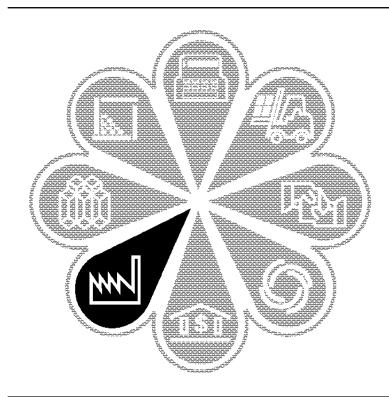
1992Census of Manufactures

MC92-I-32D

INDUSTRY SERIES

Concrete, Plaster, and Cut Stone Products

Industries 3271, 3272, 3273, 3274, 3275, and 3281



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U.S. Department of Commerce Ronald H. Brown, Secretary David J. Barram, Deputy Secretary

Economics and Statistics Administration Everett M. Ehrlich, Under Secretary for Economic Affairs

BUREAU OF THE CENSUS Martha Farnsworth Riche, Director

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If you have any questions concerning the statistics in this report, call 301-457-4810.



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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

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

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

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

AUTHORITY AND SCOPE

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

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

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

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

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

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

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

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

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

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

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

Census of Manufactures

GENERAL

This report, from the 1992 Census of Manufactures, is one of a series of 83 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each State and the District of Columbia and for special subjects such as manufacturers' shipments to the federal government and concentration ratios in manufacturing.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each State and its important metropolitan areas (MA's), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MA's with 250 employees or more and for counties and places with 500 employees or more.

The General Summary report contains industry, product class, and geographic area statistics summarized in one report. The introduction to the General Summary discusses, at greater length, many of the subjects described in this introduction. For example, the General Summary text discusses the relationship of value added by manufacture to national income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF **MANUFACTURING**

The 1992 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial Classification (SIC) Manual This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of

Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use powerdriven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

RELATIONSHIP BETWEEN ANNUAL SURVEY OF MANUFACTURES AND CENSUS OF **MANUFACTURES**

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 62,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

ESTABLISHMENT BASIS OF REPORTING

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each

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

location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1992, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

MANUFACTURING UNIVERSE AND CENSUS REPORT FORMS

The 1992 Census of Manufactures universe includes approximately 380,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form. In the 1992 Census of Manufactures, approximately 143,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industryby-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials

were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-records cases were only given a two- or three-digit SIC group. For the 1992 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

- 2. **Establishments sent a report form.** The over 237,000 establishments covered in the mail canvass were divided into three groups:
 - a. ASM sample establishments. This group consisted of approximately 62,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see Appendix B, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is 1 of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM). Approximately 112,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM). This group consisted of approximately 63,000 establishments. For those industries where application of the variable cutoff for administrative-records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received 1 of the approximately 80 versions of the short form, which requested summary product and

material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the value of the n.s.k. categories.

AUXILIARIES

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the manufacturing auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 11,000 separately operated auxiliaries are included in the geographic area series and in a report issued as part of the 1992 Enterprise Statistics Survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include the following:

- 1. Program planning, including sales research and coordination of purchasing, production, and distribution
- 2. Company purchasing, including general contracts and purchasing methods
- 3. Company financial policy and accounting
- 4. General engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations
- 5. Company personnel matters
- 6. Legal and patent matters

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1992, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of threedigit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see Appendix B, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that, at the aggregate level, some industries comprise different mixes of establishments between survey years and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-records cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in table 6a represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments data for industries and products. In tables 1a through 5b, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6a represents the total value of all products shipped that are classified as primary to an industry.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for new capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Manufactures may be obtained on computer diskette 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 specifications on 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.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- Not available. (NA)
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- Not elsewhere classified. n.e.c.
- Not specified by kind. n.s.k.
- pt. Part.
- Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

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SIC's 33-35 (exc. 357)	Kenneth Hansen	301-457-4755
SIC's 357, 36-39	Bruce Goldhirsch	301-457-4817
Import/ export publications	Foreign Trade Division	301-457-3041
Industry analysis and forecasting	International Trade Administration	202-377-4356

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

[For explanation of terms, see appendixes]

			Four-dig	it industry :	statistics				re-digit prod ren-digit pro		
ltem	His- torical	Oper- ating ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class specialization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a		2	3a	4	5a					
Employment and payroll: Number of employees Payroll	1a 1a 1a 1a 1a	1b 1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit)	1a	1b	2	3а	4	5а		5b	6a 6a	6b	6c
Value added by manufacture	1a 1a	1b 1b	2 2	3a 3a 3a	4 4	5a 5a	7				
Inventories: Total, end of year By stage of fabrication	1a			3a 3a	4						
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures Used plant and equipment expenditures Gross assets Depreciation Retirements of buildings and machinery Rental payments Foreign content of materials consumed Purchased services	1a		2	3b 3b 3b 3b 3b 3c 3c	4	5a					
Ratios: Specialization Coverage	1a 1a							5b 5b			

^{*}Number of companies with shipments of more than \$100 thousand.

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Description of Industries and Summary of Findings

This report shows 1992 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC code and title

3271	Concrete Block and Brick
3272	Concrete Products, N.E.C.
3273	Ready-Mixed Concrete
3274	Lime
3275	Gypsum Products
3281	Cut Stone and Stone Products

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 through 5a) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Establishment data were tabulated based on industry definitions included in the 1987 Standard Industrial Classification (SIC) Manual1. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class (five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1992 and 1987 censuses is shown in appendix C. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

INDUSTRY 3271, CONCRETE BLOCK AND BRICK

This industry is made up of establishments primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in Division C, Construction, and establishments primarily engaged in mixing and delivering ready-mixed concrete are classified in industry 3273.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3271, Concrete Block and Brick, had employment of 16.4 thousand. The employment figure was 12 percent below the 18.6 thousand reported in 1987.

The leading States in employment in 1992 were Pennsylvania, California, Texas, and Michigan. This represents a shift from 1987 when California, New Jersey, Pennsylvania, and Texas were the leading States.

The total value of shipments for establishments classified in this industry was \$2.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3271 shipped \$1.5 billion of concrete block and brick considered primary to the industry, \$127.0 million of secondary products, and had \$451.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 92 percent (specialization ratio). In 1987, the specialization ratio was 94 percent.

Establishments in this industry also accounted for 88 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 88 percent.

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

The products primary to industry 3271, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the concrete block and brick industry amounted to \$1.0 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of the total value of shipments.

INDUSTRY 3272, CONCRETE PRODUCTS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in Division C, Construction, and establishments primarily engaged in mixing and delivering ready-mixed concrete are classified in industry 3273.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3272, Concrete Products, N.E.C., had employment of 58.9 thousand. The employment figure was 16 percent below the 70.0 thousand reported in 1987.

The leading States in employment in 1992 were California, Florida, Texas, and Pennsylvania, accounting for approximately 31 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 35 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$5.9 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3272 shipped \$5.4 billion of concrete products, not elsewhere classified, considered primary to the industry, \$127.0 million of secondary products, and had \$446.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 98 percent (specialization ratio). In 1987, the specialization ratio was 97 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 97 percent.

The products primary to industry 3272, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.6 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the concrete products, not elsewhere classified, industry amounted to \$2.6 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of the total value of shipments.

INDUSTRY 3273, READY-MIXED CONCRETE

This industry is made up of establishments primarily engaged in manufacturing Portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and truck-mixed concrete.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3273, Ready-Mixed Concrete, had employment of 82.4 thousand. The employment figure was 15 percent below the 96.8 thousand reported in 1987.

The leading States in employment in 1992 were California, Texas, Florida, and Ohio, accounting for approximately 28 percent of the industry's employment. This represents a shift from 1987 when California, Texas, Florida, and Arizona accounted for approximately 31 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$12.0 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3273 shipped \$10.7 billion of ready-mixed concrete considered primary to the industry, \$568.3 million of secondary products, and had \$731.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 95 percent (specialization ratio). In 1987, the specialization ratio also was 95 percent.

Establishments in this industry also accounted for 98 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 98 percent.

The products primary to industry 3273, no matter in what industry they were produced, appear in table 6a and aggregate to \$10.9 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the ready-mixed concrete industry amounted to \$6.7 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 21 percent of the total value of shipments.

INDUSTRY 3274, LIME

This industry is made up of establishments primarily engaged in manufacturing quicklime, hydrated lime, and "dead-burned" dolomite from limestone, dolomite shells, or other substances.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3274, Lime, had employment of 5.6 thousand. The employment figure was 2 percent below the 5.7 thousand reported in 1987.

The leading States in employment in 1992 were Missouri, Ohio, Pennsylvania, and Texas. This represents a shift from 1987 when Kentucky, Missouri, Pennsylvania, and Texas were the leading States.

The total value of shipments for establishments classified in this industry was \$903.7 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3274 shipped \$800.2 million of lime considered primary to the industry, \$89.0 million of secondary products, and had \$14.4 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 90 percent (specialization ratio). In 1987, the specialization ratio also was 90 percent.

Establishments in this industry also accounted for 94 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 90 percent.

The products primary to industry 3274, no matter in what industry they were produced, appear in table 6a and aggregate to \$851.0 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the lime industry amounted to \$446.2 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of the total value of shipments.

INDUSTRY 3275, GYPSUM PRODUCTS

This industry is made up of establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum, except articles of plaster of paris and papier mache.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3275, Gypsum Products, had employment of 10.5 thousand. The employment figure was 13 percent below the 12.1 thousand reported in 1987.

The leading States in employment in 1992 were California, lowa, Florida, and Texas, accounting for approximately 32 percent of the industry's employment. This represents a shift from 1987 when California, Indiana, Iowa, and Texas accounted for approximately 34 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3275 shipped \$1.9 billion of gypsum products considered primary to the industry, \$87.2 million of secondary products, and had \$79.2 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 96 percent (specialization ratio). In 1987, the specialization ratio was 97 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 98 percent.

The products primary to industry 3275, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.9 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the gypsum products industry amounted to \$1.3 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of the total value of shipments.

INDUSTRY 3281, CUT STONE AND STONE PRODUCTS

This industry is made up of establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order are classified in Division F, Wholesale Trade, or Division G, Retail Trade. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B, Mining.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 3281, Cut Stone and Stone Products, had employment of 12.3 thousand. The employment figure was 2 percent below the 12.5 thousand reported in 1987.

The leading States in employment in 1992 were Minnesota, Georgia, and Vermont, accounting for approximately 35 percent of the industry's employment. This represents a shift from 1987 when Georgia, Vermont, Texas, and Minnesota were the leading States.

The total value of shipments for establishments classified in this industry was \$1.0 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3281 shipped \$921.7 million of cut stone and stone products considered primary to the industry, \$17.9 million of secondary products, and had \$71.8 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 98 percent (specialization ratio). In 1987, the specialization ratio also was 98 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 98 percent.

The products primary to industry 3281, no matter in what industry they were produced, appear in table 6a and aggregate to \$948.5 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the cut stone and stone products industry amounted to \$407.1 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 18 percent of the total value of shipments.

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years

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

[Excludes data for	auxiliaries.			1					n or terms, see	appendixes					
		All establi	ishments ³	All emp	loyees	Pro	duction wor	kers				New	End-of-	Rat	tios
Year ¹			With 20 employ-						Value added by manufac-	Cost of	Value of	capital expend-	year inven-	Spe- ciali-	Cover-
	Com- panies ²	Total	ees or more	Number	Payroll (million	Number	Hours	Wages (million	ture ⁴ (million	materials ⁵ (million	shipments (million	itures ⁶ (million	tories ⁴ (million	zation ⁷ (per-	age ⁸ (per-
	(no.)	(no.)	(no.)	(1,000)	dollars)	(1,000)	(millions)	dollars)	dollars)	dollars)	dollars)	dollars)	dollars)	cent)	cent)
									TE BLOCK A						
1992 Census 1991 ASM	887 (NA) (NA)	1 071 (NA) (NA)	290 (NA)	16.4 17.8 18.3	429.9 461.8 438.9	9.2 9.9 10.5	20.3 22.4 22.0	208.5 225.5	1 030.8 1 064.2 1 134.3	1 025.1 1 072.6	2 051.1 2 143.8 2 304.0	57.3 48.8 65.9	287.3 286.4	92 (NA) (NA)	88 (NA)
1990 ASM 1989 ASM 1988 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	18.7 18.3	438.9 432.0 433.2	10.5 10.4 10.4	22.0 22.2 22.9	214.1 211.1 222.3	1 087.9 1 125.3	1 162.5 1 194.5 1 207.3	2 282.1 2 338.8	75.1 39.5	287.7 266.4 270.9	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)
1987 Census	975	1 128	339	18.6	411.6	10.8	23.5 20.0	216.0	1 071.4	1 185.5 1 080.1	2 245.8		252.1 222.0	94	88
1986 ASM 1985 ASM 1984 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	16.1 16.0 16.2	337.1 311.0 297.2	9.4 9.5 9.7	20.0 18.8 18.9	173.1 158.2 148.8	922.0 771.9 746.1	936.9 894.5	1 989.4 1 689.7 1 632.2	72.0 70.6 72.5 56.4	203.7 199.4	(NA) (NA)	(NA) (NA) (NA) (NA)
1983 ASM	(NA) 1 039	(NA) 1 155	(NA) 251	15.9	282.4 261.9	9.5 9.1	17.9 17.8	141.8	731.1 577.8	858.5 718.4	1 581.9 1 301.8	107.9	217.6 198.3	(NA) (NA) 95	(NA) 87
1982 Census 1981 ASM 1980 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	17.8 18.7	280.2 291.6	9.9 10.9	18.5 20.2	133.0 141.6	592.5 652.3	813.9 883.2	1 404.2 1 524.1	74.4 134.6	197.8 191.2	(NA)	(NA) (NA)
1979 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	19.3 20.4	267.2 266.0 237.1	12.3 13.0	23.4 25.9	143.8 144.0	587.6 650.9	947.0 751.2 627.7	1 494.6 1 391.5	149.7 81.4	178.0 145.4	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)
1977 Census	1 162	1 273	348	18.7	237.1	11.8	24.1 TDV 3272	126.6	520.3 TE PRODUC		1 143.8	55.6	124.0	93	85
1992 Census	2 606	3 113	888	58.9	1 513 3		90.9	947.9		2 581.7	5 934.2	171.9	696.4	98	96
1991 ASM 1990 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	61.0 68.3	1 513.3 1 406.8 1 524.4	42.7 45.0 51.5	95.4 107.6	914.4 1 019.5	3 353.5 3 226.5 3 504.2	2 676.7 2 876.1	5 917.1 6 366.5	153.4 219.9	698.5 754.0	(NA) (NA)	(NA) (NA) (NA) (NA)
1989 ASM 1988 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	73.0 71.5	1 572.9 1 550.3	54.9 53.4	114.1 115.0	1 053.6 1 048.5	3 687.7 3 453.3	2 921.4 2 736.1	6 554.6 6 144.8	260.3 131.5	725.1 736.5	(NA) (NA)	(NA) (NA)
1987 Census 1986 ASM	2 687 (NA)	3 154 (NA)	922 (NA)	70.0 59.7	1 467.2 1 181.3	53.1 46.1	112.7 93.9	993.2 798.7	3 313.1 2 736.7	2 540.9 2 227.6 1 990.5	5 828.4 4 931.2	194.1 137.4 212.2	686.9 529.7	97 (NA)	97 (NA)
1985 ASM 1984 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	57.4 57.4	1 109.6 1 061.1	43.9 43.2	89.9 87.9	754.8 704.9	2 540.7 2 276.8	1 991.4	4 509.8 4 194.2	145.1	526.0 525.7	(NA) (NA)	(NA) (NA) (NA) (NA)
1983 ASM 1982 Census	(NA) 2 750	(NA) 3 173	(NA) 729	54.2 55.7	960.0 961.7	41.3 42.5	83.8 84.8	638.0 649.2	2 099.9 2 006.4 2 066.7	1 666.9 1 627.7	3 719.2 3 649.2 3 839.3	112.9 127.7	482.8 443.3 445.2	(NA) 97	(NA) 95
1981 ASM 1980 ASM 1979 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	61.7 62.2	975.3 909.1	47.4 47.4 52.4	96.8 96.7	656.7 607.7	2 066.7 2 043.4 2 033.2	1 788.8 1 708.2 1 687.4	3 839.3 3 709.4 3 674.7	197.0 235.1 172.3	435.7	(NA) (NA)	95 (NA) (NA) (NA) (NA)
1978 ASM 1977 Census	(NA) (NA) 3 475	(NA) (NA) 3 916	(NA) (NA) 862	68.0 63.6 61.7	914.2 808.9 734.9	49.7 48.1	106.9 99.5 96.0	631.5 555.4 494.5	1 740.9 1 529.3	1 478.5 1 234.1	3 193.9 2 736.2	172.3 142.2 134.4	431.9 435.7 389.7	(NA) (NA) 96	(NA) (NA) 95
									-MIXED COI						
1992 Census	3 248	5 254	1 362	82.4	2 291.5 2 243.1	60.9	129.2	1 577.7	5 342.5	6 662.4	12 009.9	313.0	424.7	95	98
1991 ASM 1990 ASM 1989 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	86.1 91.8 93.0	2 353.2 2 279.7	62.8 70.4 70.9	138.3 152.7 148.2	1 545.7 1 685.3 1 630.0	5 169.7 5 633.5 5 792.8	6 520.7 7 197.9 7 057.6	11 681.2 12 829.6 12 860.3	263.6 470.8 491.3	429.4 433.9 407.4	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)
1988 ASM 1987 Census	(NA) 3 749	(NA) 5 319	(NA) 1 531	93.2 96.8	2 280.3 2 287.2	68.8 73.8	135.2 154.8	1 609.8 1 638.6	5 715.2 5 728.9	7 179.0 7 254.7	12 884.0 12 966.3	338.0 479.3	442.7 438.4	(NA) 95	(NA) 98
1986 ASM 1985 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	81.6 83.5	1 874.0 1 785.7	62.9 66.2	133.3 135.0	1 343.5 1 292.6	4 553.0 4 249.0	6 058.0 5 843.2	10 614.3 10 087.9	378.0 459.4	363.8 358.7	(NA) (NA)	(NA) (NA) (NA) (NA)
1984 ASM 1983 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	83.3 83.8	1 728.8 1 602.0	65.2 63.1	133.8 126.6	1 240.7 1 092.9	4 041.8 3 635.0	5 658.6 5 394.0	9 675.6 9 025.7	398.5 284.5	355.4 378.9	(NA) (NA)	(NA) (NA)
1982 Census 1981 ASM	4 161 (NA)	5 379 (NA)	1 239 (NA)	81.4 85.8	1 475.3 1 603.5	60.4 69.3	118.5 137.2	1 005.3 1 089.4	3 282.1 3 641.6	4 877.6 5 326.3	8 163.3 8 983.2	282.4 393.9 438.1	333.5 347.6	95 (NA) (NA)	98 (NA)
1980 ASM 1979 ASM 1978 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	92.0 98.0 92.5	1 568.8 1 541.6 1 368.6	71.2 76.0 67.4	141.2 151.2 135.8	1 032.5 1 010.8 884.7	3 632.5 3 744.1 3 281.7	5 195.1 5 235.3 4 477.7	8 810.1 8 962.2 7 756.3	438.1 479.2 523.2	338.2 271.8 259.6	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)
1977 Census	4 317	5 433	1 357	87.9	1 175.8	62.0	135.8 125.3	766.6	2 693.2	3 757.0	6 440.6	353.1	231.5	93	98
								OUSTRY 3	-						
1992 Census 1991 ASM	57 (NA) (NA)	88 (NA)	(NA)	5.6 4.4 4.7	171.4 148.0	4.3 3.3	9.6 7.4	121.3 103.4	461.1 411.5	446.2 299.8	903.7 715.4	47.9 66.4	104.9 80.6	90 (NA) (NA)	94 (NA) (NA)
1990 ASM 1989 ASM 1988 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	6.5 5.7	148.4 168.6 150.7	3.7 5.0 4.6	8.7 10.3 9.6	111.7 115.9 113.9	422.5 430.9 418.0	300.6 385.0 413.9	719.8 812.2 830.6	43.7 41.7 28.0	81.1 73.7 73.1	(NA) (NA) (NA)	(NA) (NA) (NA)
1987 Census 1986 ASM	56 (NA)	82 (NA)	56 (NA)	5.7 5.8	141.9 136.5	4.5 4.6	9.4 9.3	103.6 101.7	350.4 318.0	364.5 351.8	715.5 670.9	33.0 38.8	72.6 72.2	90 (NA)	90 (NA)
1985 ASM 1984 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	5.8 5.6	133.2 121.1	4.6 4.5	9.6 9.2	100.4 91.0	316.5 295.1	359.2 347.6	675.8 642.3	70.1 72.9	75.7 80.2	(NA) (NA)	(NA) (NA)
1983 ASM 1982 Census	(NA) 59	(NA) 87	(NA) 59	5.2 5.6	109.9 108.6	4.1 4.4	8.4 8.5	81.1 79.4	250.6 245.0	305.6 298.2	557.7 543.2	20.9 36.0	72.9 66.4	(NA) 89	(NA) 92
1981 ASM 1980 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	6.5 6.4	116.5 99.9	5.1 5.0	10.2 10.2	85.5 76.2	298.3 282.9	359.0 316.9	653.5 598.8	56.7 69.7	62.1 51.5	(NA) (NA)	(NA) (NA)
1979 ASM 1978 ASM 1977 Census	(NA) (NA) 64	(NA) (NA) 94	(NA) (NA) 63	6.6 6.5 5.9	98.4 97.0 75.4	5.3 5.4 4.8	11.1 11.2 9.8	75.9 74.4 59.4	284.1 260.2 218.2	322.4 317.7 264.8	604.2 577.3 484.2	38.3 62.7 29.7	53.3 54.2 47.2	(NA) (NA) 92	(NA) (NA) 92
1077 0011040 111	04	04		0.0	70.4				PSUM PRODI		101.2	20.7	77.2		
1992 Census	80	152	95	10.5	329.0	8.3	19.0	242.0	793.3	1 283.9	2 075.9	43.8	140.7	96	99
1991 ASM 1990 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	10.3 11.5	311.6 341.0	8.1 9.1	17.8 20.5	228.4 251.5	759.8 967.0	1 232.6 1 404.9	2 008.3 2 375.1	34.2 68.1	145.7 150.1	(NA) (NA)	(NA) (NA)
1989 ASM 1988 ASM	(NA) (NA)	(NA) (NA)	(NA) (NA)	11.3 11.4	332.9 313.4	9.0 9.2	20.7 21.4	248.5 235.5	1 075.3 1 076.9	1 332.1 1 300.9	2 408.0 2 378.5	53.6 57.0	133.3 123.0	(NA) (NA)	(NA) (NA)
1987 Census 1986 ASM 1985 ASM	80 (NA) (NA)	152 (NA) (NA)	97 (NA) (NA)	12.1 11.1 10.6	324.3 290.6 262.6	9.6 8.8	22.5 20.6 19.2	242.5 219.2 199.3	1 331.4 1 392.4 1 249.5	1 347.5 1 221.8 1 263.0	2 670.9 2 619.0 2 511.7	88.1 139.3 107.7	130.2 121.5 121.1	97 (NA) (NA)	98 (NA) (NA)
1985 ASM 1984 ASM 1983 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	10.6 10.3 9.4	262.6 241.0 211.5	8.4 8.2 7.5	19.2 18.5 16.8	185.4 164.3	1 249.5 1 009.3 722.2	1 263.0 1 173.5 974.5	2 176.4 1 709.7	59.4 34.5	121.1 124.4 97.8	(NA) (NA) (NA)	(NA) (NA) (NA)
1982 Census 1981 ASM	70 (NA)	139 (NA)	84 (NA)	9.1 9.7	186.9 184.1	7.1 7.5	15.5 16.6	138.9 137.1	492.1 512.9	809.2 801.2	1 289.2 1 313.9	85.5 124.6	110.4 103.0	93 (NA)	98 (NA)
1980 ASM 1979 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	9.7 9.9 10.7	180.2 185.1	7.5 7.8 8.6	17.5 19.9	135.7 143.8	512.9 584.8 790.8	763.6 773.0	1 342.1 1 554.7	99.4 72.8	103.0 107.1 95.4	(NA) (NA) (NA)	(NA) (NA) (NA)
-	()		(· ·· ·)											/ .	,

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years—Con.

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

		All establi	shments ³	All em	ployees	Pro	duction wor	kers						Rat	tios
Year ¹	Companies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
						INDU	STRY 32	75, GYPSU	M PRODUCT	FS —Con.					
1978 ASM	(NA)	(NA)	(NA)	10.4	170.9	8.4	18.9	132.2	720.8	675.4	1 394.8	44.9	83.4	(NA)	(NA)
1977 Census	58	128	81	9.5	143.6	7.6	17.3	111.5	429.6	565.6	1 000.0	31.9	72.4	96	98
					ı	NDUSTR	′ 3281, C	UT STONE	AND STON	E PRODUCT	S				
1992 Census	901	921	161	12.3	284.4	9.5	19.3	205.8	607.4	407.1	1 011.3	36.9	156.4	98	97
1991 ASM	(NA)	(NA)	(NA)	12.2	267.1	9.5	18.6	191.3	582.0	371.5	956.3	27.5	119.2	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	13.9	297.0	10.6	20.5	198.8	575.3	430.4	988.8	38.4	161.5	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	13.3	281.0	10.2	20.2	188.0	550.0	395.3	934.9	40.6	126.9	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	13.0	257.7	9.9	19.7	170.9	518.7	380.8	890.1	31.4	117.8	(NA)	(NA)
1987 Census	731	746	167	12.5	243.0	10.0	19.8	173.7	450.5	385.8	840.8	30.6	105.5	98	98
1986 ASM	(NA)	(NA)	(NA)	11.2	198.9	8.8	17.6	147.5	375.5	317.5	683.0	33.2	79.5	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	11.2	199.5	8.9	17.4	148.9	352.8	317.0	674.3	30.5	74.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.3	187.3	8.9	16.7	139.4	344.3	275.2	626.3	27.9	71.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	10.2	158.3	8.5	16.3	120.7	302.1	266.7	570.0	7.0	71.3	(NA)	(NA)
1982 Census	698	711	132	10.5	155.9	8.5	16.5	118.5	295.2	259.0	555.4	23.9	70.0	97	98
1981 ASM	(NA)	(NA)	(NA)	12.0	157.0	10.1	20.5	121.3	292.7	236.6	528.7	16.6	68.2	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	13.0	155.8	10.9	22.0	118.8	289.6	221.1	504.0	11.5	67.9	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	13.3	147.0	11.2	22.4	113.1	283.9	201.5	479.8	13.1	58.2	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	13.7	154.4	11.3	23.2	118.4	300.8	204.2	505.9	23.2	60.6	(NA)	(NA)
1977 Census	963	993	164	12.7	131.5	10.6	21.4	98.8	238.2	157.5	393.0	10.4	53.8	96	95

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1977, see 1977 Census of Manufactures, vol. II, table 1 of the industry

Table 1b. Selected Operating Ratios for the Industry: 1992 and Earlier Years

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

[,	,		-,			
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
			ı	NDUSTRY 3271	, CONCRETE B	LOCK AND BRI	CK		
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	26 213 25 944 23 984 23 102 23 672	56 56 57 56 57	2 207 2 263 2 095 2 135 2 202	10.27 10.07 9.73 9.51 9.71	50 50 50 52 52	71 72 70 71 70	62 854 59 787 61 984 58 176 61 492	42 43 39 40 38	50.78 47.51 51.56 49.00 49.14
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	22 129 20 938 19 438 18 346 17 761	58 58 59 60 60	2 176 2 128 1 979 1 948 1 884	9.19 8.66 8.41 7.87 7.92	53 54 55 55 55 54	71 71 74 73 72	57 602 57 267 48 244 46 056 45 981	38 37 40 40 39	45.59 46.10 41.06 39.48 40.84
1982 Census	16 897 15 742 15 594 13 845 13 039 12 679	59 56 58 64 64 63	1 956 1 869 1 853 1 902 1 992 2 042	7.51 7.19 7.01 6.15 5.56 5.25	55 58 58 63 54 55	75 78 77 81 73 76	37 277 33 287 34 882 30 446 31 907 27 824	45 47 45 45 41 46	32.46 32.03 32.29 25.11 25.13 21.59
				INDUSTRY 3272	2, CONCRETE P	RODUCTS, N.E.	C.		
1992 Census	25 693 23 062 22 319 21 547 21 683	72 74 75 75 75	2 129 2 120 2 089 2 078 2 154	10.43 9.58 9.47 9.23 9.12	44 45 45 45 45 45	69 69 69 69 70	56 935 52 893 51 306 50 516 48 298	45 44 44 43 45	36.89 33.82 32.57 32.32 30.03
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	20 960 19 787 19 331 18 486 17 712	76 77 76 75 76	2 122 2 037 2 048 2 035 2 029	8.81 8.51 8.40 8.02 7.61	44 45 44 47 45	69 69 69 73 71	47 330 45 841 44 263 39 666 38 744	44 43 44 47 46	29.40 29.14 28.26 25.90 25.06
1982 Census	17 266 15 807 14 616 13 444 12 719 11 911	76 77 76 77 78 78	1 995 2 042 2 040 2 040 2 002 1 996	7.66 6.78 6.28 5.91 5.58 5.15	45 47 46 46 46 45	71 72 71 71 71 72 72	36 022 33 496 32 852 29 900 27 373 24 786	48 47 44 45 46 48	23.66 21.35 21.13 19.02 17.50 15.93

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MANUFACTURES-INDUSTRY SERIES

chapter.

2For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

3Includes establishments with payroll at any time during the year.

4Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years when respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior-year data.

5Cost of materials is the sum of five components: the cost of (1) parts used in the manufacture of finished goods (materials, parts, containers, and supplies incorporated into products or otherwise directly consumed in the process); (2) purchased items later resold without further manufacture; (3) fuels; (4) electricity; and (5) commissions or fees to outside parties for contract manufacturing. A separate cost for each of the five components is shown in table 3a. Detailed data on materials consumed by type, are shown in table 7.

6Detailed data on new machinery and equipment expenditures are provided in table 3c.

7Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in the industry.

6Represents ratio of primary products shipments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

Table 1b. Selected Operating Ratios for the Industry: 1992 and Earlier Years—Con.

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

[Excludes data for auxilial	nes. For meaning	or appreviations and	symbols, see intro	ductory text. For	explanation of term	s, see appendixes			
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTRY 32	273, READY-MIX	ED CONCRETE			
1992 Census	27 809	74	2 122	12.21	55	75	64 836	43	41.35
	26 052	73	2 202	11.18	56	75	60 043	43	37.38
	25 634	77	2 169	11.04	56	74	61 367	42	36.89
	24 513	76	2 090	11.00	55	73	62 288	39	39.09
	24 467	74	1 965	11.91	56	73	61 322	40	42.27
1987 Census	23 628	76	2 098	10.59	56	74	59 183	40	37.01
	22 966	77	2 119	10.08	57	75	55 797	41	34.16
	21 386	79	2 039	9.57	58	76	50 886	42	31.47
	20 754	78	2 052	9.27	58	76	48 521	43	30.21
	19 117	75	2 006	8.63	60	78	43 377	44	28.71
1982 Census	18 124	74	1 962	8.48	60	78	40 321	45	27.70
	18 689	81	1 980	7.94	59	77	42 443	44	26.54
	17 052	77	1 983	7.31	59	77	39 484	43	25.73
	15 731	78	1 989	6.69	58	76	38 205	41	24.76
	14 796	73	2 015	6.51	58	75	35 478	42	24.17
	13 377	71	2 021	6.12	58	77	30 639	44	21.49
				IN	DUSTRY 3274, I	LIME		•	
1992 Census	30 607	77	2 233	12.64	49	68	82 339	37	48.03
	33 636	75	2 242	13.97	42	63	93 523	36	55.61
	31 574	79	2 351	12.84	42	62	89 894	35	48.56
	25 938	77	2 060	11.25	47	68	66 292	39	41.83
	26 439	81	2 087	11.86	50	68	73 333	36	43.54
1987 Census	24 895 23 534 22 966 21 625 21 135	79 79 79 80 79	2 089 2 022 2 087 2 044 2 049	11.02 10.94 10.46 9.89 9.65	51 52 53 54 55	71 73 73 73 73 75	61 474 54 828 54 569 52 696 48 192	40 43 42 41 44	37.28 34.19 32.97 32.08 29.83
1982 Census	19 393	79	1 932	9.34	55	75	43 750	44	28.82
	17 923	78	2 000	8.38	55	73	45 892	39	29.25
	15 609	78	2 040	7.47	53	70	44 203	35	27.74
	14 909	80	2 094	6.84	53	70	43 045	35	25.59
	14 923	83	2 074	6.64	55	72	40 031	37	23.23
	12 780	81	2 042	6.06	55	70	36 983	35	22.27
				INDUSTRY	3275, GYPSUN	PRODUCTS			
1992 Census	31 333	79	2 289	12.74	62	78	75 552	41	41.75
	30 252	79	2 198	12.83	61	77	73 767	41	42.69
	29 652	79	2 253	12.27	59	74	84 087	35	47.17
	29 460	80	2 300	12.00	55	69	95 159	31	51.95
	27 491	81	2 326	11.00	55	68	94 465	29	50.32
1987 Census	26 802	79	2 344	10.78	50	63	110 033	24	59.17
	26 180	79	2 341	10.64	47	58	125 441	21	67.59
	24 774	79	2 286	10.38	50	61	117 877	21	65.08
	23 398	80	2 256	10.02	54	65	97 990	24	54.56
	22 500	80	2 240	9.78	57	69	76 830	29	42.99
1982 Census	20 538	78	2 183	8.96	63	77	54 077	38	31.75
	18 979	77	2 213	8.26	61	75	52 876	36	30.90
	18 202	79	2 244	7.75	57	70	59 071	31	33.42
	17 299	80	2 314	7.23	50	62	73 907	23	39.74
	16 433	81	2 250	6.99	48	61	69 308	24	38.14
	15 116	80	2 276	6.45	57	71	45 221	33	24.83
			IND	USTRY 3281, C	UT STONE AND	STONE PROD	UCTS		
1992 Census	23 122	77	2 032	10.66	40	68	49 382	47	31.47
	21 893	78	1 958	10.28	39	67	47 705	46	31.29
	21 367	76	1 934	9.70	44	74	41 388	52	28.06
	21 128	77	1 980	9.31	42	72	41 353	51	27.23
	19 823	76	1 990	8.68	43	72	39 900	50	26.33
1987 Census	19 440	80	1 980	8.77	46	75	36 040	54	22.75
	17 759	79	2 000	8.38	46	76	33 527	53	21.34
	17 813	79	1 955	8.56	47	77	31 500	57	20.28
	16 575	79	1 876	8.35	44	74	30 469	54	20.62
	15 520	83	1 918	7.40	47	75	29 618	52	18.53
1982 Census	14 848	81	1 941	7.18	47	75	28 114	53	17.89
	13 083	84	2 030	5.92	45	74	24 392	54	14.28
	11 985	84	2 018	5.40	44	75	22 277	54	13.16
	11 053	84	2 000	5.05	42	73	21 346	52	12.67
	11 270	82	2 053	5.10	40	71	21 956	51	12.97
	10 354	83	2 019	4.62	40	74	18 756	55	11.13

Note: For qualifications of data, see footnotes on table 1a.

Table 2. Industry Statistics for Selected States: 1992 and 1987

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

-							199	2			· ·			1987
		All establ	ishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E ¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend-itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 3271, CONCRETE BLOCK AND BRICK														
United States	E1	1 071	290	16.4	429.9	9.2	20.3	208.5	1 030.8	1 025.1	2 051.1	57.3	18.6	1 071.4
AlabamaArizonaArkanasa	E1 - -	23 27 17	6 12 2	E E .2 G	(D) (D) 3.7	(D) (D) .1	(D) (D) .3	(D) (D) 2.1	(D) (D) 8.4	(D) (D) 7.3	(D) (D) 15.3	1.2 2.7 .3	.4 F (NA)	15.7 (D) (NA)
CaliforniaColorado	E2	74 12	24 3	.2	(D) 4.4	(D) .1	(D) .2	(D) 2.0	(D) 10.3	(D) 9.0	(D) 19.5	(D) (D)	(NA)	(D) (D)
Connecticut	E2 E2 E1	11 71 28 33 26	2 11 6 10 11	C F .4 .5 F	(D) (D) 9.2 14.9 (D)	(D) (D) .2 .3 (D)	(D) (D) .6 .7 (D)	(D) (D) 4.7 7.5 (D)	(D) (D) 23.1 32.9 (D)	(D) (D) 21.8 29.9 (D)	(D) (D) 45.5 62.0 (D)	(D) (D) .6 1.1 (D)	2 F 9 5 F	14.5 (D) 46.8 26.7 (D)
lowa Kentucky Maine Maryland Massachusetts	E1 - E3	14 23 6 19 23	1 4 2 8 3	CE1EC	(D) (D) 3.3 (D) (D)	(D) (D) (Z) (D) (D)	(D) (D) .1 (D) (D)	(D) (D) 1.1 (D) (D)	(D) (D) 6.6 (D) (D)	(D) (D) 7.6 (D) (D)	(D) (D) 14.2 (D) (D)	.7 2.4 (D) (D) (D)	(NA) E (NA) F E	(D) (D) (NA) (D) (D)
Michigan Minnesota	E1	56 34	12 9	.8	20.5 18.5	.3	.7 .9	7.1 11.7	47.3 47.3	46.9 32.9	94.0 78.4	(D) 2.1	F .5	(D) 26.1
Missouri Nebraska Nevada	E3 E4	20 6 6	9 3 5	5 E O O	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) .9	.3 (NA) (NA)	20.1 (NA) (NA)
New Jersey New Mexico New York North Carolina	E1 E2	28 8 58 37	12 2 10 9	F C F .6	(D) (D) (D) 13.7	(D) (D) (D)	(D) (D) (D)	(D) (D) (D) 6.5	(D) (D) (D) 22.4	(D) (D) (D) 49.4	(D) (D) (D) 72.1	1.6 (D) (D)	F (NA) F .9	(D) (D) (D) 46.8
Ohio	E1 E1 E1 E1	49 12 91 16 38	15 2 23 5 14	.7 .1 1.5 E F	20.0 3.8 35.4 (D) (D)	.4 .1 1.0 (D) (D)	.8 .2 2.0 (D) (D)	9.2 2.0 19.8 (D) (D)	48.2 11.9 93.2 (D) (D)	54.0 12.2 79.7 (D) (D)	102.1 24.4 173.3 (D) (D)	(D) .4 4.0 (D) (D)	.8 (NA) 1.3 .4 F	50.1 (NA) 73.9 17.3 (D) 46.2
Texas	E2 E1 - E3	44 9 32 11 16	16 3 10 3 3	.8 .2 .5 .2	18.7 4.9 12.7 5.4 4.4	.4 .1 .3 .1	1.0 .3 .7 .2 .3	8.5 2.9 6.6 2.7 2.1	44.8 7.9 33.0 15.6 10.2	53.5 13.9 39.4 9.8 12.1	96.9 21.4 72.3 24.3 22.4	2.5 (D) (D) (D)	1.0 (NA) F .2 E	46.2 (NA) (D) 9.1 (D)
INDUSTRY 3272, CONCRETE PRODUCTS, N.E.C.	_	26	8	.4	13.7	.2	.6	6.3	34.0	31.3	65.4	2.6	.4	23.6
United States	E1	3 113 81	888	58.9	1 513.3 22.7	42.7	90.9 2.0	947.9	3 353.5	2 581.7 48.3	5 934.2	171.9	70.0	3 313.1 54.0
AlabamaArizonaArixonaArkansasCaliforniaColorado	E1 E1 E1	47 39 244 50	16 15 10 94 16	1.1 1.1 .5 5.8 1.4	31.0 10.7 170.1 36.8	.9 .8 .3 4.3 1.1	2.0 1.7 .8 8.9 2.3	15.6 19.8 6.4 108.1 22.3	48.6 75.1 25.4 361.8 102.5	48.3 60.7 13.5 368.5 73.4	96.8 135.2 38.4 736.1 175.5	1.8 (D) 1.2 24.3 4.0	1.4 1.5 .5 7.4 1.4	69.2 22.6 459.8 48.3
Connecticut Delaware Florida Georgia Hawaii		45 9 234 118 16	12 5 79 40 5	.8 C 5.1 2.3 .3	29.4 (D) 120.0 50.4 12.7	.6 (D) 3.7 1.7	1.3 (D) 8.0 3.5 .5	18.7 (D) 74.7 32.4 7.6	57.8 (D) 253.7 120.5 33.0	39.5 (D) 204.0 82.2 24.2	97.0 (D) 459.2 201.5 56.9	2.6 .7 13.1 5.2 (D)	1.3 (NA) 7.2 2.7 .2	80.4 (NA) 286.8 100.0 16.5
Idaho Illinois Indiana Iowa	-	14 120 108 63	1 35 19 15	.1 2.3 1.4 .9	2.8 69.1 38.3 22.1	.1 1.6 1.0 .7	.2 3.4 2.1 1.5	1.9 42.7 23.9 14.7	5.9 139.6 73.7 53.9	5.4 110.6 53.4 34.1	11.4 246.0 127.1 87.1	.5 8.7 4.3 2.2	(NA) 2.3 1.3 F	(NA) 122.7 60.0 (D) 31.3
Kansas	E2 - -	34 56 48 17 45 57	11 14 13 7 12	.6 1.0 .3 1.0	14.3 17.9 22.4 7.8 23.4	.5 .6 .7 .2 .7	1.0 1.2 1.5 .4 1.4	9.7 11.2 11.8 3.6 16.3	33.8 43.0 55.6 22.9 47.1	22.5 32.8 35.8 10.5 42.9	56.5 74.3 88.4 32.6 93.0	3.4 (D) 6.1 (D) 2.7	.7 .9 E 1.5	28.3 30.6 (D) 86.8
Massachusetts Michigan Minnesota Mississippi Missouri Montana	E2 E1 -	100 79 29 82 18	13 22 21 12 17	1.0 1.4 1.6 .8 1.2	27.5 41.2 47.4 16.6 29.2 2.8	.7 .9 1.1 .6 .9	1.5 2.1 2.3 1.4 1.8 .2	17.5 24.6 28.1 11.5 18.9 2.0	62.9 83.6 112.4 47.3 63.6 6.4	43.2 83.9 67.1 35.4 42.7 5.9	106.5 168.1 178.7 83.2 106.2 12.2	3.8 5.1 5.4 (D) 3.8 .2	1.5 1.3 F 1.2 (NA)	74.9 86.0 77.0 (D) 47.1 (NA)
Nebraska Nevada New Hampshire New Jersey New Mexico	-	26 17 24 64 20	8 6 6 24 4	.7 .4 E 1.3	16.1 14.6 (D) 37.3 6.1	.6 .3 (D) 1.0	1.4 .8 (D) 2.1 .4	12.4 10.0 (D) 25.8 3.8	35.0 33.2 (D) 76.6 15.6	28.3 31.6 (D) 60.5 13.1	64.4 64.1 (D) 139.1 27.7	1.4 1.5 1.4 2.8 1.0	F .3 E 1.8	(D) 15.6 (D) 96.7 12.9
New York North Carolina North Dakota Ohio Oklahoma	E1 E1 - E2 E2	114 87 16 125 43	25 25 5 37 6	1.7 1.6 .3 2.4 .4	45.8 34.1 5.1 63.0 9.5	1.2 1.1 .2 1.7	2.5 2.3 .3 3.7 .7	26.4 20.5 3.3 37.7 6.4	102.1 77.2 13.1 132.5 24.6	66.5 51.2 7.1 89.0 16.1	167.2 127.9 20.3 223.4 39.9	4.9 2.3 (D) 4.7 (D)	1.8 G .2 2.9 F	92.7 (D) 14.0 156.8 (D)
Oregon Pennsylvania South Carolina South Dakota Tennessee	E3 E1 E1	40 164 37 10 70	12 48 9 3 23	.6 3.1 1.1 C 1.1	16.2 77.3 28.0 (D) 23.1	.4 2.3 .7 (D)	.9 4.7 1.5 (D) 1.6	10.0 49.8 13.7 (D) 13.8	42.6 162.5 50.1 (D) 54.8	29.3 137.1 46.7 (D) 32.7	72.1 296.0 96.7 (D) 86.0	2.2 8.8 1.6 (D) 2.2	.6 3.4 1.4 (NA) 1.3	30.5 156.3 69.5 (NA) 47.6

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[Excludes data for auxiliaries. States	WILI	i ioo emp	loyees of i	nore are s	nown. For n	nearing or	199		ibois, see intro	ductory text. F	or explanation	i or terms, s		1987
		All octabl	lishments	All om	ployees	Pro	duction wo							
Industry and geographic area	E ¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 3272, CONCRETE PRODUCTS, N.E.C.—Con.														
Texas	E1 E1 - E3 E1	194 22 11 86 65 17 89	60 6 2 31 15 4 23	4.1 .6 C 2.4 1.2 E 1.3	90.9 14.4 (D) 59.1 35.4 (D) 36.2	3.2 .4 (D) 1.7 .9 (D)	6.9 .9 (D) 3.5 1.8 (D) 2.0	61.7 9.3 (D) 35.3 21.8 (D) 22.3	208.2 26.1 (D) 122.4 80.5 (D) 90.6	155.8 24.7 (D) 84.0 56.6 (D) 57.0	364.3 50.8 (D) 207.3 136.3 (D) 147.2	10.6 1.7 (D) 4.9 4.1 (D) 4.9	6.4 .6 E 2.9 1.3 (NA) 1.3	269.8 23.8 (D) 116.6 63.6 (D) 69.0
INDUSTRY 3273, READY- MIXED CONCRETE														
Alabama Alaska Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Maryland Minnesota Mississippi Missouri Montana Nebraska Nevada Nevada New Hampshire New Jersey New Mexico New York North Carolina Norlo Alabada Norlo Alabada Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina	E1	89 177 80 80 436 436 436 436 436 436 436 436 436 436	1 362 19 3 8 16 153 27 8 8 50 7 100 66 39 25 5 27 20 33 28 89 5 27 20 33 28 40 61 61 63 99 5 5 27 20 33 20 33 20 30 30 30 40 40 40 40 40 40 40 40 40 4	82.4 1.3 2.2 1.8 9.9 8.5 1.7 5.5 4.7 2.5 5.3 3.4 2.0 1.7 1.6 6.3 3 1.2 2.4 1.5 8 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 1.0 2.2 2.4 2.6 3.3 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 6.2	2 291.5 29.9 6.5 40.9 19.6 281.9 52.6 19.4 (D) 116.1 58.1 (D) 13.5 18.1 60.5 46.0 27.2 38.3 34.0 9.1 40.1 39.8 79.5 43.2 21.3 55.7 11.1 17.3 31.9 56.9 9.1 18.1 101.2 28.4 29.4 29.4 29.4 29.4 29.4 29.4 29.4 29	60.9 1.0 1.1 1.3 7 62 1.2 4.4 .3 (D)) 3.5 1.9 (D) .4.6 1.5 1.3 3 1.1 1.8 1.7 1.1 1.8 1.7 2.0 2.0 2.0 2.1 1.1 4.8 2.0 4.1 4.8	2.1	1 577.7 20.3 4.3 4.3 28.7 13.3 197.6 32.4 13.0 6.3 (D) 81.1 10.3 84.7 43.0 30.7 31.1 25.5 50.9 27.2 15.0 37.2 7.5 13.6 26.1 10.8 63.5 39.9 20.9 20.9 20.9 20.9 20.9 20.9 20.9 2	\$ 342.5 82.8 16.8 100.9 48.9 599.5 121.3 41.3 23.2 (D) 300.2 158.8 (D) 26.4 247.9 154.2 103.1 393.6 72.6 21.9 87.3 87.0 186.2 93.1 155.0 115.0 28.8 44.7 64.9 114.1 46.5 236.8 134.5 134.9 14.1 46.5 236.8 134.5 64.2 107.2 107.2 107.2 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 107.3 1	87.4 87.4 18.1 122.1 60.7 819.5 146.6 53.5 20.0 (D) 465.3 207.0 (D) 32.7 310.9 168.8 133.3 79.7 117.5 106.1 24.3 114.2 92.9 195.0 105.1 61.9 148.1 32.0 68.8 76.6 22.3 145.8 49.0 254.9 176.3 72.0 231.4 13.4 87.1 17.9 108.7 529.3	170.11 35.00 224.6 109.9 1 420.9 1 420.9 43.2 (D) 762.3 66.7 (D) 59.1 59.1 178.8 46.7 202.3 180.0 380.7 198.5 117.1 263.1 60.8 116.3 141.7 263.1 312.0 29.1 546.7 140.5 126.3 141.8 24.1 152.9 29.5 196.9 914.2	313.0 7.1 (D) 5.5 5.1 3 6.9 0 (D) 9.7 4 14.9 5 13.5 7.5 8 4.9 4.9 4 10.7 2 11.4 6 10.8 2 10.8 2 10.8 3 10.6 7 4.8 2 10.8 2 10	96.8 1.4 4.3 1.1 9.7 1.8 8.8 (NA) 7.1 3.0 3.3 5.7 1.8 1.2 8.6 1.5 1.7 2.8 8.5 1.7 7.7 8 2.8 3.5 2.0 1.9 2.8 3.5 2.0 1.9 2.8 8.5 3.5	5 728.9 65.7 (D) 287.4 45.6 744.0 99.5 71.2 (D) (D) 392.6 155.8 36.7 22.4 262.3 125.1 65.1 53.0 78.6 81.7 30.9 99.2 120.3 201.4 89.1 136.8 18.8 18.8 18.8 18.8 18.8 18.8 18.8 1
Utah	E2 E1 - E3 E2	31 13 118 98 41 137 26	34 34 37 8 35 5	1.1 .2 1.9 2.1 .5 2.0 .3	33.1 7.0 49.5 65.7 12.8 58.3 8.8	.8 .1 1.4 1.6 .4 1.6 .3	2.0 .3 3.0 3.2 .8 3.2 .5	24.0 4.2 33.6 49.7 8.7 40.4 6.0	78.7 13.6 131.4 162.7 33.7 146.7 20.5	89.0 12.8 144.9 142.4 36.4 163.8 16.2	168.4 26.3 276.0 304.5 70.1 310.7 36.7	3.8 (D) 10.1 11.3 1.6 10.1 1.4	1.5 .4 2.8 1.9 .6 1.8 .4	73.5 26.3 169.6 121.8 32.9 109.0 12.9
United States	_	88	59	5.6	171.4	4.3	9.6	121.3	461.1	446.2	903.7	47.9	5.7	350.4
Alabama	- - - - - - - - - - - - - - - - - - -	888 7 2 2 1 1 3 3 2 2 2 2 2 9 8 8 4 4 6 7 7 5 5	6 2 1 1 2 2 2 2 2 2 2 7 5 5 6 4 4	5.6 .4 CCCCC CCEFC .6.6 C.5.EC	1/1.4 13.0 (D) (D) (D) (D) (D) (D) 19.6 19.5 (D) 14.2 (D)	3.3 (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	9.6 '(0)00000000000000000000000000000000000	8.9 (D) (D) (D) (D) (D) (D) (D) (D) 12.5 15.6 (D) 8.0 (D)	33.9 (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	446.2 46.1 (D) (D) (D) (D) (D) (D) (D) (D)	903.7 80.1 (D) (D) (D) (D) (D) (D) (D) (D) (D) 77.0 (D) 77.0 (D)	47.9 (0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	5.7 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	14.5 (NA) (NA) (NA) (NA) (D) (D) (D) (D) (NA) 42.5 (D) (NA) 21.8 (D) (NA)

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	in in the displayed of more are						199	2		<u> </u>	-			1987
		All establ	ishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 3275, GYPSUM PRODUCTS														
United States	-	152	95	10.5	329.0	8.3	19.0	242.0	793.3	1 283.9	2 075.9	43.8	12.1	1 331.4
Arkansas California Colorado Delaware Florida	E1 - -	3 21 2 1 11	2 13 1 1 4	E 1.2 C C .7	(D) 40.8 (D) (D) 22.8	(D) .9 (D) (D) .6	(D) 2.3 (D) (D) 1.4	(D) 29.8 (D) (D) 17.3	(D) 78.3 (D) (D) 57.3	(D) 174.9 (D) (D) 99.5	(D) 252.1 (D) (D) 156.0	(D) 6.7 (D) - 4.4	E 1.2 (NA) (NA) .8	(D) 179.3 (NA) (NA) 89.5
Georgia	- - - -	8 5 5 6 2	7 3 5 5 2	.5 C .6 .8 E	15.2 (D) 19.5 25.0 (D)	.4 (D) .5 .6 (D)	.8 (D) 1.2 1.5 (D)	11.1 (D) 15.4 19.1 (D)	42.1 (D) 74.4 63.2 (D)	67.6 (D) 73.0 85.6 (D)	109.6 (D) 146.9 148.8 (D)	.8 (D) 2.2 (D) (D)	.6 (NA) 1.1 .8 (NA)	59.5 (D) 86.9 74.4 (NA)
Louisiana Maryland Massachusetts Michigan Nevada	- - - -	3 3 1 6 4	2 2 1 4 3	C E C E .4	(D) (D) (D) (D) 12.4	(D) (D) (D) (D)	(D) (D) (D) (D) .7	(D) (D) (D) (D) 9.8	(D) (D) (D) (D) (D) 27.7	(D) (D) (D) (D) 38.3	(D) (D) (D) (D) 65.9	(D) (D) (D) 2.1 (D)	(NA) E (NA) .5 (NA)	(D) (D) (NA) 74.5 (D)
New Hampshire	- - - -	2 3 2 7 3	2 2 1 4 3	C C .6 .1	(D) (D) (D) 20.6 3.9	(D) (D) (D) .5	(D) (D) (D) 1.0	(D) (D) (D) 15.3 2.8	(D) (D) (D) 51.9 14.6	(D) (D) (D) 65.2 24.9	(D) (D) (D) 117.9 39.6	(D) (D) (D) (D) (D)	(NA) (NA) (NA) .7 (NA)	(NA) (D) (D) 82.8 (D)
Ohio Oklahoma Texas Utah Virginia Washington Wyoming		7 4 9 2 4 3 2	3 4 8 2 2 3 2	.5 .7 C E .3 C	16.1 13.5 21.5 (D) (D) 10.0 (D)	.4 .6 (D) (D) .2 (D)	1.0 .9 1.3 (D) (D) .4 (D)	12.2 10.0 16.0 (D) (D) 6.2 (D)	40.5 31.2 48.9 (D) (D) 26.4 (D)	55.3 40.5 79.6 (D) (D) 43.4 (D)	95.7 71.7 128.3 (D) (D) 70.1 (D)	(D) 1.0 1.9 (D) (D) (D) (D)	.8 .7 1.1 (NA) E .3 (NA)	63.0 64.2 100.0 (D) (D) 29.5 (D)
INDUSTRY 3281, CUT STONE AND STONE PRODUCTS														
United States	E1	921	161	12.3	284.4	9.5	19.3	205.8	607.4	407.1	1 011.3	36.9	12.5	450.5
Arizona	E2 E3 E1 E2	13 86 51 113 31	2 8 3 26 10	.1 .7 .3 1.5 F	4.0 16.5 6.5 30.2 (D)	.1 .6 .2 1.2 (D)	.3 1.2 .5 2.3 (D)	3.0 11.9 4.4 23.2 (D)	6.8 37.9 11.7 59.6 (D)	4.5 21.6 10.8 47.3 (D)	11.4 59.6 22.3 107.6 (D)	(D) 1.6 .7 3.2 (D)	(NA) F .2 1.8 E	(NA) (D) 5.9 56.7 (D)
Indiana	E4 E1 E7 E1	26 9 23 15 18	14 2 2 3 10	.8 C .2 .2 1.7	22.1 (D) 7.2 4.3 38.4	.6 (D) .2 .1 1.3	1.2 (D) .4 .2 2.5	16.2 (D) 5.3 2.2 28.3	31.8 (D) 14.5 6.3 118.9	25.4 (D) 14.9 4.3 46.5	57.3 (D) 27.6 10.4 165.6	.9 .1 .4 .4 (D)	F (NA) E (NA) G	(D) (NA) (D) (NA) (D)
Missouri New Hampshire New York North Carolina Ohio	E2 E3 E2 E2 E1	21 5 51 30 36	3 3 11 9 6	.1 .2 .5 F E	3.3 3.7 13.6 (D) (D)	.1 .4 (D) (D)	.2 .2 .8 (D) (D)	2.1 2.1 9.3 (D) (D)	4.7 9.0 25.8 (D) (D)	3.7 4.5 15.2 (D) (D)	8.2 13.7 41.2 (D) (D)	(D) (D) (D) (D) (D)	(NA) (NA) F F E	(NA) (NA) (D) (D)
Pennsylvania South Dakota Tennessee Texas Vermont Wisconsin	E4 E4 E1 - E1	35 3 27 72 66 16	4 2 3 7 16 5	E C .2 F 1.1	(D) (D) 4.4 (D) 27.5 4.0	(D) (D) .2 (D) .9	(D) (D) .3 (D) 1.8 .3	(D) (D) 2.9 (D) 20.7 2.4	(D) (D) 9.3 (D) 59.2 7.7	(D) (D) 7.7 (D) 54.8 5.9	(D) (D) 17.0 (D) 113.9 13.3	.3 (D) .4 1.8 4.7 .3	F (NA) (NA) G 1.3 (NA)	(D) (NA) (D) (D) 47.9 (D)

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

2Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees; one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 24,999 employees; H-2,500 to 4,999 employees; L-50,000 to 99,999 employees; M-100,000 employees or more.

Table 3a. Summary Statistics for the Industry: 1992

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

Item	Concrete block and brick (SIC 3271)	Concrete products, n.e.c. (SIC 3272)	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut stone and stone products (SIC 3281)
Companiesnumber_	887	2 606	3 248	57	80	901
All establishments number With 1 to 19 employees number With 20 to 99 employees number With 100 employees or more number	1 071	3 113	5 254	88	152	921
	781	2 225	3 892	29	57	760
	284	802	1 314	40	55	149
	6	86	48	19	40	12
Employment and labor costs: Employees	16.4	58.9	82.4	5.6	10.5	12.3
	519.5	1 906.8	2 825.5	220.0	405.1	357.8
	429.9	1 513.3	2 291.5	171.4	329.0	284.4
	89.6	393.4	534.0	48.6	76.1	73.4
	46.7	208.0	272.7	18.4	33.8	35.4
	42.9	185.5	261.3	30.2	42.3	38.0
Production workers: 1,000_ Average for year 1,000_ March 1,000_ May 1,000_ August 1,000_ November 1,000_	9.2	42.7	60.9	4.3	8.3	9.5
	8.9	41.4	57.5	4.3	8.3	9.7
	9.4	43.4	62.9	4.3	8.4	9.6
	9.6	44.5	63.9	4.3	8.4	9.4
	8.9	41.8	59.7	4.3	8.3	9.2
Hoursmillions_	20.3	90.9	129.2	9.6	19.0	19.3
Wagesmil dol	208.5	947.9	1 577.7	121.3	242.0	205.8
Cost of materials¹ mil dol_ Materials, parts, containers, etc., consumed² mil dol_ Resales mil dol_ Fuels mil dol_ Purchased electricity mil dol_ Contract work mil dol_	1 025.1	2 581.7	6 662.4	446.2	1 283.9	407.1
	634.9	2 036.2	5 964.8	194.7	1 001.1	271.5
	333.4	289.6	392.2	9.9	68.9	31.3
	27.5	56.1	152.4	167.8	141.1	6.3
	24.0	49.8	83.9	57.2	68.6	18.8
	5.3	150.1	69.1	16.6	4.2	79.1
Quantity of electric energy used for heat and power: Purchased mil kWh_ Generated less sold mil kWh_	363.3	731.9	1 275.5	1 133.6	1 194.6	286.0
	(D)	(D)	3.2	-	(D)	(D)
Total value of shipmentsmil dol	2 051.1	5 934.2	12 009.9	903.7	2 075.9	1 011.3
Value addedmil dol	1 030.8	3 353.5	5 342.5	461.1	793.3	607.4
Inventories by stage of fabrication: Beginning of 1992mil dol Finished goodsinid dol Work in processmil dol Materials and suppliesinid ol	282.8	701.3	434.8	95.8	142.1	152.7
	239.7	462.7	138.6	21.7	42.5	88.4
	3.1	65.9	14.1	9.5	8.9	26.6
	40.0	172.8	282.0	64.6	90.8	37.6
End of 1992 mil dol_ Finished goods mil dol_ Work in process mil dol_ Materials and supplies mil dol_	287.3	696.4	424.7	104.9	140.7	156.4
	245.1	470.7	135.2	24.3	43.9	90.1
	2.4	58.8	12.5	10.4	8.8	28.1
	39.7	166.9	277.0	70.2	88.0	38.2

Note: For qualifications of data, see footnotes on table 1a.

Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1992

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

ltem	Concrete block and brick (SIC 3271)	Concrete products, n.e.c. (SIC 3272)	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut stone and stone products (SIC 3281)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures¹ Used capital expenditures Retirements End of year	1 115.9	2 807.0	5 658.2	821.6	1 635.4	372.6
	57.3	171.9	313.0	47.9	43.8	36.9
	10.1	34.0	90.0	5.0	1.6	6.5
	12.4	69.9	185.5	27.8	14.3	12.4
	1 170.9	2 943.0	5 875.7	846.8	1 666.4	403.6
Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment:	216.6	606.0	777.4	130.8	438.3	75.6
	9.0	26.2	34.7	4.0	3.1	6.7
	.7	3.9	6.1	.2	.2	.1
	2.3	6.5	12.5	1.0	.3	1.6
	223.9	629.6	805.7	134.0	441.4	80.8
Beginning of year New capital expenditures¹ Used capital expenditures Retirements End of year	899.3	2 201.1	4 880.8	690.8	1 197.1	297.0
	48.3	145.6	278.3	44.0	40.6	30.2
	9.4	30.1	83.9	4.8	1.4	6.4
	10.1	63.4	173.0	26.8	14.0	10.8
	946.9	2 313.3	5 070.0	712.8	1 225.0	322.8
Depreciation charges during 1992: Total Buildings and other structures Machinery and equipment	101.6	190.1	463.6	46.7	87.7	30.6
	19.3	30.9	52.2	5.6	14.4	4.4
	82.3	159.3	411.4	41.1	73.3	26.2
Rental payments: Total Buildings and other structures Machinery and equipment	24.8	85.1	147.7	7.8	5.5	11.7
	13.3	42.3	75.3	2.6	2.3	7.0
	11.5	42.8	72.4	5.2	3.2	4.7

¹Data on new machinery and equipment expenditures by type are provided in table 3c.

¹Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c. ²Data on materials consumed by type are shown in table 7. Data on amount purchased or transferred from foreign sources are shown in table 3c.

Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1992

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

	Concrete bloc (SIC 32	k and brick 271)	Concrete pro (SIC 3	ducts, n.e.c. 272)	Ready-mixe (SIC	ed concrete 3273)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of— Buildings and other structures Response coverage ratio (percent) ² Response coverage ratio (percent) ²	3.3 64.9 41.4 66.2	(X) (X) (X) (X)	10.1 70.4 77.2 70.4	(X) (X) (X) (X)	19.9 60.7 179.7 63.4	(X) (X) (X) (X)
Other purchased services: Communications Response coverage ratio (percent)² Legal Response coverage ratio (percent)² Accounting and bookkeeping Response coverage ratio (percent)² Advertising Response coverage ratio (percent)² Software and other data processing Response coverage ratio (percent)² Software so coverage ratio (percent)² Refuse removal, including hazardous waste Response coverage ratio (percent)²	5.7 60.3 7.2 64.3 3.8 64.6 5.5 65.3 1.1 63.5 1.2 61.4	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	16.9 66.7 8.2 70.6 8.7 72.1 16.6 70.8 2.2 70.5 7.4 69.2	888888888888888888888888888888888888888	20.0 55.0 12.1 61.8 11.1 61.9 11.8 62.1 3.2 60.2 6.4 59.5	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)
New machinery and equipment expenditures	48.3 9.0 1.3 38.0 1.6	(X) 15 27 5 (X)	145.6 39.3 6.4 99.9 1.6	(X) 13 14 6 (X)	278.3 180.6 8.3 89.4 1.6	(X) 6 15 10 (X)
Cost of materials, components, parts, etc., used	634.9 7.3 627.6 1.9	(X) 21 1 (X)	2 036.2 17.9 2 018.2 1.9	(X) 15 1 (X)	5 964.8 (S) (S) (S)	(X) (X) (X) (X)
	Lim (SIC 32	e 274)	Gypsum j (SIC 3	products (275)	Cut stone and (SIC	stone products 3281)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
					uoliais)	
Purchased services: Cost of purchased services for the repair of— Buildings and other structures Response coverage ratio (percent) ² Machinery Response coverage ratio (percent) ²	2.3 88.1 28.9 88.1	(X) (X) (X) (X)	1.8 87.6 19.6 87.6	(X) (X) (X) (X)	(S) (S) (S) (S)	(X) (X) (X) (X)
Cost of purchased services for the repair of— Buildings and other structures	88.1 28.9	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	87.6 19.6	888888888888888888888888888888888888888	(S)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)
Cost of purchased services for the repair of— Buildings and other structures Response coverage ratio (percent)² Machinery Response coverage ratio (percent)² Other purchased services: Communications Response coverage ratio (percent)² Legal Response coverage ratio (percent)² Accounting and bookkeeping Response coverage ratio (percent)² Advertising Response coverage ratio (percent)² Software and other data processing Response coverage ratio (percent)²	88.1 28.9 88.1 2.5 86.7 4.4 88.1 2.1 86.7 .7 88.1 2 88.1 1.5	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	87.6 19.6 87.6 1.9 83.4 7 82.7 2 83.2 1 1 83.4 4 83.2 4.5	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>ଉଉଉଉ</u> ଉଉଉଉଉଉଉଉଉଉଉ	

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies. Amounts purchased by separate central admnistrative offices and services provided to establishments by central admnistrative offices are excluded.

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

²A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in the industry.

³Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response of the inquiry. (See appendixes for further explanation.)

⁴Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

Table 4. Industry Statistics by Employment Size of Establishment: 1992

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

[For meaning of abbreviations and symbols, see in	Iroduci	Ory text. F										
		All	All em	oloyees	Pro	duction wor	kers	Value added by			New capital	End-of- year
Industry and employment size class	E ¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
NDUSTRY 3271, CONCRETE BLOCK AND BRICK												
Total	_ E1	1 071	16.4	429.9	9.2	20.3	208.5	1 030.8	1 025.1	2 051.1	57.3	287.3
stablishments with an average of— 1 to 4 employees	_ E6	283	.4	10.7	3	.6	5.6	32.7	31.3	63.9	6.3	9.8
5 to 9 employees	F2	221 277	1.5 3.8	35.3 96.0	.3 .9 2.1	2.0 4.9	18.9 46.9	99.2 242.0	103.3 245.8	202.0 487.8	4.8 10.7	31.9 72.0
10 to 19 employees 20 to 49 employees 50 to 99 employees	- - E1 - E1	237 47	6.8 3.1	182.3 87.8	2.1 3.7 1.7	8.2 3.6	83.2 42.9	426.7 187.3	429.1 186.4	853.1 373.2	23.8 10.7	116.0 51.2
100 to 249 employees	-	6	.7	17.8	.5	.9	11.0	42.9	29.0	71.2	1.0	6.3
overed by administrative records ²	_ E9	249	.5	10.5	.3	.6	5.0	27.4	27.6	55.0	1.3	7.1
NDUSTRY 3272, CONCRETE PRODUCTS, N.E.C.												
Total	_ E1	3 113	58.9	1 513.3	42.7	90.9	947.9	3 353.5	2 581.7	5 934.2	171.9	696.4
stablishments with an average of-				44.0			00.4	400.4	20.0	400.5	0.5	0.4.0
1 to 4 employees5 to 9 employees	_ E2	1 118 518	2.0 3.5	44.2 77.8	1.5 2.6	3.2 5.3	30.1 53.1	109.4 180.7	83.8 126.0	196.5 306.9	6.5 8.6	24.8 32.9
10 to 19 employees	_ E1	589 604	8.1 18.5	192.6 476.6	5.7 13.1	11.5 27.6	118.6 288.1	431.3 1 138.9	339.8 841.5	771.9 1 977.0	20.2 64.3	87.4 240.6
50 to 99 employees	_ E1	198 82	13.8 11.6	373.2 315.2	10.1 8.8	22.0 19.0	233.8 204.5	795.0 612.2	591.7 540.4	1 379.5 1 159.1	37.0 26.7	169.9 121.8
250 to 499 employees		4	1.3	33.8	1.0	2.2	19.9	86.0	58.5	143.3	8.6	18.9
overed by administrative records ²	_ E9	942	1.8	34.9	1.3	2.8	23.2	82.0	65.5	147.4	4.5	17.2
NDUSTRY 3273, READY-MIXED CONCRETE												
Total	_ E2	5 254	82.4	2 291.5	60.9	129.2	1 577.7	5 342.5	6 662.4	12 009.9	313.0	424.7
stablishments with an average of—		4 400	2.0	75.0	2.2	4.0	F4.0	275.2	247.2	600.4	110	24.7
1 to 4 employees 5 to 9 employees	_ E2	1 422 1 169	2.9 8.0	75.8 192.0	2.3 6.0	4.8 12.8	54.9 139.0	275.2 528.7	347.3 693.6	623.1 1 223.6	14.9 28.9	21.7 40.7
10 to 19 employees	_ E1	1 301 1 112	18.0 33.3	467.4 944.2	13.5 24.1	28.4 50.8	333.0 623.5	1 179.1 2 128.3	1 496.7 2 574.6	2 675.5 4 702.1	59.3 126.2	93.5 161.1
50 to 99 employees 100 to 249 employees	_ E4	202 46	13.4 <u>6.8</u>	392.8 219.4	9.7 <u>5.2</u> (D)	21.1 11.2	265.0 162.2	809.0 422.1	971.9 <u>578.3</u>	1 783.4 1 002.1	54.5 29.2	64.8 42.9
250 to 499 employees	- -	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
overed by administrative records ²	_ E9	942	2.9	58.9	2.3	5.0	42.4	143.9	186.9	330.8	10.1	11.8
NDUSTRY 3274, LIME												
Total		88	5.6	171.4	4.3	9.6	121.3	461.1	446.2	903.7	47.9	104.9
stablishments with an average of—		11	(7)	0	(7)	(7)	-	4.7	4.0	2.0		2
1 to 4 employees 5 to 9 employees	_ _	11 10	(Z) .1	.8 2.4	(Z) .1	(Z) .2 .2 1.0	.5 1.7	1.7 8.1	1.3 5.3	3.0 12.2	.1 .5	.2 2.6
10 to 19 employees	_ -	8 19	.1 .6	2.6 17.9	.1 .4	1.0	2.0 12.0	13.3 58.3	8.9 56.6	22.2 114.6	.6 3.7	1.1 14.2
50 to 99 employees 100 to 249 employees	_ -	21 18	1.5 3.3 (D)	48.8 98.9	1.1 2.6 (D)	2.5 5.7	34.4 70.8	138.1 241.7	141.8 232.2	279.8 471.9	10.6 32.5 (D)	36.8 49.9
500 to 999 employeesovered by administrative records ²		6	(D) (Z)	(D) .4	(D) (Z)	(Z)	(D) .3	(D)	(D)	(D)	(D) .1	(D) .1
UDUSTRY 2075 OVERUM PRODUSTS												
NDUSTRY 3275, GYPSUM PRODUCTS		450	40.5	220.0		40.0	242.0	702.2	4 202 0	2.075.0	42.0	440.7
Total	- -	152	10.5	329.0	8.3	19.0	242.0	793.3	1 283.9	2 075.9	43.8	140.7
stablishments with an average of— 1 to 4 employees	_ E8	16	(Z) .2	.8	(Z) .1	.1	.6	2.8	3.2	6.0	.1	.6
5 to 9 employees 10 to 19 employees	- E6 - E3	22 19	.2 .3 .5	3.9 6.1	.2	.3 .4	2.8 4.2	10.4 20.1	17.2 28.4	27.6 48.7	.4 .4	1.9 3.0
20 to 49 employees 50 to 99 employees	- E2 - -	18 37	2.9	12.5 92.4	.4 2.3	.9 5.1	8.7 65.5	35.8 207.7	69.2 416.2	104.7 623.2	1.7 14.0	7.1 45.3
100 to 249 employees 250 to 499 employees	_ -	36 4	6.6 (D)	213.3 (D)	5.3 (D)	12.3 (D)	160.2 (D)	516.5 (D)	749.6 (D)	1 265.8 (D)	27.1 (D)	82.8 (D)
Covered by administrative records ²		20	.1	1.8	.1	.1	1.3	4.4	6.5	10.9	.2	.7
Sovered by administrative records	- 1 119	. 20		1.0		1.1	1.3	, 4.41	0.3 1	10.9 1	.∠ ۱	./

Table 4. Industry Statistics by Employment Size of Establishment: 1992—Con.

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

		AII	All em	ployees	Pro	duction wo	rkers	Value			New	End-of-
Industry and employment size class	E ¹	All estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 3281, CUT STONE AND STONE PRODUCTS												
Total	E1	921	12.3	284.4	9.5	19.3	205.8	607.4	407.1	1 011.3	36.9	156.4
Establishments with an average of— 1 to 4 employees	E6 E2 E1 E1 - E2	434 176 150 121 28 10 1	.8 1.2 2.1 3.6 1.9 2.7 (D) (D)	18.0 25.2 47.4 85.1 46.9 61.7 (D)	.6 .9 1.6 2.7 1.5 2.1 (D)	1.4 1.9 3.4 5.5 2.9 4.1 (D)	13.7 19.1 34.2 57.4 33.9 47.4 (D)	37.6 52.2 87.1 165.3 91.4 173.7 (D)	32.9 43.2 70.5 116.0 65.1 <u>79.5</u> (D)	70.3 95.1 157.0 280.1 156.7 252.1 (D)	1.2 1.6 4.0 17.1 5.2 7.8 (D)	10.3 12.4 22.8 41.2 21.6 48.1 (D)
Covered by administrative records ²	E9	404	.9	18.6	.8	1.6	14.3	35.1	29.5	64.5	1.3	9.7

Note: For qualifications of data, see footnotes on table 1a. Data shown as (D) are included in underscored figures above.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1992

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Indus-			All em	ployees	Pr	oduction wor	kers	Value			New
try or prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
3271	Concrete block and brick: All establishments in industry	1 071	16.4	429.9	9.2	20.3	208.5	1 030.8	1 025.1	2 051.1	57.3
3272	Concrete products, n.e.c.: All establishments in industry	3 113	58.9	1 513.3	42.7	90.9	947.9	3 353.5	2 581.7	5 934.2	171.9
32721 32722 32723	Establishments with this product class primary: Concrete pipe	339 1 235 176	10.9 28.5 11.2	299.7 733.7 287.8	8.2 19.9 8.7	17.6 42.2 18.6	195.5 441.9 189.5	743.5 1 560.9 598.9	539.2 1 216.4 458.5	1 288.2 2 774.1 1 056.3	38.8 88.3 21.4
3273	Ready-mixed concrete: All establishments in industry	5 254	82.4	2 291.5	60.9	129.2	1 577.7	5 342.5	6 662.4	12 009.9	313.0
3274	Lime: All establishments in industry	88	5.6	171.4	4.3	9.6	121.3	461.1	446.2	903.7	47.9
3275	Gypsum products: All establishments in industry	152	10.5	329.0	8.3	19.0	242.0	793.3	1 283.9	2 075.9	43.8
32751 32752	Establishments with this product class primary: Gypsum building materials Other gypsum products	80 28	8.5 1.6	271.0 48.8	6.8 1.3	15.4 2.9	199.9 35.2	639.9 129.8	1 063.6 185.8	1 702.0 316.0	38.1 4.7
3281	Cut stone and stone products: All establishments in industry	921	12.3	284.4	9.5	19.3	205.8	607.4	407.1	1 011.3	36.9
32811	Establishments with this product class primary: Dressed dimension granite (including gneiss, syenite,	195	5.2	422.5	40		90.0	204.5	470.7	404.4	10.0
32812	diorite, and cut granite) Dressed dimension limestone (including dolomite, travertine, calcareous, tufa, and cut limestone)	195	1.7	122.5 43.9	4.0 1.3	8.0 2.6	89.6 31.2	304.5 70.0	179.7 50.2	484.1 119.4	12.6
32813	Dressed dimension marble and other stone	109	2.2	49.5	1.8	3.6	34.8	100.8	70.0	172.0	2.2 6.1

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some small single-establishment manufacturing companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

2Report forms were not mailed to small single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1992 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

Table 5b. Industry-Product Analysis - Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work (total miscellaneous receipts). Subtotals for total value of shipments show this product pattern for an industry. Primary products specialization ratio is the primary products value of shipments divided by the sum of primary products value of shipments plus secondary products value of shipments. The extent of which an industry's primary products are shipped by establishments classified both in and out of an industry is the coverage ratio and is calculated by dividing the primary products value of shipments by the value of primary products shipments made in all industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

meaning of appreciations and symbols, see introductory text. For explanation	or terms, see appendixes		
Industry	1992	1987	1982
INDUSTRY 3271, CONCRETE BLOCK AND BRICK			
Total value of shipments	2 051.1	2 245.8	1 301.8
Primary products value of shipmentsSecondary products value of shipments	1 472.5 127.0	1 719.6 110.8	1 024.0 59.0
Total miscellaneous receipts	451.6	415.4	218.8
Value of resales	437.9	401.2	202.6
Contract receipts Other miscellaneous receipts	7.4	3.7 10.5	(D) (D)
Primary products specialization ratio	92	94	95
Value of primary products shipments made in all industries Value of primary products shipments made in this industry	1 665.7 1 472.5	1 950.7 1 719.6	1 173.2 1 024.0
Value of primary products shipments made in other industries	193.3	231.1	149.2
Coverage ratio	88	88	87
INDUSTRY 3272, CONCRETE PRODUCTS, N.E.C.			
Total value of shipments Primary products value of shipments	5 934.2 5 360.4	5 828.4 5 323.6	3 649.2 3 335.6
Secondary products value of shipments	127.8	169.2	101.1
Total miscellaneous receipts	446.0 345.9	335.6 253.0	212.5 134.8
Contract receipts	29.0	253.0	27.0
Other miscellaneous receipts	71.1	56.7	50.7
Primary products specialization ratio	98	97	97
Value of primary products shipments made in all industries	5 569.5	5 511.7	3 503.3
Value of primary products shipments made in this industry	5 360.4	5 323.6	3 335.6
Value of primary products shipments made in other industries	209.1	188.2	167.7
Coverage ratio	96	97	95
INDUSTRY 3273, READY-MIXED CONCRETE			
Tatal value of abinments	12 009.9	12 966.3	0.462.2
Total value of shipments Primary products value of shipments	10 710.0	11 601.1	8 163.3 7 415.7
Secondary products value of shipments	568.3	613.3	368.7
Total miscellaneous receipts Value of resales	731.6 539.7	751.9 610.3	378.9 269.2
Contract receipts	79.1	48.2	29.4
Other miscellaneous receiptsReceipts for installation (or construction) of products of this	112.7	93.4	80.3
establishment	24.0	(NA)	38.0
Other miscellaneous receiptsOther miscellaneous receipts, n.s.k	73.0 15.6	(NA) (NA)	35.5 6.8
Primary products specialization ratio	95	95	95
Value of primary products shipments made in all industries	10 907.0	11 794.9	7 544.9
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	10 710.0 197.1	11 601.1 193.8	7 415.7 129.3
Coverage ratio	98	98	98
INDUSTRY 3274, LIME			
Total value of shipments	903.7	715.5	543.2
Primary products value of shipmentsSecondary products value of shipments	800.2 89.0	636.8 67.2	477.0 61.7
Total miscellaneous receipts	14.4	11.5	4.5
Value of resales Contract receipts	10.9	9.9	2.1
Other miscellaneous receipts	(D) (D)	1.6	
Primary products enocialization ratio	90	90	89
Primary products specialization ratio	90	90	89
Value of primary products shipments made in all industries	851.0	703.9	517.8
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	800.2 50.7	636.8 67.1	477.0 40.9
Coverage ratio	94	90	92
INDUSTRY 3275, GYPSUM PRODUCTS			32
11233111 3213, 311 30m 1 1000013			
Total value of shipments	2 075.9	2 670.9	1 289.2
Primary products value of shipmentsSecondary products value of shipments	1 909.5 87.2	2 513.8 88.9	1 160.4 88.6
Total miscellaneous receipts	79.2	68.2	40.3
Value of resales	78.4	66.1	(D)
Contract receiptsOther miscellaneous receipts	(D) (D)	(Z) 2.1	(D)
'			` '
Primary products specialization ratio	96	97	93
Value of primary products shipments made in all industries	1 930.0	2 563.1	1 178.2
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	1 909.5 20.5	2 513.8 49.3	1 160.4 17.8
Coverage ratio	99	98	98

MANUFACTURES-INDUSTRY SERIES

CONCRETE, PLASTER, & CUT STONE PRODS. 32D-17

Table 5b. Industry-Product Analysis—Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years—Con.

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work (total miscellaneous receipts). Subtotals for total value of shipments show this product pattern for an industry. Primary products specialization ratio is the primary products value of shipments divided by the sum of primary products value of shipments plus secondary products value of shipments. The extent of which an industry's primary products are shipped by establishments classified both in and out of an industry is the coverage ratio and is calculated by dividing the primary products value of shipments by the value of primary products shipments made in all industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry	1992	1987	1982
INDUSTRY 3281, CUT STONE AND STONE PRODUCTS			
Total value of shipments	1 011.3 921.7 17.9 71.8 46.8 11.3 13.6	840.8 796.1 17.7 26.9 17.5 6.5 3.0	555.4 513.5 17.2 24.8 13.9 (D)
Primary products specialization ratio	98	98	97
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	948.5 921.7 26.8	808.8 796.1 12.6	526.2 513.5 12.8
Coverage ratio	97	98	98

Note: For qualifications of data, see footnotes on table 1a.

Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

			1992			1987	
Product	Product	Number of companies with	Product s	hipments ¹	Number of companies with	Product s	hipments ¹
code		shipments of \$100,000 or more	Quantity ²	Value (million dollars)	shipments of \$100,000 or more	Quantity ²	Value (million dollars)
3271- —	CONCRETE BLOCK AND BRICK						
	Total	(NA)	(X)	1 665.7	(NA)	(X)	1 950.7
32710	Concrete brick and block	(NA)	(X)	1 665.7	(NA)	(X)	1 950.7
32710 11	Structural block: Lightweight units (units made with concrete weighing less than 105 lb per cubic foot) (dry	220	(6)	402.4	247	*750.7	F7F C
32710 15	weight) mil blocks Mediumweight units (units made with concrete weighing at least 105 lb but less than 125 lb per	329	(S)	483.4	317	*758.7	575.6
32710 17	cubic foot) (dry weight) Normal weight units (units made with concrete weighing at least 125 lb per cubic foot) (dry	120	(X)	148.4	156	(X)	237.1
32710 18	weight) mil blocks Decorative block (such as screen block, split block, slump block, shadowal block, etc.)	384 164	(S)	484.0 128.0	342 155	**1 110.5 (X)	549.9 171.2
32710 34 32710 51	Concrete pavers (including grid, interlocking, etc.)	87 59	(X) (X) (X) (X)	104.5	(NA) 86	(X)	(3) 74.0
32710 31 32710 00 32710 02	Concrete block and brick, n.s.k. ⁴ Concrete block and brick, n.s.k. ⁵	(NA) (NA)	(x) (x)	52.7 208.9 55.8	(NA) (NA)	(X) (X) (X)	³ 233.7 109.2
3272- —	CONCRETE PRODUCTS, N.E.C.						
00704	Total	(NA)	(X)	5 569.5	(NA)	(X)	5 511.7
32721	Concrete pipe	(NA)	(X)	1 232.5	(NA)	(X)	1 389.4
32721 12	36 inches or more1,000 s tons	67	**1 599.5	153.1	64	*1 143.8	131.5
32721 14	Less than 36 inches1,000 s	53	*1 080.0	87.8	58	*637.0	64.4
32721 17	Nonreinforced Storm sewer pipe: Reinforced:	9	(X)	8.6	20	(X)	18.0
32721 21	36 inches or more1,000 s	73	**2 139.1	186.9	77	*2 049.2	218.2
32721 24	Less than 36 inches1,000 s	71	*1 973.1	168.4	77	*1 787.6	155.9
32721 25	Nonreinforced	6	(X)	8.3	18	(X)	27.8
32721 26	24 inches or more1,000 s	44	*917.8	82.2	46	**966.8	111.3
32721 27 32721 30	Less than 24 inches Nonreinforced Pressure pipe:	23 5	(X) (X)	17.3 4.3	31 8	(X) (X)	34.3 3.2
32721 31 32721 32 32721 37	Reinforced concrete pressure pipe	5 6	(X) (X)	18.3 90.7	9 9	(X) (X)	32.2 162.3
32721 51	Pretensioned concrete cylinder pipe and other pressure pipe1,000 lin ft	4 16	(D) (X)	(⁶) 22.4	(NA) 16	(D) (X)	(⁷) 14.9

Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

			1992			1987	
		Number of	Product s	hipments ¹	Number of	Product s	hipments ¹
Product code	Product	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
3272- —	CONCRETE PRODUCTS, N.E.C.—Con.						
32721 32721 98	Concrete pipe—Con. Other concrete pipe (such as manholes and conduits)	173	(X) (X)	⁶ 317.9	144	(X) (X)	⁷ 315.3
32721 00 32722	Concrete pipe, n.s.k. Precast concrete products Roof and floor units:	(NA) (NA)	(X) (X)	66.3 2 641.7	(NA) (NA)	(X) (X)	100.0 2 241.7
32722 13 32722 17 32722 23	Slabs and tile	51 19 126	(X) (X) (X)	304.7 12.7 290.4	55 23 115	(X) (X) (X)	266.2 21.9 342.5
32722 25 32722 27	Piling, posts, and poles Cast stone products for architectural purposes (except architectural wall panels, such as window	22	(X)	27.6	25	(X)	37.8
32722 28	sills, ashlar, etc.)	96	(X)	61.8	68	(X)	65.4
32722 29	modular form Other precast concrete construction or building products (including prefabricated housing	49	(X)	133.0	25	(X)	74.8
32722 33	components)	225 300	(X) (X)	403.8	169 231	(X) (X)	345.2 194.2
32722 35 32722 61 32722 71	Boxes	100 273	(X) (X)	58.2 151.2	70 206	(X) (X)	35.5 133.1
32722 99	sand, gravel, and cement, mortar and cement premixes)Other precast concrete products (except construction	227	(X)	471.3	179	(X)	306.0
32722 00	or building products)Precast concrete products, n.s.k	253 (NA)	(X) (X)	286.1 207.8	(NA) (NA)	(X) (X)	243.8 175.2
32723 32723 11 32723 23 32723 25 32723 27	Prestressed concrete products Single tees, double tees, and channels	(NA) 60 37 73 43	(X) *31 728.8 **7 123.4 *3 883.4 1 649.3	907.8 147.8 83.7 230.5 50.5	(NA) 78 38 66 47	(X) (S) (S) *3 300.0 (S)	1 048.1 278.3 93.3 198.8 80.3
32723 31 32723 98	Solid and hollow cored slabs and panels1,000 sq ft_ Other prestressed concrete products (such as arches, columns, etc.)1,000 s	87	**50 967.2	202.0	93	*61 000.0	231.1
32723 00	Prestressed concrete products, n.s.k.	53 (NA)	**1 303.7 (X)	140.1 53.0	54 (NA) (NA)	(S) (X)	88.0 78.3 832.6
32720 32720 00 32720 02	Concrete products, n.e.c., n.s.k. Concrete products, n.e.c., n.s.k. ⁴ Concrete products, n.e.c., n.s.k. ⁵	(NA) (NA) (NA)	(X) (X) (X)	787.5 640.1 147.4	(NA) (NA) (NA)	(X) (X) (X)	632.6 640.1 192.4
3273- —	READY-MIXED CONCRETE						
00700	Total	(NA)	(X)	10 907.0	(NA)	(X)	11 794.9
32730 32730 00 32730 02	Ready-mixed concrete	(NA) 2 381 (NA)	(X) (S) (X)	10 907.0 10 575.8 331.3	(NA) (NA) (NA)	(X) (S) (X)	11 794.9 11 204.8 590.1
3274- —	LIME						
	Total	(NA)	(X)	851.0	(NA)	(X)	703.9
32740 32740 11	Lime (including cost of containers)1,000 s	(NA)	(X)	851.0	(NA)	(X)	703.9
32740 51	tons Hydrated lime1,000 s	36	*12 516.2 *1 874.2	614.1 124.5	32 27	*10 348.8 *1 936.2	508.4 130.7
32740 71	Dead-burned dolomite ⁸	8	396.5	28.3	6	r330.1	25.2
32740 72	Other lime1,000 s	22	*571.6	37.2	(NA)	(NA)	(9)
32740 00 32740 02	Lime, n.s.k. ¹⁰ Lime, n.s.k. ¹¹	(NA) (NA)	(X) (X)	45.5 1.4	(NA) (NA)	(X) (X)	⁹ 33.3 6.4
3275- —	GYPSUM PRODUCTS						
	Total	(NA)	(X)	1 930.0	(NA)	(X)	2 563.1
32751 32751 12	Gypsum building materialsPlaster building boards and lath1,000 s tons	(NA) 20	(X) **18 000.1	1 584.1 1 378.0	(NA) 20	(X) *17 442.3	2 043.7 1 843.6
32751 13 32751 00	Building plasters Gypsum building materials, n.s.k	9 (NA)	(X) (X)	202.1 4.1	5 (NA)	(X) (X)	84.7 115.4
32752 32752 11 32752 21	Other gypsum products Industrial plasters Other calcined gypsum products	(NA) 7 23	(X) (X) (X)	284.4 64.7 209.3	(NA) 7 16	(X) (X) (X)	448.6 120.4 302.5
32752 00	Other gypsum products, n.s.k.	(NA)	(X)	10.4	(NA)	(X)	25.7
32750 32750 00 32750 02	Gypsum products, n.s.k. Gypsum products, n.s.k. 12 Gypsum products, n.s.k. 13	(NA) (NA) (NA)	(X) (X) (X)	61.4 24.8 36.7	(NA) (NA) (NA)	(X) (X) (X)	70.8 21.7 49.1

Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: **1992 and 1987**—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

			1992		1987			
Product		Number of companies	Product s	hipments ¹	Number of companies	Product s	hipments ¹	
Product code			Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	
3281- —	CUT STONE AND STONE PRODUCTS							
	Total	(NA)	(X)	948.5	(NA)	(X)	8.808	
32811	Dressed dimension granite (including gneiss, syenite, digrite, and cut granite)	(NA)	(X)	449.3	(NA)	(X)	404.6	
32811 13	diorite, and cut granite)	52	(S)	177.4	46	(S)	208.0	
32811 35	Monumental stone 1,000 cubic	_	. ,			, ,		
32811 98	feet Other granite products, such as paving blocks and curbing1,000 cubic	140	(S)	206.3	91	(S)	143.6	
32811 00	feet Dressed dimension granite (including gneiss, syenite,	30	(S)	55.9	22	(S)	47.1	
32011 00	diorite, and cut granite), n.s.k.	(NA)	(X)	9.7	(NA)	(X)	5.8	
32812	Dressed dimension limestone (including dolomite,	414)	0.0	400.0		00		
32812 13	travertine, calcareous, tufa, and cut limestone)	(NA)	(X)	123.3	(NA)	(X)	66.6	
32812 98	feet Other limestone products, such as flagging 1,000 cubic	47	**2 923.8	68.6	30	(S)	47.4	
32812 00	feet Dressed dimension limestone (including dolomite,	17	(S)	31.4	6	(S)	4.6	
	travertine, calcareous, tufa, and cut limestone), n.s.k.	(NA)	(X)	23.3	(NA)	(X)	14.7	
32813	Dressed dimension marble and other stone	(NA)	(X)	159.5	(NA)	(X)	146.4	
32813 37	Building stone, monumental stone, and other marble	(IVA)	(^)	139.3	(IVA)	(^)	140.4	
	products1,000 cubic feet	79	(S)	94.9	44	(S)	81.2	
32813 98	Other stone, such as slate, sandstone, gabbro, and basalt, and other dressed dimension stone products 1,000 cubic							
32813 00	Dressed dimension marble and other stone, n.s.k	42 (NA)	(S) (X)	49.8 14.9	33 (NA)	(S) (X)	50.4 14.8	
32810	Cut stone and stone products, n.s.k.	(NA)	(X)	216.4	(NA)	(X)	191.2	
32810 00 32810 02	Cut stone and stone products, n.s.k. ⁴ Cut stone and stone products, n.s.k. ⁵	(NA) (NA)	(X)	151.8 64.5	(NA) (NA)	(X) (X)	130.4 60.8	
	The state of the s	(10.1)	(74)	34.0	(10.1)	(74)	30.0	

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987

[Million dollars. Product classes shown are those where the data are geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text]

	•				
Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
32721, CONCRETE PIPE			32721, CONCRETE PIPE—Con.		
United States	1 232.5	1 389.4	Kentucky	7.0	7.6
Alabama	19.5	(NA)	Louisiana	16.2 5.2	8.8
Arizona	19.1	(NA)	Maine	40.5	(NA) 44.8
Arkansas	12.0	(NA)	Maryland Massachusetts	6.3	17.6
California	124.7	153.4	Wassachusells	0.3	17.6
Colorado	35.7	(NA)	10.11	40.7	
		1 1.1	Michigan	49.7	51.4
Connecticut	25.7	39.6		53.4	55.5
Florida	58.8	84.1	Missouri	28.4	15.6
Georgia	26.6	29.6	Montana	2.4	(NA)
Illinois	75.3	64.1	Nebraska	12.7	8.5
Indiana	25.9	19.1	New Jersey	27.5	47.1
lowa	22.4	14.9	New York	12.3	33.2
Kansas	11.2		North Carolina		27.1

¹Data reported by all producers, not just those with shipments of \$100,000 or more.
²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

³For 1987, data for product code 32710 34 were included with product code 32710 00.
⁴Typically for establishments with 15 employees or more.
³Typically for establishments with less than 5 employees.
%For 1992, data for product code 32721 37 were included with product code 32721 98.
%Additional detail is collected for this product code in the Current Industrial Reports. For the survey number and title, see appendix C, part 3.
%For 1987, data for product code 32740 72 were included with product code 32740 00.
%Portically for establishments with 10 employees or more.
%Portically for establishments with 10 employees.
%Portically for establishments with 15 employees.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987—Con.

[Million dollars. Product classes shown are those where the data are geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
32721, CONCRETE PIPE—Con.			32723, PRESTRESSED CONCRETE PRODUCTS—Con.		
Ohio Oklahoma	47.8 10.3	61.3 7.6	New Jersey	29.5	41.4
Oregon	20.9	13.7	North Carolina	19.9	17.0
Pennsylvania	34.8	45.4	Ohio	20.4	28.8
South Carolina	12.4	25.1	Pennsylvania	41.7 34.6	55.0 62.6
Tennessee	18.4	16.9	South Carolina	18.5	20.2
Texas	121.4	188.0	Texas	52.9	87.5
Virginia Washington	69.0 20.1	49.4 32.2	Virginia	38.8	49.5
Wisconsin	32.2	22.0	Washington	34.4	43.9
			32751, GYPSUM BUILDING MATERIALS		
32722, PRECAST CONCRETE PRODUCTS					
	2 644 7	2 244 7	United States	1 584.1	2 043.7
United States	2 641.7	2 241.7	California	169.3	287.4
Alabama	22.7	21.7	Florida	132.4	144.1
Alaska	4.1	(NA) 42.6	Georgia	81.3 104.7	136.4 144.9
ArizonaArkansas	61.3 18.0	11.6	lowa	132.4	130.7
California	458.0	434.8		57.2	109.7
Calarada	44.2	24.5	Michigan Nevada	61.8	(NA)
Colorado Connecticut	41.3 53.6	24.5 61.2	New York	108.8	149.5
Delaware	4.9	(NA)	North Carolina	36.5	(NA)
Florida	225.8	208.5	Ohio Oklahoma	41.2 36.3	64.9 69.1
Georgia	79.3	76.0	Texas	115.4	164.5
Hawaii	16.0	7.0	Washington	51.2	(NA)
Idaho	3.0	(NA)			
Illinois	64.7	81.1 30.4	32752, OTHER GYPSUM PRODUCTS		
Indiana	55.9 20.2	13.2	United States	284.4	448.6
KansasKantualu	17.9	23.2	California	36.9	48.9
Kentucky Louisiana	26.9 57.2	19.7 26.4	Florida Texas Te	4.8 10.4	19.0 9.9
Maine	16.6	11.0	Virginia	5.5	(NA)
Maryland	26.7	63.2			
Massachusetts	52.4	48.3	32811, DRESSED DIMENSION GRANITE		
Michigan	92.0	77.1	(INCLUDING GNEISS, SYENITE, DIORITE,		
Minnesota	51.6	26.4	AND CUT GRANITE)		
Mississippi	11.5 43.8	12.9 37.0	United States	449.3	404.6
Missouri	43.0	37.0			
Montana	5.5	(NA)	California	21.1 62.7	21.7 49.4
Nebraska	19.7 16.8	10.8	Illinois	10.8	10.3
NevadaNew Hampshire	22.6	19.3	Kansas	2.1	(NA)
New Jersey	63.8	57.6	Massachusetts	19.5	20.1
	112	4.6	New York	8.5	4.6
New Mexico New York	11.2 103.1	73.4	North Carolina	23.4	15.8
North Carolina	59.0	48.0	Ohio Pennsylvania	5.2 2.9	(NA) 3.0
North Dakota	6.5	6.3	Texas	38.9	42.3
Ohio	124.7	130.5	Vermont	79.5	63.4
Oklahoma	12.6	9.7	Washington	3.2 4.0	(NA) (NA)
Oregon	26.6	22.0	Wisconsin	4.0	(INA)
PennsylvaniaSouth Carolina	167.8 28.8	122.3 16.8	32812, DRESSED DIMENSION LIMESTONE		
South Dakota	6.3	(NA)	(INCLUDING DOLOMITE, TRAVERTINE,		
_			CALCAREOUS, TUFA, AND CUT		
TennesseeTexas	34.8 161.6	32.9 125.9	LIMESTONE)		
Utah	21.2	14.1	United States	123.3	66.6
Vermont	12.5	9.0			
Virginia	75.6	78.5		8.7	(NA)
Washington	62.9 11.8	40.1 (NA)	Indiana	44.2 3.3	36.4 (NA)
Wisconsin	56.6	35.3	Minnesota	17.1	(NA)
			Ohio	6.9	(NA)
32723, PRESTRESSED CONCRETE			Texas Wisconsin	6.4	3.6 (NA)
PRODUCTS			Wiscorisii	2.2	(IVA)
11.75 1.05 4			32813, DRESSED DIMENSION MARBLE AND		
United States	907.8	1 048.1	OTHER STONE		
Alabama	27.1	10.2		450.5	440.4
California	28.4	84.7	United States	159.5	146.4
Florida	68.8	113.2	California	10.6	3.1
Georgia	38.2 40.6	33.1 27.4	Florida	6.7	(NA)
IIIII IOIO	40.0	27.4	Georgia Illinois	18.2 6.6	20.0
Indiana	27.0	23.8	Missouri	3.2	4.5
lowa	13.9	(NA)			
Kentucky Louisiana	18.3	13.8	New York	2.8 20.8	(NA) 17.5
Maryland	4.8	(NA)	North Carolina	11.2	5.0
•		, ,	Ohio	13.0	15.3
Massachusetts	17.0	(NA)	Pennsylvania	12.7	11.8
MichiganMinnesota	8.1 35.5	13.9 19.6	Tennessee	6.8 4.8	(NA) 14.9
Mississippi	29.1	33.1	Vermont	11.5	(NA)
Missouri	11.0	(NA)	Wisconsin	3.5	(NA)

Note: For qualifications of data, see footnotes on table 6a.

Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1992 and Earlier Years

[Million dollars. For meaning of abbreviations and symbols, see introductory text]

Product code	Product class		1991 ¹	1990¹	1989¹	1988 ¹	1987	1982	1977
3271- 32710	Concrete block and brick	1 665.7 1 665.7	1 919.9 1 919.9	1 989.2 1 989.2	2 033.5 2 033.5	2 130.1 2 130.1	1 950.7 1 950.7	1 173.2 1 173.2	1 005.1 1 005.1
3272- 32721 32722 32723 32720	Concrete products, n.e.c. Concrete pipe Precast concrete products Prestressed concrete products Concrete products, n.e.c., n.s.k.	5 569.5 1 232.5 2 641.7 907.8 787.5	5 501.5 1 192.9 2 334.2 1 161.6 812.8	6 141.2 1 354.0 2 583.1 1 284.4 919.8	6 253.1 1 411.8 2 683.7 1 310.5 847.0	5 784.3 1 401.8 2 334.5 1 218.2 829.9	5 511.7 1 389.4 2 241.7 1 048.1 832.6	3 503.3 919.0 1 349.6 741.9 492.8	2 596.1 843.8 772.6 423.6 556.1
3273- 32730	Ready-mixed concrete	10 907.0 10 907.0	10 611.6 10 611.6	11 735.3 11 735.3	11 771.4 11 771.4	11 833.5 11 833.5	11 794.9 11 794.9	7 544.9 7 544.9	5 679.9 5 679.9
3274- 32740	LimeLime (including cost of containers)	851.0 851.0	691.8 691.8	694.4 694.4	766.8 766.8	777.9 777.9	703.9 703.9	517.8 517.8	473.5 473.5
3275- 32751 32752 32750	Gypsum products Gypsum building materials Other gypsum products Gypsum products, n.s.k.	1 930.0 1 584.1 284.4 61.4	1 898.9 1 553.7 277.4 67.8	2 257.8 1 772.8 307.1 177.9	2 237.9 1 809.9 363.2 64.8	2 269.6 1 813.8 405.4 50.5	2 563.1 2 043.7 448.6 70.8	1 178.2 1 076.5 85.8 15.9	932.1 864.9 54.0 13.3
3281- 32811	Cut stone and stone products	948.5	903.9	931.1	876.7	826.9	808.8	526.2	385.5
32812	cut granite)Dressed dimension limestone (including dolomite, travertine,	449.3	426.2	447.7	444.3	414.2	404.6	296.0	164.4
32813 32810	calcareous, tufa, and cut limestone) Dressed dimension marble and other stone Cut stone and stone products, n.s.k.	123.3 159.5 216.4	75.6 147.6 254.5	64.0 141.4 278.0	65.5 154.7 212.2	62.8 140.0 209.8	66.6 146.4 191.2	42.9 96.2 91.1	53.3 83.6 84.2

¹Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

Table 7. Materials Consumed by Kind: 1992 and 1987

[Includes cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

Material code	Material	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 3271, CONCRETE BLOCK AND BRICK		
	Materials, ingredients, containers, and supplies	634.9	819.5
324101	Stone, clay, glass, and concrete products: Portland cement Ready-mixed concrete Other stone, clay, glass, and concrete products	137.3	219.5
327300		5.1	6.6
320040		36.1	(¹)
142011	Mining and quarrying of nonmetallic minerals, except fuels: Crushed or broken stone (including cement rock, limestone, etc.) Sand and gravel Other mining and quarrying of nonmetallic minerals, except fuels	34.6	63.5
144201		78.1	96.7
140080		20.1	(¹)
331059 331092 331009 331060 336002 970099 971000	Shapes and forms (except castings, forgings, and fabricated metal products): Steel shapes and forms: Wire strand and bars or rods, high strength, stress relieved	.8 1.0 1.6 .6 1.3 10.99 208.3	1.8 2.5 7.5 (¹) (¹154.9 266.4
	INDUSTRY 3272, CONCRETE PRODUCTS, N.E.C. Materials, ingredients, containers, and supplies	2 036.2	2 045.9
324101	Stone, clay, glass, and concrete products: Portland cement Ready-mixed concrete Other stone, clay, glass, and concrete products	327.8	398.2
327300		66.8	57.5
320040		27.7	(¹)
142011	Mining and quarrying of nonmetallic minerals, except fuels: Crushed or broken stone (including cement rock, limestone, etc.) Sand and gravel Other mining and quarrying of nonmetallic minerals, except fuels	43.9	59.3
144201		165.4	179.0
140080		3.7	(¹)
331059	Shapes and forms (except castings, forgings, and fabricated metal products): Steel shapes and forms: Wire strand and bars or rods, high strength, stress relieved	121.1	132.1
331092		94.5	93.0
331009		69.8	68.0
331060		44.1	(¹)
336002		33.1	(¹)
970099		478.9	1467.9
971000		559.3	590.8

Table 7. Materials Consumed by Kind: 1992 and 1987—Con.

[Includes cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

Material code	Material	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 3273, READY-MIXED CONCRETE		
	Materials, ingredients, containers, and supplies	5 964.8	6 517.5
144201	Mining and quarrying of nonmetallic minerals, except fuels: Sand and gravel Crushed and broken stone, including riprap:	974.6	1 222.9
142200 142300 142900	Limestone (including dolomite, cement rock, marl, travertine, and calcareous tufa) Granite (including gneiss, syenite, and diorite) Other crushed and broken stone (riprap, slate, marble, trap rock,	225.5 47.4	251.9 35.2
140065 190008	sandstone, quartz, and miscellaneous types of stone)	74.2 4.1 8	45.5 (¹) (¹) 97.2
281001 324102	Réady-mixed concrete chemical processing preparations and materials Stone, clay, glass, and concrete products: Portland and blended cements	230.2	97.2
329520	Lightweight aggregate (including vermiculite, perlite, expanded clays, shale, and slag) Other stone, clay, glass, and concrete products	1.6	(1)
320099 970099 971000	All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k.2	73.9 398.0 2 358.0	1392.3 2 520.9
	INDUSTRY 3274, LIME		
	Materials, ingredients, containers, and supplies	194.7	156.9
263112 267420 260080	Paper and allied products: Paperboard liners Paper shipping sacks and multiwall bags Other paper and allied products	(D) 8.4 .8	(¹) 7.3 (¹)
320591	Stone, clay, glass, and concrete products: Refractories, clay or nonclay Cement clinker	20.6	4.2
324103 329509 320020 142011 970099 971000	Cement clinker Minerals and earths, ground or otherwise treated Other stone, clay, glass, and concrete products Crushed and broken stone (including cement rock, limestone, etc.) All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. ²	- 2.0 (D) 62.7 89.4 8.1	- 9.3 (1) 42.3 174.8 19.1
	INDUSTRY 3275, GYPSUM PRODUCTS		
	Materials, ingredients, containers, and supplies	1 001.1	1 067.1
263112 267420 260080	Paper and allied products: Paper board liners Paper shipping sacks and multiwall bags Other paper and allied products	108.2 (D) 208.6	203.4 6.2 (¹)
320591 324103	Stone, clay, glass, and concrete products: Refractories, clay or nonclay Cement clinker	.6 (D)	4.7 (¹)
329509 320020 142011 970099 971000	Minerals and earths, ground or otherwise treated	93.3 29.8 122.2 401.5 27.5	199.6 (1) 40.5 1503.7 108.9
	INDUSTRY 3281, CUT STONE AND STONE PRODUCTS		
	Materials, ingredients, containers, and supplies	271.5	301.8
141101 329104 342301 970099 971000	Rough blocks used to produce dressed stone Abrasives and abrasive products Stonecutting tools and accessories (including blades) All other materials and components, parts, containers, and supplies, ns.k.2 Materials, ingredients, containers, and supplies, ns.k.2	83.5 4.8 12.5 32.7 138.0	83.4 12.0 29.1 48.3 129.0

Table 8. Employees Engaged in Transportation: 1992

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

		Total		Establishments reporting transportation employees				
SIC code	Industry			То	tal	Engaged in transportation		
0000		Employees (1,000)	Payroll (millions)	Employees (1,000)	Payroll (millions)	Employees (1,000)	Payroll (millions)	
3273	Ready-mixed concrete	82.4	2 291.5	37.8	1 071.9	21.9	539.7	

Note: Establishments in selected industries were instructed to report number of employees included in total employment that were engaged in delivery of products sold by that establishment and utilized as a separate work force.

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¹For 1987, data for this material code were included with material code 970099. ²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Appendix A. **Explanation of Terms**

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3c of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies. A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the *General Summary* subject report.

Employment and related items. The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave,

paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers. This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees. This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truckdrivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development

laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the *General Summary* and geographic area reports as a separate category.

Payroll. This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year 1992. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, 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 corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

Production-worker hours. This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials. This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Specific materials consumed. In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the establishments consuming less than a specified amount (usually \$25,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See Census of Manufactures for the importance of administrative records in the industry.)

Value of shipments. This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Individual products. As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1992 census program, information was collected on the output of almost 11,000 individual product items. The term "product," as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 terms; whereas, "motor gasoline" was reported as a single item.

Approximately 6,300 of the product items were listed separately on the 1992 census report forms. Data for

about 4,500 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1992 for these items, as derived from the commodity surveys, are shown in the "products shipped" table.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1987 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers also was collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production also was collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

Classes of products. To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Census of Manufactures, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1992 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, etc. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments. The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Value added by manufacture. This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures. For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to

manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories. Respondents were asked to report their 1991 and 1992 end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1992 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing", which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios. These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

Supplemental labor costs. Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they

were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

Retirements of depreciable assets. Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1992. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Depreciation charges for fixed assets. This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

Rental payments. Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these companyowned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Depreciable assets. Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all

buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

New and used capital expenditures. The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Quantity of electric energy consumed for heat and power. Data on the cost of purchased electric energy are collected on all census forms. However, data on the quantity of purchased electric energy are collected only on the ASM forms. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

Breakdown of new capital expenditures for machinery and equipment. ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

Foreign content of cost of materials. Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.

Cost of purchased services. ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, communication services, legal services, accounting and bookkeeping services, advertising, software and other data processing services, and refuse removal. Each of these items reflect the costs paid directly by the establishment, and exclude salaries paid to employees of the establishment for these services.

Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Included in the cost of purchased advertising services are payments for printing, media coverage, and other advertising services and materials.

Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit).

Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industry-based parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographicallybased instead of industry-based. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed:

$$Rj = \frac{NMc}{TMEasm}$$

where:

NMc = the census value of new capital expenditures for machinery and equipment

TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

Appendix B.

Annual Survey of Manufactures Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 64,000 manufacturing establishments selected from a total of about 216,000 establishments. These 216,000 establishments represent all manufacturing establishments of multiunit companies and all single-establishment companies mailed schedules in the 1987 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1987 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

For the current panel, all establishments of companies with 1987 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 64,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1987 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1987 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all singleestablishment companies that were tabulated as administrative records in the 1987 Census of Manufactures. Although this portion contained approximately 134,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-records information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1988-1991 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1987 census published number for an item total and the linear ASM estimate of the total for 1987. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail

establishments, to produce the estimates for the years 1983-1991. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

However, the 1992 sample estimates for the purchased service items, shown in table 3c, are strictly ASM linear estimates developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3c, showing the break-down of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- 2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
- 3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

Appendix C.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
32113 00 32113 00 32113 00	32113 21 32113 41 32113 69	32318 84 32318 84	32318 81 32318 83	32630 00 32630 00	32630 15 32630 19	32922 58 32922 58	32922 51 32922 55
32114 24 32114 24	32114 21 32114 23	32410 18 32410 18 32410 23	32410 15 32410 17 32410 22	32640 55 32710 34	32640 52 32710 00	32927 10 32927 10 32927 11	32927 15 32927 31 32927 33
32293 25 32293 29	32293 00 32293 00	32610 20 32610 61 32610 70	32610 10 32610 51 32610 10	32721 37 32721 37	32721 36 32721 39	32927 11 32927 12 32927 12	32927 34 32927 41 32927 77
32313 00 32313 00 32313 00	32313 21 32313 41 32313 69	32610 70 32620 00 32620 00	32610 51 32620 15 32620 19	32722 99 32722 99 32740 72	32722 41 32722 98 32740 00	32927 12 32927 99 32927 99 32927 99	32927 78 32927 14 32927 36 32927 98

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
32113 21 32113 41 32113 69	32113 00 32113 00 32113 00	32318 81 32318 83	32318 84 32318 84	32630 15 32630 19	32630 00 32630 00	32922 51 32922 55	32922 58 32922 58
32114 21 32114 23	32114 24 32114 24	32410 15 32410 17 32410 22	32410 18 32410 18 32410 23	32640 52 32710 00	32640 55 32710 34	32927 14 32927 15 32927 31	32927 99 32927 10 32927 10
32293 00 32293 00	32293 25 32293 29	32610 10 32610 10 32610 51	32610 20 32610 70 32610 61	32721 36 32721 39	32721 37 32721 37	32927 33 32927 34 32927 36	32927 11 32927 11 32927 99
32313 21 32313 41 32313 69	32313 00 32313 00 32313 00	32610 51 32620 15 32620 19	32610 70 32620 00 32620 00	32722 41 32722 98 32740 00	32722 99 32722 99 32740 72	32927 41 32927 77 32927 78 32927 98	32927 12 32927 12 32927 12 32927 99

Part 3. Current Industrial Reports by Product Code

[Current Industrial Reports (CIR) data are contained in the publication Manufacturing Profiles: 1992 [MP-1(92)] issued August 1994 and available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. To access the most current CIR data electronically, dial the Census-BEA Electronic Forum at 301-457-2310. Your communications modem should be set as follows: Baud rate: 1200, 2400, 9600; Parity: None; Data bits: 8; Stop bits: 1; Duplex: full. Before making your first call, decide on a password and be prepared to provide the following regarding your computer: PC brand name, monitor screen dimensions (e.g., 80 columns by 24 lines), monitor color support, modem baud rate, and PC communications software package. Call the voice number, 301-457-1242, for further bulletin board assistance]

Product code	Current Industrial Report
3211500 3229500 3229600 3229700 3229800	MQ32A, Flat Glass MA32E, Consumer, Scientific, Technical, and Industrial Glassware
3231892 3251011 3251020 3253000 3255000	MA33L, Insulated Wire and Cable MQ32D, Clay Construction Products MQ32D, Clay Construction Products MQ32D, Clay Construction Products MQ32D, Clay Construction Products MA32C, Refractories
3259100 3261020 3274071 3295020 3297000	MG32D, Clay Construction Products MG34E, Plumbing Fixtures MA32C, Refractories MA32C, Refractories MA32C, Refractories MA32C, Refractories

Publication Program

1992 CENSUS OF MANUFACTURES

Publications of the 1992 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—83 reports (MC92-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—83 reports (MC92-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC92-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—3 reports (MC92-S-1 to -3)

Each of the three reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC92-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Location of Manufacturing Plants—1 report (MC92-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and Zip Codes for each State. This report is available only on compact disc-read only memory (CD-ROM).

Analytical Reports—2 reports (AR92-1 and -2)

Exports From Manufacturing Establishments (AR92-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR92-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Electronic Media

All data included in the printed reports are available on CD-ROM. The CD-ROM's provide the same information found in the reports as well as additional information not published in the final reports, such as location of manufacturing plants. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, financial, insurance, real estate, service industries, construction industries, mineral industries, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.