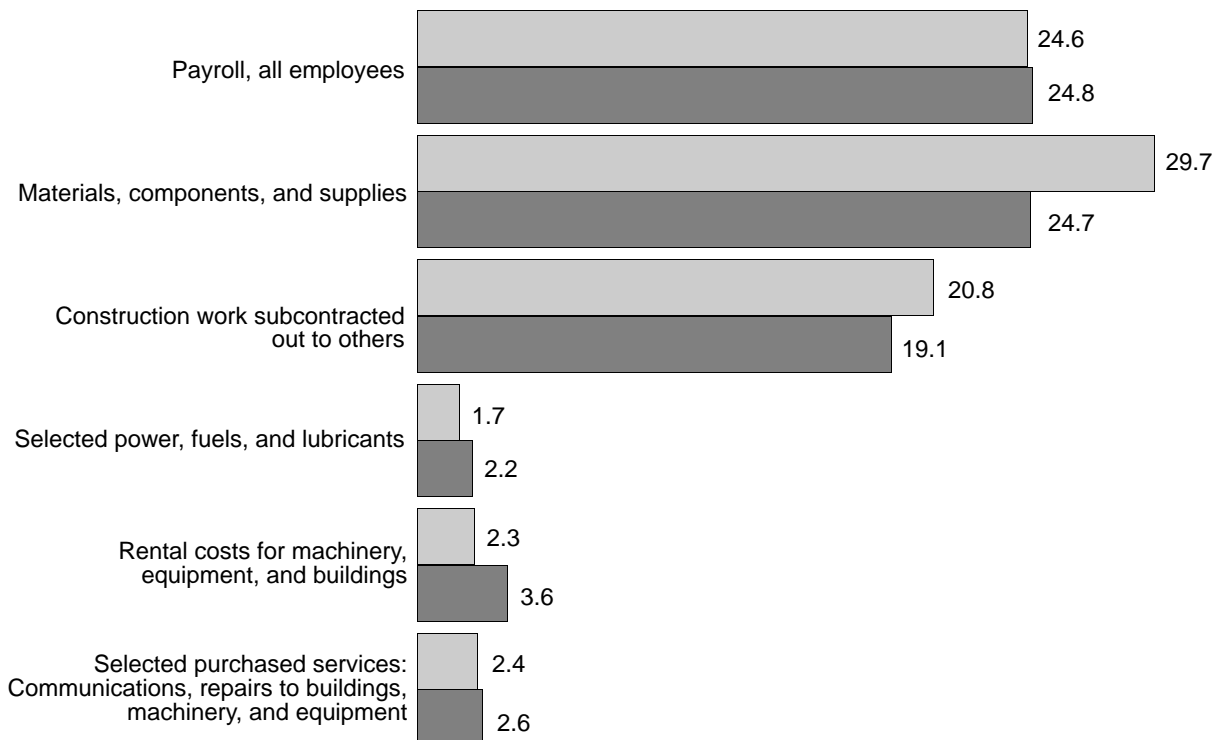


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			J
1992															
15, 16, 17	Construction industries -----	4 537	3 836	12 969	2 013 735	2 861	2 849	87 819	1 676	987	12 969	1 925 916	2	3	
15	Building construction—General contractors and operative builders ----	1 034	792	3 970	753 965	487	482	23 895	547	310	3 970	730 070	6	8	
16	Heavy construction other than building construction— contractors-----	362	211	3 598	516 469	139	130	7 222	223	81	3 598	509 247	3	3	
17	Special trade contractors -----	3 141	2 833	5 401	743 301	2 235	2 237	56 702	906	596	5 401	686 599	3	3	
1711	Plumbing, heating, and air-conditioning --	369	317	1 112	173 380	194	197	7 127	175	120	1 112	166 253	6	6	
1731	Electrical work-----	303	208	1 309	161 709	127	120	3 727	176	(S)	1 309	157 982	6	5	
1987															
15, 16, 17	Construction industries ² -----	5 227	4 115	12 764	1 888 839	3 720	3 720	162 292	1 507	395	12 764	1 726 547	2	2	
15	Building construction—General contractors and operative builders ----	1 246	855	4 440	703 729	838	769	52 073	408	86	4 440	651 656	5	4	
16	Heavy construction other than building construction— contractors-----	364	183	(D)	(D)	142	139	11 933	222	44	(D)	(D)	(D)	(D)	
17	Special trade contractors -----	3 423	2 842	(D)	(D)	2 561	2 581	81 880	862	261	(D)	(D)	(D)	(D)	
1711	Plumbing, heating, and air-conditioning --	402	246	871	116 236	229	228	9 295	173	18	871	106 941	8	8	
1731	Electrical work-----	308	211	917	108 355	161	155	5 960	147	56	917	102 395	5	5	

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

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

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

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

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
			A	B	C	D			
15, 16, 17	Construction industries¹	1 676	12 969	10 180	473 335	352 775	1 876 384	1 476 131	922 167
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	350	1 110	811	20 521	14 597	125 146	89 039	51 222
1522	Other residential buildings	6	242	190	8 537	5 698	36 728	26 226	22 113
1531	Operative builders	25	118	*71	2 015	776	31 556	15 403	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	32	904	778	27 638	19 005	152 541	99 355	70 198
1542	Nonresidential buildings, n.e.c.	135	1 597	1 161	69 834	46 712	376 945	217 519	134 645
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	113	1 722	1 457	79 819	66 563	304 910	255 155	124 784
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	4	118	83	6 048	4 307	25 059	22 873	(D)
1623	Water, sewer, and utility lines	37	928	760	37 529	27 105	90 218	84 868	69 496
1629	Heavy construction, n.e.c.	70	830	693	24 707	18 230	74 449	(D)	59 128
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	175	1 112	783	38 402	26 096	163 572	130 690	69 245
1721	Painting and paper hanging	105	437	372	9 852	7 904	30 462	28 204	21 092
1731	Electrical work	176	1 309	1 009	50 465	38 307	156 688	148 182	92 815
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	19	(D)	47	1 065	(D)	6 338	6 130	2 901
1742	Plastering, drywall, and insulation work	50	284	224	10 548	8 632	32 588	31 564	12 959
1743	Terrazzo, tile, marble, and mosaic work	6	15	11	474	405	1 316	(D)	836
175	Carpentry and floor work:								
1751	Carpentry	76	194	166	4 292	3 697	12 883	11 158	7 057
1752	Floor laying and other floor work	30	76	57	2 283	1 693	10 644	9 952	5 005
1761	Roofing, siding, and sheet metal work	55	284	239	10 517	8 372	37 321	35 480	19 068
1771	Concrete work	43	258	222	8 385	*7 479	*31 038	25 938	14 620
1781	Water well drilling	15	33	27	(D)	397	(D)	(D)	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	12	119	83	7 829	5 101	26 158	(D)	(D)
1793	Glass and glazing work	5	55	32	1 628	848	4 015	(D)	2 029
1794	Excavation work	80	394	320	11 202	9 488	66 622	63 486	40 198
1795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	8	75	55	1 705	1 196	4 585	(D)	3 146
1799	Special trade contractors, n.e.c.	49	(D)	(D)	36 449	28 794	69 264	65 873	63 861

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				
603 496	400 253	536 997	44 084	60 955	465 366	12 764	1 680 844	932 139	2	2	4	15, 16, 17
												15
40 150 4 394	36 107 10 502	*6 118 —	980 339	572 905	8 063 1 531	(S) 185	(S) 29 761	(S) 9 926	11 (Z)	11 (Z)	30 (Z)	152 1522
8 472	16 152	(S)	*149	*226	(D)	*29	7 552	1 712	36	36	46	1531
30 725 85 491	53 186 159 426	7 411 11 240	3 094 3 948	2 728 5 204	(S) 32 486	361 2 769	55 960 426 884	25 622 204 992	5 13	6 16	2 12	154 1541 1542
												16
135 163	49 755	35 533	11 498	18 089	172 845	1 803	349 103	216 423	6	4	4	1611
14 239 18 190 (D)	2 186 5 350 (D)	(D) 8 820 (D)	757 4 601 4 393	1 256 9 995 *2 700	11 062 66 690 (D)	(D) 969 1 142	(D) 138 542 109 420	(D) 84 069 68 186	(Z) 2 9	(Z) 2 (D)	(Z) 3 49	162 1622 1623 1629
												17
64 126	32 882	112 553	2 115	1 500	18 388	871	104 971	54 019	6	5	15	1711
7 572	2 259	18 860	240	965	6 304	263	20 807	14 909	10	8	24	1721
56 662	8 506	132 878	3 279	2 672	16 223	917	101 691	64 367	6	5	23	1731
3 412 18 654 (D)	208 1 024 (D)	5 776 29 462 1 249	(S) 413 5	88 *255 (D)	1 137 2 755 (D)	(S) 315 (D)	(S) 27 207 4 331	(S) 20 480 *2 449	(D) 5 (Z)	21 10 (D)	21 52 (D)	174 1741 1742 1743
4 459 5 175	*1 726 693	6 752 5 069	65 128	164 (S)	1 601 (S)	(S) (S)	(S) (S)	(S) (S)	22 6	18 9	39 (S)	175 1751 1752
16 625	1 841	21 673	468	1 129	8 472	215	27 073	14 152	8	9	13	1761
*12 039	*5 100	*23 649	871	835	7 461	264	21 222	12 340	23	38	14	1771
1 347	—	(D)	(D)	(D)	1 674	46	4 372	3 142	5	(D)	(D)	1781
8 310 2 821 23 410 (D) (D) (D)	(D) (D) *3 136 (D) (D) (D) 3 391	16 214 3 573 42 974 — 1 918 25 757	616 208 *2 035 (D) 66 (D)	(D) (D) 4 984 (S) (D) 4 805	3 928 513 34 597 (S) (D) (D)	184 76 (S) (D) 47 545	15 134 (D) (S) (D) 7 220 39 237	11 204 3 237 (S) (D) 5 086 33 716	10 (Z) 17 (D) (Z) (D)	(D) (D) 20 (D) (D) 3	(D) (D) 36 (S) (D) (D) 2	179 1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

ALASKA AK-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	1 676	1 507	1 757	1 396	1	3	4	5
Proprietors and working partners	987	395	599	814	3	12	17	10
All employees**	12 969	12 764	22 229	16 855	2	2	1	1
Construction workers:								
March	7 508	8 400	13 771	11 574	3	3	1	1
May	10 517	10 656	17 266	15 139	2	3	2	2
August	12 859	12 124	22 636	17 474	2	3	1	2
November	9 834	9 276	17 189	13 429	3	3	2	2
Average	10 180	10 091	17 824	14 417	2	3	1	1
Other employees:								
March	2 736	2 510	4 336	2 226	3	2	2	3
May	2 742	2 705	(NA)	(NA)	3	3	(NA)	(NA)
August	2 982	2 890	(NA)	(NA)	3	3	(NA)	(NA)
November	2 699	2 586	(NA)	(NA)	3	3	(NA)	(NA)
Average	2 790	2 673	(NA)	(NA)	3	2	(NA)	(NA)
Payroll, all employees	473 335	428 265	534 677	463 639	2	2	1	1
Payroll, construction workers	352 775	307 897	433 377	399 045	2	2	1	1
Payroll, other employees	120 560	120 368	101 300	64 594	3	2	1	1
First quarter payroll, all employees	85 257	87 882	99 917	79 707	2	2	1	1
Fringe benefits, all employees	117 910	107 651	102 914	92 575	2	2	1	1
Legally required expenditures	80 543	77 727	77 750	43 116	3	2	1	1
Voluntary expenditures	37 367	29 923	25 164	49 459	3	2	1	1
Dollar value of business done	1 925 916	1 726 547	2 166 033	1 427 807	3	2	1	1
Value of construction work	1 876 384	1 680 844	2 055 137	1 374 077	3	2	1	1
Value of construction work subcontracted in from others	536 997	303 621	435 134	250 291	5	6	10	(Z)
Other business receipts	49 532	44 604	93 739	53 730	6	6	2	2
Net value of construction†	1 476 131	1 351 935	1 644 925	1 130 233	2	2	1	1
Value added††	922 167	932 139	1 101 841	803 139	2	2	1	1
Selected costs	1 003 749	793 309	1 047 034	617 730	4	3	2	2
Materials, components, and supplies	571 371	426 755	589 248	350 713	3	3	2	2
Construction work subcontracted out to others	400 253	328 908	410 212	243 844	7	3	1	2
Selected power, fuels, and lubricants	32 125	37 644	47 574	23 173	3	2	2	2
Electricity	4 221	3 881	4 542	3 720	7	3	3	3
Natural gas	2 098	1 200	1 022	965	8	4	4	8
Gasoline and diesel fuel	22 537	29 012	39 345	15 491	3	2	3	2
On highway use	13 618	19 617	(NA)	(NA)	4	2	(NA)	(NA)
Off highway use	8 919	9 394	(NA)	(NA)	6	3	(NA)	(NA)
Other, including lubricating oils and greases	3 270	3 550	2 664	3 002	2	6	3	4
Rental cost for machinery, equipment, and buildings	44 084	62 247	49 228	30 406	6	2	4	4
For machinery and equipment	33 358	52 179	40 802	26 018	7	2	5	4
For buildings	10 726	10 068	8 425	4 388	9	6	3	3
Selected purchased services	46 574	44 030	44 148	40 390	3	4	2	4
Communication services	6 853	7 808	6 799	4 193	6	5	2	10
Repairs to buildings and other structures	1 645	1 303	2 722	2 847	11	5	2	3
Repairs to machinery and equipment	38 077	34 918	34 625	33 351	3	4	2	4
Ownership of construction projects:								
Value of construction work	1 876 384	1 680 844	2 055 137	1 374 077	3	2	1	1
Government owned	928 510	1 059 102	790 828	328 154	7	3	2	1
Federal	388 290	374 668	(NA)	(NA)	6	4	(NA)	(NA)
State and local	540 220	684 434	(NA)	(NA)	11	4	(NA)	(NA)
Privately owned	947 874	621 741	1 264 308	1 045 923	5	5	2	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 Finance, 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	416 489	308 128	4	5
Capital expenditures, other than land	60 955	17 288	4	7
New	37 796	9 946	5	5
Used	23 159	7 342	5	13
Retirements and disposition of depreciable assets	12 077	27 524	10	34
End-of-year gross book value of depreciable assets	465 366	297 892	3	3
Depreciation charges during year	44 174	31 442	4	5
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	65 887	43 899	10	10
Capital expenditures, other than land	9 518	2 154	17	22
New buildings and other structures	7 787	1 171	21	19
Used buildings and other structures	1 731	*982	4	42
Retirements and disposition of depreciable assets	821	507	5	24
End-of-year gross book value of depreciable assets	74 584	45 545	11	11
Depreciation charges during year	6 649	3 274	6	9
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	350 602	264 229	3	5
Capital expenditures, other than land	51 437	15 134	4	5
New machinery and equipment, including automobiles and trucks	30 009	8 774	4	5
New automobiles and trucks, intended primarily for highway use	5 085	2 451	10	7
Used machinery and equipment, including automobiles and trucks	21 428	6 359	6	10
Retirements and disposition of depreciable assets	11 256	27 017	11	34
End-of-year gross book value of depreciable assets	390 782	252 346	3	3
Depreciation charges during year	37 525	28 167	5	5

Note: Statistics for "Land Subdividers and Developers," SIC 6552, are included in the statistics from previous censuses, but excluded for 1992. SIC 6552 is covered in the Census of Finance, 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	1 676	1
Value of construction work	1 876 384	3
Establishments with inventories:		
Number	561	5
Value of construction work	713 142	9
Inventories ¹ :		
End of 1992, materials and supplies	20 467	9
End of 1991, materials and supplies	18 659	9
Establishments with no inventories:		
Number	628	5
Value of construction work	726 851	3
Establishments not reporting:		
Number	487	6
Value of construction work	436 391	10

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	1 676	987	392	180	87	17	11	3	—	—
All employees**	12 969	1 754	2 432	2 382	2 506	1 108	1 776	1 012	—	—
Payroll, all employees	473 335	39 879	70 658	89 255	95 320	50 741	69 756	57 727	—	—
Dollar value of business done	1 925 916	252 477	281 551	384 992	414 771	216 105	271 133	104 886	—	—
Value of construction work	1 876 384	249 220	275 849	375 973	406 898	212 156	269 566	86 722	—	—
Net value of construction work†	1 476 131	208 208	230 945	291 402	287 731	161 309	296 536	(D)	—	—
Value added††	922 167	126 149	145 218	179 387	189 035	79 473	202 905	(D)	—	—
Cost of materials, components, supplies, and fuels	603 496	85 317	91 429	121 034	106 569	85 785	113 362	(D)	—	—
Cost of construction work subcontracted out to others	400 253	41 012	44 904	84 571	119 167	50 847	59 752	(D)	—	—
Rental cost for machinery, equipment, and buildings	44 084	3 839	5 061	9 045	10 262	4 198	11 679	(D)	—	—
Capital expenditures, other than land	60 955	6 423	4 951	6 222	9 645	7 834	25 881	(D)	—	—
End-of-year gross book value of depreciable assets	465 366	58 915	57 265	60 312	70 930	76 832	141 112	(D)	—	—
1987										
All employees**	12 764	1 627	1 976	2 312	1 995	1 137	1 435	2 279	(D)	(D)
Value of construction work	1 680 844	157 719	244 436	328 337	322 331	383 180	(D)	244 839	(D)	(D)
Value added††	932 139	85 908	125 393	187 014	163 948	94 234	123 469	152 172	(D)	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	8	9	10	8	(Z)	(Z)	(Z)	—	—
Net value of construction work†	2	9	9	14	4	(Z)	(Z)	(D)	—	—
Capital expenditures, other than land	4	27	18	19	6	(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 Finance, 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	1 676	(S)	(S)	193	421	302	245	230	64	42	34
All employees**	12 969	(S)	(S)	279	999	1 115	1 665	2 550	1 112	1 474	3 675
Payroll, all employees	473 335	(S)	(S)	3 667	17 196	24 422	45 077	90 243	49 298	60 089	182 290
Dollar value of business done	1 925 916	(S)	(S)	14 594	73 000	105 305	175 089	364 905	227 043	292 746	670 033
Value of construction work	1 876 384	(S)	(S)	14 389	71 968	102 713	172 073	358 730	217 800	289 831	645 771
Net value of construction work†	1 476 131	(S)	(S)	13 256	64 943	92 737	153 426	297 965	170 987	191 342	488 515
Value added††	922 167	(S)	(S)	8 899	39 875	60 701	98 176	180 752	116 259	122 318	293 266
Cost of materials, components, supplies, and fuels	603 496	(S)	(S)	(S)	26 100	34 629	58 266	123 389	63 972	71 939	219 511
Cost of construction work subcontracted out to others	400 253	(S)	(S)	1 133	(S)	9 975	18 647	60 764	46 813	*98 489	157 256
Rental cost for machinery, equipment, and buildings	44 084	(S)	(S)	(S)	887	1 282	2 352	9 681	8 950	5 488	15 166
Capital expenditures, other than land	60 955	(S)	(S)	(S)	*2 922	(S)	3 392	7 576	5 495	5 808	33 684
End-of-year gross book value of depreciable assets	465 366	(S)	(S)	2 727	18 114	27 541	27 926	95 137	37 189	32 752	223 744
1987											
All employees**	12 764	(S)	(S)	243	(S)	(S)	1 742	1 936	1 372	1 211	4 381
Value of construction work	1 680 844	(S)	(S)	13 567	(S)	(S)	159 047	258 742	241 963	217 841	658 874
Value added††	932 139	(S)	(S)	8 339	(S)	(S)	89 171	140 584	129 917	129 075	360 934
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	21	11	14	10	7	7	17	(Z)
Net value of construction work†	2	(S)	(S)	14	11	13	10	8	10	19	(Z)
Capital expenditures, other than land	4	(S)	(S)	53	(S)	20	14	19	9	(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 Finance, 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	1 876 384	1 089 714	415 827	314 736	3	5	4	3
Building construction	1 194 345	752 578	289 626	152 141	4	7	4	5
Single-family houses	251 393	155 825	55 372	40 197	7	10	10	13
Single-family houses, detached	225 076	144 768	45 340	34 968	7	10	11	14
Single-family houses, attached, including townhouses and townhouse-type condominiums	26 317	(S)	10 031	5 229	22	(S)	12	17
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	46 750	17 810	11 565	17 374	9	19	17	6
Other residential buildings, including hotels, motels, and tourist cabins	43 609	35 323	6 541	1 745	6	7	13	13
Office buildings	139 733	54 839	45 049	39 845	6	15	7	2
Other commercial buildings such as stores, restaurants, and automobile service stations	195 509	136 413	42 279	16 817	21	31	8	14
Industrial buildings and warehouses	201 747	135 168	48 542	18 037	8	8	8	21
Industrial buildings	167 670	112 407	40 431	14 832	7	6	8	25
Warehouses	34 077	22 761	8 110	3 205	23	26	24	10
Educational buildings	162 153	118 552	36 918	6 684	20	27	13	8
Hospitals and institutional buildings	50 767	27 387	18 731	4 649	4	6	7	8
Amusement, social, and recreational buildings, indoors	*42 019	*35 652	(D)	(D)	61	72	(D)	(D)
Other nonresidential buildings	60 665	35 610	(D)	(D)	17	24	(D)	(D)
Nonbuilding construction	625 932	337 136	126 200	162 596	2	3	7	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	261 009	152 194	61 102	47 713	4	5	11	6
Airport runways and related work	38 213	23 191	5 320	5 702	1	(Z)	3	5
Bridges, tunnels, and elevated highways	25 089	21 408	1 326	2 354	6	7	7	5
Harbor and port facilities	13 536	(D)	1 933	(D)	16	(D)	16	(D)
Conservation and development construction	30 218	(D)	9 061	(D)	9	(D)	21	(D)
Power and communication transmission lines, towers, and related facilities	48 981	(D)	5 774	(D)	6	(D)	29	(D)
Sewers, water mains, and related facilities	57 228	41 061	9 500	6 667	7	10	3	11
Sewers, sewer lines, septic systems, and related facilities	33 765	24 035	5 152	4 579	12	16	3	16
Water mains and related facilities	23 463	17 026	4 348	2 088	3	3	3	7
Sewage treatment and water treatment plants	14 524	7 209	(S)	—	38	8	(S)	—
Other nonbuilding construction	137 134	33 041	20 869	83 224	3	7	7	3
Construction work, n.s.k.	56 107	(NA)	(NA)	(NA)	12	(NA)	(NA)	(NA)
1987								
Value of construction work	1 680 844	1 041 287	361 296	141 398	2	2	6	7
Building construction	884 650	550 188	264 751	69 711	3	3	7	10
Single-family houses	99 231	64 660	23 543	11 027	8	10	14	15
Single-family houses, detached	63 913	(D)	19 997	(D)	11	(D)	15	(D)
Single-family houses, attached, including townhouses and townhouse-type condominiums	35 318	(D)	3 546	(D)	5	(D)	36	(D)
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	9 567	3 182	4 743	1 642	20	5	39	10
Other residential buildings, including hotels, motels, and tourist cabins	58 021	26 925	23 437	7 658	5	8	5	19
Office buildings	94 392	38 470	43 960	11 961	10	19	11	16
Other commercial buildings such as stores, restaurants, and automobile service stations	193 766	152 708	26 322	14 734	5	3	21	23
Industrial buildings and warehouses	119 820	78 337	32 257	9 224	6	8	7	32
Industrial buildings	78 042	50 824	19 583	7 634	8	11	8	39
Warehouses	41 778	27 513	12 674	1 590	6	5	14	17
Educational buildings	191 520	127 972	56 531	7 016	8	2	28	20
Hospitals and institutional buildings	59 653	30 790	26 760	2 102	11	12	21	9
Amusement, social, and recreational buildings, indoors	8 903	6 044	1 570	1 288	11	11	31	25
Other nonresidential buildings	49 777	21 100	25 628	3 059	9	12	10	9
Nonbuilding construction	659 333	491 099	96 546	71 687	3	3	8	6
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	331 236	255 196	45 420	30 620	4	5	9	7
Airport runways and related work	5 749	*2 165	(D)	(D)	19	51	(D)	(D)
Bridges, tunnels, and elevated highways	15 385	15 226	(D)	(D)	(Z)	(Z)	(D)	(D)
Harbor and port facilities	32 533	28 237	1 734	*2 561	7	4	28	47
Power and communication transmission lines, towers, and related facilities	19 398	9 540	7 388	2 469	6	6	12	7
Sewers, water mains, and related facilities	69 920	49 703	15 418	4 798	10	11	27	19
Sewers, sewer lines, septic systems, and related facilities	34 980	21 377	9 372	4 229	8	8	22	21
Water mains and related facilities	34 940	28 326	6 046	569	13	14	34	7
Other nonbuilding construction	185 112	176 636	35 622	31 757	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	136 859	(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 -----	1 676	10 180	7 508	10 517	12 859	9 834	1	2	3	2	2	3
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	350	811	604	814	1 039	787	6	12	15	13	12	13
1522	Other residential buildings -----	6	190	167	234	193	167	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1531	Operative builders -----	25	*71	*68	*66	*89	*63	34	54	47	47	51	50
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	32	778	377	862	1 023	850	16	4	6	3	7	4
1542	Nonresidential buildings, n.e.c. -----	135	1 161	869	969	1 494	1 314	12	14	15	13	17	17
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	113	1 457	957	1 738	2 182	951	13	6	10	6	4	9
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	4	83	96	84	85	66	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1623	Water, sewer, and utility lines -----	37	760	684	719	898	738	10	2	2	2	2	2
1629	Heavy construction, n.e.c. -----	70	693	223	847	884	817	15	9	17	10	8	10
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	175	783	693	745	885	807	6	6	8	7	6	7
1721	Painting and paper hanging -----	105	372	218	433	584	255	11	11	17	13	13	14
1731	Electrical work -----	176	1 009	848	975	1 236	975	4	6	7	7	7	5
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	19	47	26	60	67	35	(Z)	9	24	10	11	17
1742	Plastering, drywall, and insulation work -----	50	224	251	180	178	285	11	5	6	6	7	6
1743	Terrazzo, tile, marble, and mosaic work -----	6	11	11	12	10	12	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
175	Carpentry and floor work:												
1751	Carpentry -----	76	166	113	155	199	198	16	23	23	23	21	20
1752	Floor laying and other floor work -----	30	57	36	59	(S)	68	12	8	9	15	(S)	4
1761	Roofing, siding, and sheet metal work -----	55	239	218	248	296	193	5	9	10	10	7	11
1771	Concrete work -----	43	222	(D)	243	324	(D)	20	26	(D)	25	24	(D)
1781	Water well drilling -----	15	27	21	23	31	31	(Z)	6	(Z)	(Z)	5	10
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	12	83	62	71	95	105	17	10	6	11	10	9
1793	Glass and glazing work -----	5	32	28	30	34	35	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1794	Excavation work -----	80	320	215	369	423	274	19	18	20	17	15	22
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	8	55	44	47	58	70	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
1799	Special trade contractors, n.e.c. -----	49	(D)	499	(D)	(D)	553	22	(D)	4	(D)	(D)	5

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

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

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

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Value of construction work per construction worker (\$1,000)	Average per dollar value of construction work				
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost for machinery, equipment, and buildings
15, 16, 17	Construction industries -----	7.7	36.5	184.3	.252	.322	.213	.286	.023
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.2	18.5	154.3	.164	.321	.289	*.049	.008
1522	Other residential buildings -----	40.3	35.3	193.3	.232	.120	.286	—	.009
1531	Operative builders -----	4.8	17.1	*444.4	.064	.268	.512	(S)	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	28.6	30.6	196.1	.181	.201	.349	.049	.020
1542	Nonresidential buildings, n.e.c. -----	11.8	43.7	324.7	.185	.227	.423	.030	.010
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	15.2	46.4	209.3	.262	.443	.163	.117	.038
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	29.5	51.3	301.9	.241	.568	.087	(D)	.030
1623	Water, sewer, and utility lines -----	25.3	40.4	118.7	.416	.202	.059	.098	.051
1629	Heavy construction, n.e.c. -----	11.9	29.8	107.4	.332	(D)	(D)	(D)	.059
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	6.3	34.5	208.9	.235	.392	.201	.688	.013
1721	Painting and paper hanging -----	4.1	22.5	81.9	.323	.249	.074	.619	.008
1731	Electrical work -----	7.4	38.6	155.3	.322	.362	.054	.848	.021
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	(D)	(D)	134.9	.168	.538	.033	.911	(S)
1742	Plastering, drywall, and insulation work -----	5.7	37.1	145.5	.324	.572	.031	.904	.013
1743	Terrazzo, tile, marble, and mosaic work -----	2.5	31.6	119.6	.360	(D)	(D)	.949	.004
175	Carpentry and floor work:								
1751	Carpentry -----	2.6	22.1	77.6	.333	.346	.134	.524	.005
1752	Floor laying and other floor work -----	2.6	30.0	186.7	.214	.486	.065	.476	.012
1761	Roofing, siding, and sheet metal work -----	5.1	37.0	156.2	.282	.445	.049	.581	.013
1771	Concrete work -----	6.0	32.5	139.8	.270	.388	.164	.762	.028
1781	Water well drilling -----	2.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	9.8	65.8	315.2	.299	.318	(D)	.620	.024
1793	Glass and glazing work -----	11.0	29.6	125.5	.405	.703	(D)	.890	.052
1794	Excavation work -----	4.9	28.4	208.2	.168	.351	.047	.645	*.031
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	9.4	22.7	83.4	.372	(D)	(D)	.418	.014
1799	Special trade contractors, n.e.c. -----	(D)	(D)	(D)	.526	(D)	.049	.372	(D)

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

[Not applicable]

Contents

California

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for California. 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 199,084 establishments in this State operating in the construction industries. These establishments accounted for \$70.2 billion in total dollar value of business done.

Most of the 199,084 construction establishments were small. Of the total, 134,981 were nonemployers, and over half of the employer establishments had less than 5 employees. The 23,006 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 82 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$65.3 billion in total dollar value of business done. Of this amount, \$64.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$17.9 billion, leaving net value of construction work of \$46.4 billion. In addition, these establishments paid out \$20.7 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 \$28.9 billion. (See Introduction and appendixes for explanation of terms.)

There were 64,103 establishments with total employment averaging 511,115 during the year. Total payroll for 1992 was \$14.2 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 134,981 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$4.9 billion. Most of these establishments, about 75 percent, were special trade contractors.

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

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

1992 
1987 

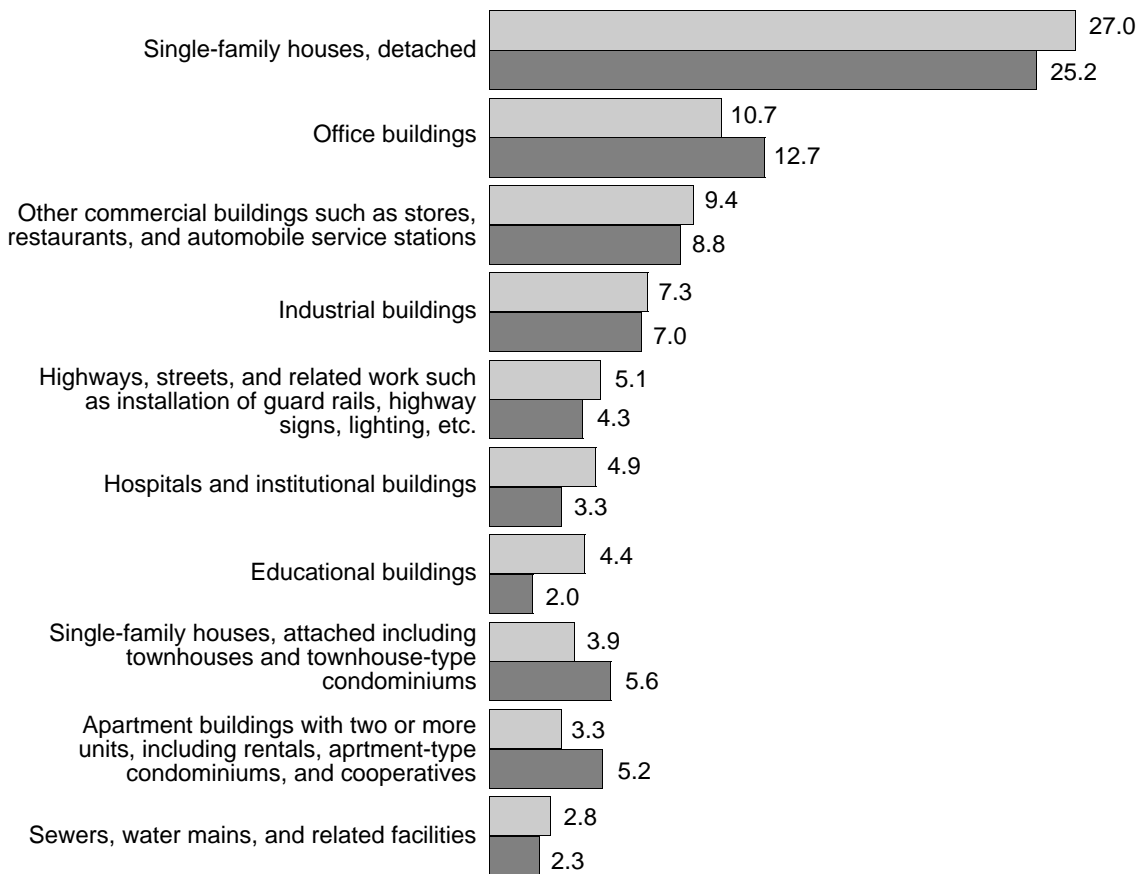




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

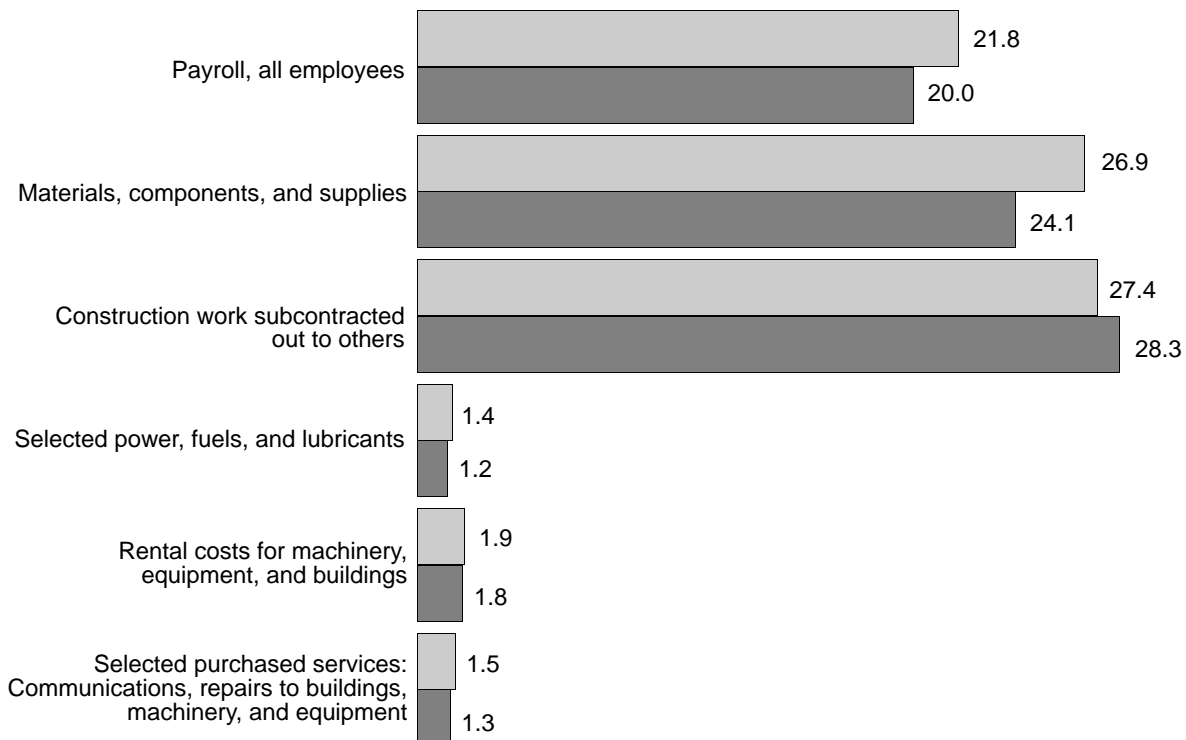


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

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

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done ¹	Number	Proprietors and working partners	All employees**	Dollar value of business done			
		A	B	C	D	E	F	G	H	I	J	K			J
1992															
15, 16, 17	Construction industries -----	199 084	177 747	511 115	70 167 312	134 981	135 789	4 893 428	64 103	41 958	511 115	65 273 884	(Z)	(Z)	
15	Building construction—General contractors and operative builders ----	52 880	45 830	122 670	29 913 248	31 961	31 815	2 003 374	20 919	14 015	122 670	27 909 874	1	1	
16	Heavy construction other than building construction—contractors -----	5 005	3 256	67 260	9 456 831	1 893	1 851	85 150	3 112	1 405	67 260	9 371 681	1	1	
17	Special trade contractors -----	141 200	128 660	321 185	30 797 233	101 127	102 123	2 804 904	40 073	26 537	321 185	27 992 329	(Z)	(Z)	
1711	Plumbing, heating, and air-conditioning --	16 764	13 900	55 569	6 356 422	9 766	9 898	345 485	6 998	4 002	55 569	6 010 937	1	1	
1731	Electrical work -----	15 874	13 217	50 159	5 131 095	9 797	9 854	274 252	6 077	3 363	50 159	4 856 843	1	1	
1987															
15, 16, 17	Construction industries ² -----	204 342	163 099	598 320	87 984 753	145 292	145 359	13 286 669	59 050	17 740	598 320	74 698 084	(Z)	(Z)	
15	Building construction—General contractors and operative builders ----	52 640	37 960	145 185	37 689 004	34 380	33 076	3 700 257	18 260	4 884	145 185	33 988 747	1	1	
16	Heavy construction other than building construction—contractors -----	4 921	2 480	74 083	9 609 148	1 820	1 820	261 310	3 101	660	74 083	9 347 838	1	1	
17	Special trade contractors -----	141 376	117 319	372 341	34 299 396	104 930	105 370	4 588 895	36 446	11 949	372 341	29 710 501	(Z)	(Z)	
1711	Plumbing, heating, and air-conditioning --	15 263	11 012	64 720	6 571 059	8 931	8 961	512 219	6 332	2 051	64 720	6 058 840	1	1	
1731	Electrical work -----	14 903	10 961	57 797	5 362 612	9 150	9 139	426 537	5 753	1 822	57 797	4 936 075	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	64 103	511 115	388 254	14 227 394	9 814 596	64 256 118	46 350 107	28 913 937
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	13 950	52 093	38 821	1 032 300	701 612	6 152 771	4 075 376	2 426 051
1522	Other residential buildings	963	6 301	4 630	144 755	92 554	1 073 011	614 677	329 950
1531	Operative builders	1 634	16 813	6 690	548 305	151 837	6 664 893	3 537 402	2 410 760
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	885	8 595	5 916	278 757	164 319	1 843 354	816 550	473 034
1542	Nonresidential buildings, n.e.c.	3 487	38 868	25 780	1 371 144	791 350	11 654 025	4 346 889	2 735 470
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	896	15 532	11 925	578 104	399 164	2 728 254	2 081 139	1 156 590
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	50	2 255	1 809	101 186	79 146	592 300	357 290	186 155
1623	Water, sewer, and utility lines	999	17 666	14 358	602 630	451 583	2 296 243	2 011 366	1 289 149
1629	Heavy construction, n.e.c.	1 166	31 808	25 005	1 023 383	751 401	3 567 539	2 848 798	1 982 123
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6 998	55 569	40 972	1 786 647	1 253 096	5 956 333	5 498 412	3 357 578
1721	Painting and paper hanging	4 099	19 574	16 304	409 128	315 842	1 163 246	1 108 605	789 780
1731	Electrical work	6 077	50 159	37 866	1 559 249	1 115 200	4 813 283	4 557 223	2 734 326
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	1 629	10 346	8 832	213 457	169 362	715 033	673 816	436 920
1742	Plastering, drywall, and insulation work	3 254	34 818	29 853	858 702	686 094	2 288 999	2 149 839	1 415 408
1743	Terrazzo, tile, marble, and mosaic work	1 435	7 868	6 330	188 236	139 936	573 716	556 765	333 910
175	Carpentry and floor work:								
1751	Carpentry	3 395	26 272	21 685	581 781	444 193	2 056 278	1 898 900	1 128 125
1752	Floor laying and other floor work	1 434	8 726	6 558	205 292	139 384	801 215	735 407	400 930
1761	Roofing, siding, and sheet metal work	2 864	24 875	19 591	547 442	375 541	2 052 794	1 941 158	1 112 002
1771	Concrete work	3 017	25 854	21 565	641 284	485 989	2 222 462	1 963 081	1 191 770
1781	Water well drilling	226	2 446	1 851	73 278	51 169	270 583	256 756	163 608
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	468	7 611	5 937	235 707	170 704	761 286	713 583	421 506
1793	Glass and glazing work	709	4 114	2 691	118 872	73 190	414 964	406 991	219 145
1794	Excavation work	850	6 630	5 346	193 494	141 878	765 368	664 406	455 282
1795	Wrecking and demolition work	136	1 864	1 432	47 151	32 832	170 706	144 846	126 863
1796	Installing building equipment, n.e.c.	341	7 837	6 153	249 485	187 556	671 462	640 414	468 055
1799	Special trade contractors, n.e.c.	3 141	26 621	20 354	637 627	449 663	1 986 000	1 750 419	1 169 449

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				
18 453 936	17 906 010	20 642 834	1 255 817	651 010	7 039 070	598 320	71 177 525	32 876 569	(Z)	(Z)	2	15, 16, 17
												15
1 744 030	2 077 396	257 240	74 688	47 466	406 963	50 427	5 467 742	2 241 792	2	2	6	152
296 374	458 334	71 425	7 258	7 751	43 935	10 971	2 011 150	560 032	4	4	14	1522
1 376 801	3 127 491	105 065	32 019	16 300	336 487	23 367	9 709 500	3 345 739	1	2	8	1531
382 425	1 026 804	221 449	28 811	10 987	100 383	11 169	2 643 336	761 244	4	3	10	154
1 737 819	7 307 136	272 308	102 897	47 411	445 597	49 251	11 875 924	2 983 346	1	1	4	1541
												1542
												16
979 020	647 115	657 107	151 216	53 078	796 443	18 748	2 975 885	1 591 856	2	1	9	1611
179 593	235 010	124 739	21 128	11 658	94 222	1 940	301 677	153 566	2	1	4	162
743 007	284 877	580 060	89 011	61 608	617 380	19 119	2 101 952	1 238 137	2	1	5	1622
970 302	718 741	650 457	126 160	69 607	890 081	34 276	3 727 902	2 142 609	1	1	5	1623
												1629
												17
2 195 438	457 921	3 789 213	116 356	73 581	630 504	64 720	5 975 639	3 365 458	1	1	4	1711
319 411	54 642	676 339	24 787	17 280	120 960	21 370	1 144 368	836 719	2	2	9	1721
1 866 458	256 059	3 028 065	93 005	50 584	491 248	57 797	4 866 723	2 864 117	1	1	7	1731
240 717	41 216	523 254	(S)	8 189	74 803	12 609	870 706	501 296	3	2	13	174
752 487	139 160	2 021 409	37 884	22 437	202 442	48 672	3 127 372	1 969 177	1	1	8	1741
227 659	16 951	526 914	8 646	6 113	76 101	7 465	529 857	319 898	3	2	15	1742
												1743
795 885	157 378	1 615 489	35 840	18 220	171 962	33 297	2 282 195	1 236 429	2	2	8	175
352 984	65 808	498 322	12 443	6 933	50 771	6 615	623 028	314 083	3	3	12	1751
												1752
852 039	111 636	820 549	33 092	20 927	210 111	27 289	1 907 960	1 109 870	2	2	6	1761
780 285	259 381	1 568 896	50 313	26 569	345 119	33 363	2 781 887	1 518 217	2	2	8	1771
98 753	13 827	37 755	6 985	8 012	108 026	1 598	147 661	90 038	3	2	7	1781
302 543	47 703	641 368	21 036	7 802	95 206	8 769	833 529	508 363	2	2	14	179
215 934	7 973	319 098	11 922	3 416	43 741	6 474	572 626	307 226	4	3	17	1791
218 490	100 963	428 083	73 138	14 396	277 585	9 607	1 204 038	852 454	4	3	6	1793
24 871	25 860	75 612	*13 227	2 681	46 792	2 572	132 149	113 285	5	7	32	1794
178 865	31 048	204 526	17 495	5 910	65 071	5 441	523 790	376 610	2	1	2	1795
621 747	235 581	928 091	49 967	32 093	297 140	24 683	1 733 578	1 068 146	2	2	8	1796
												1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

CALIFORNIA CA-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	64 103	59 050	46 693	44 691	(Z)	(Z)	1	1
Proprietors and working partners	41 958	17 740	19 234	29 075	1	2	2	2
All employees**	511 115	598 320	443 349	424 397	(Z)	(Z)	(Z)	(Z)
Construction workers:								
March	375 920	441 938	328 571	307 154	(Z)	(Z)	(Z)	(Z)
May	394 143	465 210	333 996	332 671	(Z)	(Z)	1	1
August	409 834	491 068	336 704	348 708	(Z)	(Z)	1	1
November	373 118	469 683	328 727	341 022	(Z)	(Z)	1	1
Average	388 254	466 975	336 885	332 667	(Z)	(Z)	(Z)	(Z)
Other employees:								
March	125 590	129 435	105 325	88 635	(Z)	1	(Z)	1
May	122 549	130 850	(NA)	(NA)	(Z)	1	(NA)	(NA)
August	122 367	132 931	(NA)	(NA)	(Z)	1	(NA)	(NA)
November	120 941	132 189	(NA)	(NA)	(Z)	1	(NA)	(NA)
Average	122 862	131 351	(NA)	(NA)	(Z)	(Z)	(NA)	(NA)
Payroll, all employees	14 227 394	14 905 469	10 038 911	6 674 014	(Z)	(Z)	(Z)	(Z)
Payroll, construction workers	9 814 596	10 567 484	7 237 465	4 878 204	(Z)	(Z)	(Z)	(Z)
Payroll, other employees	4 412 799	4 337 985	2 801 446	1 795 810	(Z)	(Z)	(Z)	1
First-quarter payroll, all employees	3 305 605	3 361 379	2 336 909	1 473 035	(Z)	(Z)	(Z)	(Z)
Fringe benefits, all employees	3 767 141	3 742 380	1 928 342	1 691 635	(Z)	(Z)	(Z)	(Z)
Legally required expenditures	2 378 988	2 505 330	1 364 446	775 637	(Z)	(Z)	(Z)	(Z)
Voluntary expenditures	1 388 152	1 237 049	563 895	915 998	(Z)	(Z)	(Z)	(Z)
Dollar value of business done	65 273 884	74 698 084	43 276 336	30 514 878	(Z)	(Z)	(Z)	(Z)
Value of construction work	64 256 118	71 177 525	40 579 275	28 640 520	(Z)	(Z)	(Z)	(Z)
Value of construction work subcontracted in from others	20 642 834	19 718 875	9 656 495	7 878 163	1	1	1	(Z)
Other business receipts	1 017 766	1 700 952	2 078 498	1 874 359	2	1	(Z)	1
Net value of construction†	46 350 107	50 071 124	28 828 153	20 372 929	(Z)	(Z)	(Z)	(Z)
Value added††	28 913 937	32 876 569	19 628 452	12 825 518	(Z)	(Z)	(Z)	(Z)
Selected costs	36 359 947	40 001 903	23 029 322	16 894 229	(Z)	1	(Z)	(Z)
Materials, components, and supplies	17 557 968	17 979 694	10 603 707	8 168 104	(Z)	(Z)	(Z)	(Z)
Construction work subcontracted out to others	17 906 010	21 106 400	11 751 122	8 267 591	1	1	(Z)	1
Selected power, fuels, and lubricants	895 969	915 807	674 492	458 535	1	1	(Z)	1
Electricity	160 654	134 202	92 721	55 969	1	1	1	1
Natural gas	40 950	29 090	26 171	30 697	2	2	1	2
Gasoline and diesel fuel	652 284	692 365	507 100	307 260	1	1	1	1
On highway use	505 873	523 564	(NA)	(NA)	1	1	(NA)	(NA)
Off highway use	146 411	168 800	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases	42 080	60 149	48 500	64 636	2	1	1	1
Rental cost for machinery, equipment, and buildings	1 255 817	1 327 711	684 686	443 823	1	1	1	1
For machinery and equipment	798 009	953 194	483 490	359 914	1	1	1	1
For buildings	457 808	374 516	201 196	83 909	1	1	1	1
Selected purchased services	998 203	945 870	558 197	417 366	1	1	1	2
Communication services	357 354	308 243	190 204	135 701	1	1	1	6
Repairs to buildings and other structures	55 420	56 811	33 191	26 350	2	3	2	3
Repairs to machinery and equipment	585 428	580 815	334 801	255 315	1	1	1	1
Ownership of construction projects:								
Value of construction work	64 256 118	71 177 525	40 579 275	28 640 520	(Z)	(Z)	(Z)	(Z)
Government owned	14 663 749	10 451 942	7 095 289	4 530 809	1	1	1	(Z)
Federal	2 970 648	2 950 407	(NA)	(NA)	2	3	(NA)	(NA)
State and local	11 693 101	7 501 534	(NA)	(NA)	1	1	(NA)	(NA)
Privately owned	49 592 369	60 725 583	33 483 986	24 109 710	1	1	(Z)	(Z)

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

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

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

Item	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	6 804 457	5 857 281	1	1
Capital expenditures, other than land	651 010	898 871	2	1
New	481 256	713 766	2	2
Used	169 754	185 104	4	3
Retirements and disposition of depreciable assets	416 396	388 499	3	3
End-of-year gross book value of depreciable assets	7 039 070	6 367 653	1	1
Depreciation charges during year	777 594	765 057	1	1
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	1 010 128	1 597 044	2	3
Capital expenditures, other than land	72 345	173 043	4	5
New buildings and other structures	53 811	131 388	5	6
Used buildings and other structures	18 534	41 655	10	9
Retirements and disposition of depreciable assets	42 274	106 408	9	8
End-of-year gross book value of depreciable assets	1 040 199	1 663 680	2	3
Depreciation charges during year	84 194	132 242	5	3
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	5 794 329	4 260 236	1	1
Capital expenditures, other than land	578 665	725 827	2	1
New machinery and equipment, including automobiles and trucks	427 445	582 378	2	1
New automobiles and trucks, intended primarily for highway use	179 240	274 150	2	2
Used machinery and equipment, including automobiles and trucks	151 220	143 449	4	2
Retirements and disposition of depreciable assets	374 123	282 091	4	3
End-of-year gross book value of depreciable assets	5 998 871	4 703 972	1	1
Depreciation charges during year	693 399	632 815	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	64 103	(Z)
Value of construction work	64 256 118	(Z)
Establishments with inventories:		
Number	20 502	1
Value of construction work	25 848 176	(Z)
Inventories¹:		
End of 1992, materials and supplies	911 379	3
End of 1991, materials and supplies	696 227	2
Establishments with no inventories:		
Number	22 687	1
Value of construction work	25 172 363	1
Establishments not reporting:		
Number	20 914	1
Value of construction work	13 235 578	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	64 103	41 097	11 205	6 713	3 625	997	360	85	16	5
All employees**	511 115	72 793	71 717	87 943	106 614	67 174	51 403	28 659	10 582	14 231
Payroll, all employees	14 227 394	1 305 480	1 614 172	2 355 439	3 185 113	2 266 736	1 746 219	1 122 800	307 208	324 228
Dollar value of business done	65 273 884	8 017 726	7 154 035	9 802 243	13 596 917	10 949 997	8 619 900	5 348 707	1 241 583	542 777
Value of construction work	64 256 118	7 915 868	7 031 030	9 639 309	13 415 097	10 815 748	8 453 842	5 270 876	1 218 056	496 291
Net value of construction work†	46 350 107	6 257 036	5 502 519	7 204 947	9 860 002	7 262 908	5 400 074	3 384 652	1 084 458	393 511
Value added††	28 913 937	3 634 214	3 404 797	4 487 764	6 135 572	4 587 568	3 383 642	2 249 863	719 974	310 544
Cost of materials, components, supplies, and fuels	18 453 936	2 724 680	2 220 727	2 880 118	3 906 249	2 809 589	2 182 490	1 212 620	388 011	129 453
Cost of construction work subcontracted out to others	17 906 010	1 658 832	1 528 511	2 434 362	3 555 095	3 552 840	3 053 768	1 886 224	133 598	102 780
Rental cost for machinery, equipment, and buildings	1 255 817	132 537	142 570	208 192	267 334	188 398	172 833	106 924	37 030	(D)
Capital expenditures, other than land	651 010	123 101	72 704	95 373	131 778	79 961	78 170	63 997	5 926	(D)
End-of-year gross book value of depreciable assets	7 039 070	952 379	788 264	1 105 020	1 461 514	947 357	1 079 516	583 027	115 290	6 703
1987										
All employees**	598 320	(S)	80 525	100 779	130 026	79 704	74 882	33 458	16 260	16 706
Value of construction work	71 177 525	(S)	7 169 023	10 149 370	14 666 745	11 100 443	12 249 285	4 662 800	3 978 589	(D)
Value added††	32 876 569	(S)	3 626 878	4 932 572	7 220 470	5 089 728	5 140 907	2 949 675	(D)	679 979
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	(Z)	1	2	2	1	1	(Z)	(Z)	(Z)	(Z)
Net value of construction work†	(Z)	2	2	1	1	(Z)	(Z)	(Z)	(Z)	(Z)
Capital expenditures, other than land	2	5	6	4	1	(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	64 103	(S)	(S)	8 623	16 371	11 889	8 360	6 049	2 179	1 130	915
All employees**	511 115	(S)	(S)	11 693	41 096	54 152	68 060	93 434	63 562	53 095	118 989
Payroll, all employees	14 227 394	(S)	(S)	140 599	612 036	1 031 111	1 513 464	2 532 692	1 936 761	1 835 967	4 558 493
Dollar value of business done	65 273 884	(S)	(S)	635 746	2 712 483	4 189 093	5 787 314	9 183 975	7 507 818	7 767 550	27 258 555
Value of construction work	64 256 118	(S)	(S)	628 032	2 684 021	4 125 988	5 693 885	9 012 680	7 405 693	7 653 243	26 823 147
Net value of construction work†	46 350 107	(S)	(S)	573 605	2 382 934	3 607 920	4 818 399	7 323 658	5 910 107	5 692 994	15 829 030
Value added††	28 913 937	(S)	(S)	352 731	1 436 801	2 171 986	2 919 105	4 554 557	3 663 938	3 546 270	10 142 620
Cost of materials, components, supplies, and fuels	18 453 936	(S)	(S)	228 588	974 597	1 499 039	1 992 722	2 940 397	2 348 294	2 261 031	6 121 818
Cost of construction work subcontracted out to others	17 906 010	(S)	(S)	(S)	301 086	518 068	875 487	1 689 022	1 495 586	1 960 249	10 994 117
Rental cost for machinery, equipment, and buildings	1 255 817	(S)	(S)	12 073	54 227	94 923	122 008	207 726	156 954	146 180	457 637
Capital expenditures, other than land	651 010	(S)	(S)	11 199	47 769	72 771	71 997	97 462	75 360	77 975	192 361
End-of-year gross book value of depreciable assets	7 039 070	(S)	(S)	97 450	365 860	584 604	745 116	1 142 958	844 340	811 908	2 407 146
1987											
All employees**	598 320	(S)	(S)	(S)	(S)	(S)	73 791	109 208	74 328	67 620	146 495
Value of construction work	71 177 525	(S)	(S)	(S)	(S)	(S)	5 561 513	9 760 647	8 417 590	8 710 312	31 712 931
Value added††	32 876 569	(S)	(S)	(S)	(S)	(S)	3 012 814	5 189 382	4 247 382	4 187 224	12 302 638
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	(Z)	(S)	(S)	3	2	2	2	1	1	(Z)	(Z)
Net value of construction work†	(Z)	(S)	(S)	3	2	2	2	1	1	(Z)	(Z)
Capital expenditures, other than land	2	(S)	(S)	10	7	8	6	4	1	(Z)	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	64 256 118	40 612 252	14 483 285	7 129 550	(Z)	(Z)	1	1
Building construction	49 780 892	32 535 120	12 395 664	4 850 108	(Z)	(Z)	1	1
Single-family houses	19 891 841	14 608 583	3 578 440	1 704 819	1	1	2	2
Single-family houses, detached	17 379 573	12 764 144	3 216 979	1 398 450	1	1	2	2
Single-family houses, attached, including townhouses and townhouse-type condominiums	2 512 268	1 844 439	361 460	306 369	2	3	5	4
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	2 125 549	1 364 800	409 759	350 991	2	2	4	3
Other residential buildings, including hotels, motels, and tourist cabins	880 085	587 277	200 717	92 091	2	2	5	5
Office buildings	6 878 077	3 606 639	2 494 008	777 429	1	1	1	2
Other commercial buildings such as stores, restaurants, and automobile service stations	6 019 746	3 544 081	1 806 612	669 052	1	1	2	3
Industrial buildings and warehouses	5 827 555	3 351 439	1 712 653	763 464	1	1	2	2
Industrial buildings	4 714 985	2 622 635	1 434 867	657 482	1	1	2	2
Warehouses	1 112 570	728 803	277 785	105 981	2	2	4	3
Religious buildings	511 613	281 675	159 430	70 508	4	4	10	4
Educational buildings	2 839 057	1 896 718	793 052	149 287	1	1	3	3
Hospitals and institutional buildings	3 170 106	2 102 295	889 940	177 872	1	1	3	3
Amusement, social, and recreational buildings, indoors	706 621	549 034	137 986	19 600	2	2	6	4
Other nonresidential buildings	930 641	642 579	213 069	74 994	3	3	5	10
Nonbuilding construction	12 444 195	8 077 132	2 087 621	2 279 442	1	1	1	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	3 285 146	1 928 343	754 441	602 362	1	1	2	2
Outdoor swimming pools	454 671	337 182	58 162	59 327	8	9	12	15
Private driveways and parking areas	431 690	226 462	78 417	126 811	5	5	8	13
Bridges, tunnels, and elevated highways	791 967	625 380	117 732	48 855	1	1	4	9
Conservation and development construction	541 384	366 426	73 444	101 514	3	4	6	4
Power and communication transmission lines, towers, and related facilities	511 378	331 851	86 965	92 563	3	4	6	3
Sewers, water mains, and related facilities	1 814 905	1 410 228	202 926	201 752	2	2	3	4
Sewers, sewer lines, septic systems, and related facilities	896 146	691 046	110 680	94 420	2	3	5	7
Water mains and related facilities	918 760	719 182	92 246	107 332	2	2	3	5
Pipeline construction other than sewer or water lines	688 854	451 322	105 889	131 643	1	2	2	1
Blast furnaces, petroleum refineries, chemical complexes, etc.	900 518	420 724	138 536	341 257	2	3	2	1
Power plants	644 803	269 508	115 043	260 252	1	1	1	1
Sewage treatment and water treatment plants	826 432	633 229	152 906	40 296	1	1	3	4
Other nonbuilding construction	1 552 447	1 076 477	203 160	272 809	2	2	3	4
Construction work, n.s.k.	2 031 031	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
1987								
Value of construction work	71 177 525	51 137 633	11 092 409	5 655 858	(Z)	(Z)	1	1
Building construction	55 348 773	42 037 018	9 261 134	3 673 479	(Z)	1	1	2
Single-family houses	21 948 802	18 302 997	2 434 656	1 211 149	1	1	2	2
Single-family houses, detached	17 964 300	14 817 545	2 131 142	1 015 613	1	1	2	2
Single-family houses, attached, including townhouses and townhouse-type condominiums	3 984 502	3 485 452	303 514	195 536	2	2	5	4
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	3 677 873	3 111 382	232 376	334 114	3	2	4	15
Other residential buildings, including hotels, motels, and tourist cabins	2 376 982	1 904 744	329 113	143 124	2	3	3	3
Office buildings	9 010 112	6 365 558	2 108 198	536 355	1	1	2	2
Other commercial buildings such as stores, restaurants, and automobile service stations	6 288 167	4 295 722	1 402 322	590 123	1	1	2	4
Industrial buildings and warehouses	6 768 175	4 874 848	1 336 618	556 708	1	1	2	2
Industrial buildings	4 979 766	3 413 344	1 102 220	464 202	1	1	2	2
Warehouses	1 788 409	1 461 504	234 398	92 506	2	2	3	4
Religious buildings	303 751	187 714	77 314	38 723	6	10	6	5
Educational buildings	1 435 037	876 430	440 440	118 166	2	1	3	5
Hospitals and institutional buildings	2 359 907	1 581 406	658 611	119 889	1	1	2	5
Amusement, social, and recreational buildings, indoors	228 875	149 398	53 712	25 765	4	6	7	5
Other nonresidential buildings	951 092	679 778	194 445	76 879	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	12 537 124	8 807 656	1 824 605	1 904 863	1	1	2	1
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	3 082 650	1 760 850	776 394	545 405	1	1	4	2
Outdoor swimming pools	441 078	343 030	65 045	33 003	7	6	14	19
Private driveways and parking areas	601 409	403 509	76 095	121 804	3	3	7	6
Bridges, tunnels, and elevated highways	503 681	411 172	68 681	23 827	1	1	3	5
Conservation and development construction	333 294	263 989	46 538	22 766	6	7	7	10
Power and communication transmission lines, towers, and related facilities	715 922	506 024	69 679	140 219	8	8	3	10
Sewers, water mains, and related facilities	1 667 891	1 371 555	176 900	119 436	2	2	5	4
Sewers, sewer lines, septic systems, and related facilities	869 639	718 790	89 853	60 995	2	2	8	6
Water mains and related facilities	798 252	652 765	87 047	58 441	2	2	3	4
Pipeline construction other than sewer or water lines	542 360	421 642	75 446	45 271	2	3	2	3
Blast furnaces, petroleum refineries, chemical complexes, etc.	774 265	501 417	116 824	156 022	1	(Z)	2	4
Sewage treatment and water treatment plants	650 395	498 773	117 182	34 439	2	2	6	13
Other nonbuilding construction	3 224 179	2 325 695	235 821	662 671	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	3 291 628	(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 -----	64 103	388 254	375 920	394 143	409 834	373 118	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
15	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	13 950	38 821	37 899	39 478	41 462	36 447	1	2	2	2	2	2
1522	Other residential buildings -----	963	4 630	4 788	5 029	4 851	3 852	6	4	5	5	5	5
1531	Operative builders -----	1 634	6 690	6 538	7 053	7 089	6 080	4	3	3	3	2	3
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	885	5 916	5 654	5 977	6 058	5 974	7	5	5	4	7	5
1542	Nonresidential buildings, n.e.c. ---	3 487	25 780	25 534	25 626	26 823	25 136	3	2	2	2	2	2
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction ----	896	11 925	10 082	12 500	13 441	11 679	5	2	2	2	2	2
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	50	1 809	1 549	1 747	2 001	1 939	11	1	1	1	2	2
1623	Water, sewer, and utility lines ----	999	14 358	12 837	14 262	15 424	14 909	4	2	2	2	2	2
1629	Heavy construction, n.e.c. -----	1 166	25 005	25 296	24 403	26 033	24 287	5	1	1	1	1	1
17	Special trade contractors:												
1711	Plumbing, heating, and air-conditioning -----	6 998	40 972	40 715	41 766	42 395	39 012	1	1	1	1	1	1
1721	Painting and paper hanging -----	4 099	16 304	14 947	16 630	18 371	15 266	1	2	2	2	2	2
1731	Electrical work -----	6 077	37 866	37 628	37 241	39 504	37 091	1	1	1	1	1	1
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	1 629	8 832	8 398	9 369	9 252	8 309	2	3	3	3	3	3
1742	Plastering, drywall, and insulation work -----	3 254	29 853	29 134	30 905	30 857	28 517	2	1	2	2	2	2
1743	Terrazzo, tile, marble, and mosaic work -----	1 435	6 330	6 335	6 695	6 418	5 872	3	3	3	3	3	3
175	Carpentry and floor work:												
1751	Carpentry -----	3 395	21 685	20 366	23 238	24 110	19 028	2	2	2	2	2	3
1752	Floor laying and other floor work --	1 434	6 558	6 511	6 608	6 910	6 204	3	3	3	3	3	4
1761	Roofing, siding, and sheet metal work -----	2 864	19 591	18 833	19 164	20 596	19 771	2	2	2	2	2	2
1771	Concrete work -----	3 017	21 565	20 371	22 467	22 642	20 780	2	2	2	2	2	2
1781	Water well drilling -----	226	1 851	1 834	1 857	1 941	1 773	6	3	3	3	3	3
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	468	5 937	5 815	6 049	6 108	5 775	7	2	2	2	3	2
1793	Glass and glazing work -----	709	2 691	2 767	2 697	2 734	2 565	4	4	4	4	4	5
1794	Excavation work -----	850	5 346	4 517	5 574	5 886	5 407	6	4	5	4	4	4
1795	Wrecking and demolition work ----	136	1 432	932	1 588	1 672	1 533	13	5	5	4	5	7
1796	Installing building equipment, n.e.c. -----	341	6 153	6 898	5 730	5 978	6 004	7	2	1	2	2	3
1799	Special trade contractors, n.e.c. ---	3 141	20 354	19 740	20 491	21 278	19 907	3	2	2	2	2	2

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 -----	8.0	27.8	165.5	.221	.287	.279	.321	.020
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.7	19.8	158.5	.168	.283	.338	.042	.012
1522	Other residential buildings -----	6.5	23.0	231.8	.135	.276	.427	.067	.007
1531	Operative builders -----	10.3	32.6	996.2	.082	.207	.469	.016	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	9.7	32.4	311.6	.151	.207	.557	.120	.016
1542	Nonresidential buildings, n.e.c. -----	11.1	35.3	452.1	.118	.149	.627	.023	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	17.3	37.2	228.8	.212	.359	.237	.241	.055
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	44.7	44.9	327.4	.171	.303	.397	.211	.036
1623	Water, sewer, and utility lines -----	17.7	34.1	159.9	.262	.324	.124	.253	.039
1629	Heavy construction, n.e.c. -----	27.3	32.2	142.7	.287	.272	.201	.182	.035
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.9	32.2	145.4	.300	.369	.077	.636	.020
1721	Painting and paper hanging -----	4.8	20.9	71.3	.352	.275	.047	.581	.021
1731	Electrical work -----	8.3	31.1	127.1	.324	.388	.053	.629	.019
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.4	20.6	81.0	.299	.337	.058	.732	(S)
1742	Plastering, drywall, and insulation work -----	10.7	24.7	76.7	.375	.329	.061	.883	.017
1743	Terrazzo, tile, marble, and mosaic work -----	5.5	23.9	90.6	.328	.397	.030	.918	.015
175	Carpentry and floor work:								
1751	Carpentry -----	7.7	22.1	94.8	.283	.387	.077	.786	.017
1752	Floor laying and other floor work -----	6.1	23.5	122.2	.256	.441	.082	.622	.016
1761	Roofing, siding, and sheet metal work -----	8.7	22.0	104.8	.267	.415	.054	.400	.016
1771	Concrete work -----	8.6	24.8	103.1	.289	.351	.117	.706	.023
1781	Water well drilling -----	10.8	30.0	146.2	.271	.365	.051	.140	.026
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	16.3	31.0	128.2	.310	.397	.063	.842	.028
1793	Glass and glazing work -----	5.8	28.9	154.2	.286	.520	.019	.769	.029
1794	Excavation work -----	7.8	29.2	143.2	.253	.285	.132	.559	.096
1795	Wrecking and demolition work -----	13.7	25.3	119.2	.276	.146	.151	.443	.077
1796	Installing building equipment, n.e.c. -----	23.0	31.8	109.1	.372	.266	.046	.305	.026
1799	Special trade contractors, n.e.c. -----	8.5	24.0	97.6	.321	.313	.119	.467	.025

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
	LOS ANGELES-RIVERSIDE-ORANGE COUNTY, CA CMSA											
15,16,17	Construction industries -----	25 024	228 224	6 252 722	28 494 254	20 459 711	12 903 124	8 061 167	8 034 543	250 903	(Z)	(Z)
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	4 239	17 112	325 419	2 011 129	1 310 005	804 548	533 122	701 123	(S)	3	3
1522	Other residential buildings -----	321	3 071	66 562	540 907	311 841	165 170	153 008	229 066	5 663	5	5
1531	Operative builders -----	510	7 899	271 717	3 401 258	1 672 464	1 194 132	647 146	1 728 795	4 453	1	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	426	4 115	132 008	873 962	355 763	209 027	165 772	518 199	3 775	7	4
1542	Nonresidential buildings, n.e.c. -----	1 345	15 904	556 180	5 077 112	1 998 937	1 240 250	817 260	3 078 175	13 846	2	1
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	326	5 747	213 795	1 064 487	818 931	461 665	367 528	245 555	21 150	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	16	768	37 578	219 626	(D)	48 695	85 283	(D)	1 850	(Z)	(D)
1623	Water, sewer, and utility lines -----	433	9 128	317 907	1 179 454	1 046 384	674 156	376 823	133 070	31 132	2	2
1629	Heavy construction, n.e.c. -----	486	16 422	453 969	1 557 220	1 194 064	851 769	415 907	363 156	27 642	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	3 275	24 650	769 583	2 689 605	2 454 946	1 484 385	991 154	234 659	25 810	1	2
1721	Painting and paper hanging -----	1 468	8 365	172 576	504 533	475 312	347 209	128 300	29 221	6 641	3	3
1731	Electrical work -----	2 767	23 537	732 043	2 241 098	2 118 013	1 271 452	865 437	123 085	18 416	2	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	718	(S)	119 623	399 133	380 265	255 357	127 202	18 868	4 262	(S)	3
1742	Plastering, drywall, and insulation work -----	1 273	15 168	366 093	958 513	895 688	583 093	326 021	62 825	8 085	2	2
1743	Terrazzo, tile, marble, and mosaic work -----	486	3 131	77 033	230 900	222 003	138 872	86 001	8 897	1 678	4	3
175	Carpentry and floor work:											
1751	Carpentry -----	1 504	13 571	285 188	992 975	925 844	529 324	410 008	67 131	8 127	3	2
1752	Floor laying and other floor work -----	544	3 653	86 955	328 608	303 585	170 623	141 124	25 023	(S)	4	4
1761	Roofing, siding, and sheet metal work -----	1 162	11 162	255 941	953 142	896 277	516 872	386 302	56 865	8 800	3	2
1771	Concrete work -----	1 207	11 673	286 500	1 010 713	879 172	532 863	348 760	131 542	12 141	3	2
1781	Water well drilling -----	47	908	31 280	114 881	107 280	72 841	37 195	7 601	2 387	2	1
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	231	3 545	106 394	328 685	311 348	189 505	126 914	17 337	4 502	3	3
1793	Glass and glazing work -----	274	1 603	43 165	153 433	149 098	78 147	75 308	4 336	732	5	5
1794	Excavation work -----	323	2 953	82 169	321 495	(D)	195 153	90 286	(D)	5 697	6	(D)
1795	Wrecking and demolition work -----	66	971	23 572	74 028	65 382	59 392	11 027	8 646	764	6	11
1796	Installing building equipment, n.e.c. -----	165	4 259	126 800	340 371	326 176	241 709	86 721	14 195	1 379	1	1
1799	Special trade contractors, n.e.c. -----	1 412	12 705	312 671	926 985	829 733	586 916	261 557	97 252	15 061	3	3
	Los Angeles-Long Beach, CA PMSA											
15,16,17	Construction industries -----	12 214	107 774	3 102 870	14 053 438	9 847 071	6 400 955	3 705 758	4 206 367	110 354	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	2 240	9 273	175 219	972 691	612 018	369 045	257 441	360 672	6 288	5	5
1522	Other residential buildings -----	211	1 802	43 162	384 888	217 518	115 164	105 752	167 369	4 856	8	6
1531	Operative builders -----	271	3 263	112 071	1 366 180	626 934	500 526	224 470	739 246	1 286	2	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	204	2 100	69 179	461 268	201 763	121 307	87 296	259 505	1 853	10	5
1542	Nonresidential buildings, n.e.c. -----	641	8 795	323 795	2 890 035	1 021 643	649 971	412 842	1 868 393	6 673	2	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	116	1 685	58 437	318 362	259 401	142 942	121 973	58 960	7 979	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	8	139	6 776	(D)	(D)	10 133	(D)	(D)	(D)	(Z)	(D)
1623	Water, sewer, and utility lines -----	154	4 324	171 160	597 475	537 422	376 721	161 704	60 053	15 494	3	3
1629	Heavy construction, n.e.c. -----	133	3 500	152 769	703 197	489 533	381 585	121 211	213 665	9 742	2	1

CA-14 CALIFORNIA

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
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.											
	Los Angeles—Long Beach, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	1 790	13 414	432 456	1 469 330	1 348 056	850 901	504 136	121 274	13 810	2	2
1721	Painting and paper hanging	692	3 597	77 022	228 372	212 399	156 242	56 297	15 973	3 032	5	4
1731	Electrical work	1 523	13 033	426 217	1 292 708	1 209 062	731 551	489 551	83 645	9 947	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	317	(S)	(S)	(S)	(S)	(S)	67 000	6 044	2 266	(S)	(S)
1742	Plastering, drywall, and insulation work	456	5 691	148 537	382 914	354 808	227 753	137 538	28 105	3 522	3	4
1743	Terrazzo, tile, marble, and mosaic work	222	1 380	34 917	113 675	108 404	67 647	42 919	5 272	969	8	6
175	Carpentry and floor work:											
1751	Carpentry	626	4 790	96 798	318 461	300 607	175 377	131 361	17 854	1 572	6	4
1752	Floor laying and other floor work	264	1 789	43 165	156 186	146 948	82 912	64 813	9 237	1 596	7	7
1761	Roofing, siding, and sheet metal work	572	5 926	138 422	518 564	487 795	288 123	202 210	30 769	2 709	4	3
1771	Concrete work	471	4 619	113 569	397 087	352 363	213 755	140 423	44 724	3 837	4	4
1781	Water well drilling	8	237	6 421	(D)	(D)	15 591	8 477	(D)	1 078	6	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	95	1 823	53 740	157 413	148 179	97 623	53 397	9 234	1 689	4	4
1793	Glass and glazing work	132	787	19 177	66 020	64 289	35 817	(D)	1 730	(D)	6	9
1794	Excavation work	129	1 021	30 926	133 271	112 885	65 230	49 817	20 386	1 381	8	4
1795	Wrecking and demolition work	43	462	12 704	49 405	43 175	40 873	6 699	6 230	(D)	12	17
1796	Installing building equipment, n.e.c. ..	103	3 380	95 793	267 751	254 981	187 495	69 702	12 770	719	2	1
1799	Special trade contractors, n.e.c.	793	7 149	191 461	524 658	475 825	344 077	145 436	48 833	7 090	4	3
	Orange County, CA PMSA											
15,16,17	Construction industries	5 346	63 974	1 727 156	8 238 752	5 761 760	3 622 397	2 295 327	2 476 992	51 968	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	813	4 023	81 789	602 656	377 987	255 509	128 719	224 669	3 126	5	4
1522	Other residential buildings	66	990	16 690	107 938	69 023	35 506	34 589	38 914	(S)	6	9
1531	Operative builders	107	3 022	113 287	1 484 423	763 089	495 995	312 395	721 334	2 233	1	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	133	1 292	41 149	256 730	93 286	56 978	47 599	163 443	696	12	10
1542	Nonresidential buildings, n.e.c.	367	4 619	164 029	1 653 652	761 704	449 796	319 533	891 949	2 510	4	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	73	1 202	42 877	219 251	175 546	99 210	77 790	43 704	1 678	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	69	936	28 135	112 302	97 155	66 788	30 935	15 148	3 164	12	6
1629	Heavy construction, n.e.c.	128	10 081	205 681	505 462	408 793	278 012	182 226	96 669	1 840	1	3
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	600	5 817	192 336	685 859	602 644	351 949	259 822	83 215	6 308	3	2
1721	Painting and paper hanging	369	2 794	60 889	171 454	162 073	118 895	43 204	9 381	2 680	4	3
1731	Electrical work	510	5 682	176 948	527 108	506 550	304 568	205 361	20 558	4 746	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	141	1 122	22 774	82 997	76 389	49 651	26 919	6 608	(S)	9	8
1742	Plastering, drywall, and insulation work	325	4 019	111 630	289 867	277 330	183 152	96 105	12 537	1 568	4	4
1743	Terrazzo, tile, marble, and mosaic work	133	824	19 493	56 263	53 621	34 090	19 540	2 642	568	9	6
175	Carpentry and floor work:											
1751	Carpentry	359	4 005	88 952	332 845	300 821	171 968	132 624	*32 025	2 826	6	4
1752	Floor laying and other floor work	129	1 131	30 649	118 752	106 973	58 072	53 275	11 779	(S)	5	5

CONSTRUCTION—GEOGRAPHIC AREA SERIES

CALIFORNIA CA—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
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.											
	Orange County, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
1761	Special trade contractors—Con.											
	Roofing, siding, and sheet metal work -----	(S)	2 952	74 307	253 475	236 395	139 063	101 155	17 080	4 768	7	6
1771	Concrete work -----	(S)	2 963	81 916	267 978	225 349	137 774	87 762	42 629	2 845	5	4
1781	Water well drilling -----	(S)	277	(D)	(D)	31 933	23 257	8 854	(D)	(D)	(Z)	(Z)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	46	473	14 870	41 279	(D)	23 174	14 193	(D)	1 664	10	(D)
1793	Glass and glazing work -----	70	431	12 195	48 191	46 075	22 025	24 115	2 116	(D)	13	8
1794	Excavation work -----	82	1 122	30 138	102 344	(D)	74 618	16 897	(D)	2 855	11	(D)
1795	Wrecking and demolition work -----	*15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	23	564	22 916	47 639	47 232	36 582	10 661	407	329	(Z)	(Z)
1799	Special trade contractors, n.e.c. -----	281	3 163	72 209	208 816	(D)	138 926	54 996	(D)	1 545	5	(D)
	Riverside—San Bernardino, CA PMSA											
15,16,17	Construction industries -----	5 893	45 857	1 148 010	5 161 311	3 992 780	2 339 766	1 729 272	1 168 531	76 985	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	(S)	3 179	57 351	369 955	273 395	150 282	129 333	96 560	(S)	5	6
1522	Other residential buildings -----	(S)	(S)	(D)	34 785	(S)	(S)	7 399	16 930	(S)	(S)	(S)
1531	Operative builders -----	119	1 548	45 072	520 006	263 062	185 542	99 816	256 944	(D)	3	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	77	639	18 751	129 877	51 804	27 230	25 452	78 073	(S)	17	13
1542	Nonresidential buildings, n.e.c. -----	272	1 850	52 759	439 164	164 359	107 753	65 351	274 805	4 152	8	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	(S)	2 019	76 425	376 151	268 104	150 689	120 579	108 048	9 495	4	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	181	3 434	102 319	417 188	363 101	197 043	168 764	54 087	11 269	4	3
1629	Heavy construction, n.e.c. -----	171	1 951	70 151	265 599	232 411	143 071	96 974	33 188	(S)	6	4
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	690	4 150	111 502	421 504	398 014	216 878	184 741	23 490	5 062	3	3
1721	Painting and paper hanging -----	282	1 622	28 076	80 916	77 559	55 224	22 354	3 357	779	10	7
1731	Electrical work -----	582	4 016	102 773	347 165	330 052	190 553	142 181	17 113	(S)	5	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	206	1 018	21 832	74 057	67 896	40 794	27 296	(S)	933	9	7
1742	Plastering, drywall, and insulation work -----	393	4 348	81 651	221 485	201 719	134 594	68 129	19 766	2 792	5	4
1743	Terrazzo, tile, marble, and mosaic work -----	94	645	13 633	37 948	37 085	23 296	14 489	863	117	12	10
175	Carpentry and floor work:											
1751	Carpentry -----	412	3 893	80 773	277 906	266 056	147 748	121 409	11 850	3 330	5	5
1752	Floor laying and other floor work -----	120	590	10 857	45 552	41 967	24 339	20 146	*3 585	424	11	16
1761	Roofing, siding, and sheet metal work -----	283	1 914	37 170	155 681	147 031	76 330	71 219	8 650	962	7	7
1771	Concrete work -----	389	3 499	80 571	304 281	264 162	160 599	103 924	40 119	4 966	5	4
1781	Water well drilling -----	25	365	13 126	(D)	(D)	31 864	18 627	(D)	516	3	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	76	1 163	34 902	123 177	119 590	63 532	57 556	3 586	1 113	6	6
1793	Glass and glazing work -----	51	325	10 404	32 367	31 898	17 278	(D)	469	(D)	11	10
1794	Excavation work -----	(S)	643	17 214	68 411	62 099	42 692	19 803	6 312	(D)	20	23
1795	Wrecking and demolition work -----	6	(D)	(D)	(D)	(S)	(D)	(D)	(D)	446	(D)	(S)
1796	Installing building equipment, n.e.c. -	35	296	7 140	22 092	(D)	15 392	5 988	(D)	(D)	12	(D)
1799	Special trade contractors, n.e.c. -----	281	1 945	39 861	165 799	(D)	88 204	51 620	(D)	6 004	8	(D)

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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
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.											
	Ventura, CA PMSA											
15,16,17	Construction industries	1 571	10 619	274 687	1 040 753	858 100	540 005	330 810	182 653	11 596	3	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	636	11 060	(S)	(S)	(S)	(S)	(S)	(S)	11	(S)
1522	Other residential buildings	9	111	(D)	*13 297	*7 446	3 958	*5 267	*5 851	(S)	37	45
1531	Operative builders	12	65	1 287	30 649	19 378	12 069	10 465	11 271	(D)	(Z)	(Z)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	26 088	(S)	3 513	(S)	17 178	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	64	640	15 597	94 261	51 232	32 730	19 534	43 028	511	17	8
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	39	840	36 055	150 723	115 880	68 824	47 187	34 843	1 997	9	7
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	29	434	16 293	52 489	48 705	33 603	15 420	3 783	1 205	5	4
1629	Heavy construction, n.e.c.	55	890	25 368	82 961	63 328	49 101	15 496	19 633	3 493	14	10
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	196	1 269	33 290	112 912	106 232	64 658	42 455	6 680	630	10	6
1721	Painting and paper hanging	125	352	6 589	23 791	23 281	16 849	6 445	510	(S)	14	18
1731	Electrical work	152	805	26 105	74 118	72 349	44 780	28 345	1 769	461	9	8
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	54	268	6 040	18 359	18 303	12 317	5 986	*55	181	16	8
1742	Plastering, drywall, and insulation work	99	1 110	24 274	64 247	61 831	37 594	24 248	2 416	203	9	9
1743	Terrazzo, tile, marble, and mosaic work	(S)	282	8 990	23 012	22 893	13 839	9 054	(S)	24	2	1
175	Carpentry and floor work:											
1751	Carpentry	106	883	18 665	63 763	58 360	34 230	24 615	5 403	399	12	11
1752	Floor laying and other floor work	(S)	143	2 284	8 118	7 696	5 300	2 890	422	32	8	10
1761	Roofing, siding, and sheet metal work	59	369	6 041	25 422	25 055	13 356	11 719	367	362	11	13
1771	Concrete work	(S)	592	10 443	41 367	37 298	20 735	16 651	4 070	493	12	15
1781	Water well drilling	(S)	29	(D)	(D)	(D)	2 129	1 237	(D)	(D)	(Z)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	86	2 882	6 817	(D)	5 177	1 767	(D)	36	18	(D)
1793	Glass and glazing work	22	60	1 389	6 855	6 835	3 026	(D)	(S)	(D)	13	17
1794	Excavation work	17	167	3 891	17 468	(D)	12 613	3 769	(D)	(D)	26	(D)
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	4	20	951	2 889	(D)	2 240	370	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c.	(S)	448	9 140	27 712	24 773	15 710	9 504	(S)	(S)	13	12
	SACRAMENTO—YOLO, CA CMSA											
15,16,17	Construction industries	4 518	32 230	845 404	4 164 981	2 936 657	1 817 002	1 172 578	1 228 324	43 810	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 101	3 909	69 097	391 395	272 436	165 765	114 058	118 959	4 565	6	5
1522	Other residential buildings	(S)	(S)	6 192	(S)	20 978	(S)	10 167	(S)	(D)	(S)	25
1531	Operative builders	147	1 427	38 481	441 905	279 283	187 876	100 607	162 621	1 232	4	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	45	333	10 338	61 004	32 310	17 120	15 480	28 695	(S)	18	17
1542	Nonresidential buildings, n.e.c.	266	3 046	102 921	893 874	300 914	213 795	94 587	592 959	3 514	6	5

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
	SACRAMENTO-YOLO, CA CMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	79	1 401	50 800	210 270	174 841	111 145	67 748	35 429	2 273	4	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	8	709	29 073	(D)	(D)	(D)	36 234	(D)	(D)	(Z)	(D)
1623	Water, sewer, and utility lines -----	88	692	19 943	72 654	59 520	40 434	21 959	13 134	791	13	10
1629	Heavy construction, n.e.c. -----	45	316	11 290	60 365	50 676	33 718	17 182	9 689	2 798	18	19
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	434	3 473	96 189	365 861	343 598	208 726	138 306	22 263	4 975	3	3
1721	Painting and paper hanging-----	263	1 010	19 582	52 595	51 458	35 357	16 162	(S)	921	9	8
1731	Electrical work -----	378	3 134	91 414	316 012	292 237	171 838	122 283	23 775	3 278	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	111	560	11 792	40 741	38 872	21 823	17 104	1 869	(D)	10	9
1742	Plastering, drywall, and insulation work -----	(S)	2 103	47 939	143 124	129 438	80 267	49 603	13 686	2 344	6	6
1743	Terrazzo, tile, marble, and mosaic work -----	136	570	13 558	39 239	38 060	22 257	15 826	1 180	114	9	8
175	Carpentry and floor work:											
1751	Carpentry -----	243	1 610	37 605	136 377	122 557	73 528	52 063	13 821	(S)	8	9
1752	Floor laying and other floor work ---	(S)	502	12 138	60 502	54 566	29 327	26 330	5 936	(S)	13	13
1761	Roofing, siding, and sheet metal work -----	(S)	1 811	36 267	144 647	138 550	77 663	61 419	6 096	1 857	5	5
1771	Concrete work -----	215	1 579	35 678	117 486	112 051	62 609	49 461	5 435	935	8	8
1781	Water well drilling -----	21	367	10 930	51 473	(D)	27 040	20 399	(D)	1 875	3	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	32	341	9 425	(D)	(D)	14 608	14 707	(D)	776	17	(D)
1793	Glass and glazing work -----	(S)	189	4 048	13 304	13 128	(D)	(D)	(S)	*15	8	7
1794	Excavation work -----	39	557	21 101	89 369	(D)	35 955	(D)	(D)	*139	6	(D)
1795	Wrecking and demolition work -----	*9	141	3 340	*16 247	(D)	*9 166	(D)	(D)	(S)	29	(D)
1796	Installing building equipment, n.e.c. -	31	544	15 719	39 277	37 612	27 606	10 006	1 665	323	18	13
1799	Special trade contractors, n.e.c. -----	175	1 617	40 542	140 213	113 631	67 238	49 556	26 582	3 930	6	6
	Sacramento, CA PMSA											
15,16,17	Construction industries -----	4 190	29 291	758 919	3 782 138	2 656 758	1 632 443	1 067 355	1 125 380	39 610	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	1 021	3 550	63 811	358 402	250 258	151 860	104 595	108 144	4 382	6	6
1522	Other residential buildings -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1531	Operative builders -----	135	1 395	37 796	438 511	(D)	186 550	99 757	(D)	1 232	4	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	42	258	8 272	49 884	(D)	12 852	14 223	(D)	(D)	23	(D)
1542	Nonresidential buildings, n.e.c. -----	247	2 753	91 238	811 727	272 456	191 152	85 009	539 271	3 018	7	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	76	1 253	44 439	(D)	156 590	94 585	(D)	(D)	2 027	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	7	(D)	(D)	(D)	(D)	62 575	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	86	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c. -----	44	(D)	(D)	(D)	(D)	(D)	(D)	9 689	2 798	(D)	(D)

CA-18 CALIFORNIA

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
	SACRAMENTO-YOLO, CA CMSA—Con.											
	Sacramento, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	405	3 358	92 173	352 808	(D)	203 625	130 850	(D)	4 702	3	(D)
1721	Painting and paper hanging-----	255	956	18 324	49 260	48 151	33 078	15 134	(S)	840	10	8
1731	Electrical work-----	350	2 645	75 237	258 193	239 009	133 157	107 732	19 184	2 736	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	111	560	11 792	40 741	38 872	21 823	17 104	1 869	(D)	10	9
1742	Plastering, drywall, and insulation work-----	(S)	1 834	40 224	114 932	104 174	65 960	38 647	*10 758	2 111	7	8
1743	Terrazzo, tile, marble, and mosaic work-----	121	520	12 593	36 793	35 640	20 650	15 013	1 154	78	10	9
175	Carpentry and floor work:											
1751	Carpentry-----	229	1 495	34 342	123 026	(D)	67 663	46 240	(D)	(D)	9	(D)
1752	Floor laying and other floor work---	(S)	487	11 945	58 891	53 155	28 348	25 866	5 736	(S)	14	14
1761	Roofing, siding, and sheet metal work-----	(S)	1 722	34 094	134 935	129 968	71 559	58 933	4 967	1 670	5	5
1771	Concrete work-----	212	1 516	34 863	115 506	110 243	61 459	48 803	5 263	935	8	8
1781	Water well drilling-----	15	132	4 066	16 491	16 491	9 310	7 207	-	(D)	6	8
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	32	341	9 425	(D)	(D)	14 608	14 707	(D)	776	17	(D)
1793	Glass and glazing work-----	(S)	161	3 528	12 377	12 201	7 377	(D)	(S)	*15	13	12
1794	Excavation work-----	35	(D)	(D)	(D)	52 234	(D)	(D)	(D)	(D)	(D)	6
1795	Wrecking and demolition work-----	*7	115	2 343	7 738	(D)	4 222	(D)	(D)	-	30	(D)
1796	Installing building equipment, n.e.c.---	28	490	13 040	33 212	(D)	22 457	(D)	(D)	(D)	20	(D)
1799	Special trade contractors, n.e.c.---	161	1 436	36 323	131 221	104 929	61 215	46 468	26 292	3 898	7	6
	Yolo, CA PMSA											
15,16,17	Construction industries-----	(S)	2 939	86 485	382 843	279 899	184 559	105 223	102 944	4 200	6	4
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	79	(S)	5 286	32 993	22 178	13 905	9 463	(S)	(S)	(S)	23
1522	Other residential buildings-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1531	Operative builders-----	(S)	32	685	3 394	(D)	(S)	(S)	(D)	-	(Z)	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	3	(S)	(S)	(S)	(D)	(S)	(S)	(D)	(D)	(S)	(D)
1542	Nonresidential buildings, n.e.c.-----	(S)	293	11 683	82 147	28 458	22 643	9 578	53 689	(S)	(S)	17
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	3	148	6 361	(D)	18 251	16 560	(D)	(D)	246	(Z)	(Z)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
1623	Water, sewer, and utility lines-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c.-----	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	(S)	115	4 016	13 053	(D)	5 101	7 456	(D)	*273	20	(D)
1721	Painting and paper hanging-----	*8	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work-----	27	488	16 177	57 820	53 229	38 680	14 550	4 591	542	7	6
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	-	-	-	-	-	-	-	-	-	-	-
1742	Plastering, drywall, and insulation work-----	(S)	269	7 715	28 192	25 264	14 308	10 956	2 928	233	23	15
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry-----	*14	115	3 263	13 351	(D)	5 865	5 823	(D)	(D)	26	(D)
1752	Floor laying and other floor work---	(S)	(S)	*193	*1 611	*1 411	(S)	(S)	(S)	-	(S)	67
1761	Roofing, siding, and sheet metal work-----	(S)	*89	2 174	9 712	8 583	6 104	2 486	1 129	(S)	45	25
1771	Concrete work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	(S)	(S)

CONSTRUCTION—GEOGRAPHIC AREA SERIES

CALIFORNIA CA—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
	SACRAMENTO-YOLO, CA CMSA—Con.											
	Yolo, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
1781	Water well drilling -----	7	236	6 864	34 982	(D)	17 730	13 192	(D)	(D)	4	(D)
179	Miscellaneous special trade contractors:											
	Structural steel erection -----	--	--	--	--	--	--	--	--	--	--	--
1791	Glass and glazing work -----	(S)	(S)	(S)	*927	*927	(D)	(S)	--	--	(S)	74
1794	Excavation work -----	*4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -	3	54	2 679	6 065	(D)	5 149	(D)	(D)	(D)	(Z)	(D)
1799	Special trade contractors, n.e.c. -----	14	182	4 219	8 991	8 701	6 023	3 088	290	32	14	24
	SAN FRANCISCO-OAKLAND-SAN JOSE, CA CMSA											
15,16,17	Construction industries -----	15 698	128 595	4 068 869	17 428 806	12 511 463	7 858 635	4 871 350	4 917 343	173 593	1	(Z)
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	4 269	16 696	378 749	2 176 297	1 442 887	857 799	620 070	733 409	15 683	2	3
1522	Other residential buildings -----	294	1 792	46 018	289 987	172 682	90 189	85 164	117 305	1 154	8	8
1531	Operative builders -----	337	3 373	123 605	1 456 050	838 852	582 289	299 222	617 198	4 479	3	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	137	1 741	64 866	419 173	179 765	125 359	63 761	239 409	(S)	7	7
1542	Nonresidential buildings, n.e.c. -----	876	10 081	413 103	3 255 794	1 116 406	705 843	453 304	2 139 387	19 873	2	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	164	4 074	161 239	807 367	562 338	264 753	304 665	245 028	12 914	1	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	20	686	30 159	144 215	112 300	61 693	51 024	31 915	1 439	5	5
1623	Water, sewer, and utility lines -----	181	2 765	101 926	406 562	352 032	204 282	150 734	54 529	10 159	3	3
1629	Heavy construction, n.e.c. -----	245	8 965	355 091	1 109 732	883 837	632 165	264 399	225 894	14 257	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	1 437	13 849	530 888	1 601 354	1 480 676	932 201	560 607	120 678	25 509	2	2
1721	Painting and paper hanging -----	1 212	6 125	140 708	371 435	357 650	251 655	106 252	13 785	5 722	3	2
1731	Electrical work -----	1 364	13 143	453 798	1 321 900	1 261 659	779 051	489 631	60 241	13 651	1	1
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	306	1 455	37 974	126 301	112 165	73 179	39 134	*14 137	1 441	6	6
1742	Plastering, drywall, and insulation work -----	674	7 231	213 143	568 844	541 755	363 120	180 303	27 090	5 047	3	2
1743	Terrazzo, tile, marble, and mosaic work -----	362	1 905	50 756	152 499	148 730	86 954	62 551	3 769	2 023	5	5
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	5 649	147 824	525 206	481 904	308 735	176 034	43 302	(S)	4	2
1752	Floor laying and other floor work -----	412	2 771	71 415	285 193	259 014	127 862	135 185	26 179	2 487	5	4
1761	Roofing, siding, and sheet metal work -----	776	6 659	156 973	570 984	533 928	313 230	232 548	37 056	4 782	4	3
1771	Concrete work -----	628	6 281	182 058	573 127	513 452	322 627	193 237	59 676	7 350	3	2
1781	Water well drilling -----	35	321	8 611	24 295	23 663	16 670	8 235	632	1 771	9	7
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	94	1 569	57 388	182 378	166 100	103 949	63 348	16 278	1 288	7	1
1793	Glass and glazing work -----	207	1 187	39 551	133 889	131 296	67 522	71 299	2 592	1 792	7	5
1794	Excavation work -----	161	1 238	41 772	148 865	130 949	106 257	26 347	17 917	3 405	6	5
1795	Wrecking and demolition work -----	38	492	14 904	55 314	49 640	44 883	5 641	5 674	570	8	5
1796	Installing building equipment, n.e.c. -	101	2 471	88 683	244 946	231 153	165 296	67 809	13 793	3 796	1	2
1799	Special trade contractors, n.e.c. -----	683	6 079	157 666	477 099	426 629	271 074	160 844	50 469	6 316	4	3

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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
SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
Oakland, CA PMSA												
15,16,17	Construction industries	4 826	47 115	1 459 370	6 003 820	4 531 721	2 869 445	1 756 361	1 472 099	72 828	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 251	6 392	148 807	791 882	524 818	309 629	228 244	267 064	4 363	4	4
1522	Other residential buildings	(S)	(S)	(S)	74 461	52 795	25 762	(S)	21 666	(S)	(S)	11
1531	Operative builders	88	1 700	67 957	840 382	467 006	346 325	149 202	373 376	2 129	4	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	39	534	19 311	113 057	53 813	38 852	16 194	59 243	608	13	12
1542	Nonresidential buildings, n.e.c.	270	2 402	91 219	517 632	226 740	148 987	86 376	290 892	10 067	7	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	1 606	67 115	388 857	235 392	64 420	175 775	153 465	6 349	1	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*9	106	4 467	18 730	(D)	(D)	7 044	(D)	(D)	29	(D)
1623	Water, sewer, and utility lines	64	993	39 701	167 517	143 739	83 667	61 355	23 778	5 519	4	4
1629	Heavy construction, n.e.c.	88	3 586	133 745	422 349	343 600	264 615	87 911	78 749	3 777	2	3
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	432	4 461	165 062	498 499	460 567	282 629	183 560	37 932	15 055	4	4
1721	Painting and paper hanging	364	2 167	52 454	134 751	130 100	86 461	43 799	4 651	2 616	6	3
1731	Electrical work	454	4 719	147 758	405 034	386 015	246 299	141 673	19 019	3 333	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	108	679	18 944	64 590	52 038	33 089	19 079	(S)	(S)	10	11
1742	Plastering, drywall, and insulation work	183	2 173	60 826	169 594	162 981	107 020	56 693	6 613	1 127	6	5
1743	Terrazzo, tile, marble, and mosaic work	104	509	13 536	41 168	39 733	23 518	16 299	1 435	1 077	7	8
175	Carpentry and floor work:											
1751	Carpentry	(S)	2 455	64 830	242 673	233 072	156 221	77 637	(S)	1 337	6	3
1752	Floor laying and other floor work	114	956	21 690	91 695	80 644	40 065	43 003	11 051	684	9	6
1761	Roofing, siding, and sheet metal work	281	2 425	55 663	200 311	190 354	107 607	86 621	9 957	1 302	4	4
1771	Concrete work	169	2 690	81 469	250 481	221 884	149 256	73 825	28 597	3 241	4	3
1781	Water well drilling	(S)	42	1 215	3 449	3 372	(D)	1 192	77	(D)	(Z)	(Z)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	30	667	26 834	89 585	79 212	49 993	29 531	10 373	541	1	(Z)
1793	Glass and glazing work	70	565	17 948	60 541	(D)	30 140	33 802	(D)	(S)	12	(D)
1794	Excavation work	54	386	14 508	49 863	(D)	34 643	8 578	(D)	1 667	11	(D)
1795	Wrecking and demolition work	13	261	7 762	28 499	24 234	20 887	3 909	4 265	*255	2	5
1796	Installing building equipment, n.e.c.	38	1 003	42 547	112 680	101 591	68 774	34 602	11 089	2 353	(Z)	(Z)
1799	Special trade contractors, n.e.c.	252	3 066	80 017	225 538	202 658	142 047	62 978	22 881	3 557	5	5
San Francisco, CA PMSA												
15,16,17	Construction industries	4 023	31 926	1 081 787	4 900 565	3 088 978	1 953 622	1 191 790	1 811 587	36 025	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 142	3 824	93 280	528 988	365 112	222 375	150 526	163 877	3 995	5	4
1522	Other residential buildings	94	703	18 005	102 706	56 849	36 788	21 219	45 857	394	13	14
1531	Operative builders	99	775	19 460	218 700	130 239	83 299	54 870	88 461	(S)	9	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	278	4 721	213 501	1 802 422	558 481	349 591	234 255	1 243 940	6 292	3	3

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
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.											
	San Francisco, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	36	905	36 643	147 730	121 038	80 916	40 154	26 692	3 559	2	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	5	203	(D)	39 519	30 880	23 237	8 041	8 639	314	6	6
1623	Water, sewer, and utility lines -----	23	514	19 693	78 549	65 041	37 323	27 834	(S)	(S)	3	3
1629	Heavy construction, n.e.c. -----	31	(D)	(D)	234 418	171 311	102 087	69 330	63 107	2 436	(D)	2
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	396	3 466	132 636	384 327	349 231	221 603	129 177	35 096	3 371	4	4
1721	Painting and paper hanging-----	342	1 866	43 723	116 295	111 203	81 032	30 249	5 092	(S)	6	5
1731	Electrical work -----	356	3 110	115 439	326 440	315 977	198 697	119 995	10 462	3 213	3	4
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	33	118	2 664	8 325	8 186	5 969	2 218	*138	156	28	27
1742	Plastering, drywall, and insulation work -----	139	1 381	48 707	128 264	121 352	82 153	39 714	6 912	(S)	7	5
1743	Terrazzo, tile, marble, and mosaic work -----	77	315	9 255	28 118	27 285	17 288	10 448	*833	161	15	16
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	938	23 961	88 060	76 238	48 524	28 613	11 822	(S)	9	8
1752	Floor laying and other floor work -----	109	596	15 910	61 539	56 088	26 838	30 006	5 452	(D)	11	10
1761	Roofing, siding, and sheet metal work -----	196	1 616	41 600	151 162	137 397	84 907	53 068	13 765	1 252	6	4
1771	Concrete work -----	99	712	18 844	55 529	50 517	29 906	21 114	5 013	656	10	9
1781	Water well drilling -----	(S)	(D)	1 519	3 840	(D)	2 455	1 307	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	(S)	164	5 672	16 556	(D)	11 191	5 047	(D)	182	12	(D)
1793	Glass and glazing work -----	63	285	9 118	30 580	30 001	17 043	14 495	579	631	16	13
1794	Excavation work -----	46	317	8 999	30 147	26 319	22 626	5 164	3 829	374	13	7
1795	Wrecking and demolition work -----	8	(D)	(D)	17 738	16 644	16 499	417	1 094	130	(D)	2
1796	Installing building equipment, n.e.c. -----	25	1 164	32 100	93 980	91 632	69 822	21 867	2 348	292	1	3
1799	Special trade contractors, n.e.c. -----	(S)	1 227	32 531	113 137	100 714	49 107	52 580	12 424	1 883	10	8
	San Jose, CA PMSA											
15,16,17	Construction industries -----	3 161	27 930	934 351	3 905 159	2 860 273	1 793 802	1 104 117	1 044 885	33 009	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	784	3 103	67 604	406 912	254 269	146 140	113 100	152 643	3 780	6	6
1522	Other residential buildings -----	(S)	163	6 105	41 987	23 325	12 956	10 733	18 662	75	9	6
1531	Operative builders -----	(S)	536	23 403	292 556	178 037	106 783	73 431	114 519	478	9	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	47	655	26 878	169 939	56 734	(S)	21 297	113 205	319	10	9
1542	Nonresidential buildings, n.e.c. -----	152	1 771	67 856	621 565	203 047	130 753	80 593	418 518	2 249	7	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	18	763	28 333	156 004	110 372	64 872	46 219	45 633	1 279	3	2
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 -----	45	519	18 995	66 442	61 011	33 065	28 742	5 431	1 543	11	9
1629	Heavy construction, n.e.c. -----	35	688	27 130	103 117	75 869	57 298	18 683	27 248	(D)	7	6

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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
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.											
	San Jose, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	316	4 066	175 140	516 176	480 428	316 973	165 221	35 748	5 052	3	2
1721	Painting and paper hanging-----	(S)	1 338	32 122	81 907	78 902	58 428	20 486	3 005	1 024	6	5
1731	Electrical work-----	303	3 765	146 231	456 020	432 008	259 378	173 905	24 012	5 313	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	97	399	9 004	29 159	28 346	17 849	10 512	814	363	10	12
1742	Plastering, drywall, and insulation work-----	167	2 354	69 919	172 095	162 276	112 710	49 987	9 820	1 764	3	3
1743	Terrazzo, tile, marble, and mosaic work-----	99	596	15 269	47 791	46 731	26 575	20 188	1 060	447	12	7
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	812	22 842	85 486	76 531	43 188	34 095	8 955	(S)	7	8
1752	Floor laying and other floor work-----	97	867	24 895	86 708	82 779	44 134	39 360	3 929	1 252	9	7
1761	Roofing, siding, and sheet metal work-----	135	1 397	37 910	127 327	118 446	72 806	50 872	8 881	1 003	5	4
1771	Concrete work-----	158	1 685	52 131	164 888	147 596	90 601	57 596	17 292	(S)	6	5
1781	Water well drilling-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	19	444	17 180	52 188	48 940	27 407	22 076	3 248	403	1	1
1793	Glass and glazing work-----	51	216	8 869	27 645	(D)	13 900	(D)	(D)	(D)	12	(D)
1794	Excavation work-----	(S)	289	12 132	47 494	(D)	35 558	7 623	(D)	(D)	12	(D)
1795	Wrecking and demolition work-----	*12	103	(D)	(D)	(D)	(D)	*1 204	(D)	(S)	38	(D)
1796	Installing building equipment, n.e.c.-----	13	123	6 244	(D)	(D)	11 235	2 950	(D)	23	(Z)	(D)
1799	Special trade contractors, n.e.c.-----	(S)	1 050	27 614	87 198	74 653	45 978	30 297	12 545	393	13	9
	Santa Cruz—Watsonville, CA PMSA											
15,16,17	Construction industries-----	864	3 638	82 819	380 062	288 820	165 875	128 350	91 242	5 547	3	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	317	829	14 237	88 917	64 718	35 823	30 460	24 199	510	11	10
1522	Other residential buildings-----	(S)	*150	(S)	(S)	(S)	*5 475	(S)	11 983	*23	40	(S)
1531	Operative builders-----	(S)	(S)	(S)	18 845	12 500	8 882	(S)	(S)	(S)	(S)	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	(D)	(D)	(S)	1 856	(D)	662	(S)	(D)	(D)	(Z)
1542	Nonresidential buildings, n.e.c.-----	27	216	6 322	53 396	18 236	11 604	6 659	35 160	98	12	13
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	5	176	6 748	26 759	(D)	12 584	(D)	(D)	676	7	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines-----	(S)	(S)	1 007	2 895	(D)	1 787	(S)	(D)	(D)	(S)	(D)
1629	Heavy construction, n.e.c.-----	10	37	1 278	5 754	3 967	2 686	1 281	*1 787	(D)	8	8
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	66	337	11 541	42 024	(D)	18 850	22 213	(D)	293	5	(D)
1721	Painting and paper hanging-----	61	162	2 517	8 387	8 000	5 645	2 355	387	*69	8	5
1731	Electrical work-----	71	359	8 964	27 424	27 134	15 219	12 449	290	230	8	9
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	(S)	(S)	(D)	(D)	(S)	(S)	(D)	(S)	(S)	(D)
1742	Plastering, drywall, and insulation work-----	35	205	3 157	9 953	9 204	5 276	3 928	749	*510	17	10
1743	Terrazzo, tile, marble, and mosaic work-----	25	74	1 302	4 333	(D)	2 428	1 735	(D)	(D)	11	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	(S)	5 093	12 186	11 878	6 235	(S)	308	*137	(S)	20
1752	Floor laying and other floor work-----	(S)	48	756	3 165	3 121	1 953	1 190	(S)	(D)	7	7
1761	Roofing, siding, and sheet metal work-----	(S)	(S)	3 901	13 852	13 320	7 969	5 379	(S)	(S)	(S)	13

CONSTRUCTION—GEOGRAPHIC AREA SERIES

CALIFORNIA CA—23

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
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.											
	Santa Cruz—Watsonville, CA PMSA—Con.											
15,16,17	Construction industries—Con.											
17	Special trade contractors—Con.											
1771	Concrete work -----	38	247	4 775	12 445	11 367	7 749	3 630	1 078	651	16	9
1781	Water well drilling -----	6	(D)	(D)	6 520	(D)	4 765	1 533	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
1793	Glass and glazing work -----	4	13	512	2 067	(D)	1 217	(D)	(D)	-	(Z)	(D)
1794	Excavation work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work -----	*2	*3	*162	*152	*132	*20	*10	-	-	57	71
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)	71	(S)	(S)	(S)	(S)	(S)	(S)	(S)	28	(S)
	Santa Rosa, CA PMSA											
15,16,17	Construction industries -----	1 707	9 102	241 046	1 143 887	881 009	529 602	369 143	262 879	10 563	3	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	518	1 465	28 367	195 588	129 835	83 128	53 435	65 753	1 104	7	17
1522	Other residential buildings -----	40	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1531	Operative builders -----	(S)	272	10 061	78 331	46 516	33 920	16 203	(S)	940	14	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	(S)	(D)	2 852	16 039	6 602	(D)	2 945	9 437	(D)	(D)	9
1542	Nonresidential buildings, n.e.c.-----	101	669	22 653	163 659	76 125	45 424	30 917	87 534	957	12	9
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction ----	(S)	367	13 389	48 571	36 789	20 941	17 188	11 782	527	11	10
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 -----	23	486	16 660	67 820	58 167	35 061	23 616	9 653	1 273	6	3
1629	Heavy construction, n.e.c. -----	43	(D)	(D)	98 393	85 263	53 227	32 043	13 130	(D)	(D)	4
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	122	648	20 792	66 129	(D)	36 874	25 987	(D)	472	6	(D)
1721	Painting and paper hanging-----	114	346	5 938	16 891	16 697	11 346	5 355	194	*447	10	11
1731	Electrical work -----	93	467	12 414	39 792	38 065	20 697	17 657	1 728	345	11	10
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	82	1 887	(D)	(D)	3 731	1 640	(S)	(S)	15	(D)
1742	Plastering, drywall, and insulation work -----	(S)	681	19 059	60 379	58 681	36 467	22 214	(S)	388	9	10
1743	Terrazzo, tile, marble, and mosaic work -----	47	313	8 307	22 677	22 462	13 568	9 065	214	(D)	13	10
175	Carpentry and floor work:											
1751	Carpentry -----	50	582	13 210	44 592	35 021	(S)	8 847	*9 572	(S)	10	11
1752	Floor laying and other floor work ---	(S)	131	2 552	11 540	10 556	5 108	5 534	984	(D)	12	7
1761	Roofing, siding, and sheet metal work -----	68	644	10 329	45 878	44 649	22 820	23 964	1 229	219	28	22
1771	Concrete work -----	96	475	10 212	38 683	35 959	21 337	14 721	2 724	1 215	14	11
1781	Water well drilling -----	10	84	3 058	8 732	8 634	(D)	2 983	98	77	10	16
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	*13	(D)	(D)	(D)	(D)	(D)	1 440	(S)	(D)	(D)	(D)
1793	Glass and glazing work -----	11	70	2 280	8 226	8 205	3 373	(D)	21	*44	10	13
1794	Excavation work -----	15	142	3 614	10 345	(D)	5 938	2 849	(D)	(D)	23	(D)
1795	Wrecking and demolition work -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
1796	Installing building equipment, n.e.c. -	*17	120	4 991	(D)	(D)	10 377	6 823	(S)	(D)	20	(D)
1799	Special trade contractors, n.e.c.-----	56	187	4 631	15 761	15 028	10 134	5 041	734	(D)	20	23

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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
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.											
	Vallejo—Fairfield—Napa, CA PMSA											
15,16,17	Construction industries	1 118	8 884	269 495	1 095 313	860 662	546 288	321 589	234 651	15 620	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S) 21	1 083	26 455	164 009	104 136	60 704	44 306	59 873	1 930	10	6
1522	Other residential buildings	21	*89	2 672	22 796	10 095	3 987	6 111	12 702	(D)	46	27
1531	Operative builders	*21	*58	*1 656	7 236	*4 554	3 079	*1 494	2 681	*224	42	40
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	*15	(S) 301	(D) 11 551	(S) 97 120	9 243	6 664	2 580	(S) 63 344	(D) 210	(S) 16	25
1542	Nonresidential buildings, n.e.c.	48				33 776	19 485	(S)				19
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	32	257	9 011	39 445	(D)	21 021	(D)	(D)	(S)	9	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*3	(D)	*1 650	(D)	(D)	(D)	*1 440	(S)	518	(D)	(D)
1623	Water, sewer, and utility lines	22	224	5 870	23 339	(D)	13 378	8 360	(D)	(D)	11	(D)
1629	Heavy construction, n.e.c.	38	1 693	66 651	245 700	203 827	152 252	55 152	41 873	5 877	4	3
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	105	872	25 716	94 199	89 055	55 272	34 448	5 144	1 265	11	12
1721	Painting and paper hanging	78	245	3 954	13 204	12 747	8 744	4 008	457	*146	17	15
1731	Electrical work	88	723	22 994	67 191	62 461	38 760	23 953	4 730	1 217	7	5
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	27	131	4 488	(D)	(D)	9 615	5 012	(D)	(S)	12	(D)
1742	Plastering, drywall, and insulation work	49	437	11 474	28 560	27 260	19 494	7 766	(S)	362	12	14
1743	Terrazzo, tile, marble, and mosaic work	10	98	3 087	8 412	(D)	3 576	4 817	(D)	(D)	6	(D)
175	Carpentry and floor work:											
1751	Carpentry	55	594	17 888	52 208	49 164	28 174	21 186	3 044	*154	11	6
1752	Floor laying and other floor work	(S) 174		5 612	30 546	25 826	9 764	16 092	4 719	*244	5	18
1761	Roofing, siding, and sheet metal work	54	363	7 570	32 454	29 762	17 122	12 645	2 692	509	15	12
1771	Concrete work	68	471	14 628	51 101	46 129	23 778	22 352	(S)	508	11	9
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*12	*251	6 776	(D)	(D)	(D)	(D)	(D)	(D)	42	(D)
1793	Glass and glazing work	8	38	824	4 829	(D)	1 849	2 974	(D)	(D)	(Z)	(D)
1794	Excavation work	14	102	2 473	10 785	9 320	7 282	2 112	1 465	(D)	18	10
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
1796	Installing building equipment, n.e.c.	5	(D)	(D)	4 349	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	62	479	11 657	31 024	29 372	20 740	8 769	1 652	(D)	9	7
	FRESNO, CA MSA											
15,16,17	Construction industries	1 791	14 208	349 051	1 755 587	1 268 290	770 122	516 721	487 297	18 374	2	3
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	1 316	21 781	151 898	109 999	65 451	45 448	41 898	(S)	10	11
1522	Other residential buildings	(S)	171	(S)	(S)	(S)	*7 634	(S)	(S)	(S)	39	(S)
1531	Operative builders	50	630	21 490	291 489	153 058	94 981	63 019	138 431	1 955	5	21
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	30	452	13 529	109 058	58 268	19 405	39 740	50 790	751	10	6
1542	Nonresidential buildings, n.e.c.	68	743	27 679	264 433	93 335	59 337	35 256	171 098	1 427	9	5

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
FRESNO, CA MSA—Con.												
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	27	475	15 011	77 154	66 138	38 098	28 668	11 016	1 831	9	8
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines -----	24	437	11 320	46 513	37 764	30 359	8 941	8 749	648	15	13
1629	Heavy construction, n.e.c. -----	50	630	(S)	67 576	57 200	(S)	23 465	(S)	1 387	8	6
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	184	1 693	44 670	149 264	142 907	81 745	62 509	6 356	1 800	5	5
1721	Painting and paper hanging-----	(S)	421	7 869	22 460	22 235	15 236	6 998	(S)	(S)	11	10
1731	Electrical work -----	125	934	24 520	85 931	81 868	47 048	35 831	4 063	297	8	10
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	353	10 354	30 724	29 952	19 320	10 687	772	(D)	9	5
1742	Plastering, drywall, and insulation work-----	123	1 919	44 714	135 299	129 677	88 754	41 042	5 621	684	6	10
1743	Terrazzo, tile, marble, and mosaic work -----	43	358	8 989	25 377	25 272	13 043	12 756	105	314	13	9
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	566	10 438	27 684	25 562	18 851	6 866	(S)	462	20	15
1752	Floor laying and other floor work-----	40	167	3 604	10 474	10 299	6 804	3 559	175	187	22	15
1761	Roofing, siding, and sheet metal work -----	(S)	601	11 156	51 423	47 768	25 516	22 399	3 655	1 239	9	10
1771	Concrete work -----	123	850	14 297	54 130	50 985	28 749	22 292	3 145	1 306	10	9
1781	Water well drilling -----	15	135	4 155	15 313	15 051	10 105	4 998	262	273	12	11
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	10	225	7 226	19 599	19 202	13 224	5 992	397	(D)	(Z)	(Z)
1793	Glass and glazing work-----	15	98	2 644	8 043	(D)	3 735	5 342	(D)	*4	21	(D)
1794	Excavation work-----	(S)	(S)	*3 249	*14 996	*9 106	6 326	*2 950	(S)	(D)	(S)	41
1795	Wrecking and demolition work-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	114	777	16 077	72 243	58 212	37 920	22 393	*14 031	1 037	10	13
SAN DIEGO, CA MSA												
15,16,17	Construction industries-----	5 403	44 236	1 186 333	5 408 127	3 724 569	2 197 678	1 599 659	1 683 559	62 305	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	867	3 611	77 479	440 020	273 751	155 573	127 291	166 269	3 967	5	5
1522	Other residential buildings-----	92	432	10 564	91 459	46 019	32 639	(S)	45 440	(S)	23	27
1531	Operative builders-----	125	1 220	37 150	331 695	172 170	104 956	77 574	159 526	1 017	3	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	801	24 050	(S)	(S)	38 189	(S)	(S)	(S)	15	(S)
1542	Nonresidential buildings, n.e.c.-----	351	4 598	155 250	1 333 010	437 589	260 437	188 797	895 421	4 718	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	93	1 419	56 742	221 852	174 865	109 557	70 339	46 988	2 950	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 -----	75	1 370	44 533	201 773	178 649	106 242	74 724	23 124	11 525	3	2
1629	Heavy construction, n.e.c. -----	(S)	910	33 790	191 053	128 192	61 718	68 116	62 861	7 946	6	6

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
	SAN DIEGO, CA MSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	576	4 745	150 254	503 167	456 711	265 120	194 903	46 455	5 594	3	3
1721	Painting and paper hanging-----	357	1 584	30 395	95 349	88 459	60 667	27 801	6 890	578	6	7
1731	Electrical work-----	514	4 393	130 907	443 123	412 706	230 059	184 849	30 417	6 395	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	163	789	15 804	52 953	51 734	32 940	20 021	*1 219	(D)	13	12
1742	Plastering, drywall, and insulation work-----	339	4 236	94 131	224 555	208 492	137 664	71 915	16 063	2 754	3	4
1743	Terrazzo, tile, marble, and mosaic work-----	140	699	15 386	42 772	42 286	27 522	15 094	(S)	(S)	12	10
175	Carpentry and floor work:											
1751	Carpentry-----	358	2 576	58 206	211 515	192 749	109 423	86 159	18 767	1 190	5	8
1752	Floor laying and other floor work---	154	979	17 315	62 590	57 990	35 219	23 620	4 600	327	8	7
1761	Roofing, siding, and sheet metal work-----	218	2 105	40 988	146 406	143 110	78 232	66 052	3 296	1 379	5	5
1771	Concrete work-----	279	2 257	57 370	202 634	167 653	96 948	71 582	34 980	(S)	6	5
1781	Water well drilling-----	11	(D)	(D)	(D)	(D)	(D)	(D)	142	(S)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	44	1 238	35 264	126 206	118 542	57 519	64 953	7 663	361	2	4
1793	Glass and glazing work-----	81	440	12 559	44 309	44 043	27 131	22 239	266	453	17	8
1794	Excavation work-----	90	624	13 805	54 507	50 018	32 927	17 391	4 489	551	17	12
1795	Wrecking and demolition work-----	*15	193	3 767	*19 419	(D)	9 118	3 539	(D)	(D)	18	(D)
1796	Installing building equipment, n.e.c.---	14	191	8 359	22 963	22 320	15 650	6 670	643	110	(Z)	(Z)
1799	Special trade contractors, n.e.c.---	291	2 717	58 279	179 781	160 563	103 557	61 456	19 218	3 038	6	5

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Hawaii

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Hawaii. 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 6,830 establishments in this State operating in the construction industries. These establishments accounted for \$5.1 billion in total dollar value of business done.

Most of the 6,830 construction establishments were small. Of the total, 4,349 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,185 construction establishments with 5 employees or more, while representing only 17 percent of all establishments, accounted for more than 91 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$5.0 billion in total dollar value of business done. Of this amount, \$4.8 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.3 billion, leaving net value of construction work of \$3.6 billion. In addition, these establishments paid out \$1.7 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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

and the cost of selected purchased services. Value added for 1992 was \$2.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 2,481 establishments with total employment averaging 32,394 during the year. Total payroll for 1992 was \$1.1 billion.

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

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



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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 4,349 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$137 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 

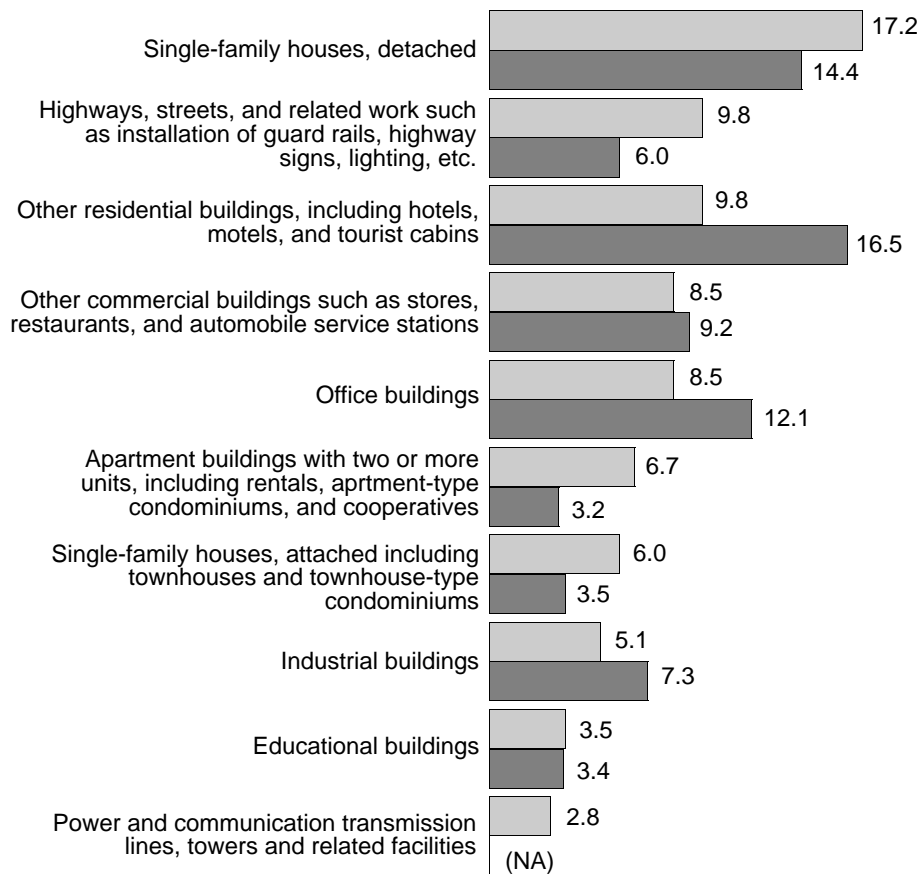




Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

1992 
1987 

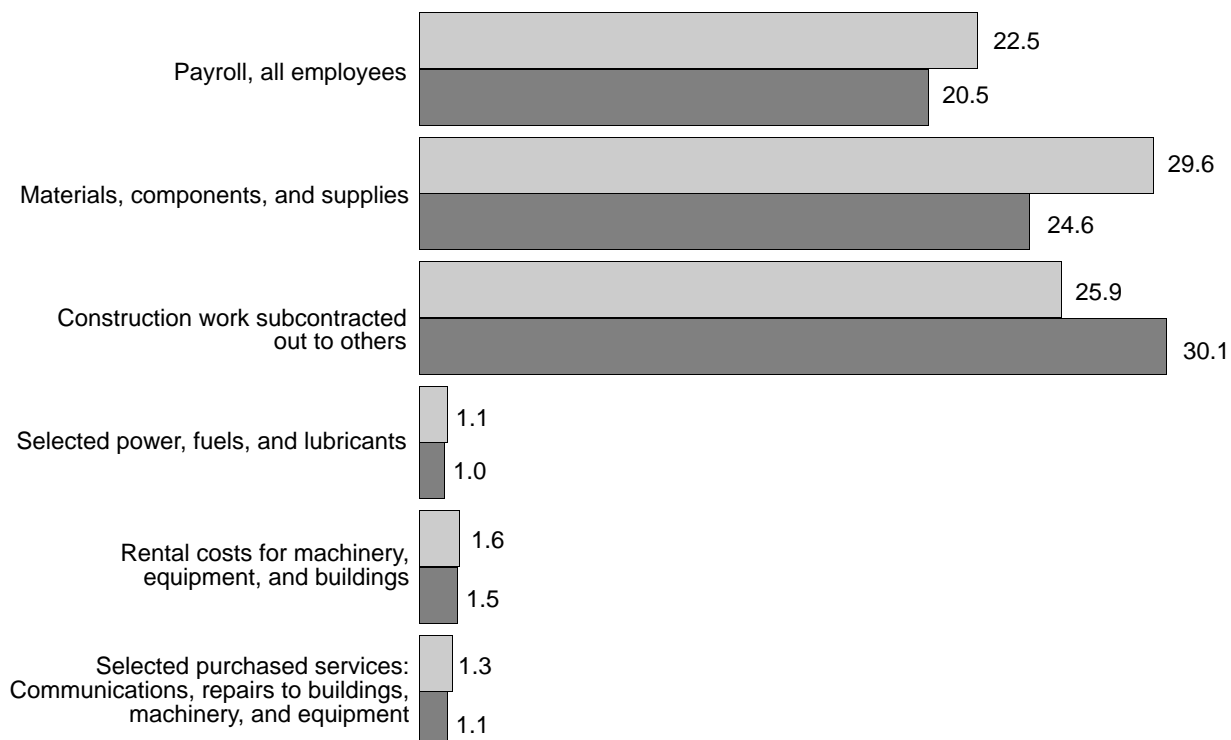


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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		
1992														
15, 16, 17	Construction industries -----	6 830	5 237	32 394	5 087 683	4 349	4 274	137 225	2 481	963	32 394	4 950 458	1	(Z)
15	Building construction—General contractors and operative builders ----	1 682	1 072	11 244	2 331 001	767	726	47 526	915	(S)	11 244	2 283 475	2	2
16	Heavy construction other than building construction—contractors -----	170	81	4 876	988 919	48	49	1 538	122	32	4 876	987 381	1	1
17	Special trade contractors -----	4 978	4 085	16 274	1 767 763	3 534	3 499	88 161	1 444	586	16 274	1 679 602	1	1
1711	Plumbing, heating, and air-conditioning --	526	365	2 716	347 362	275	276	9 667	251	89	2 716	337 695	3	3
1731	Electrical work -----	569	362	3 081	337 007	299	294	9 076	270	(S)	3 081	327 931	2	2
1987														
15, 16, 17	Construction industries ² -----	5 796	4 310	21 706	3 233 759	3 905	3 854	270 626	1 891	456	21 706	2 963 133	1	1
15	Building construction—General contractors and operative builders ----	1 346	828	(D)	(D)	726	686	62 889	620	142	(D)	(D)	(D)	(D)
16	Heavy construction other than building construction—contractors -----	136	44	2 745	402 471	27	28	2 157	109	16	2 745	400 314	2	1
17	Special trade contractors -----	4 123	3 275	(D)	(D)	3 008	2 979	124 235	1 115	296	(D)	(D)	(D)	(D)
1711	Plumbing, heating, and air-conditioning --	455	326	2 083	222 711	261	259	15 652	194	67	2 083	207 059	3	2
1731	Electrical work -----	483	321	1 949	215 809	262	255	14 481	221	66	1 949	201 328	4	3

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

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

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

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

SIC code	Industry	1992							
		Number of 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	2 481	32 394	24 651	1 112 471	780 394	4 833 246	3 551 632	2 148 283
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	564	3 311	2 460	91 147	63 175	502 353	336 294	205 806
1522	Other residential buildings	47	2 696	2 056	98 415	70 568	569 705	(D)	169 016
1531	Operative builders	54	707	485	25 723	16 304	208 746	134 931	59 158
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	32	819	581	33 294	20 374	165 414	94 682	61 989
1542	Nonresidential buildings, n.e.c.	218	3 711	2 669	140 808	90 944	813 594	432 075	218 345
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	43	3 112	2 452	139 030	96 974	647 353	487 203	286 912
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	23	565	460	23 127	15 848	91 978	73 091	51 684
1629	Heavy construction, n.e.c.	54	972	712	32 498	21 989	149 479	113 860	90 175
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	251	2 716	1 877	101 857	67 567	331 053	298 729	177 496
1721	Painting and paper hanging	162	1 539	1 273	47 034	36 631	112 046	103 754	76 558
1731	Electrical work	270	3 081	2 364	98 027	68 850	326 173	312 081	194 537
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	72	639	561	17 260	(D)	63 831	62 316	42 491
1742	Plastering, drywall, and insulation work	94	1 452	1 185	52 637	42 090	130 474	125 301	78 387
1743	Terrazzo, tile, marble, and mosaic work	40	341	280	11 138	7 902	35 545	34 296	21 800
175	Carpentry and floor work:								
1751	Carpentry	90	932	787	29 407	22 076	83 619	75 877	49 055
1752	Floor laying and other floor work	61	393	289	11 180	7 729	39 675	38 615	22 428
1761	Roofing, siding, and sheet metal work	133	1 259	946	33 392	24 139	129 677	121 008	74 433
1771	Concrete work	64	595	484	17 148	12 423	59 722	54 503	35 890
1781	Water well drilling	7	79	58	(D)	1 851	(D)	(D)	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	19	496	416	23 386	18 920	77 119	70 644	51 579
1793	Glass and glazing work	42	422	273	12 008	8 039	47 849	46 679	26 144
1794	Excavation work	22	269	222	9 761	7 386	42 619	36 198	24 115
1795	Wrecking and demolition work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	19	922	729	20 136	16 095	67 345	66 708	48 914
1799	Special trade contractors, n.e.c.	95	(D)	(D)	(D)	18 325	(D)	79 866	54 934

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
1 520 561	1 281 614	1 337 082	81 560	69 589	629 436	21 706	2 849 780	1 288 730	1	1	4	15, 16, 17 15
139 942 (D)	166 059 (D)	28 540 8 127	7 664 7 847	3 900 4 122	39 854 (D)	1 910 2 621	273 734 627 441	114 574 129 294	5 3	7 (D)	13 4	152 1522
79 390	73 815	321	1 313	1 414	10 557	(D)	(D)	8 556	3	3	(Z)	1531
(S) 220 346	70 733 381 519	*6 149 17 039	(S) 6 868	1 060 6 849	19 393 70 733	373 2 825	73 971 516 841	28 240 188 830	6 3	3 4	9 12	154 1541 1542
241 673	160 150	107 779	17 625	16 412	137 916	1 110	166 074	83 007	2	1	3	1611
(D) 22 477 47 041	(D) 18 887 35 620	— 16 995 (D)	(D) 1 252 4 195	— 1 621 7 607	(D) 33 314 55 517	— 626 1 009	— 76 797 119 633	— 40 167 64 891	(D) 3 6	(D) 2 7	— (Z) 22	162 1622 1623 1629
127 874	32 324	229 365	7 972	3 539	35 385	2 083	204 342	126 024	3	3	12	1711
27 272	8 292	63 721	1 967	937	14 917	1 295	83 159	65 566	5	3	16	1721
119 302	14 092	256 734	6 452	6 418	39 946	1 949	198 600	117 010	2	2	5	1731
19 902 48 336 12 763	1 516 5 173 (S)	60 305 119 420 30 496	755 (S) 177	1 003 1 390 400	8 281 12 639 2 174	581 797 311	40 626 60 598 27 363	28 160 42 422 17 024	8 5 10	9 4 7	20 7 28	174 1742 1743
28 159 16 563	7 742 1 060	51 824 26 016	697 469	469 *573	(S) 3 602	509 223	42 634 20 414	22 003 10 516	8 11	6 9	13 45	175 1751 1752
47 862 (D)	8 668 *5 219	56 199 43 440	4 152 1 075	1 487 2 013	11 646 13 223	997 192	78 178 15 599	50 739 8 476	7 9	5 9	20 35	1761 1771
6 919	767	1 821	(D)	(D)	8 346	(D)	(D)	(D)	(Z)	(D)	(D)	1781
(D) 22 508 12 316 (D) (D) 19 080 (D)	6 475 *1 170 6 421 (D) (D) 637 (D)	63 436 30 758 15 027 (D) (D) 22 324 42 405	1 162 1 199 1 311 (D) (D) 708 2 562	537 415 2 235 (D) (D) (S)	10 008 3 848 11 955 (D) (D) 4 042 13 992	458 236 158 26 331 639	46 755 22 510 29 426 2 636 35 064 43 621	35 178 13 149 *19 336 2 413 24 533 29 302	8 13 (Z) (Z) 4 (D)	6 14 (Z) (Z) 1 8	15 39 (Z) (D) (D) (S)	1791 1793 1794 1795 1796 1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

HAWAII HI-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	2 481	1 891	1 861	1 732	1	2	3	4
Proprietors and working partners.....	963	456	396	530	4	9	11	12
All employees**	32 394	21 706	18 665	20 792	1	1	1	2
Construction workers:								
March.....	24 533	16 319	14 789	15 808	1	2	2	2
May.....	24 179	16 637	14 317	16 516	1	1	2	2
August.....	24 911	17 091	12 977	16 798	1	1	2	2
November.....	24 983	16 281	12 915	13 955	1	1	2	3
Average.....	24 651	16 582	13 953	15 784	1	1	1	2
Other employees:								
March.....	7 835	4 861	4 711	5 032	1	2	2	4
May.....	7 611	5 151	(NA)	(NA)	1	2	(NA)	(NA)
August.....	7 715	5 283	(NA)	(NA)	1	2	(NA)	(NA)
November.....	7 810	5 202	(NA)	(NA)	2	2	(NA)	(NA)
Average.....	7 743	5 124	(NA)	(NA)	1	2	(NA)	(NA)
Payroll, all employees	1 112 471	606 858	409 679	323 402	1	1	1	2
Payroll, construction workers	780 394	435 959	297 885	240 359	1	1	1	2
Payroll, other employees	332 077	170 899	111 794	83 043	1	1	1	3
First-quarter payroll, all employees	260 464	135 520	101 744	78 382	1	1	1	2
Fringe benefits, all employees	406 556	185 337	93 091	101 245	1	1	1	1
Legally required expenditures.....	254 206	114 401	68 705	37 076	1	1	1	2
Voluntary expenditures.....	152 351	70 936	24 386	64 170	1	2	1	1
Dollar value of business done	4 950 458	2 963 133	1 853 343	1 435 157	(Z)	1	1	1
Value of construction work	4 833 246	2 849 780	1 785 660	1 329 495	1	1	1	1
Value of construction work subcontracted in from others	1 337 082	612 224	425 754	303 490	2	3	3	(Z)
Other business receipts	117 212	89 448	49 174	105 662	2	3	3	7
Net value of construction†	3 551 632	1 958 320	1 261 905	962 065	1	1	1	1
Value added††	2 148 283	1 288 730	855 164	636 173	1	1	1	2
Selected costs	2 802 175	1 650 498	979 670	744 283	1	2	1	1
Materials, components, and supplies	1 466 720	728 047	418 874	361 304	1	1	1	1
Construction work subcontracted out to others	1 281 614	891 460	523 754	367 430	1	2	1	2
Selected power, fuels, and lubricants.....	53 841	30 990	37 041	15 549	2	1	1	3
Electricity.....	11 109	4 629	16 193	2 881	5	3	1	5
Natural gas.....	1 319	1 170	275	436	6	2	7	13
Gasoline and diesel fuel	35 889	23 187	18 558	10 177	3	1	2	3
On highway use.....	24 983	17 354	(NA)	(NA)	3	1	(NA)	(NA)
Off highway use.....	10 905	5 832	(NA)	(NA)	4	2	(NA)	(NA)
Other, including lubricating oils and greases.....	5 525	2 003	2 013	2 055	1	5	3	7
Rental cost for machinery, equipment, and buildings	81 560	45 349	28 527	20 603	3	3	3	1
For machinery and equipment	45 543	25 169	17 135	13 861	4	3	4	1
For buildings.....	36 017	20 179	11 392	6 743	4	3	4	2
Selected purchased services	63 323	34 017	25 875	18 333	2	2	3	3
Communication services	15 544	7 431	5 072	3 855	5	4	6	4
Repairs to buildings and other structures	3 405	2 071	1 801	1 145	7	15	2	8
Repairs to machinery and equipment	44 374	24 514	19 001	13 333	2	2	3	3
Ownership of construction projects:								
Value of construction work	4 833 246	2 849 780	1 785 660	1 329 495	1	1	1	1
Government owned	1 517 610	816 362	499 385	439 607	1	2	2	1
Federal	253 196	295 159	(NA)	(NA)	3	4	(NA)	(NA)
State and local	1 264 414	521 203	(NA)	(NA)	1	2	(NA)	(NA)
Privately owned	3 315 636	2 033 417	1 286 274	889 888	2	2	1	2

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

Table 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	583 668	291 868	1	1
Capital expenditures, other than land	69 589	44 550	4	3
New	57 071	31 911	4	4
Used	12 519	12 638	5	3
Retirements and disposition of depreciable assets	23 822	37 214	9	2
End-of-year gross book value of depreciable assets	629 436	299 204	1	2
Depreciation charges during year	66 513	31 934	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	115 031	74 455	4	4
Capital expenditures, other than land	9 270	12 659	18	5
New buildings and other structures	8 606	9 100	19	7
Used buildings and other structures	664	3 559	29	4
Retirements and disposition of depreciable assets	840	4 440	24	14
End-of-year gross book value of depreciable assets	123 460	82 673	4	3
Depreciation charges during year	7 603	5 791	6	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	468 637	217 413	1	2
Capital expenditures, other than land	60 320	31 890	4	4
New machinery and equipment, including automobiles and trucks	48 465	22 810	4	5
New automobiles and trucks, intended primarily for highway use	13 639	10 834	6	7
Used machinery and equipment, including automobiles and trucks	11 855	9 079	5	4
Retirements and disposition of depreciable assets	22 982	32 774	9	1
End-of-year gross book value of depreciable assets	505 975	216 530	1	2
Depreciation charges during year	58 909	26 143	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	2 481	1
Value of construction work	4 833 246	1
Establishments with inventories:		
Number	993	4
Value of construction work	2 163 140	1
Inventories¹:		
End of 1992, materials and supplies	44 688	4
End of 1991, materials and supplies	40 042	6
Establishments with no inventories:		
Number	766	5
Value of construction work	2 146 035	1
Establishments not reporting:		
Number	723	4
Value of construction work	524 071	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	2 481	1 296	528	340	216	53	35	9	2	2
All employees**	32 394	2 665	3 489	4 494	6 253	3 591	5 030	2 860	4 013	(D)
Payroll, all employees	1 112 471	54 294	88 858	144 813	233 113	140 934	199 784	96 292	154 382	(D)
Dollar value of business done	4 950 458	318 203	379 577	629 458	816 485	541 102	851 992	456 155	957 486	(D)
Value of construction work	4 833 246	315 614	370 445	620 351	790 577	531 728	794 848	454 296	955 386	(D)
Net value of construction work†	3 551 632	241 616	288 169	481 977	658 507	393 788	606 965	329 973	550 638	(D)
Value added††	2 148 283	147 400	185 537	295 621	456 773	275 888	378 965	186 099	221 999	(D)
Cost of materials, components, supplies, and fuels	1 520 561	96 804	111 764	195 462	227 641	127 274	285 144	145 733	330 739	(D)
Cost of construction work subcontracted out to others	1 281 614	73 999	82 276	138 375	132 071	137 940	187 883	124 323	404 748	(D)
Rental cost for machinery, equipment, and buildings	81 560	4 293	7 240	14 872	15 491	9 838	9 692	20 134	(D)	(D)
Capital expenditures, other than land	69 589	4 648	5 363	13 442	12 994	5 399	15 122	7 501	5 320	(D)
End-of-year gross book value of depreciable assets	629 436	33 511	34 859	81 526	120 889	81 213	166 315	43 624	67 498	(D)
1987										
All employees**	21 706	2 102	2 527	3 098	5 069	3 109	3 159	2 639	(D)	(D)
Value of construction work	2 849 780	239 493	246 876	293 530	614 757	416 506	1 038 616	(D)	(D)	(D)
Value added††	1 288 730	128 108	121 071	163 523	319 449	442 116	(D)	114 461	(D)	(D)
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	7	8	5	3	(Z)	(Z)	(Z)	(Z)	(D)
Net value of construction work†	1	8	8	6	1	(Z)	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	4	17	18	17	4	(Z)	(Z)	(Z)	(Z)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	2 481	(S)	(S)	214	(S)	474	398	341	150	91	75
All employees**	32 394	(S)	(S)	376	(S)	2 154	2 727	4 787	3 751	4 232	12 761
Payroll, all employees	1 112 471	(S)	(S)	4 790	(S)	45 584	71 408	147 777	139 027	156 154	522 502
Dollar value of business done	4 950 458	(S)	(S)	15 188	(S)	168 888	285 272	531 532	530 469	620 003	2 698 919
Value of construction work	4 833 246	(S)	(S)	14 781	(S)	167 730	279 828	517 829	518 934	603 896	2 630 983
Net value of construction work†	3 551 632	(S)	(S)	13 145	(S)	141 832	228 795	435 549	409 393	502 630	1 734 360
Value added††	2 148 283	(S)	(S)	8 241	(S)	85 290	141 954	282 146	274 249	334 517	967 474
Cost of materials, components, supplies, and fuels	1 520 561	(S)	(S)	5 311	(S)	57 700	92 284	167 106	146 681	184 220	834 822
Cost of construction work subcontracted out to others	1 281 614	(S)	(S)	(S)	(S)	25 898	51 033	82 280	109 540	101 266	896 623
Rental cost for machinery, equipment, and buildings	81 560	(S)	(S)	*462	(S)	3 783	7 004	12 193	9 747	8 965	37 407
Capital expenditures, other than land	69 589	(S)	(S)	*513	(S)	3 431	4 320	10 619	9 658	8 028	31 612
End-of-year gross book value of depreciable assets	629 436	(S)	(S)	2 110	(S)	20 226	30 308	72 486	79 442	76 725	333 419
1987											
All employees**	21 706	(S)	(S)	(S)	1 572	1 552	2 201	3 219	3 331	2 376	7 046
Value of construction work	2 849 780	(S)	(S)	(S)	89 649	113 118	175 604	299 807	433 195	323 868	1 395 878
Value added††	1 288 730	(S)	(S)	(S)	53 912	64 457	97 612	173 039	237 105	164 444	486 429
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	22	(S)	11	8	5	2	1	(Z)
Net value of construction work†	1	(S)	(S)	15	(S)	10	9	6	3	5	(Z)
Capital expenditures, other than land	4	(S)	(S)	59	(S)	22	16	23	1	(Z)	(Z)

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

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

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

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1992								
Value of construction work	4 833 246	3 265 251	951 695	426 272	1	1	2	4
Building construction	3 489 732	2 452 858	723 478	313 396	1	1	2	5
Single-family houses	1 119 883	844 785	187 963	87 135	3	3	7	9
Single-family houses, detached	830 676	602 436	161 423	66 816	4	5	8	10
Single-family houses, attached, including townhouses and townhouse-type condominiums	289 207	242 349	26 539	20 318	4	4	14	13
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	322 413	242 889	43 248	36 276	2	2	7	8
Other residential buildings, including hotels, motels, and tourist cabins	471 865	384 813	45 914	41 139	2	2	9	3
Office buildings	408 639	285 768	86 123	36 748	2	2	6	10
Other commercial buildings such as stores, restaurants, and automobile service stations	410 703	207 507	137 691	65 505	4	3	5	15
Industrial buildings and warehouses	331 394	232 261	82 590	16 543	1	1	3	7
Industrial buildings	244 266	168 827	64 861	10 578	1	1	3	7
Warehouses	87 128	63 433	17 730	5 965	3	4	7	7
Educational buildings	169 714	89 787	64 689	15 238	3	2	8	7
Hospitals and institutional buildings	108 427	51 085	50 085	7 256	7	6	10	9
Amusement, social, and recreational buildings, indoors	100 111	87 604	10 406	2 101	3	2	22	9
Other nonresidential buildings	46 583	26 360	14 769	5 454	5	7	6	21
Nonbuilding construction	1 153 486	812 392	228 217	112 876	1	1	2	4
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	474 882	311 713	114 085	49 084	1	1	(Z)	8
Airport runways and related work	29 044	20 319	4 701	4 025	(Z)	(Z)	(Z)	(Z)
Private driveways and parking areas	68 104	(D)	(D)	(D)	10	(D)	(D)	(D)
Bridges, tunnels, and elevated highways	108 505	105 115	(D)	(D)	2	2	(D)	(D)
Conservation and development construction	36 686	(D)	(D)	6 833	21	(D)	(D)	21
Power and communication transmission lines, towers, and related facilities	134 580	114 424	10 343	(S)	1	(Z)	10	(S)
Sewers, water mains, and related facilities	96 866	64 789	13 867	18 209	3	4	2	1
Sewers, sewer lines, septic systems, and related facilities	56 565	30 713	12 071	13 780	4	8	2	1
Water mains and related facilities	40 301	34 076	1 796	4 429	3	3	1	1
Sewage treatment and water treatment plants	49 608	39 819	5 974	3 815	(Z)	(Z)	(Z)	(Z)
Other nonbuilding construction	155 211	127 527	(D)	(D)	2	2	(D)	(D)
Construction work, n.s.k.	190 028	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1987								
Value of construction work	2 849 780	1 884 614	619 874	244 023	1	2	2	2
Building construction	2 240 459	1 518 901	516 723	184 617	2	2	3	3
Single-family houses	511 574	386 183	83 677	41 713	5	7	6	8
Single-family houses, detached	411 668	307 567	72 439	31 661	6	8	7	9
Single-family houses, attached, including townhouses and townhouse-type condominiums	99 906	78 616	11 238	10 052	12	15	15	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	92 184	60 131	12 124	19 928	3	2	6	13
Other residential buildings, including hotels, motels, and tourist cabins	470 519	341 787	102 463	26 268	1	1	1	4
Office buildings	345 845	236 993	81 914	26 937	3	3	6	4
Other commercial buildings such as stores, restaurants, and automobile service stations	262 850	139 360	99 158	24 330	3	5	6	9
Industrial buildings and warehouses	261 403	202 957	44 087	14 358	3	3	9	6
Industrial buildings	208 418	159 894	37 526	10 998	3	3	10	7
Warehouses	52 985	43 063	6 561	3 360	7	8	9	9
Educational buildings	96 189	54 072	22 501	19 595	3	4	3	10
Hospitals and institutional buildings	106 707	50 174	48 236	8 295	3	4	3	15
Amusement, social, and recreational buildings, indoors	22 720	15 714	3 524	3 481	2	2	11	6
Other nonresidential buildings	70 488	46 742	19 770	3 986	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	508 054	350 500	102 420	55 132	1	1	2	5
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	171 276	123 837	29 317	18 122	1	1	2	3
Bridges, tunnels, and elevated highways	9 430	8 637	*440	352	10	6	68	37
Sewers, water mains, and related facilities	81 043	62 416	13 314	5 312	3	1	17	9
Sewers, sewer lines, septic systems, and related facilities	40 368	29 595	7 583	3 189	4	2	18	15
Water mains and related facilities	40 675	32 821	5 731	2 123	2	1	15	1
Sewage treatment and water treatment plants	22 834	20 185	*1 046	1 603	3	(Z)	44	21
Other nonbuilding construction	223 471	135 425	58 303	29 743	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	101 266	(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 -----	2 481	24 651	24 533	24 179	24 911	24 983	1	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	564	2 460	2 322	2 405	2 452	2 661	6	5	6	6	6	8	
1522	Other residential buildings -----	47	2 056	2 161	2 053	2 003	2 008	24	3	1	2	4	7	
1531	Operative builders -----	54	485	381	443	561	555	20	4	3	2	4	3	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	32	581	584	646	546	550	14	7	6	9	7	12	
1542	Nonresidential buildings, n.e.c. ---	218	2 669	2 476	2 429	2 746	3 026	11	3	3	3	3	6	
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	43	2 452	2 528	2 478	2 462	2 341	19	1	1	1	3	1	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	2	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)	
1623	Water, sewer, and utility lines ----	23	460	428	460	476	478	11	2	2	2	2	1	
1629	Heavy construction, n.e.c. -----	54	712	697	765	697	690	14	6	6	5	5	7	
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	251	1 877	1 872	1 893	1 842	1 902	4	3	3	3	4	4	
1721	Painting and paper hanging -----	162	1 273	1 229	1 246	1 407	1 210	4	5	6	6	6	5	
1731	Electrical work -----	270	2 364	2 463	2 297	2 400	2 296	4	2	3	3	3	2	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	72	561	582	518	564	578	11	8	8	10	10	11	
1742	Plastering, drywall, and insulation work -----	94	1 185	1 229	1 149	1 163	1 200	9	6	5	5	6	5	
1743	Terrazzo, tile, marble, and mosaic work -----	40	280	251	300	311	256	21	9	8	9	8	9	
175	Carpentry and floor work:													
1751	Carpentry -----	90	787	702	808	914	723	11	9	11	10	9	8	
1752	Floor laying and other floor work --	61	289	302	280	281	292	8	12	12	12	11	12	
1761	Roofing, siding, and sheet metal work -----	133	946	981	861	916	1 027	7	7	10	8	8	9	
1771	Concrete work -----	64	484	467	482	475	511	17	9	9	9	10	10	
1781	Water well drilling -----	7	58	55	64	60	51	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	19	416	468	384	405	406	10	9	8	9	9	9	
1793	Glass and glazing work -----	42	273	312	258	255	267	15	11	10	13	13	13	
1794	Excavation work -----	22	222	235	239	204	210	4	(Z)	(Z)	(Z)	(Z)	(Z)	
1795	Wrecking and demolition work -----	3	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)	(D)	(D)	(D)	
1796	Installing building equipment, n.e.c. -----	19	729	790	644	711	772	9	4	4	5	5	4	
1799	Special trade contractors, n.e.c. ---	95	(D)	(D)	(D)	(D)	(D)	16	(D)	(D)	(D)	(D)	(D)	

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 -----	13.1	34.3	196.1	.230	.315	.265	.277	.017
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	5.9	27.5	204.2	.181	.279	.331	.057	.015
1522	Other residential buildings -----	57.0	36.5	277.1	.173	(D)	(D)	.014	.014
1531	Operative builders -----	13.2	36.4	430.4	.123	.380	.354	.002	.006
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	25.7	40.7	284.7	.201	(S)	.428	*.037	(S)
1542	Nonresidential buildings, n.e.c. -----	17.1	37.9	304.8	.173	.271	.469	.021	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	71.6	44.7	264.0	.215	.373	.247	.166	.027
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	24.3	40.9	200.0	.251	.244	.205	.185	.014
1629	Heavy construction, n.e.c. -----	18.1	33.4	209.9	.217	.315	.238	(D)	.028
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	10.8	37.5	176.4	.308	.386	.098	.693	.024
1721	Painting and paper hanging -----	9.5	30.6	88.0	.420	.243	.074	.569	.018
1731	Electrical work -----	11.4	31.8	138.0	.301	.366	.043	.787	.020
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	8.9	27.0	113.8	.270	.312	.024	.945	.012
1742	Plastering, drywall, and insulation work -----	15.4	36.3	110.1	.403	.370	.040	.915	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	8.6	32.7	126.9	.313	.359	(S)	.858	.005
175	Carpentry and floor work:								
1751	Carpentry -----	10.4	31.6	106.3	.352	.337	.093	.620	.008
1752	Floor laying and other floor work -----	6.5	28.4	137.3	.282	.417	.027	.656	.012
1761	Roofing, siding, and sheet metal work -----	9.4	26.5	137.1	.257	.369	.067	.433	.032
1771	Concrete work -----	9.3	28.8	123.4	.287	(D)	.087	.727	.018
1781	Water well drilling -----	11.3	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	25.6	47.1	185.4	.303	(D)	.084	.823	.015
1793	Glass and glazing work -----	10.0	28.5	175.3	.251	.470	*.024	.643	.025
1794	Excavation work -----	12.5	36.3	192.0	.229	.289	.151	.353	.031
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	48.5	21.8	92.4	.299	.283	.009	.331	.011
1799	Special trade contractors, n.e.c. -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡†	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
HONOLULU, HI MSA												
15,16,17	Construction industries	1 545	25 559	912 346	3 903 203	2 842 568	1 722 723	1 199 077	1 060 635	50 195	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	316	2 086	54 351	282 000	189 947	128 952	68 196	92 053	1 790	6	7
1522	Other residential buildings	29	2 472	92 870	(D)	(D)	160 961	(D)	(D)	(D)	2	(D)
1531	Operative builders	(S)	(D)	(D)	94 006	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	21	732	29 571	155 581	86 558	57 169	(S)	69 023	719	5	2
1542	Nonresidential buildings, n.e.c.	154	3 178	125 293	721 944	379 386	186 211	198 641	342 559	5 014	3	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	32	2 730	124 300	586 134	443 796	254 663	227 745	142 338	13 729	2	1
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	12	319	14 743	64 123	48 072	35 330	12 813	16 051	946	6	3
1629	Heavy construction, n.e.c.	22	423	14 046	55 568	40 258	29 164	13 927	15 310	2 305	8	8
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	141	2 142	85 260	268 591	241 378	146 284	101 474	27 213	3 001	3	3
1721	Painting and paper hanging	106	1 217	37 854	90 964	83 274	60 981	22 327	7 690	694	6	3
1731	Electrical work	179	2 367	79 288	262 881	250 362	156 018	95 726	12 519	5 536	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	52	563	15 556	54 682	53 254	35 500	17 831	1 428	931	9	10
1742	Plastering, drywall, and insulation work	(S)	1 248	48 050	115 620	111 409	69 775	43 000	(S)	1 088	6	4
1743	Terrazzo, tile, marble, and mosaic work	21	201	(D)	(D)	(D)	(D)	7 592	208	146	9	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	732	24 523	68 783	62 460	40 185	23 582	6 323	(D)	9	6
1752	Floor laying and other floor work ...	42	312	9 513	33 782	32 902	18 536	14 570	880	*563	9	7
1761	Roofing, siding, and sheet metal work	96	1 009	28 230	102 551	97 695	61 364	36 617	4 856	865	6	5
1771	Concrete work	35	420	12 919	40 107	38 652	26 080	12 768	1 454	644	8	8
1781	Water well drilling	3	72	2 815	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	16	440	21 507	72 262	66 621	47 745	22 435	5 641	(D)	8	7
1793	Glass and glazing work	24	317	9 106	38 058	(D)	19 983	17 210	(D)	*337	17	(D)
1794	Excavation work	15	194	7 234	33 571	(D)	18 531	10 346	(D)	(D)	(Z)	(D)
1795	Wrecking and demolition work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ...	16	(D)	20 032	67 131	(D)	48 765	19 020	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	60	902	24 566	73 117	67 640	45 146	25 631	5 477	(D)	11	9

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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 Oregon. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

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

During 1992, there were 25,996 establishments in this State operating in the construction industries. These establishments accounted for \$7.0 billion in total dollar value of business done.

Most of the 25,996 construction establishments were small. Of the total, 17,365 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,807 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 72 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$6.3 billion in total dollar value of business done. Of this amount, \$6.1 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.6 billion, leaving net value of construction work of \$4.5 billion. In addition, these establishments paid out \$2.2 billion for the cost of materials, fuels, power, rental of equipment and buildings,

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

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

There were 8,631 establishments with total employment averaging 53,212 during the year. Total payroll for 1992 was \$1.4 billion.

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

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 17,365 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 72 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)

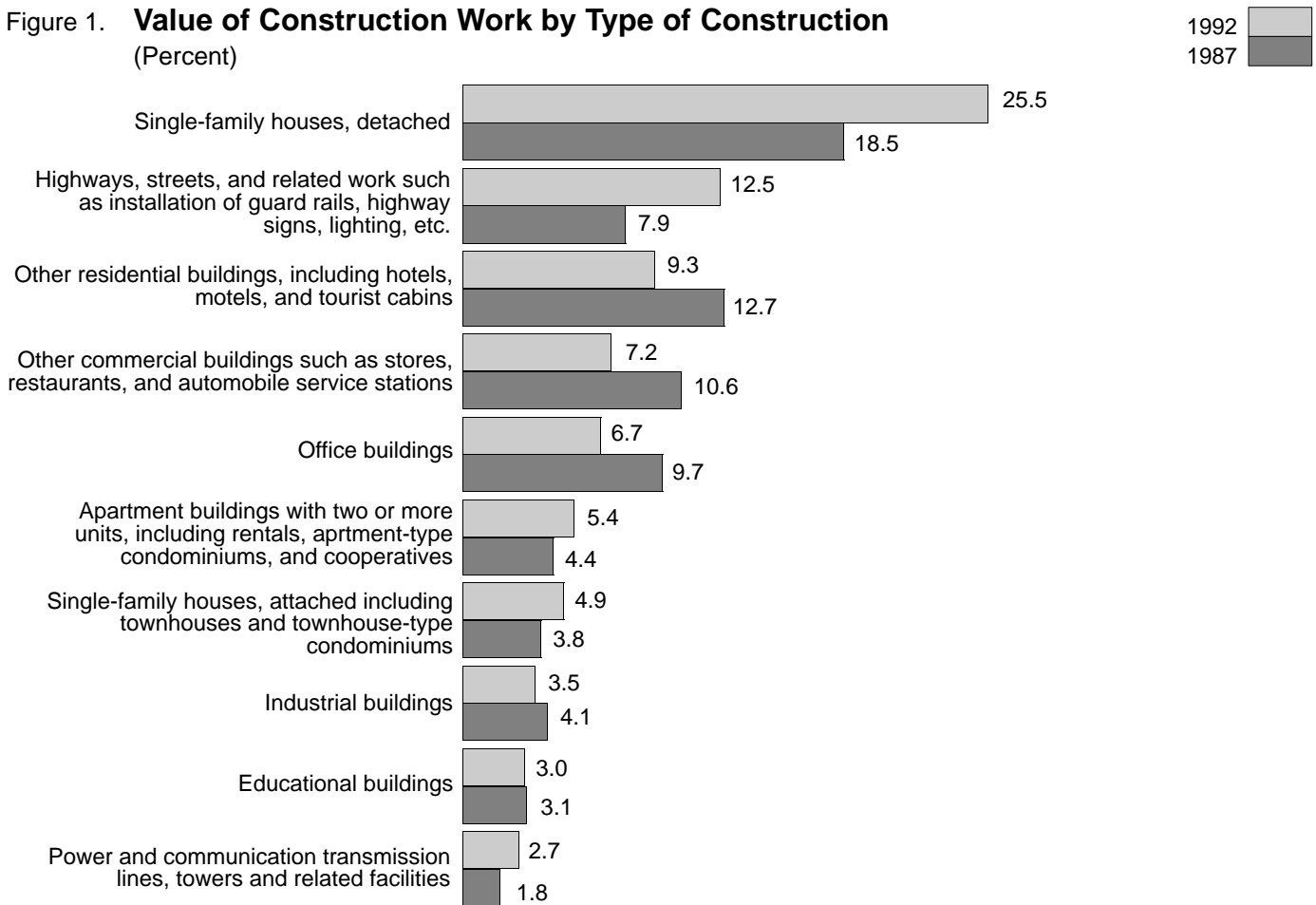


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

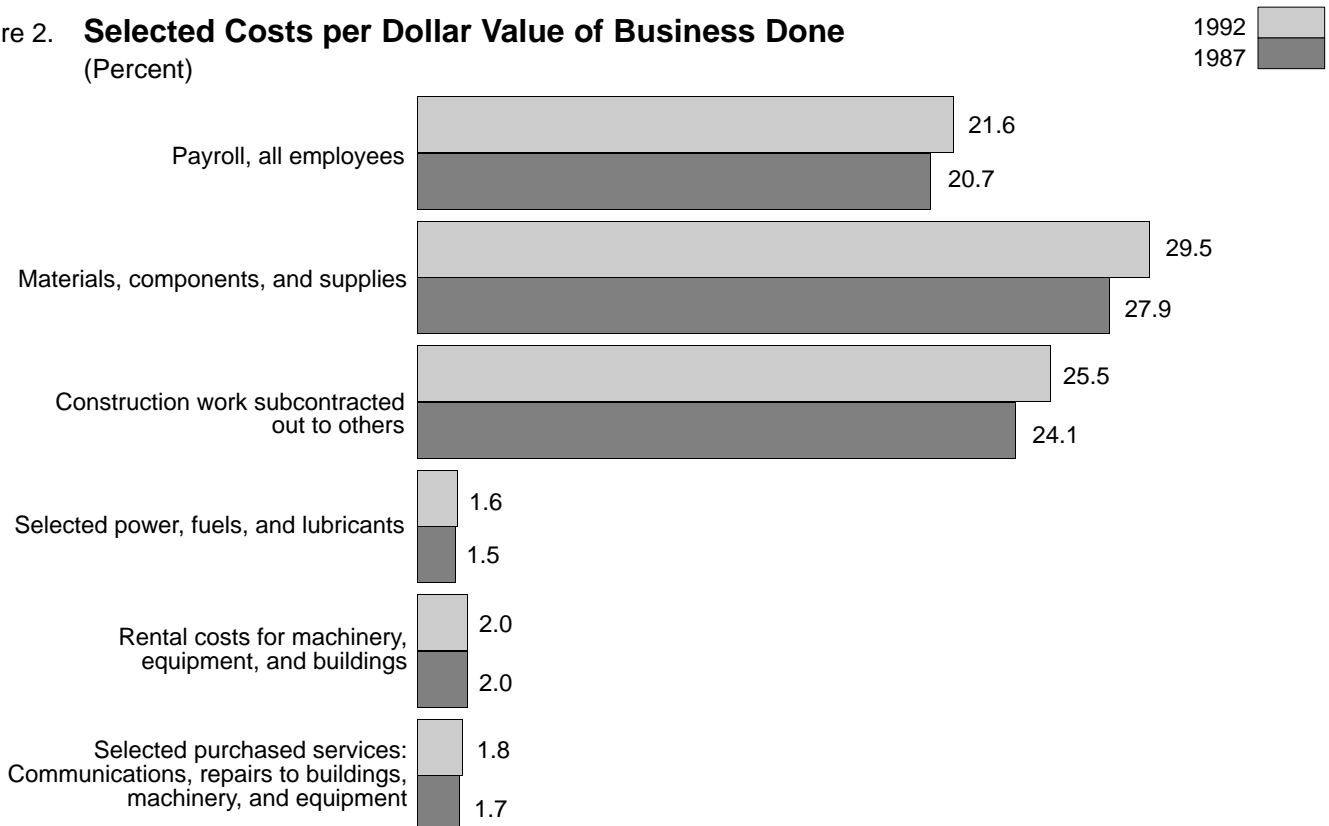


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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		
1992														
15, 16, 17	Construction industries -----	25 996	19 929	53 212	6 988 085	17 365	16 805	707 764	8 631	3 124	53 212	6 280 321	1	1
15	Building construction—General contractors and operative builders ----	7 395	5 167	13 678	2 955 627	4 553	4 238	345 831	2 842	929	13 678	2 609 796	3	3
16	Heavy construction other than building construction—contractors -----	957	417	7 710	1 038 073	293	266	11 763	664	(S)	7 710	1 026 310	2	2
17	Special trade contractors -----	17 643	14 345	31 824	2 994 385	12 519	12 301	350 170	5 124	2 044	31 824	2 644 215	1	1
1711	Plumbing, heating, and air-conditioning --	1 398	857	7 071	732 375	596	575	26 308	802	282	7 071	706 067	3	2
1731	Electrical work -----	1 135	642	5 672	542 643	498	478	15 921	637	164	5 672	526 722	2	2
1987														
15, 16, 17	Construction industries ² -----	21 898	16 901	38 504	4 564 219	15 429	15 285	764 384	6 469	1 616	38 504	3 799 835	1	1
15	Building construction—General contractors and operative builders ----	6 274	4 480	9 189	1 702 532	4 284	4 082	293 914	1 990	398	9 189	1 408 618	4	3
16	Heavy construction other than building construction—contractors -----	869	449	5 625	753 989	338	332	55 581	531	117	5 625	698 408	3	3
17	Special trade contractors -----	14 327	11 612	23 471	1 973 811	10 473	10 541	327 371	3 854	1 071	23 471	1 646 440	2	2
1711	Plumbing, heating, and air-conditioning --	1 233	799	4 632	413 885	601	604	31 059	632	195	4 632	382 826	3	3
1731	Electrical work -----	1 108	718	4 214	336 013	594	594	20 640	514	124	4 214	315 373	5	3

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

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

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

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

SIC code	Industry	1992							
		Number of establishments	Employees**		Payroll		Value of construction work	Net value of construction work†	Value added††
			All	Construction workers	All employees	Construction workers			
			A	B	C	D			
15, 16, 17	Construction industries¹	8 631	53 212	40 854	1 354 875	982 628	6 141 153	4 538 490	2 720 742
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	1 868	6 295	4 492	113 140	76 786	737 044	495 776	266 354
1522	Other residential buildings	148	947	726	24 080	17 207	117 189	64 013	38 951
1531	Operative builders	312	890	459	21 922	9 457	330 511	209 530	110 618
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	109	1 377	976	45 515	24 980	430 672	170 020	118 621
1542	Nonresidential buildings, n.e.c.	406	4 170	3 003	126 078	79 629	927 207	376 048	208 972
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	244	2 652	2 167	74 389	56 539	342 873	281 363	158 185
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	7	253	203	9 502	7 118	57 545	38 059	22 909
1623	Water, sewer, and utility lines	174	2 547	2 101	78 770	61 708	280 493	248 435	177 293
1629	Heavy construction, n.e.c.	239	2 258	1 792	68 042	49 537	317 253	254 119	168 497
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	802	7 071	5 266	208 954	153 494	697 771	617 747	343 211
1721	Painting and paper hanging	480	2 029	1 684	35 097	28 204	94 838	92 175	63 081
1731	Electrical work	637	5 672	4 290	184 213	140 178	521 016	504 625	316 274
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	248	1 161	994	25 511	20 500	76 120	73 418	41 462
1742	Plastering, drywall, and insulation work	349	2 772	2 314	64 249	51 312	179 089	166 502	111 101
1743	Terrazzo, tile, marble, and mosaic work	85	253	205	5 127	4 232	18 128	17 935	10 009
175	Carpentry and floor work:								
1751	Carpentry	583	2 104	1 694	39 427	30 365	175 053	148 259	86 472
1752	Floor laying and other floor work	181	670	502	12 999	8 797	56 026	52 029	26 628
1761	Roofing, siding, and sheet metal work	429	2 776	2 158	56 259	38 569	230 457	215 278	120 731
1771	Concrete work	361	2 103	1 699	50 462	38 491	168 068	156 900	97 215
1781	Water well drilling	59	259	207	4 605	3 418	18 376	17 771	9 220
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	62	651	565	13 944	10 988	56 236	46 678	27 842
1793	Glass and glazing work	64	394	238	10 089	5 916	39 906	(D)	(D)
1794	Excavation work	261	1 083	864	23 922	18 969	94 319	87 174	60 924
1795	Wrecking and demolition work	12	118	96	1 833	1 429	7 803	7 506	5 824
1796	Installing building equipment, n.e.c.	81	769	599	20 449	15 984	50 449	47 912	37 294
1799	Special trade contractors, n.e.c.	428	1 940	1 558	36 299	28 819	116 711	(D)	(D)

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

1992—Con.						1987			Relative standard error of estimate (percent) for column—			SIC code
Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted out to others	Value of construction work sub-contracted in from others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Value of construction work	Value added††				
I	J	K	L	M	N	O	P	Q	B	G	M	
1 956 915	1 602 663	1 843 564	125 228	101 984	777 533	38 504	3 675 649	1 739 743	1	1	6	15, 16, 17
250 109	241 267	38 693	8 665	8 540	47 275	3 673	329 129	128 055	5	5	15	152
29 224	53 175	(S)	442	*1 400	5 789	837	96 020	22 586	25	13	50	1521
113 827	120 981	351	427	1 434	17 570	397	126 024	38 836	11	17	30	1531
68 217	260 653	2 495	4 764	1 010	13 083	1 068	129 056	50 410	9	6	19	154
177 668	551 159	22 560	13 519	8 176	48 295	3 214	683 032	165 370	5	4	33	1542
												16
140 286	61 510	73 161	15 652	9 074	102 421	2 775	352 965	199 976	4	3	14	1611
(D)	19 486	2 250	3 400	1 576	5 830	421	55 915	22 370	(Z)	(Z)	12	162
72 556	32 057	63 239	16 778	12 368	88 879	1 458	126 868	64 772	4	4	13	1622
94 751	63 134	60 255	12 926	11 029	93 752	971	136 822	67 295	5	4	23	1623
												17
282 831	80 024	423 752	10 674	8 724	57 258	4 632	377 566	199 510	3	2	13	1711
29 310	2 663	62 143	2 273	2 364	15 454	1 620	71 186	53 067	7	6	24	1721
194 057	16 391	305 011	7 559	8 656	63 504	4 214	301 654	184 236	2	2	6	1731
32 125	2 702	57 226	1 474	761	8 751	663	40 335	25 279	7	6	31	174
58 957	12 587	144 250	2 756	1 965	13 456	2 032	102 970	64 388	5	5	31	1742
7 939	*193	16 962	*559	*569	2 203	(S)	(S)	(S)	14	20	58	1743
64 296	26 794	101 225	2 077	*6 256	*21 878	1 206	59 322	35 517	8	8	67	175
26 329	3 997	40 178	528	*916	6 691	594	53 709	26 435	10	9	57	1752
98 075	15 179	121 887	4 472	2 849	23 748	2 700	153 110	85 817	6	6	20	1761
(D)	11 168	121 361	4 166	4 313	51 604	1 508	86 577	54 399	7	6	15	1771
8 853	605	3 247	250	1 060	8 720	169	12 179	7 236	20	14	36	1781
19 659	*9 559	33 846	1 614	(S)	6 570	524	55 572	28 528	19	15	(S)	179
24 543	(D)	29 029	1 373	202	3 628	425	52 964	24 615	13	(D)	25	1791
28 093	7 145	51 462	3 896	4 409	46 736	672	61 790	45 261	9	8	21	1793
1 760	297	1 831	(S)	173	1 176	89	7 116	5 301	19	16	(Z)	1794
10 617	2 537	9 498	1 367	432	*6 756	829	62 380	44 394	9	5	1	1795
36 758	(D)	45 761	2 945	*2 811	16 509	1 270	79 769	49 720	9	(D)	47	1796

CONSTRUCTION—GEOGRAPHIC AREA SERIES

OREGON OR—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	8 631	6 469	6 075	7 273	1	1	2	3
Proprietors and working partners.....	3 124	1 616	2 172	4 624	3	6	5	5
All employees**	53 212	38 504	35 551	45 475	1	1	2	1
Construction workers:								
March.....	39 645	26 436	25 272	32 901	1	2	2	2
May.....	40 468	29 130	28 292	39 006	1	2	2	2
August.....	44 207	32 739	30 568	41 426	1	2	2	2
November.....	39 096	30 434	25 685	37 663	1	2	2	2
Average.....	40 854	29 685	28 157	37 786	1	1	2	2
Other employees:								
March.....	12 615	8 615	7 347	7 570	1	2	2	2
May.....	12 172	8 737	(NA)	(NA)	1	3	(NA)	(NA)
August.....	12 462	9 028	(NA)	(NA)	1	2	(NA)	(NA)
November.....	12 186	8 898	(NA)	(NA)	2	2	(NA)	(NA)
Average.....	12 359	8 819	(NA)	(NA)	1	2	(NA)	(NA)
Payroll, all employees	1 354 875	786 241	673 683	627 123	1	1	1	1
Payroll, construction workers	982 628	573 291	512 606	504 366	1	1	1	1
Payroll, other employees	372 247	212 950	161 077	122 757	1	2	1	1
First-quarter payroll, all employees	308 298	161 151	150 531	128 806	2	1	1	1
Fringe benefits, all employees	368 235	190 686	132 702	145 842	1	1	1	1
Legally required expenditures.....	233 002	133 157	100 869	86 238	2	2	1	1
Voluntary expenditures.....	135 233	57 528	31 833	59 604	2	2	2	1
Dollar value of business done	6 280 321	3 799 835	2 827 689	2 697 564	1	1	1	1
Value of construction work	6 141 153	3 675 649	2 751 886	2 566 932	1	1	1	1
Value of construction work subcontracted in from others	1 843 564	906 512	687 770	702 034	3	4	2	2
Other business receipts	139 168	97 705	60 347	130 632	5	6	4	4
Net value of construction†	4 538 490	2 759 695	2 038 079	1 980 424	1	1	1	1
Value added††	2 720 742	1 739 743	1 289 292	1 189 190	1	1	1	1
Selected costs	3 559 578	2 033 610	1 522 941	1 454 371	2	2	1	2
Materials, components, and supplies	1 854 120	1 059 183	756 372	823 188	2	2	1	2
Construction work subcontracted out to others	1 602 663	915 953	713 807	586 508	2	3	2	2
Selected power, fuels, and lubricants.....	102 795	58 474	52 761	44 675	2	2	2	2
Electricity.....	15 086	7 960	6 656	5 094	4	5	3	3
Natural gas.....	3 720	3 012	3 120	2 569	4	6	2	4
Gasoline and diesel fuel	77 831	43 654	39 543	30 817	2	2	2	2
On highway use.....	57 670	32 437	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use.....	20 161	11 217	(NA)	(NA)	3	4	(NA)	(NA)
Other, including lubricating oils and greases.....	6 158	3 846	3 440	6 197	5	5	5	4
Rental cost for machinery, equipment, and buildings	125 228	77 728	60 584	43 197	3	4	2	1
For machinery and equipment	91 152	56 560	46 127	36 381	3	4	2	1
For buildings.....	34 076	21 167	14 456	6 815	4	5	3	4
Selected purchased services	113 760	65 917	48 092	45 731	3	3	2	2
Communication services	34 614	17 759	13 926	10 585	3	3	4	3
Repairs to buildings and other structures	5 119	3 262	1 856	2 578	17	8	8	7
Repairs to machinery and equipment	74 027	44 895	32 309	32 569	3	3	2	2
Ownership of construction projects:								
Value of construction work	6 141 153	3 675 649	2 751 886	2 566 932	1	1	1	1
Government owned	1 541 648	869 876	741 111	496 803	4	5	3	2
Federal	358 820	285 143	(NA)	(NA)	7	5	(NA)	(NA)
State and local	1 182 828	584 733	(NA)	(NA)	4	7	(NA)	(NA)
Privately owned	4 599 506	2 805 772	2 010 775	2 070 129	2	2	2	2

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

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

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

Item	1992	1987	Relative standard error of estimate (percent)	
			1992	1987
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	706 775	436 137	3	3
Capital expenditures, other than land	101 984	61 510	6	5
New	71 462	37 516	8	5
Used	30 522	23 994	8	9
Retirements and disposition of depreciable assets	31 225	22 848	16	9
End-of-year gross book value of depreciable assets	777 533	474 799	3	3
Depreciation charges during year	89 114	53 301	3	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	74 060	76 235	10	7
Capital expenditures, other than land	12 613	6 626	29	15
New buildings and other structures	10 739	3 523	34	20
Used buildings and other structures	1 874	3 102	16	23
Retirements and disposition of depreciable assets	1 939	3 435	31	18
End-of-year gross book value of depreciable assets	84 734	79 426	11	7
Depreciation charges during year	6 984	6 120	13	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	632 715	359 901	3	3
Capital expenditures, other than land	89 371	54 884	5	5
New machinery and equipment, including automobiles and trucks	60 723	33 993	6	6
New automobiles and trucks, intended primarily for highway use	29 524	15 763	8	7
Used machinery and equipment, including automobiles and trucks	28 648	20 891	9	9
Retirements and disposition of depreciable assets	29 286	19 412	17	9
End-of-year gross book value of depreciable assets	692 799	395 373	3	3
Depreciation charges during year	82 130	47 181	3	3

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

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

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

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	8 631	1
Value of construction work	6 141 153	1
Establishments with inventories:		
Number	3 032	2
Value of construction work	2 704 299	2
Inventories ¹ :		
End of 1992, materials and supplies	67 096	8
End of 1991, materials and supplies	63 492	7
Establishments with no inventories:		
Number	3 035	3
Value of construction work	2 455 398	2
Establishments not reporting:		
Number	2 563	2
Value of construction work	981 456	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	8 631	5 824	1 549	758	388	76	28	8	—	—
All employees**	53 212	10 637	9 798	9 896	11 434	5 101	3 907	2 439	—	—
Payroll, all employees	1 354 875	181 014	201 690	241 616	341 170	156 245	143 710	89 431	—	—
Dollar value of business done	6 280 321	1 230 000	870 990	1 027 830	1 418 019	892 321	553 580	287 581	—	—
Value of construction work	6 141 153	1 206 390	857 250	1 002 887	1 382 477	879 282	526 803	286 065	—	—
Net value of construction work†	4 538 490	929 901	719 896	764 667	1 016 610	509 599	343 654	254 163	—	—
Value added††	2 720 742	514 479	419 220	469 528	605 899	327 292	222 428	161 896	—	—
Cost of materials, components, supplies, and fuels	1 956 915	439 032	314 416	320 081	446 253	195 346	148 003	93 783	—	—
Cost of construction work subcontracted out to others	1 602 663	276 489	137 354	238 220	365 867	369 683	183 149	31 902	—	—
Rental cost for machinery, equipment, and buildings	125 228	16 644	16 137	20 607	35 423	16 793	14 521	5 103	—	—
Capital expenditures, other than land	101 984	19 154	19 777	20 142	20 945	11 187	6 199	4 579	—	—
End-of-year gross book value of depreciable assets	777 533	154 105	133 172	129 663	176 311	98 148	49 932	36 203	—	—
1987										
All employees**	38 504	(S)	7 522	8 189	7 643	3 579	3 180	(D)	—	—
Value of construction work	3 675 649	(S)	607 397	681 090	886 314	742 410	(D)	(D)	—	—
Value added††	1 739 743	(S)	292 060	344 879	400 382	202 120	148 449	(D)	—	—
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	6	5	3	(Z)	(Z)	(Z)	—	—
Net value of construction work†	1	4	6	5	1	(Z)	(Z)	(Z)	—	—
Capital expenditures, other than land	6	13	22	17	3	(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	8 631	(S)	(S)	1 163	2 281	1 727	1 038	785	222	107	82
All employees**	53 212	(S)	(S)	1 779	5 998	7 400	7 861	10 025	6 241	4 503	8 287
Payroll, all employees	1 354 875	(S)	(S)	22 213	88 276	135 247	174 347	268 520	182 985	143 565	329 351
Dollar value of business done	6 280 321	(S)	(S)	85 643	376 287	598 127	733 751	1 169 402	767 021	744 552	1 773 285
Value of construction work	6 141 153	(S)	(S)	85 232	371 823	588 834	724 460	1 134 136	755 574	722 395	1 726 649
Net value of construction work†	4 538 490	(S)	(S)	77 156	332 712	506 707	590 553	894 996	587 935	522 187	996 624
Value added††	2 720 742	(S)	(S)	47 587	198 929	288 345	335 052	563 900	338 129	310 278	619 905
Cost of materials, components, supplies, and fuels	1 956 915	(S)	(S)	29 980	138 247	227 655	264 792	366 362	261 253	234 066	423 355
Cost of construction work subcontracted out to others	1 602 663	(S)	(S)	(S)	39 111	82 127	133 907	239 140	167 639	200 208	730 025
Rental cost for machinery, equipment, and buildings	125 228	(S)	(S)	1 591	6 712	11 845	12 102	19 745	15 433	22 491	34 864
Capital expenditures, other than land	101 984	(S)	(S)	2 181	7 093	10 900	10 584	27 572	12 416	12 903	17 914
End-of-year gross book value of depreciable assets	777 533	(S)	(S)	15 218	67 678	91 011	84 468	158 110	103 520	100 183	152 106
1987											
All employees**	38 504	(S)	(S)	(S)	6 261	5 510	5 096	7 299	3 991	3 961	3 290
Value of construction work	3 675 649	(S)	(S)	(S)	330 285	353 008	405 596	755 344	481 423	534 982	710 371
Value added††	1 739 743	(S)	(S)	(S)	184 070	194 941	219 133	370 041	216 075	249 601	244 368
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	8	6	6	6	4	2	2	(Z)
Net value of construction work†	1	(S)	(S)	7	5	6	6	5	5	4	(Z)
Capital expenditures, other than land	6	(S)	(S)	24	17	18	13	19	9	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	6 141 153	3 678 212	1 606 369	638 033	1	2	2	2
Building construction	4 667 012	2 953 578	1 275 138	438 296	2	2	2	3
Single-family houses	1 688 887	1 167 278	386 132	135 477	4	5	5	6
Single-family houses, detached	1 567 617	1 088 505	357 830	121 282	4	5	6	6
Single-family houses, attached, including townhouses and townhouse-type condominiums	121 270	78 773	28 303	14 194	9	9	16	14
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	216 467	155 392	37 406	23 669	12	16	11	10
Other residential buildings, including hotels, motels, and tourist cabins	54 511	22 272	25 407	6 832	12	13	22	29
Office buildings	439 250	232 870	149 307	57 073	3	3	5	5
Other commercial buildings such as stores, restaurants, and automobile service stations	573 477	329 740	180 181	63 556	4	3	8	6
Industrial buildings and warehouses	893 300	536 835	254 227	102 238	3	3	3	5
Industrial buildings	765 480	453 979	223 554	87 947	3	4	3	5
Warehouses	127 820	82 856	30 673	14 290	6	8	5	8
Religious buildings	61 545	32 233	24 487	4 825	9	5	20	7
Educational buildings	298 982	175 276	106 226	17 481	4	3	9	9
Hospitals and institutional buildings	332 067	225 416	88 377	18 274	2	2	7	8
Amusement, social, and recreational buildings, indoors	38 339	27 932	8 459	1 947	7	9	9	9
Other nonresidential buildings	70 187	48 335	14 929	6 924	10	12	15	10
Nonbuilding construction	1 255 602	724 634	331 231	199 737	2	2	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	410 505	188 020	142 923	79 561	3	5	4	4
Private driveways and parking areas	40 767	27 572	7 904	5 291	12	11	17	24
Bridges, tunnels, and elevated highways	57 289	45 075	9 373	2 841	5	5	5	19
Conservation and development construction	57 432	39 802	11 450	6 180	9	8	10	19
Power and communication transmission lines, towers, and related facilities	168 170	78 167	36 318	53 685	3	5	2	3
Sewers, water mains, and related facilities	185 987	141 622	27 706	16 658	6	6	10	18
Sewers, sewer lines, septic systems, and related facilities	117 700	84 317	21 385	11 998	7	7	12	20
Water mains and related facilities	68 287	57 305	6 322	4 660	10	10	9	34
Sewage treatment and water treatment plants	73 337	20 266	49 255	3 816	6	11	7	14
Other nonbuilding construction	262 117	184 110	46 301	31 706	4	6	2	6
Construction work, n.s.k.	218 539	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
1987								
Value of construction work	3 675 649	2 186 465	843 102	429 305	1	2	3	3
Building construction	2 619 196	1 669 841	636 502	297 080	2	2	3	4
Single-family houses	776 223	521 137	166 045	89 040	5	7	6	9
Single-family houses, detached	681 373	451 006	153 311	77 055	5	7	6	10
Single-family houses, attached, including townhouses and townhouse-type condominiums	94 850	70 131	12 734	11 985	15	18	15	18
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	152 374	121 677	13 154	17 542	7	7	21	8
Other residential buildings, including hotels, motels, and tourist cabins	52 443	26 880	13 975	11 587	8	12	17	9
Office buildings	388 835	255 040	101 810	31 984	3	4	7	5
Other commercial buildings such as stores, restaurants, and automobile service stations	466 876	288 106	123 505	55 264	4	4	9	6
Industrial buildings and warehouses	364 881	207 193	102 447	55 240	4	5	5	9
Industrial buildings	289 120	156 580	85 261	47 278	4	6	4	10
Warehouses	75 761	50 613	17 186	7 962	7	8	16	18
Religious buildings	19 683	6 570	9 782	3 331	12	14	18	17
Educational buildings	141 319	78 912	45 210	17 196	5	5	9	9
Hospitals and institutional buildings	163 115	120 846	33 643	8 626	2	1	6	6
Amusement, social, and recreational buildings, indoors	33 419	23 468	6 750	3 200	8	8	15	13
Other nonresidential buildings	60 023	33 746	21 073	5 218	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	839 676	502 890	205 708	131 077	3	3	4	6
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	354 728	198 983	111 153	44 590	4	6	6	10
Private driveways and parking areas	13 422	7 997	*3 821	1 602	19	19	40	20
Bridges, tunnels, and elevated highways	60 375	43 997	10 695	5 682	2	3	(Z)	14
Conservation and development construction	11 820	7 345	4 126	349	22	24	36	32
Power and communication transmission lines, towers, and related facilities	65 159	46 005	9 007	10 146	5	6	2	5
Sewers, water mains, and related facilities	113 693	85 897	14 587	13 208	9	10	10	20
Sewers, sewer lines, septic systems, and related facilities	70 755	53 521	9 193	8 039	11	12	12	12
Water mains and related facilities	42 938	32 376	5 394	*5 169	16	16	20	46
Sewage treatment and water treatment plants	37 420	22 462	13 169	1 787	9	11	12	17
Other nonbuilding construction	183 059	90 204	39 150	53 713	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	216 776	(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 -----	8 631	40 854	39 645	40 468	44 207	39 096	1	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	1 868	4 492	4 350	4 666	4 813	4 139	3	5	5	6	5	5	
1522	Other residential buildings -----	148	726	794	806	806	499	18	29	26	33	37	16	
1531	Operative builders -----	312	459	438	438	511	450	12	15	14	14	14	18	
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	109	976	932	858	1 183	929	15	10	12	11	9	11	
1542	Nonresidential buildings, n.e.c. ---	406	3 003	2 950	2 992	3 169	2 903	9	5	5	5	5	5	
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	244	2 167	2 242	2 019	2 591	1 815	9	4	3	5	4	4	
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	7	203	215	199	205	194	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	
1623	Water, sewer, and utility lines ----	174	2 101	1 862	1 974	2 361	2 208	10	4	4	4	5	4	
1629	Heavy construction, n.e.c. -----	239	1 792	1 612	1 767	1 989	1 800	11	5	6	5	5	5	
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	802	5 266	5 531	5 171	5 440	4 925	3	3	2	3	3	3	
1721	Painting and paper hanging -----	480	1 684	1 536	1 674	1 970	1 555	4	7	7	8	8	7	
1731	Electrical work -----	637	4 290	4 016	4 082	4 606	4 454	3	3	3	3	3	3	
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	248	994	1 022	1 067	977	910	7	7	7	7	9	9	
1742	Plastering, drywall, and insulation work -----	349	2 314	2 235	2 502	2 260	2 260	5	5	6	5	5	7	
1743	Terrazzo, tile, marble, and mosaic work -----	85	205	200	209	224	188	15	14	15	13	14	17	
175	Carpentry and floor work:													
1751	Carpentry -----	583	1 694	1 742	1 698	1 772	1 563	6	8	9	8	8	9	
1752	Floor laying and other floor work --	181	502	473	506	525	504	7	10	11	13	10	11	
1761	Roofing, siding, and sheet metal work -----	429	2 158	2 063	1 958	2 439	2 173	6	6	6	7	6	6	
1771	Concrete work -----	361	1 699	1 561	1 714	1 833	1 687	6	7	7	7	8	9	
1781	Water well drilling -----	59	207	198	192	262	178	9	18	13	19	25	17	
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	62	565	573	585	564	538	21	19	21	26	19	14	
1793	Glass and glazing work -----	64	238	241	221	253	237	14	12	11	13	11	12	
1794	Excavation work -----	261	864	772	904	955	824	10	9	9	9	9	9	
1795	Wrecking and demolition work ----	12	96	110	(S)	(S)	95	11	19	21	(S)	(S)	21	
1796	Installing building equipment, n.e.c. -----	81	599	628	529	639	601	17	8	8	9	9	8	
1799	Special trade contractors, n.e.c. ---	428	1 558	1 347	1 654	1 765	1 467	9	9	8	10	10	11	

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 -----	6.2	25.5	150.3	.221	.319	.261	.300	.020
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.4	18.0	164.1	.154	.339	.327	.052	.012
1522	Other residential buildings -----	6.4	25.4	161.4	.205	.249	.454	(S)	.004
1531	Operative builders -----	2.9	24.6	720.1	.066	.344	.366	.001	.001
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	12.6	33.1	441.3	.106	.158	.605	.006	.011
1542	Nonresidential buildings, n.e.c. -----	10.3	30.2	308.8	.136	.192	.594	.024	.015
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	10.9	28.1	158.2	.217	.409	.179	.213	.046
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	36.1	37.6	283.5	.165	(D)	.339	.039	.059
1623	Water, sewer, and utility lines -----	14.6	30.9	133.5	.281	.259	.114	.225	.060
1629	Heavy construction, n.e.c. -----	9.5	30.1	177.0	.214	.299	.199	.190	.041
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.8	29.6	132.5	.299	.405	.115	.607	.015
1721	Painting and paper hanging -----	4.2	17.3	56.3	.370	.309	.028	.655	.024
1731	Electrical work -----	8.9	32.5	121.4	.354	.372	.031	.585	.015
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	4.7	22.0	76.6	.335	.422	.035	.752	.019
1742	Plastering, drywall, and insulation work -----	7.9	23.2	77.4	.359	.329	.070	.805	.015
1743	Terrazzo, tile, marble, and mosaic work -----	3.0	20.3	88.4	.283	.438	*.011	.936	*.031
175	Carpentry and floor work:								
1751	Carpentry -----	3.6	18.7	103.3	.225	.367	.153	.578	.012
1752	Floor laying and other floor work -----	3.7	19.4	111.6	.232	.470	.071	.717	.009
1761	Roofing, siding, and sheet metal work -----	6.5	20.3	106.8	.244	.426	.066	.529	.019
1771	Concrete work -----	5.8	24.0	98.9	.300	(D)	.066	.722	.025
1781	Water well drilling -----	4.4	17.8	88.8	.251	.482	.033	.177	.014
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	10.5	21.4	99.5	.248	.350	*.170	.602	.029
1793	Glass and glazing work -----	6.1	25.6	167.7	.253	.615	(D)	.727	.034
1794	Excavation work -----	4.1	22.1	109.2	.254	.298	.076	.546	.041
1795	Wrecking and demolition work -----	10.1	15.5	81.3	.235	.226	.038	.235	(S)
1796	Installing building equipment, n.e.c. -----	9.5	26.6	84.2	.405	.210	.050	.188	.027
1799	Special trade contractors, n.e.c. -----	4.5	18.7	74.9	.311	.315	(D)	.392	.025

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
	PORTLAND-SALEM, OR-WA CMSA											
15,16,17	Construction industries -----	5 962	40 911	1 098 299	5 072 326	3 696 854	2 180 283	1 588 779	1 375 471	72 454	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	1 202	4 228	80 141	495 185	330 805	181 716	157 418	164 380	6 444	6	7
1522	Other residential buildings -----	106	772	20 430	99 581	52 512	32 264	24 304	47 069	1 276	29	15
1531	Operative builders -----	302	909	26 515	452 156	291 213	132 231	167 971	160 943	1 329	12	17
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	72	755	28 430	360 774	122 402	81 027	45 546	238 372	785	8	5
1542	Nonresidential buildings, n.e.c. -----	300	3 357	103 541	783 421	318 120	176 018	151 675	465 301	4 275	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	99	1 066	36 001	180 857	143 747	72 790	77 102	37 109	3 500	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	7	448	17 930	73 531	55 184	29 687	26 005	18 347	1 797	(Z)	(Z)
1623	Water, sewer, and utility lines -----	121	2 097	66 184	237 465	208 514	144 760	64 152	28 951	10 153	4	4
1629	Heavy construction, n.e.c. -----	131	1 444	46 428	225 011	176 204	113 922	66 436	48 807	6 677	5	6
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	508	5 402	168 750	561 780	489 903	265 781	231 316	71 878	5 240	3	2
1721	Painting and paper hanging -----	342	1 548	27 809	74 876	72 518	51 124	21 566	2 357	1 658	8	7
1731	Electrical work -----	406	4 574	151 742	425 995	412 193	262 221	152 383	13 802	7 041	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	179	983	23 238	67 061	65 281	37 242	28 209	1 780	815	8	6
1742	Plastering, drywall, and insulation work -----	270	2 682	61 242	163 893	150 830	102 727	51 601	13 063	1 781	8	6
1743	Terrazzo, tile, marble, and mosaic work -----	69	177	4 046	14 141	13 966	7 840	6 139	*175	412	16	23
175	Carpentry and floor work:											
1751	Carpentry -----	480	1 949	36 575	147 546	127 346	73 467	56 302	20 200	5 628	8	9
1752	Floor laying and other floor work -----	151	708	14 668	59 350	55 491	28 659	28 813	3 859	694	12	9
1761	Roofing, siding, and sheet metal work -----	320	2 306	51 274	191 980	178 343	103 409	78 456	13 637	3 175	6	6
1771	Concrete work -----	(S)	1 646	38 467	129 961	121 686	76 215	45 851	8 276	2 287	7	6
1781	Water well drilling -----	19	130	2 248	8 374	8 110	3 655	4 745	264	149	20	8
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	42	535	14 330	45 236	43 364	27 110	16 743	1 873	(S)	6	5
1793	Glass and glazing work -----	34	291	8 369	32 670	(D)	13 152	20 032	(D)	(D)	8	(D)
1794	Excavation work -----	153	710	17 232	70 178	64 076	40 323	24 075	6 102	3 173	9	8
1795	Wrecking and demolition work -----	8	(S)	(S)	(S)	(D)	(S)	1 636	(D)	(S)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	50	500	15 208	55 605	53 706	43 822	9 966	1 899	456	11	4
1799	Special trade contractors, n.e.c. -----	(S)	1 600	36 032	109 603	103 500	74 777	30 337	6 102	2 466	9	8
	Portland-Vancouver, OR-WA PMSA											
15,16,17	Construction industries -----	4 992	35 531	972 261	4 394 064	3 201 258	1 905 477	1 362 160	1 192 806	64 561	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	994	3 542	68 447	411 105	269 757	150 210	127 294	141 347	5 993	6	8
1522	Other residential buildings -----	82	646	18 367	84 625	42 774	23 427	21 903	41 851	859	34	18
1531	Operative builders -----	251	701	21 244	362 956	228 617	110 028	126 464	134 339	897	11	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	57	639	24 746	338 157	110 304	74 223	39 974	227 852	617	8	5
1542	Nonresidential buildings, n.e.c. -----	231	2 720	83 338	631 032	253 917	146 178	117 302	377 115	3 795	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	84	984	33 514	165 494	(D)	67 801	69 379	(D)	3 292	5	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 797	(D)	(D)
1623	Water, sewer, and utility lines -----	99	1 732	56 935	183 029	162 007	109 670	52 639	21 022	8 374	3	4
1629	Heavy construction, n.e.c. -----	106	1 189	38 732	191 110	146 022	94 076	55 586	45 088	4 687	6	6

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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
	PORTLAND-SALEM, OR-WA CMSA—Con.											
	Portland-Vancouver, OR-WA PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	453	4 877	156 878	522 864	453 466	247 298	212 968	69 398	5 095	3	2
1721	Painting and paper hanging-----	299	1 460	26 684	71 288	68 984	48 860	20 293	2 304	1 635	8	7
1731	Electrical work-----	348	4 072	137 163	385 880	373 139	237 816	137 016	12 741	6 526	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	166	922	21 154	62 941	61 371	34 865	26 655	1 570	815	8	6
1742	Plastering, drywall, and insulation work-----	194	2 287	53 869	140 250	128 998	88 823	43 671	11 252	1 422	8	5
1743	Terrazzo, tile, marble, and mosaic work-----	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	412	1 640	31 576	129 837	110 812	62 193	50 983	19 025	5 466	8	9
1752	Floor laying and other floor work---	130	656	13 955	56 899	53 151	(D)	28 234	3 748	652	13	9
1761	Roofing, siding, and sheet metal work-----	263	1 997	46 242	170 575	158 403	92 224	69 700	12 172	(D)	6	6
1771	Concrete work-----	(S)	1 445	33 858	115 005	108 159	68 322	40 217	6 846	2 048	8	6
1781	Water well drilling-----	15	101	(D)	5 352	5 112	(D)	(D)	240	149	25	10
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	35	494	13 333	42 431	40 594	25 291	15 792	1 837	(S)	6	5
1793	Glass and glazing work-----	29	251	7 323	(D)	(D)	11 348	18 057	(D)	(D)	8	(D)
1794	Excavation work-----	112	602	14 937	60 319	54 679	35 661	19 273	5 640	2 913	8	8
1795	Wrecking and demolition work-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.---	46	462	14 154	53 395	(D)	42 206	(D)	(D)	456	12	(D)
1799	Special trade contractors, n.e.c.---	(S)	1 523	34 943	(D)	(D)	72 736	28 835	(D)	(D)	9	(D)
	Salem, OR PMSA											
15,16,17	Construction industries-----	969	5 380	126 038	678 261	495 596	274 806	226 619	182 665	7 893	5	7
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	208	686	11 695	84 081	61 048	31 506	30 124	23 033	451	17	15
1522	Other residential buildings-----	*24	*126	*2 063	14 956	9 738	8 837	2 401	5 218	417	44	20
1531	Operative builders-----	51	208	5 271	*89 200	*62 596	*22 203	*41 508	26 604	*432	35	44
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	116	3 685	22 617	12 098	6 805	5 571	10 519	168	22	20
1542	Nonresidential buildings, n.e.c.-----	69	636	20 203	152 389	64 203	29 840	34 373	88 186	480	15	14
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction---	(S)	83	2 487	15 363	(D)	4 989	7 723	(D)	(S)	(Z)	(D)
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-----	23	365	9 249	54 436	46 507	35 090	11 513	7 929	1 779	15	9
1629	Heavy construction, n.e.c.-----	(S)	255	7 695	33 901	30 181	19 846	10 850	3 719	1 990	15	23
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	(S)	525	11 872	38 917	36 436	18 483	18 348	2 480	(S)	14	15
1721	Painting and paper hanging-----	43	87	*1 125	3 587	3 534	2 265	*1 274	(S)	*23	37	36
1731	Electrical work-----	58	502	14 579	40 115	39 053	24 405	15 367	1 061	515	16	15
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	*61	2 084	4 120	3 910	2 377	1 554	*210	—	42	29
1742	Plastering, drywall, and insulation work-----	(S)	394	7 373	23 643	21 832	13 904	7 930	*1 810	(S)	24	21
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	67	310	4 999	17 709	16 533	11 274	5 318	*1 175	162	27	32
1752	Floor laying and other floor work---	21	53	713	2 451	2 340	(D)	579	(S)	(S)	35	29
1761	Roofing, siding, and sheet metal work-----	57	(S)	5 032	21 405	(S)	(S)	8 756	*1 465	(D)	(S)	(S)

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	C	D	E	F	G	H	I	B	E
	PORTLAND-SALEM, OR-WA CMSA—Con.											
	Salem, OR PMSA—Con.											
	Construction industries—Con.											
15,16,17	Special trade contractors—Con.											
1771	Concrete work -----	(S)	201	4 609	14 956	13 527	7 892	5 634	1 430	(S)	20	22
1781	Water well drilling -----	*4	29	(D)	3 022	2 998	(D)	(D)	(S)	-	17	13
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	7	41	*996	2 806	2 770	1 818	*951	*36	*8	28	30
1793	Glass and glazing work -----	*5	*41	*1 046	(D)	(D)	*1 804	*1 975	-	-	44	(D)
1794	Excavation work -----	41	109	2 295	9 859	9 397	4 662	*4 802	462	260	34	30
1795	Wrecking and demolition work -----	*3	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
1796	Installing building equipment, n.e.c. -	4	38	1 054	2 210	(D)	1 616	(D)	(D)	-	(Z)	(D)
1799	Special trade contractors, n.e.c.-----	(S)	77	1 089	(D)	(D)	*2 041	*1 502	(D)	(D)	39	(D)

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Summary of Findings

This report provides results from the 1992 Census of Construction Industries for Washington. 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 38,974 establishments in this State operating in the construction industries. These establishments accounted for \$16.7 billion in total dollar value of business done.

Most of the 38,974 construction establishments were small. Of the total, 21,695 were nonemployers, and over half of the employer establishments had less than 5 employees. The 5,385 construction establishments with 5 employees or more, while representing only 14 percent of all establishments, accounted for more than 80 percent of the total dollar value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1992, the establishments with paid employees accounted for \$15.8 billion in total dollar value of business done. Of this amount, \$15.4 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$4.1 billion, leaving net value of construction work of \$11.3 billion. In addition, these establishments paid out \$5.4 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 \$6.7 billion. (See Introduction and appendixes for explanation of terms.)

There were 17,279 establishments with total employment averaging 121,799 during the year. Total payroll for 1992 was \$3.4 billion.

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

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

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

ESTABLISHMENTS WITHOUT PAYROLL

During 1992, there were 21,695 establishments with no payroll classified as construction. According to administrative records of the Federal Government, their dollar value of business done during 1992 was \$967 million. Most of these establishments, about 72 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)

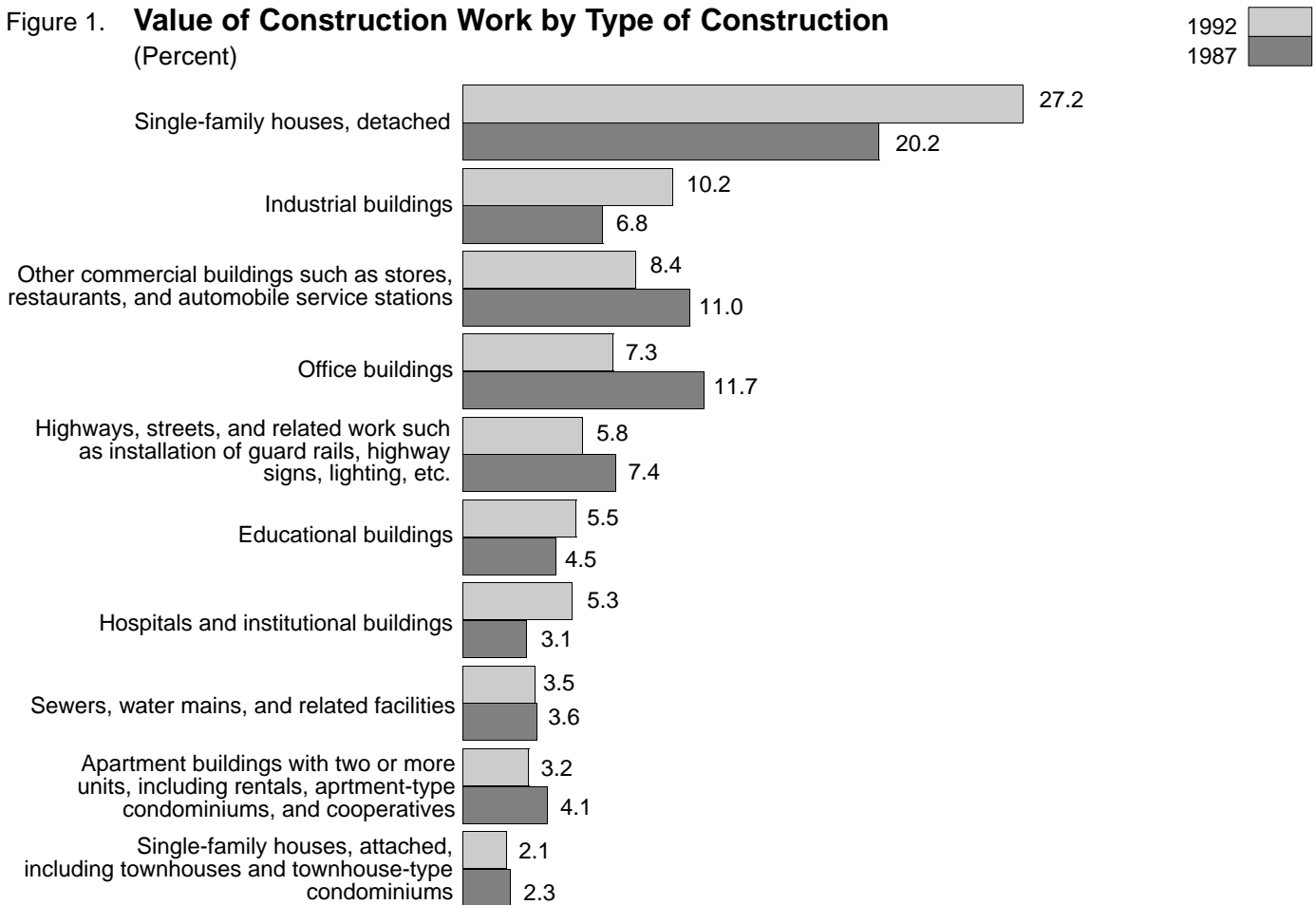


Figure 2. **Selected Costs per Dollar Value of Business Done**
(Percent)

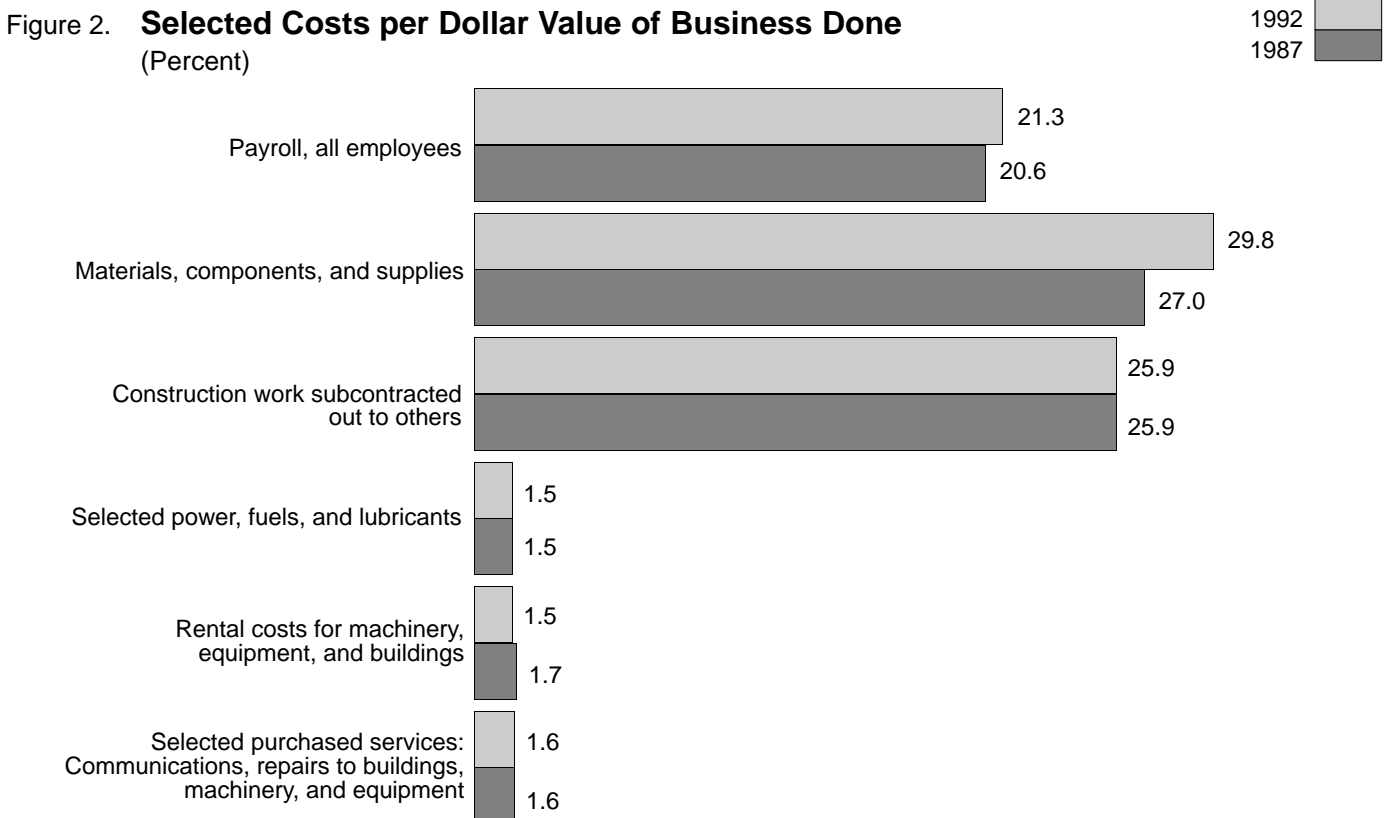


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1992 and 1987

[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 -----	38 974	31 302	121 799	16 721 711	21 695	21 634	967 054	17 279	9 668	121 799	15 754 657	1	1	
15	Building construction—General contractors and operative builders ----	12 241	9 109	33 355	7 577 817	5 729	5 533	519 514	6 512	3 576	33 355	7 058 303	1	2	
16	Heavy construction other than building construction—contractors -----	1 403	773	19 750	2 987 872	360	338	13 522	1 043	435	19 750	2 974 350	1	1	
17	Special trade contractors -----	25 330	21 419	68 693	6 156 021	15 606	15 763	434 018	9 724	5 656	68 693	5 722 003	1	1	
1711	Plumbing, heating, and air-conditioning --	2 417	1 680	14 223	1 540 016	948	938	40 604	1 469	742	14 223	1 499 412	2	2	
1731	Electrical work -----	1 973	1 158	12 887	1 145 499	768	754	22 510	1 205	404	12 887	1 122 989	2	1	
1987															
15, 16, 17	Construction industries ² -----	35 091	26 496	85 585	10 740 896	22 673	22 778	1 265 783	12 418	3 718	85 585	9 475 113	1	1	
15	Building construction—General contractors and operative builders ----	10 785	7 250	25 307	4 661 988	6 372	6 056	525 337	4 413	1 194	25 307	4 136 651	2	2	
16	Heavy construction other than building construction—contractors -----	1 315	572	13 553	1 828 510	385	380	26 339	930	192	13 553	1 802 171	3	2	
17	Special trade contractors -----	21 845	17 476	46 038	3 930 599	14 955	15 179	499 173	6 890	2 297	46 038	3 431 426	1	1	
1711	Plumbing, heating, and air-conditioning --	2 081	1 308	8 404	830 700	984	968	48 749	1 097	340	8 404	781 951	2	2	
1731	Electrical work -----	1 786	1 076	8 564	696 962	874	868	43 923	912	208	8 564	653 039	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	17 279	121 799	94 066	3 351 695	2 396 511	15 370 231	11 285 723	6 745 006
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4 362	13 005	9 816	240 525	168 272	1 454 831	1 020 871	565 161
1522	Other residential buildings	220	1 236	937	27 785	20 359	200 587	126 482	59 653
1531	Operative builders	866	4 527	2 586	136 095	56 837	1 673 294	991 715	632 544
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	203	4 369	3 394	157 878	106 849	1 164 809	605 657	320 154
1542	Nonresidential buildings, n.e.c.	861	10 219	7 413	321 009	208 214	2 434 798	993 731	485 576
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	259	5 756	4 629	198 551	147 174	861 134	703 861	457 095
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	23	1 414	1 023	62 914	45 547	235 643	190 397	126 915
1623	Water, sewer, and utility lines	275	4 516	3 644	156 683	113 067	578 885	486 728	334 498
1629	Heavy construction, n.e.c.	486	8 064	6 259	263 268	188 127	1 167 465	954 593	522 935
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	1 469	14 223	10 481	444 098	313 719	1 453 211	1 290 825	793 115
1721	Painting and paper hanging	1 000	4 482	3 825	88 817	68 640	233 275	225 634	160 423
1731	Electrical work	1 205	12 887	10 183	395 855	306 917	1 111 703	1 066 891	615 052
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	408	2 107	1 791	46 082	37 621	146 606	142 078	86 658
1742	Plastering, drywall, and insulation work	739	7 510	6 367	176 392	141 915	480 554	456 094	294 988
1743	Terrazzo, tile, marble, and mosaic work	162	762	590	18 193	12 907	56 313	54 354	29 205
175	Carpentry and floor work:								
1751	Carpentry	1 265	4 663	3 748	93 111	71 417	328 722	298 779	197 095
1752	Floor laying and other floor work	376	1 681	1 280	34 198	23 042	150 081	136 301	71 846
1761	Roofing, siding, and sheet metal work	839	5 911	4 631	128 948	93 346	472 215	450 868	255 655
1771	Concrete work	826	3 793	3 138	82 764	63 986	265 293	247 618	154 718
1781	Water well drilling	100	559	405	11 946	8 626	46 185	44 224	26 025
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	49	1 126	893	41 753	32 702	119 793	107 745	73 650
1793	Glass and glazing work	120	891	620	23 117	14 384	82 112	81 805	41 862
1794	Excavation work	469	2 484	2 056	60 081	47 887	221 690	208 104	152 841
1795	Wrecking and demolition work	22	234	186	7 409	5 291	22 909	21 153	20 165
1796	Installing building equipment, n.e.c.	67	1 289	997	36 318	27 107	119 897	113 287	86 139
1799	Special trade contractors, n.e.c.	609	4 091	3 175	97 907	72 557	288 226	265 927	181 037

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	
4 925 143	4 084 508	4 261 704	241 731	232 457	1 831 649	85 585	9 149 222	4 197 508	1	1	3	15, 16, 17
487 583	433 960	59 129	18 249	12 716	106 560	8 318	753 601	285 585	3	3	11	152
68 868	74 105	8 685	1 513	1 728	24 639	1 586	258 313	79 291	10	13	33	1522
425 485	681 579	24 027	4 188	7 848	63 366	2 476	600 398	159 547	5	7	13	1531
296 769	559 152	80 067	8 449	4 610	32 410	1 878	329 949	97 038	3	2	7	154
526 648	1 441 066	84 029	22 812	14 692	115 180	11 049	2 041 106	606 002	3	2	9	1542
												16
314 290	157 273	194 780	17 562	37 504	313 786	4 599	603 218	339 452	3	2	3	1611
67 549	45 245	13 515	6 763	4 344	52 021	827	126 006	49 229	1	1	(Z)	162
166 447	92 157	122 414	20 135	29 007	209 982	3 143	355 794	196 174	2	2	8	1623
477 074	212 872	205 910	36 548	24 184	227 856	4 984	672 952	367 384	3	2	10	1629
												17
543 911	162 386	864 597	28 889	18 013	142 390	8 404	756 797	417 152	2	2	7	1711
65 962	7 641	126 608	5 437	6 204	41 052	3 023	156 752	115 693	6	4	34	1721
463 125	44 812	720 470	17 067	14 156	100 299	8 564	638 499	374 240	2	1	9	1731
55 937	4 528	116 796	2 248	4 145	24 456	1 300	95 384	53 232	7	6	27	174
163 771	24 460	391 070	6 528	4 728	32 510	5 785	337 577	206 674	4	3	14	1742
26 793	1 959	38 528	541	520	4 590	388	37 573	18 875	11	11	26	1743
												175
109 345	29 942	(S) 120 794	(S) 1 475	3 427	24 411	2 501	143 591	85 452	5	5	20	1751
68 244	13 781			801	9 547	1 045	74 921	37 435	6	5	16	1752
200 533	21 347	218 323	6 268	5 776	65 079	4 480	323 387	179 254	4	3	17	1761
96 834	17 676	179 057	6 545	7 527	50 219	3 348	224 176	142 499	5	4	17	1771
19 582	1 961	3 731	692	4 542	21 553	365	36 127	22 904	12	12	28	1781
												179
(D) 44 538	12 048	80 105	4 117	1 457	9 068	975	81 263	50 030	7	6	5	1791
71 797	308	50 829	2 112	556	7 788	1 022	75 468	38 252	5	5	25	1793
(D) 27 246	13 586	159 470	10 020	15 613	100 361	1 519	137 725	95 382	6	5	16	1794
90 428	1 756	14 399	1 204	902	11 300	262	19 033	16 030	6	10	(Z)	1795
	6 611	49 056	2 068	1 176	7 743	716	66 422	41 416	3	2	39	1796
	22 299	123 950	6 130	6 280	33 482	2 341	135 274	88 358	4	4	22	1799

CONSTRUCTION—GEOGRAPHIC AREA SERIES

WASHINGTON WA—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	17 279	12 418	10 487	11 379	(Z)	1	2	2
Proprietors and working partners	9 668	3 718	3 831	7 188	1	4	4	4
All employees**	121 799	85 585	77 690	84 829	1	1	1	1
Construction workers:								
March	88 515	60 998	58 533	61 633	1	1	1	1
May	95 459	65 747	60 912	72 712	1	1	1	1
August	100 893	72 856	63 606	79 011	1	1	1	1
November	91 398	67 229	56 809	74 313	1	1	1	1
Average	94 066	66 707	61 087	71 978	1	1	1	1
Other employees:								
March	27 976	18 309	16 450	12 522	1	1	1	1
May	27 339	18 581	(NA)	(NA)	1	1	(NA)	(NA)
August	28 121	19 136	(NA)	(NA)	1	1	(NA)	(NA)
November	27 494	19 484	(NA)	(NA)	1	2	(NA)	(NA)
Average	27 733	18 877	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	3 351 695	1 948 713	1 703 642	1 214 643	(Z)	1	1	1
Payroll, construction workers	2 396 511	1 407 909	1 315 192	993 098	(Z)	1	1	1
Payroll, other employees	955 184	540 803	388 449	221 545	1	1	1	1
First-quarter payroll, all employees	733 723	428 157	416 192	256 043	1	1	1	1
Fringe benefits, all employees	894 986	467 915	317 295	261 295	1	1	1	1
Legally required expenditures	577 214	323 399	249 769	151 825	1	1	1	1
Voluntary expenditures	317 772	144 515	67 525	109 470	1	1	1	(Z)
Dollar value of business done	15 754 657	9 475 113	7 010 041	5 200 680	1	1	1	1
Value of construction work	15 370 231	9 149 222	6 834 101	4 961 221	1	1	1	1
Value of construction work subcontracted in from others	4 261 704	2 227 684	1 452 953	1 234 436	2	2	1	1
Other business receipts	384 426	201 964	124 690	239 458	4	4	2	2
Net value of construction†	11 285 723	6 693 759	5 239 452	3 884 778	1	1	1	1
Value added††	6 745 006	4 197 508	3 396 250	2 304 719	1	1	1	1
Selected costs	9 009 651	5 153 677	3 562 541	2 803 760	1	1	1	1
Materials, components, and supplies	4 696 166	2 555 229	1 854 343	1 643 648	1	1	1	1
Construction work subcontracted out to others	4 084 508	2 455 463	1 594 648	1 076 443	1	2	1	1
Selected power, fuels, and lubricants	228 977	142 985	113 548	83 669	2	1	1	1
Electricity	38 014	19 230	17 088	8 485	2	2	2	2
Natural gas	10 043	4 136	3 371	4 254	3	4	2	3
Gasoline and diesel fuel	166 440	110 533	85 739	58 546	2	2	2	1
On highway use	122 035	78 827	(NA)	(NA)	2	2	(NA)	(NA)
Off highway use	44 406	31 705	(NA)	(NA)	3	2	(NA)	(NA)
Other, including lubricating oils and greases	14 480	9 085	7 349	12 388	3	3	2	2
Rental cost for machinery, equipment, and buildings	241 731	163 724	100 001	75 814	2	2	1	1
For machinery and equipment	165 320	116 310	74 302	64 458	2	2	1	1
For buildings	76 410	47 414	25 699	11 356	3	3	2	2
Selected purchased services	252 640	148 712	110 243	95 712	3	2	1	1
Communication services	83 450	40 749	26 570	19 058	4	2	2	3
Repairs to buildings and other structures	9 725	6 556	4 609	4 311	6	5	4	4
Repairs to machinery and equipment	159 465	101 406	79 063	72 343	2	2	1	1
Ownership of construction projects:								
Value of construction work	15 370 231	9 149 222	6 834 101	4 961 221	1	1	1	1
Government owned	3 825 885	2 413 716	2 031 561	1 375 026	2	2	1	1
Federal	815 943	706 906	(NA)	(NA)	3	3	(NA)	(NA)
State and local	3 009 942	1 706 810	(NA)	(NA)	2	3	(NA)	(NA)
Privately owned	11 544 346	6 735 505	4 802 539	3 586 196	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	1 691 941	1 063 253	2	3
Capital expenditures, other than land	232 457	132 103	3	3
New	161 331	85 551	3	3
Used	71 126	46 551	4	5
Retirements and disposition of depreciable assets	92 750	48 892	4	6
End-of-year gross book value of depreciable assets	1 831 649	1 146 463	2	3
Depreciation charges during year	216 860	136 471	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	235 289	194 926	9	10
Capital expenditures, other than land	17 444	14 082	9	9
New buildings and other structures	13 873	9 044	11	8
Used buildings and other structures	3 571	5 038	11	19
Retirements and disposition of depreciable assets	(S)	8 087	(S)	28
End-of-year gross book value of depreciable assets	234 561	200 921	9	9
Depreciation charges during year	19 193	13 976	9	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	1 456 653	868 327	1	3
Capital expenditures, other than land	215 013	118 020	3	3
New machinery and equipment, including automobiles and trucks	147 458	76 506	3	4
New automobiles and trucks, intended primarily for highway use	52 124	40 520	4	5
Used machinery and equipment, including automobiles and trucks	67 555	41 513	4	5
Retirements and disposition of depreciable assets	74 578	40 805	5	4
End-of-year gross book value of depreciable assets	1 597 088	945 542	1	3
Depreciation charges during year	197 666	122 495	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	17 279	(Z)
Value of construction work	15 370 231	1
Establishments with inventories:		
Number	5 259	2
Value of construction work	6 352 137	1
Inventories ¹ :		
End of 1992, materials and supplies	227 715	13
End of 1991, materials and supplies	184 034	9
Establishments with no inventories:		
Number	6 492	2
Value of construction work	6 093 658	1
Establishments not reporting:		
Number	5 528	2
Value of construction work	2 924 436	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	17 279	11 895	2 693	1 511	867	205	80	22	5	2
All employees**	121 799	20 864	17 166	19 927	25 489	13 896	11 762	7 011	5 685	(D)
Payroll, all employees	3 351 695	359 289	372 661	512 583	727 482	453 177	437 980	267 098	221 424	(D)
Dollar value of business done	15 754 657	2 380 733	1 794 490	2 106 133	3 064 196	2 033 352	2 030 181	1 205 109	1 140 464	(D)
Value of construction work	15 370 231	2 336 332	1 754 203	2 051 694	2 994 101	1 977 386	1 966 426	1 183 876	1 106 213	(D)
Net value of construction work†	11 285 723	1 831 966	1 362 351	1 641 360	2 215 624	1 368 816	1 256 740	756 323	852 544	(D)
Value added††	6 745 006	1 067 670	829 921	1 002 009	1 319 753	903 298	780 608	429 979	411 768	(D)
Cost of materials, components, supplies, and fuels	4 925 143	808 697	572 716	693 790	965 965	521 484	539 887	347 577	475 027	(D)
Cost of construction work subcontracted out to others	4 084 508	504 366	391 852	410 334	778 478	608 570	709 686	427 553	253 669	(D)
Rental cost for machinery, equipment, and buildings	241 731	(S)	29 632	32 292	50 033	33 319	37 214	17 036	15 020	(D)
Capital expenditures, other than land	232 457	38 782	31 154	31 159	46 296	30 508	31 627	14 303	8 628	(D)
End-of-year gross book value of depreciable assets	1 831 649	266 248	222 800	284 297	352 096	207 355	313 871	91 386	93 595	(D)
1987										
All employees**	85 585	(S)	14 829	15 808	17 615	9 362	7 395	5 378	(D)	—
Value of construction work	9 149 222	(S)	1 147 967	1 483 960	1 983 987	1 227 921	1 858 925	(D)	(D)	—
Value added††	4 197 508	(S)	544 632	722 196	940 684	997 491	(D)	339 105	(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	3	1	2	(Z)	(Z)	(Z)	(D)
Capital expenditures, other than land	3	9	12	8	4	1	(Z)	(Z)	(Z)	(D)

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

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

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

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1992											
Number of establishments	17 279	(S)	(S)	2 662	4 506	3 078	1 989	1 513	533	262	220
All employees**	121 799	(S)	(S)	3 702	11 009	13 702	15 291	21 682	13 361	11 820	29 180
Payroll, all employees	3 351 695	(S)	(S)	42 910	161 066	261 861	334 102	574 965	405 697	401 091	1 151 159
Dollar value of business done	15 754 657	(S)	(S)	193 549	731 162	1 069 471	1 366 689	2 259 714	1 855 896	1 796 208	6 413 513
Value of construction work	15 370 231	(S)	(S)	191 108	723 275	1 045 832	1 336 812	2 190 528	1 803 284	1 766 777	6 244 557
Net value of construction work†	11 285 723	(S)	(S)	173 260	644 365	915 338	1 111 232	1 776 306	1 368 258	1 345 084	3 889 617
Value added††	6 745 006	(S)	(S)	110 271	399 274	547 369	681 871	1 056 029	839 232	838 589	2 233 335
Cost of materials, components, supplies, and fuels	4 925 143	(S)	(S)	65 430	252 978	391 608	459 238	789 463	581 639	535 926	1 825 238
Cost of construction work subcontracted out to others	4 084 508	(S)	(S)	(S)	(S)	130 494	225 580	414 222	435 026	421 693	2 354 940
Rental cost for machinery, equipment, and buildings	241 731	(S)	(S)	(S)	11 812	18 814	22 642	39 751	28 511	32 263	84 819
Capital expenditures, other than land	232 457	(S)	(S)	3 523	19 664	20 800	25 069	34 212	28 057	24 466	75 289
End-of-year gross book value of depreciable assets	1 831 649	(S)	(S)	25 754	117 578	137 344	205 792	295 416	194 093	206 995	639 012
1987											
All employees**	85 585	(S)	(S)	(S)	(S)	11 835	11 841	13 994	11 142	7 074	15 320
Value of construction work	9 149 222	(S)	(S)	(S)	(S)	777 170	944 189	1 443 346	1 302 196	989 523	2 965 364
Value added††	4 197 508	(S)	(S)	(S)	(S)	400 762	462 509	702 021	629 192	431 253	1 169 517
1992 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	6	4	5	4	3	2	1	(Z)
Net value of construction work†	1	(S)	(S)	5	4	4	4	3	4	3	1
Capital expenditures, other than land	3	(S)	(S)	19	12	13	15	8	3	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	15 370 231	10 203 695	3 300 279	1 295 117	1	1	1	1
Building construction	11 411 866	7 994 234	2 553 582	864 049	1	1	1	2
Single-family houses	4 494 850	3 456 398	756 732	281 719	2	3	3	4
Single-family houses, detached	4 179 297	3 234 884	696 773	247 640	3	3	3	4
Single-family houses, attached, including townhouses and townhouse-type condominiums	315 553	221 515	59 959	34 079	6	8	9	15
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	491 570	362 205	80 765	48 599	7	9	5	6
Other residential buildings, including hotels, motels, and tourist cabins	145 929	101 799	34 178	9 951	6	8	8	11
Office buildings	1 119 708	611 623	392 940	115 145	2	3	2	4
Other commercial buildings such as stores, restaurants, and automobile service stations	1 294 123	864 617	311 988	117 518	2	3	4	4
Industrial buildings and warehouses	1 834 086	1 319 324	336 094	178 668	1	1	3	3
Industrial buildings	1 566 689	1 137 342	274 625	154 722	1	1	3	3
Warehouses	267 397	181 982	61 469	23 945	3	4	5	5
Religious buildings	92 299	51 047	30 649	10 603	11	11	18	8
Educational buildings	850 367	554 012	254 809	41 546	3	3	5	4
Hospitals and institutional buildings	812 235	506 050	272 019	34 166	1	1	3	3
Amusement, social, and recreational buildings, indoors	89 281	48 574	37 784	2 923	7	10	12	13
Other nonresidential buildings	187 420	118 586	45 623	23 212	6	8	11	7
Nonbuilding construction	3 387 225	2 209 460	746 697	431 067	1	1	2	2
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	898 068	425 506	312 169	160 393	2	2	4	3
Airport runways and related work	89 952	69 868	17 412	2 672	1	1	3	(Z)
Recreational facilities	81 470	66 562	10 312	(S)	22	26	25	(S)
Bridges, tunnels, and elevated highways	211 805	135 479	61 275	15 052	2	1	1	20
Conservation and development construction	132 962	107 474	*8 085	17 403	8	6	41	12
Power and communication transmission lines, towers, and related facilities	220 109	116 248	68 290	35 572	3	5	3	3
Sewers, water mains, and related facilities	539 958	428 365	63 835	47 758	3	3	4	9
Sewers, sewer lines, septic systems, and related facilities	331 464	265 269	40 695	25 501	3	4	3	12
Water mains and related facilities	208 494	163 096	23 140	22 257	5	5	8	12
Pipeline construction other than sewer or water lines	95 775	70 144	10 135	15 496	4	4	13	4
Blast furnaces, petroleum refineries, chemical complexes, etc.	296 479	150 529	83 354	62 596	(Z)	(Z)	(Z)	1
Sewage treatment and water treatment plants	173 418	122 810	44 445	6 163	2	2	3	1
Other nonbuilding construction	647 228	516 476	67 387	63 365	3	3	5	8
Construction work, n.s.k.	571 140	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1987								
Value of construction work	9 149 222	6 067 172	1 890 244	770 161	1	1	2	2
Building construction	6 594 889	4 559 727	1 458 387	538 618	1	1	3	3
Single-family houses	2 054 955	1 536 299	364 115	154 540	3	3	4	6
Single-family houses, detached	1 843 661	1 377 134	329 254	137 271	3	4	5	6
Single-family houses, attached, including townhouses and townhouse-type condominiums	211 294	159 165	34 861	17 269	9	11	16	12
Apartment buildings with two or more units, including rentals, apartment-type condominiums, and cooperatives	373 861	291 996	36 313	45 551	4	5	10	5
Other residential buildings, including hotels, motels, and tourist cabins	226 368	147 304	59 455	19 608	4	5	10	9
Office buildings	1 067 848	764 046	233 323	70 478	2	1	4	5
Other commercial buildings such as stores, restaurants, and automobile service stations	1 003 229	692 249	232 227	78 752	3	3	6	5
Industrial buildings and warehouses	898 447	593 300	207 217	97 929	3	3	9	3
Industrial buildings	619 414	361 492	176 033	81 888	4	4	11	3
Warehouses	279 033	231 808	31 184	16 041	3	3	5	7
Religious buildings	66 770	37 275	21 843	7 651	9	15	10	8
Educational buildings	408 271	231 258	152 486	24 526	5	5	8	12
Hospitals and institutional buildings	285 685	171 334	96 055	18 295	3	3	4	10
Amusement, social, and recreational buildings, indoors	55 027	36 567	13 831	4 628	5	5	15	5
Other nonresidential buildings	154 422	91 898	42 033	20 491	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	2 132 689	1 473 642	431 339	227 706	2	2	2	3
Highways, streets, and related work such as installation of guard rails, highway signs, lighting, etc.	673 076	413 302	200 253	59 519	2	2	3	6
Recreational facilities	*57 656	*46 265	*6 147	*5 243	42	44	60	56
Bridges, tunnels, and elevated highways	181 987	148 317	26 098	7 571	8	10	8	14
Conservation and development construction	12 244	10 003	1 444	*796	23	25	6	56
Power and communication transmission lines, towers, and related facilities	110 226	78 344	23 230	8 651	3	3	3	11
Sewers, water mains, and related facilities	328 005	261 225	49 468	17 311	4	4	6	11
Sewers, sewer lines, septic systems, and related facilities	197 450	158 345	28 789	10 316	3	4	4	14
Water mains and related facilities	130 555	102 880	20 679	6 995	6	5	12	13
Pipeline construction other than sewer or water lines	28 529	19 807	5 869	2 852	14	16	14	16
Blast furnaces, petroleum refineries, chemical complexes, etc.	103 938	16 724	44 329	42 885	1	3	1	1
Sewage treatment and water treatment plants	98 888	79 108	15 877	3 902	3	4	3	7
Other nonbuilding construction	538 139	400 546	58 623	78 975	(NA)	(NA)	(NA)	(NA)
Construction work, n.s.k.	421 644	(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 -----	17 279	94 066	88 515	95 459	100 893	91 398	(Z)	1	1	1	1	1	1
15	Building construction—General contractors and operative builders:													
152	General contractors, residential buildings:													
1521	Single-family houses -----	4 362	9 816	9 595	9 875	10 620	9 175	2	3	4	3	3	4	4
1522	Other residential buildings -----	220	937	884	1 145	829	888	14	10	11	10	10	14	14
1531	Operative builders -----	866	2 586	2 593	2 718	2 665	2 368	7	6	6	6	6	6	6
154	General contractors, nonresidential buildings:													
1541	Industrial buildings and warehouses -----	203	3 394	3 078	3 575	3 510	3 413	13	3	2	3	4	3	3
1542	Nonresidential buildings, n.e.c. ---	861	7 413	6 709	7 744	8 108	7 091	6	3	4	5	3	4	4
16	Heavy construction other than building construction—contractors:													
1611	Highway and street construction ----	259	4 629	3 503	4 739	5 584	4 692	10	2	3	2	3	3	3
162	Heavy construction, except highway:													
1622	Bridge, tunnel, and elevated highway construction -----	23	1 023	672	1 026	1 307	1 086	15	1	(Z)	(Z)	2	2	2
1623	Water, sewer, and utility lines ----	275	3 644	3 191	3 571	3 791	4 022	10	2	2	3	2	2	2
1629	Heavy construction, n.e.c. -----	486	6 259	5 935	6 217	6 606	6 276	8	3	3	2	3	3	3
17	Special trade contractors:													
1711	Plumbing, heating, and air-conditioning -----	1 469	10 481	10 619	10 474	10 673	10 157	3	2	2	2	2	3	3
1721	Painting and paper hanging -----	1 000	3 825	3 208	3 945	4 675	3 474	3	6	5	7	8	6	6
1731	Electrical work -----	1 205	10 183	9 701	10 044	10 642	10 344	2	2	2	2	2	2	2
174	Masonry, stonework, tile setting, and plastering:													
1741	Masonry, stone setting, and other stonework -----	408	1 791	1 635	1 837	1 923	1 771	6	7	6	7	8	8	8
1742	Plastering, drywall, and insulation work -----	739	6 367	6 232	6 526	6 649	6 060	4	4	4	4	4	6	6
1743	Terrazzo, tile, marble, and mosaic work -----	162	590	574	702	591	492	13	12	11	16	10	9	9
175	Carpentry and floor work:													
1751	Carpentry -----	1 265	3 748	3 926	3 866	3 798	3 402	4	5	5	5	5	6	6
1752	Floor laying and other floor work --	376	1 280	1 251	1 328	1 354	1 186	5	6	6	6	6	7	7
1761	Roofing, siding, and sheet metal work -----	839	4 631	4 332	4 631	5 110	4 449	3	3	4	4	4	3	3
1771	Concrete work -----	826	3 138	2 977	3 205	3 388	2 984	4	5	5	5	5	6	6
1781	Water well drilling -----	100	405	407	405	447	360	13	11	11	9	10	11	11
179	Miscellaneous special trade contractors:													
1791	Structural steel erection -----	49	893	831	857	1 020	862	18	7	5	10	8	9	9
1793	Glass and glazing work -----	120	620	583	592	675	629	8	6	6	5	6	7	7
1794	Excavation work -----	469	2 056	1 860	2 020	2 269	2 075	8	6	6	6	6	7	7
1795	Wrecking and demolition work ----	22	186	172	159	233	180	34	8	9	9	6	4	4
1796	Installing building equipment, n.e.c. -----	67	997	1 232	883	930	944	16	3	3	4	3	2	2
1799	Special trade contractors, n.e.c. ---	609	3 175	2 816	3 375	3 492	3 018	7	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 -----	7.0	27.5	163.4	.218	.320	.266	.277	.016
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.0	18.5	148.2	.165	.335	.298	.041	.013
1522	Other residential buildings -----	5.6	22.5	214.1	.139	.343	.369	.043	.008
1531	Operative builders -----	5.2	30.1	647.1	.081	.254	.407	.014	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	21.5	36.1	343.2	.136	.255	.480	.069	.007
1542	Nonresidential buildings, n.e.c. -----	11.9	31.4	328.5	.132	.216	.592	.035	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	22.2	34.5	186.0	.231	.365	.183	.226	.020
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	61.3	44.5	230.3	.267	.287	.192	.057	.029
1623	Water, sewer, and utility lines -----	16.4	34.7	158.9	.271	.288	.159	.211	.035
1629	Heavy construction, n.e.c. -----	16.6	32.6	186.5	.226	.409	.182	.176	.031
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	9.7	31.2	138.7	.306	.374	.112	.595	.020
1721	Painting and paper hanging -----	4.5	19.8	61.0	.381	.283	.033	.543	.023
1731	Electrical work -----	10.7	30.7	109.2	.356	.417	.040	.648	.015
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.2	21.9	81.9	.314	.382	.031	.797	.015
1742	Plastering, drywall, and insulation work -----	10.2	23.5	75.5	.367	.341	.051	.814	.014
1743	Terrazzo, tile, marble, and mosaic work -----	4.7	23.9	95.4	.323	.476	.035	.684	.010
175	Carpentry and floor work:								
1751	Carpentry -----	3.7	20.0	87.7	.283	.333	.091	(S)	(S)
1752	Floor laying and other floor work -----	4.5	20.3	117.3	.228	.455	.092	.805	.010
1761	Roofing, siding, and sheet metal work -----	7.0	21.8	102.0	.273	.425	.045	.462	.013
1771	Concrete work -----	4.6	21.8	84.5	.312	.365	.067	.675	.025
1781	Water well drilling -----	5.6	21.4	114.0	.259	.424	.042	.081	.015
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	22.8	37.1	134.1	.349	(D)	.101	.669	.034
1793	Glass and glazing work -----	7.4	25.9	132.4	.282	.542	.004	.619	.026
1794	Excavation work -----	5.3	24.2	107.8	.271	.324	.061	.719	.045
1795	Wrecking and demolition work -----	10.6	31.7	123.2	.323	(D)	.077	.629	.053
1796	Installing building equipment, n.e.c. -----	19.1	28.2	120.3	.303	.227	.055	.409	.017
1799	Special trade contractors, n.e.c. -----	6.7	23.9	90.8	.340	.314	.077	.430	.021

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

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

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
PORTLAND-SALEM, OR-WA CMSA												
15,16,17	Construction industries -----	5 962	40 911	1 098 299	5 072 326	3 696 854	2 180 283	1 588 779	1 375 471	72 454	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	1 202	4 228	80 141	495 185	330 805	181 716	157 418	164 380	6 444	6	7
1522	Other residential buildings -----	106	772	20 430	99 581	52 512	32 264	24 304	47 069	1 276	29	15
1531	Operative builders -----	302	909	26 515	452 156	291 213	132 231	167 971	160 943	1 329	12	17
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	72	755	28 430	360 774	122 402	81 027	45 546	238 372	785	8	5
1542	Nonresidential buildings, n.e.c. -----	300	3 357	103 541	783 421	318 120	176 018	151 675	465 301	4 275	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	99	1 066	36 001	180 857	143 747	72 790	77 102	37 109	3 500	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	7	448	17 930	73 531	55 184	29 687	26 005	18 347	1 797	(Z)	(Z)
1623	Water, sewer, and utility lines -----	121	2 097	66 184	237 465	208 514	144 760	64 152	28 951	10 153	4	4
1629	Heavy construction, n.e.c. -----	131	1 444	46 428	225 011	176 204	113 922	66 436	48 807	6 677	5	6
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	508	5 402	168 750	561 780	489 903	265 781	231 316	71 878	5 240	3	2
1721	Painting and paper hanging -----	342	1 548	27 809	74 876	72 518	51 124	21 566	2 357	1 658	8	7
1731	Electrical work -----	406	4 574	151 742	425 995	412 193	262 221	152 383	13 802	7 041	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	179	983	23 238	67 061	65 281	37 242	28 209	1 780	815	8	6
1742	Plastering, drywall, and insulation work -----	270	2 682	61 242	163 893	150 830	102 727	51 601	13 063	1 781	8	6
1743	Terrazzo, tile, marble, and mosaic work -----	69	177	4 046	14 141	13 966	7 840	6 139	*175	412	16	23
175	Carpentry and floor work:											
1751	Carpentry -----	480	1 949	36 575	147 546	127 346	73 467	56 302	20 200	5 628	8	9
1752	Floor laying and other floor work -----	151	708	14 668	59 350	55 491	28 659	28 813	3 859	694	12	9
1761	Roofing, siding, and sheet metal work -----	320	2 306	51 274	191 980	178 343	103 409	78 456	13 637	3 175	6	6
1771	Concrete work -----	(S)	1 646	38 467	129 961	121 686	76 215	45 851	8 276	2 287	7	6
1781	Water well drilling -----	19	130	2 248	8 374	8 110	3 655	4 745	264	149	20	8
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	42	535	14 330	45 236	43 364	27 110	16 743	1 873	(S)	6	5
1793	Glass and glazing work -----	34	291	8 369	32 670	(D)	13 152	20 032	(D)	(D)	8	(D)
1794	Excavation work -----	153	710	17 232	70 178	64 076	40 323	24 075	6 102	3 173	9	8
1795	Wrecking and demolition work -----	8	(S)	(S)	(S)	(D)	(S)	1 636	(D)	(S)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	50	500	15 208	55 605	53 706	43 822	9 966	1 899	456	11	4
1799	Special trade contractors, n.e.c. -----	(S)	1 600	36 032	109 603	103 500	74 777	30 337	6 102	2 466	9	8
Portland-Vancouver, OR-WA PMSA												
15,16,17	Construction industries -----	4 992	35 531	972 261	4 394 064	3 201 258	1 905 477	1 362 160	1 192 806	64 561	1	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	994	3 542	68 447	411 105	269 757	150 210	127 294	141 347	5 993	6	8
1522	Other residential buildings -----	82	646	18 367	84 625	42 774	23 427	21 903	41 851	859	34	18
1531	Operative builders -----	251	701	21 244	362 956	228 617	110 028	126 464	134 339	897	11	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	57	639	24 746	338 157	110 304	74 223	39 974	227 852	617	8	5
1542	Nonresidential buildings, n.e.c. -----	231	2 720	83 338	631 032	253 917	146 178	117 302	377 115	3 795	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	84	984	33 514	165 494	(D)	67 801	69 379	(D)	3 292	5	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 797	(D)	(D)
1623	Water, sewer, and utility lines -----	99	1 732	56 935	183 029	162 007	109 670	52 639	21 022	8 374	3	4
1629	Heavy construction, n.e.c. -----	106	1 189	38 732	191 110	146 022	94 076	55 586	45 088	4 687	6	6

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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
	PORTLAND-SALEM, OR-WA CMSA—Con.											
	Portland-Vancouver, OR-WA PMSA—Con.											
15,16,17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	453	4 877	156 878	522 864	453 466	247 298	212 968	69 398	5 095	3	2
1721	Painting and paper hanging	299	1 460	26 684	71 288	68 984	48 860	20 293	2 304	1 635	8	7
1731	Electrical work	348	4 072	137 163	385 880	373 139	237 816	137 016	12 741	6 526	3	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	166	922	21 154	62 941	61 371	34 865	26 655	1 570	815	8	6
1742	Plastering, drywall, and insulation work	194	2 287	53 869	140 250	128 998	88 823	43 671	11 252	1 422	8	5
1743	Terrazzo, tile, marble, and mosaic work	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	412	1 640	31 576	129 837	110 812	62 193	50 983	19 025	5 466	8	9
1752	Floor laying and other floor work	130	656	13 955	56 899	53 151	(D)	28 234	3 748	652	13	9
1761	Roofing, siding, and sheet metal work	263	1 997	46 242	170 575	158 403	92 224	69 700	12 172	(D)	6	6
1771	Concrete work	(S)	1 445	33 858	115 005	108 159	68 322	40 217	6 846	2 048	8	6
1781	Water well drilling	15	101	(D)	5 352	5 112	(D)	(D)	240	149	25	10
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	35	494	13 333	42 431	40 594	25 291	15 792	1 837	(S)	6	5
1793	Glass and glazing work	29	251	7 323	(D)	(D)	11 348	18 057	(D)	(D)	8	(D)
1794	Excavation work	112	602	14 937	60 319	54 679	35 661	19 273	5 640	2 913	8	8
1795	Wrecking and demolition work	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ..	46	462	14 154	53 395	(D)	42 206	(D)	(D)	456	12	(D)
1799	Special trade contractors, n.e.c.	(S)	1 523	34 943	(D)	(D)	72 736	28 835	(D)	(D)	9	(D)
	Salem, OR PMSA											
15,16,17	Construction industries	969	5 380	126 038	678 261	495 596	274 806	226 619	182 665	7 893	5	7
	(See appropriate State for SIC detail.)											
	SEATTLE-TACOMA-BREMERTON, WA CMSA											
15,16,17	Construction industries	10 669	82 634	2 384 821	10 963 886	7 917 400	4 754 065	3 444 067	3 046 486	141 175	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 590	7 795	151 838	918 093	627 458	352 978	298 758	290 635	7 705	4	4
1522	Other residential buildings	162	898	21 427	156 466	98 526	47 621	52 469	57 940	869	10	15
1531	Operative builders	607	3 812	115 914	1 389 456	812 385	557 750	315 047	577 071	6 811	5	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	111	2 865	115 981	873 436	476 067	246 641	239 506	397 369	2 180	4	2
1542	Nonresidential buildings, n.e.c.	550	7 179	235 074	1 799 604	713 392	351 488	370 799	1 086 212	8 529	4	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	119	2 941	109 218	408 000	332 423	229 711	138 140	75 578	21 902	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	13	856	41 502	155 587	128 479	91 635	38 939	27 107	2 320	2	1
1623	Water, sewer, and utility lines	148	3 023	106 089	404 616	337 021	240 098	109 877	67 596	18 146	2	2
1629	Heavy construction, n.e.c.	243	5 820	196 670	904 253	724 391	366 608	398 743	179 863	13 139	4	2

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 subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	SEATTLE-TACOMA-BREMERTON, WA CMSA—Con.											
	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	954	9 244	299 996	994 632	876 609	527 239	379 951	118 023	10 536	2	2
1721	Painting and paper hanging-----	679	3 390	69 438	176 266	169 899	120 352	50 182	6 367	5 432	8	5
1731	Electrical work-----	720	9 241	293 872	810 660	773 637	438 262	342 434	37 023	9 541	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	252	1 478	33 415	104 525	100 829	62 152	39 122	*3 697	3 261	8	7
1742	Plastering, drywall, and insulation work-----	446	5 417	134 619	355 084	336 684	220 450	117 626	18 401	3 842	4	3
1743	Terrazzo, tile, marble, and mosaic work-----	129	698	16 639	51 605	(D)	26 365	24 993	(D)	474	12	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	829	3 085	67 388	215 622	196 950	133 322	70 311	18 673	2 049	5	5
1752	Floor laying and other floor work-----	245	1 156	24 234	108 862	96 822	49 194	49 579	12 040	517	6	4
1761	Roofing, siding, and sheet metal work-----	550	3 754	85 580	313 151	298 083	169 686	129 738	15 068	2 415	4	4
1771	Concrete work-----	458	2 356	55 892	168 723	160 690	102 786	61 122	8 033	3 905	5	5
1781	Water well drilling-----	60	325	6 795	(D)	(D)	12 897	12 081	(D)	2 052	18	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	(S)	1 005	37 969	107 272	95 266	66 261	38 064	12 006	(D)	8	7
1793	Glass and glazing work-----	85	584	16 187	56 712	56 469	29 296	28 569	243	446	9	8
1794	Excavation work-----	284	1 676	44 313	159 067	149 722	110 712	51 734	9 345	8 478	6	6
1795	Wrecking and demolition work-----	12	209	6 956	(D)	(D)	17 799	1 374	(D)	(D)	(Z)	(D)
1796	Installing building equipment, n.e.c.-----	37	1 027	29 617	86 255	(D)	58 848	21 667	(D)	(D)	3	(D)
1799	Special trade contractors, n.e.c.-----	353	2 798	68 196	200 740	183 572	123 912	63 243	17 168	4 011	5	5
	Bremerton, WA PMSA											
15,16,17	Construction industries-----	748	3 085	67 790	300 877	246 432	137 917	119 730	54 445	5 474	7	6
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	206	598	8 433	52 252	37 206	18 842	19 226	15 046	(S)	19	17
1522	Other residential buildings-----	(S)	3	(S)	(S)	*217	*101	*116	(S)	(D)	(Z)	59
1531	Operative builders-----	69	180	3 691	41 013	29 111	17 157	12 608	11 901	260	31	27
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	(S)	*33	*544	(S)	(D)	(S)	(S)	(D)	(D)	70	(D)
1542	Nonresidential buildings, n.e.c.-----	*21	*136	*4 481	*18 877	*9 468	(S)	*6 841	*9 409	*286	51	51
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines-----	*6	(D)	(D)	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(S)
1629	Heavy construction, n.e.c.-----	(S)	(S)	(S)	(D)	*1 115	(S)	(S)	(D)	—	(S)	74
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	86	569	17 293	65 596	57 735	28 775	30 462	7 860	(S)	13	12
1721	Painting and paper hanging-----	(S)	*55	*366	*1 801	*1 629	*1 294	*335	*172	*168	60	51
1731	Electrical work-----	34	219	6 064	17 540	17 236	8 340	9 021	304	248	21	24
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	(S)	*20	(S)	(S)	(S)	*368	(S)	(S)	—	74	(S)
1742	Plastering, drywall, and insulation work-----	36	210	4 844	13 911	13 384	7 681	6 138	527	(S)	13	13
1743	Terrazzo, tile, marble, and mosaic work-----	*3	*18	*266	*984	*958	*500	*458	*26	*12	63	60
175	Carpentry and floor work:											
1751	Carpentry-----	60	102	1 325	7 446	6 832	3 524	*3 473	*613	*454	33	35
1752	Floor laying and other floor work-----	(S)	(S)	(S)	(D)	(D)	(S)	(S)	(S)	—	(S)	(D)
1761	Roofing, siding, and sheet metal work-----	(S)	(S)	2 752	(S)	(S)	(S)	(S)	(S)	62	(S)	(S)
1771	Concrete work-----	*26	170	(S)	(S)	(D)	(S)	(S)	(D)	(D)	34	(D)

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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
	SEATTLE-TACOMA-BREMERTON, WA CMSA—Con.											
	Bremerton, WA PMSA—Con.											
15,16,17	Construction industries—Con.											
1781	Special trade contractors—Con.											
	Water well drilling -----	*4	*44	(D)	*3 833	*3 722	(D)	*2 107	*111	*266	42	41
179	Miscellaneous special trade contractors:											
	Structural steel erection -----	(S)	(D)	(S)	(S)	(S)	(D)	(D)	—	(S)	(D)	(S)
1793	Glass and glazing work -----	—	—	—	—	—	—	—	—	—	—	—
1794	Excavation work -----	30	118	2 209	10 279	8 544	6 784	*3 833	(S)	*918	31	34
1795	Wrecking and demolition work -----	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c. -----	—	—	—	—	—	—	—	—	—	—	—
1799	Special trade contractors, n.e.c. -----	*22	*88	1 908	*7 534	(D)	(D)	(D)	(D)	(D)	41	(D)
	Olympia, WA PMSA											
15,16,17	Construction industries -----	684	2 933	61 822	369 192	276 311	156 988	130 032	92 882	4 326	8	12
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	171	545	9 228	53 219	41 403	29 272	16 765	11 816	655	17	18
1522	Other residential buildings -----	*16	*52	*902	*3 667	*3 407	*1 881	(S)	(S)	(D)	61	66
1531	Operative builders -----	34	174	5 776	*92 741	*62 911	*28 885	34 982	*29 830	1 080	29	45
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	4	75	2 578	15 694	(D)	4 999	3 922	(D)	(D)	(Z)	(D)
1542	Nonresidential buildings, n.e.c. -----	54	272	7 891	65 408	28 718	15 368	13 499	36 690	1 202	23	13
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	*13	(D)	(D)	(D)	(D)	1 963	(D)	(D)	—	(D)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1623	Water, sewer, and utility lines -----	(S)	(D)	(D)	5 124	(D)	2 447	2 481	(D)	30	(D)	(D)
1629	Heavy construction, n.e.c. -----	*21	*109	*1 850	(D)	*11 694	*4 464	*8 182	(D)	—	47	49
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning -----	66	324	7 907	27 179	24 479	14 807	11 338	2 700	231	17	14
1721	Painting and paper hanging -----	56	*163	*2 522	*9 671	*8 519	*4 801	*3 765	(S)	178	48	42
1731	Electrical work -----	*19	*166	*2 838	*8 743	*8 660	*4 453	*4 207	*83	—	53	51
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work -----	*13	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1742	Plastering, drywall, and insulation work -----	(S)	249	3 402	(S)	(S)	(S)	*6 984	109	(S)	37	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(D)	*2	(S)	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	46	*127	*1 522	6 799	6 446	*5 095	(S)	353	258	43	37
1752	Floor laying and other floor work -----	20	56	1 161	(D)	(D)	1 984	(S)	*160	*6	32	(D)
1761	Roofing, siding, and sheet metal work -----	35	182	4 918	18 083	17 568	10 586	7 869	515	*196	21	22
1771	Concrete work -----	*13	(S)	(S)	(S)	(D)	(S)	(S)	(D)	(D)	(S)	(D)
1781	Water well drilling -----	*12	(D)	(S)	(D)	(D)	(D)	(S)	(S)	*156	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	—	—	—	—	—	—	—	—	—	—	—
1793	Glass and glazing work -----	*6	*35	*534	(S)	(S)	(S)	(S)	—	—	74	(S)
1794	Excavation work -----	*22	*79	*2 055	*9 889	*9 499	*7 724	*2 316	*390	(D)	43	42
1795	Wrecking and demolition work -----	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. -----	(S)	53	871	2 972	(D)	1 710	(D)	(D)	(D)	19	(D)

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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 subcontracted out to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											A	B
	SEATTLE-TACOMA-BREMERTON, WA CMSA—Con.											
	Seattle-Bellevue-Everett, WA PMSA											
15,16,17	Construction industries	7 339	64 690	1 946 200	8 991 018	6 413 274	3 827 314	2 805 788	2 577 744	105 157	1	1
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 782	5 437	112 712	696 495	465 585	262 542	220 622	230 910	4 818	5	5
1522	Other residential buildings	111	726	18 618	143 769	88 241	43 504	45 973	55 528	615	11	16
1531	Operative builders	420	2 946	93 182	1 103 065	616 079	435 617	231 622	486 986	4 166	5	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	73	2 644	109 818	839 776	457 795	237 156	230 026	381 981	2 098	3	1
1542	Nonresidential buildings, n.e.c.	403	5 789	188 189	1 471 640	578 526	268 638	314 693	893 114	5 564	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	84	2 060	76 007	298 744	237 374	157 521	107 793	61 371	13 361	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	12	856	41 502	155 587	128 479	91 635	38 939	27 107	2 320	2	1
1623	Water, sewer, and utility lines	102	2 258	80 498	324 041	269 754	188 389	83 878	54 287	13 589	2	3
1629	Heavy construction, n.e.c.	170	5 349	185 700	843 576	(D)	341 923	377 310	(D)	12 307	4	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	647	7 013	237 573	761 718	677 495	416 050	285 163	84 223	8 891	3	2
1721	Painting and paper hanging	491	2 821	60 391	148 474	144 071	103 370	41 276	4 403	4 991	8	5
1731	Electrical work	532	7 532	245 000	677 709	644 410	359 086	290 092	33 298	7 682	2	2
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work	176	1 104	27 140	83 072	79 800	48 513	31 676	*3 272	3 203	8	8
1742	Plastering, drywall, and insulation work	283	3 938	104 166	265 416	250 533	169 230	82 202	14 883	2 891	5	3
1743	Terrazzo, tile, marble, and mosaic work	101	563	14 207	43 444	41 751	21 723	21 519	1 693	(D)	12	12
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	53 101	(S)	(S)	(S)	(S)	13 760	1 107	(S)	(S)
1752	Floor laying and other floor work ...	161	887	19 543	89 789	79 116	38 842	41 079	10 673	287	7	5
1761	Roofing, siding, and sheet metal work	358	2 744	63 520	226 982	217 309	123 970	93 600	9 673	1 581	5	4
1771	Concrete work	310	1 721	42 160	126 195	119 345	76 684	45 601	6 850	2 679	8	8
1781	Water well drilling	25	(D)	(D)	(D)	(D)	(D)	2 203	(D)	*49	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	29	(D)	(D)	(D)	(D)	65 357	(D)	12 006	1 369	(D)	(D)
1793	Glass and glazing work	62	424	11 658	39 013	38 788	21 776	18 159	225	277	11	8
1794	Excavation work	182	1 220	33 815	115 008	108 534	77 808	38 573	6 474	6 577	6	5
1795	Wrecking and demolition work	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ...	31	950	28 251	82 684	(D)	56 540	20 643	(D)	(D)	3	(D)
1799	Special trade contractors, n.e.c.	(S)	2 272	56 373	166 500	150 720	103 905	50 362	15 780	3 389	5	5
	Tacoma, WA PMSA											
15,16,17	Construction industries	1 897	11 925	309 008	1 302 799	981 384	631 845	388 518	321 416	26 217	2	2
15	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	1 214	21 465	116 127	83 264	42 322	42 145	32 863	2 083	9	10
1522	Other residential buildings	(S)	118	(S)	(S)	(S)	*2 135	(S)	(S)	221	30	(S)
1531	Operative builders	85	512	13 265	152 637	104 284	76 091	35 835	48 353	1 305	15	17
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	*21	*113	*3 040	*13 635	*8 512	*5 772	2 753	5 123	(D)	53	52
1542	Nonresidential buildings, n.e.c.	71	982	34 514	243 679	96 680	61 119	35 766	147 000	1 477	5	4

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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
	SEATTLE-TACOMA-BREMERTON, WA CMSA—Con.											
	Tacoma, WA PMSA—Con.											
15,16,17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	20	607	24 675	81 401	69 290	(D)	23 892	12 111	(D)	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	--	--	--	--	--	--	--	--	--	--	--
1623	Water, sewer, and utility lines -----	27	677	23 323	73 181	(D)	47 608	22 909	(D)	4 527	5	(D)
1629	Heavy construction, n.e.c. -----	(S)	325	8 517	47 492	(D)	18 906	12 494	(D)	832	12	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning-----	(S)	1 338	37 223	140 139	116 900	67 606	52 988	*23 240	951	6	6
1721	Painting and paper hanging-----	103	351	6 159	16 320	15 679	10 887	4 806	*641	94	14	14
1731	Electrical work -----	134	1 325	39 970	106 668	103 331	66 383	39 114	3 337	1 611	3	3
174	Masonry, stone work, tile setting, and plastering:											
1741	Masonry, stone setting, and other stone work-----	54	277	4 066	13 324	13 024	9 466	3 558	(S)	(D)	28	20
1742	Plastering, drywall, and insulation work -----	95	1 019	22 207	61 821	58 940	36 682	22 302	2 882	634	10	8
1743	Terrazzo, tile, marble, and mosaic work -----	*19	*91	*1 890	*5 855	(D)	*3 437	*2 452	(D)	(D)	58	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	179	608	11 440	34 623	30 677	20 027	10 716	3 946	(S)	14	15
1752	Floor laying and other floor work ---	53	(S)	(S)	11 841	10 758	6 394	5 480	1 083	224	(S)	9
1761	Roofing, siding, and sheet metal work -----	98	673	14 390	53 380	50 014	28 493	21 711	3 366	576	10	8
1771	Concrete work -----	110	438	10 874	32 890	32 040	20 530	11 784	850	1 145	22	25
1781	Water well drilling -----	*19	206	4 332	14 869	(D)	7 512	6 817	(D)	1 581	26	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	1	(D)	(D)	(D)	(D)	(D)	(D)	--	(D)	(D)	(D)
1793	Glass and glazing work -----	17	126	3 995	15 010	14 992	6 112	9 128	18	169	10	18
1794	Excavation work-----	50	259	6 235	23 891	23 145	18 396	*7 011	746	(D)	23	26
1795	Wrecking and demolition work -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	81	385	9 044	23 735	22 446	(D)	7 788	*1 288	(D)	13	14

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.