

1992 Census of Manufactures

MC92-A-30

GEOGRAPHIC AREA SERIES

New Hampshire



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If you have any questions concerning the statistics in this report, call 301-457-4741.

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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 1 of a series of 51 reports for each State and the District of Columbia. Each report contains such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, and capital expenditures for each State and its important metropolitan areas (MA's), counties, and places, by industry groups and individual industries. Selected statistical totals for "all manufacturing" have been shown for metropolitan areas with 250 employees or more and for counties and places with 500 employees or more.

Additional separate reports have been issued for 83 industry reports, each of which provides statistics for individual industries or groups of related industries and for special subjects such as manufacturers' shipments to the Federal Government and concentration ratios in manufacturing.

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*¹ This is the system of industrial

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

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 power-driven 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 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 industry-by-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-record 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-record 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-record 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-record 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-record 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

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.

In the 1992 census, as in previous censuses, respondents were asked to file separate report forms (ES-9200) for auxiliary units which were 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.

This report includes information for separately operated auxiliaries tabulated from form ES-9200. Data for these establishments are included at the total manufacturing level in each table of this report and are shown separately in tables 5 through 9. Also included in this report are data for those auxiliary operations that are conducted at the same location as the manufacturing operation and are collected as an integral part of the census of manufactures report form for the operating manufacturing establishment. These data are not shown separately in the tables.

A separate report on all separately operated auxiliaries, including those serving nonmanufacturing establishments, will be issued as part of the Enterprise Statistics program of the 1992 Economic Census. This report will provide data by industry of the establishment served, by primary activity of the parent company, by size of auxiliary, and by size of the parent company. Data will be presented on employment by type of activity performed by the employees and primary activity of the auxiliary. Information also will be shown on capital expenditures, inventories, and cost of research and development.

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 three-digit 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-record 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.), therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for States, metropolitan areas (MA's), counties, and incorporated municipalities including cities, towns, villages, boroughs, and townships.

A computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The assignment of tentative code numbers by the computer was based on extensive reference files which have been continually updated and expanded. The prefix symbol indicated whether the information contained in the mailing address was sufficient to provide a clearly acceptable area code or whether there was some question about the physical location of the establishment. An example of this situation is when the mailing address is a P.O. box or a central office. Respondents were required to report their physical location (street address, municipality, county, and State) if it differed from their mailing address.

Whenever the respondent reported a physical location different from the mailing address, the corrected address was used to assign a geographic code to the establishment. In addition, if the prefix symbol indicated any question about the acceptability of the mailing address, the information received from the respondent on the actual location was later carefully reviewed. As in previous censuses, the mailing address of the establishment was not always accepted as defining the physical location. For nonmail establishments (and those single-establishment companies that did not provide acceptable information on physical location), location information from the Internal Revenue Service tax forms was used as a basis for coding.

GEOGRAPHIC AREAS COVERED

The State. Total data for each State and the District of Columbia are published in tables 1 through 4. Table 5 presents data by State for two-, three-, and four-digit SIC industries with 100 manufacturing employees or more, except those whose inclusion would disclose data for individual companies.

Metropolitan areas (MA's)². An MA is an integrated economic and social unit with a large population nucleus of at least 50,000 inhabitants³. Each MA consists of one or more counties or statistically equivalent areas meeting

published standards of population and metropolitan character; in the six New England States (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), cities and towns (rather than counties) are used as the component geographic units.

An MA with a population of at least 1 million or more may be subdivided into primary metropolitan statistical areas (PMSA's). A PMSA consists of a large urbanized county or a cluster of counties (cities and towns in New England) that demonstrate very strong internal economic and social links separate from the ties to other portions of its MA.

Where PMSA's are defined, the MA of which they are component parts is redesignated as a consolidated metropolitan statistical area (CMSA).

Table 4 shows all manufacturing totals for CMSA's, MSA's, and PMSA's. Table 6 includes industry detail at two-, three-, and four-digit SIC level for CMSA's, MSA's, and PMSA's with 250 manufacturing employees or more, except those whose inclusion would disclose the data for individual companies.

Industrial counties or county equivalents⁴. Counties are the primary divisions of States, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their States. These places are treated as counties. Table 4 presents total data for counties. Table 7 presents data by county for two-, three-, and four-digit industries with 500 manufacturing employees or more, except those whose inclusion would disclose data for individual companies.

Consolidated cities. Consolidated cities are consolidated governments which consist of separately incorporated municipalities. Table 4 presents total data for consolidated cities with 500 manufacturing employees or more.

Places with 500 manufacturing employees or more. The term "places" includes boroughs, towns, and villages, except boroughs in Alaska and New York. For census purposes, places are defined as incorporated municipalities with populations of at least 2,500 or unincorporated municipalities with populations of at least 25,000 based on the 1990 population census or subsequent special census. In addition, a few "industrial park" areas of substantial manufacturing activity but with population below the specified limits have been included in the 1992 Census of Manufactures. Table 4 presents total data for places with 500 manufacturing employees or more. Table 8 presents data by places for two-, three-, and four-digit industries with 500 manufacturing employees or more, except those whose inclusions would disclose data for individual companies.

²Each CMSA, MSA, and PMSA is defined as of June 30, 1993.

³According to the 1990 census of population or subsequent social census.

⁴Those defined as of January 1, 1992.

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 4 through 8 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.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
CMSA	Consolidated metropolitan statistical area.
IC	Independent city.
MA	Metropolitan area.
MSA	Metropolitan statistical area.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
PMSA	Primary metropolitan statistical area.
pt	Part.
r	Revised.
SIC	Standard Industrial Classification.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Census, ASM, and CIR		
SIC's 20-23, 3021, 31	Judy Dodds	301-457-4651
SIC's 24-30 (exc. 3021), 32	Michael Zampogna	301-457-4810
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 definitions of metropolitan areas and explanation of terms, see appendixes]

Item	State statistics				Metropolitan area statistics				County statistics		Statistics for selected places	
	Historical	Operating ratios	All manufacturing totals	By selected industry	Historical (selected areas)	Operating ratios (selected areas)	All manufacturing totals	By selected industry	All manufacturing totals	By selected industry	All manufacturing totals	By selected industry
Number of establishments:												
Total.....	2a		*3a, 4	5	2a		4	6	4	7	4	8
By employment-size class.....				9								
Number of companies			3a									
Employment and payroll:												
Number of employees	1, 2a	2b	3a, 4	5	2a	2b	4	6	4	7	4	8
Payroll	1, 2a	2b	3a, 4	5	2a	2b	4	6	4	7	4	8
Supplemental labor costs ..			*3a									
Production workers.....	2a	2b	*3a, 4	5	2a	2b	4	6	4	7	4	8
Production-worker hours ..	2a	2b	*3a, 4	5	2a	2b	4	6	4	7	4	8
Production-worker wages..	2a	2b	3a, 4	5	2a	2b	4	6	4	7	4	8
Shipments, cost of materials, and value added:												
Value of shipments.....	2a	2b	3a, 4	5	2a	2b	4	6	4	7	4	8
Value added by manufacture.....	2a	2b	3a, 4	5	2a	2b	4	6	4	7	4	8
Cost of materials.....	2a	2b	*3a, 4	5	2a	2b	4	6	4	7	4	8
Cost of fuels and electric energy.....			3a									
Quantity of electric energy.....			*3a									
Inventories:												
Beginning and end of year.....			*3a									
By stage of fabrication....			*3a									
Capital expenditures, assets, rental payments, and purchased services:												
New capital expenditures..	2a		*3b, 4	5	2a		4	6	4	7	4	8
Used plant and equipment expenditures.....			*3b									
Gross assets			*3b									
Depreciation.....			*3b									
Retirements of buildings and machinery.....			*3b									
Rental payments.....			*3b									

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Summary of Findings

In 1992, 93.5 thousand persons were employed in New Hampshire's manufacturing establishments. This figure represented a decrease of 13 percent from the 1987 figure of 107.9 thousand workers.

The total value added by manufacture for the State amounted to \$6.5 billion in 1992. This figure, along with all dollar figures in this report, are at prices current for the year specified and, therefore, are unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

In the State, the leading industry groups ranked by employment were industrial machinery and equipment, electronic and other electric equipment, instruments and related products, and rubber and miscellaneous plastics products. They accounted for approximately 49 percent of the State's 1992 employment. These same industry groups

were the leaders in 1987 when they accounted for approximately 51 percent of the State's employment.

The leading counties in the State ranked by employment were Hillsborough, Rockingham, Strafford, and Merrimack. They accounted for approximately 72 percent of the State's 1992 manufacturing employment. These same counties were the leaders in 1987 when they accounted for approximately 74 percent of the State's employment.

Single-establishment companies with up to 20 employees (cutoff varied by industry) 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. For this State, these establishments accounted for 11 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Auxiliaries for the State and Metropolitan Areas: 1992 and Earlier Census Years

[For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and general geographic information, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and year	All establishments		Operating manufacturing establishments		Auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
NEW HAMPSHIRE						
1992 Census.....	93.5	2 818.7	89.4	2 583.3	4.2	235.4
1987 Census.....	107.9	2 508.7	104.4	2 387.4	3.5	121.3
1982 Census.....	107.4	1 792.0	105.1	1 721.4	2.3	70.6
1977 Census.....	95.3	1 029.0	94.2	1 008.1	1.1	20.9
METROPOLITAN AREAS						
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA						
1992 Census.....	443.3	15 617.8	408.1	13 641.4	35.2	1 976.4
Boston, MA–NH PMSA						
1992 Census.....	242.3	8 957.8	222.7	7 832.1	19.6	1 125.7
Brockton, MA PMSA²						
1992 Census.....	11.2	308.7	(D)	(D)	(D)	(D)
1987 Census.....	10.9	222.8	10.8	220.3	.1	2.5
1982 Census.....	12.0	173.0	11.8	170.2	.2	2.8
1977 Census.....	12.6	125.4	12.1	120.0	.5	5.4
Fitchburg–Leominster, MA PMSA						
1992 Census.....	13.7	409.3	13.5	398.5	.2	10.8
Lawrence, MA–NH PMSA						
1992 Census.....	38.6	1 341.7	37.3	1 272.2	1.3	69.5
Lowell, MA–NH PMSA²						
1992 Census.....	27.9	1 099.2	22.1	773.0	5.8	326.3
1987 Census.....	37.5	1 059.1	36.3	1 021.1	1.2	38.0
1982 Census.....	37.7	889.2	33.3	777.3	4.4	111.9
1977 Census.....	23.1	277.5	21.4	241.1	1.7	36.4
Manchester, NH PMSA²						
1992 Census.....	11.1	321.1	10.8	311.2	.3	9.9
Nashua, NH PMSA²						
1992 Census.....	23.6	890.9	(D)	(D)	(D)	(D)
New Bedford, MA PMSA						
1992 Census.....	15.1	364.0	14.2	344.9	.9	19.0
1987 Census.....	20.1	386.7	(D)	(D)	(D)	(D)
1982 Census.....	24.0	334.7	23.8	330.5	.2	4.2
1977 Census.....	24.3	242.5	23.9	237.0	.4	5.5
Portsmouth–Rochester, NH–ME PMSA²						
1992 Census.....	17.7	514.2	16.6	452.5	1.1	61.7
1987 Census.....	19.8	455.5	19.1	431.4	.7	24.1
1982 Census.....	17.3	283.7	17.3	283.7	–	–
Worcester, MA–CT PMSA						
1992 Census.....	42.1	1 410.7	39.1	1 224.5	3.1	186.3

¹Defined in introductory text. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 through 9.

²Definition of metropolitan area has been revised for 1992. Data tabulated under 1992 definition differ by less than 3 percent from 1992 data tabulated under old definition. Data prior to 1992 are based on the old definition.

Table 2a. Historical Statistics for the State and Selected Metropolitan Areas: 1992 and Earlier Census Years

[Includes operating manufacturing establishments and auxiliaries. Includes MA's with 40,000 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Year ¹	All establishments ²		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment	Index of State/MSA employment change (1987 = 100)	Index of U.S. manufacturing employment change (1987 = 100)	U.S. manufacturing employment (1,000)
NEW HAMPSHIRE															
1992 Census -	2 331	732	93.5	2 818.7	60.4	120.6	1 472.6	6 523.0	4 777.4	11 316.3	344.2	.51	87	96	18 253.3
1987 Census -	2 328	735	107.9	2 508.7	71.5	141.6	1 426.8	8 188.6	4 351.1	12 214.2	339.8	.57	100	100	18 949.2
1982 Census -	1 981	721	107.4	1 792.0	75.3	144.9	1 054.9	4 004.0	3 609.3	7 635.6	246.2	.56	100	101	19 094.1
1977 Census -	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0	.49	88	103	19 590.1
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA															
1992 Census -	9 241	3 252	443.3	15 617.8	248.5	500.9	6 654.0	34 551.1	26 293.7	61 304.6	1 903.1	2.43	(NA)	96	18 253.3
Boston, MA-NH PMSA															
1992 Census -	5 285	1 803	242.3	8 957.8	125.8	255.2	3 511.0	19 724.4	14 181.8	34 247.2	1 075.4	1.33	(NA)	96	18 253.3
Worcester, MA-CT PMSA															
1992 Census -	888	357	42.1	1 410.7	25.2	53.2	641.6	2 687.7	2 440.8	5 176.1	164.1	.23	(NA)	96	18 253.3

¹For intercensal data for the years between 1963 and 1978, see the 1978-1979 Annual Survey of Manufactures (ASM) clothbound volume. For intercensal State data for the years 1983 through 1986, see 1986 Annual Survey of Manufactures, Geographic Area Statistics, (M86(AS)-3) table 1. No data are available for the years 1979, 1980, and 1981. For intercensal State data for the years 1988 through 1991, see the 1991 Annual Survey of Manufactures, Geographic Area Statistics (M91(AS)-3) table 1. For data prior to 1963, see the 1963 Census of Manufactures, vol. III, table 2 of the State chapter.

²Includes establishments with payroll at any time during year.

³Value added by manufacture for 1982 is computed using inventory data reported at cost or market prior to any adjustment to LIFO cost. This uniform instruction is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1987 and 1982 data for value added by manufacture are not comparable to prior-year data. For further explanation, see Inventories in appendixes.

⁴Aggregate of cost of materials and value of shipments includes extensive duplication since products of some industries are used as materials by others.

Table 2b. Selected Operating Ratios for the State and Selected Metropolitan Areas: 1992 and Earlier Census Years

[Includes operating manufacturing establishments and auxiliaries. Includes MA's with 40,000 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and year	Payroll per employee (dollars)	Production worker 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)
NEW HAMPSHIRE									
1992 Census	30 147	65	1 997	12.21	42	67	69 765	43	54.09
1987 Census	23 250	66	1 980	10.08	36	56	75 891	31	57.83
1982 Census	16 685	70	1 924	7.28	47	71	37 281	45	27.63
1977 Census	10 797	76	1 917	4.68	47	72	22 820	47	15.76
METROPOLITAN AREAS									
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA									
1992 Census	35 231	56	2 016	13.28	43	68	77 941	45	68.98
Boston, MA-NH PMSA									
1992 Census	36 970	52	2 029	13.76	41	68	81 405	45	77.29
Worcester, MA-CT PMSA									
1992 Census	33 508	60	2 111	12.06	47	74	63 841	52	50.52

Note: For qualifications of data, see footnotes in table 2a.

Table 3a. Summary Statistics for the State: 1992

[Includes operating manufacturing establishments and auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Companies ¹	2 211	Cost of materials ³	4 777.4
All establishments ²	2 331	Materials, parts, containers, etc., consumed	4 086.2
With 1 to 19 employees	1 599	Resales	264.8
With 20 to 99 employees	535	Fuels	64.6
With 100 employees or more	197	Purchased electricity	148.2
Employment and labor costs:		Contract work	213.6
Employees	93.5	Quantity of electric energy used for heat and power:	
Compensation, total	3 488.9	Purchased	1 746.7
Annual payroll	2 818.7	Generated less sold	(D)
Fringe benefits	670.3	Value of shipments ³	11 316.3
Social Security and other legally required payments	263.7	Value added by manufacture	6 523.0
Employer payments and other programs	406.5	Inventories by stage of fabrication:	
Production workers:		Beginning of 1992	1 720.7
Average for year	60.4	Finished goods	436.4
March	60.4	Work-in-process	680.3
May	60.6	Materials and supplies	603.9
August	60.4	End of 1992	1 678.0
November	60.3	Finished goods	469.0
Hours	120.6	Work-in-process	631.8
Wages	1 472.6	Materials and supplies	577.2

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

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

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

Item	1992	Item	1992
Gross book value of depreciable assets:		Gross book value of depreciable assets—Con.	
Total:		Machinery and equipment:	
Beginning of year	4 523.9	Beginning of year	3 396.5
New capital expenditures	344.2	New capital expenditures	302.5
Used capital expenditures	37.1	Used capital expenditures	21.3
Retirements	130.5	Retirements	116.9
End of year	4 774.7	End of year	3 603.3
Buildings and other structures:		Depreciation charges during 1992:	
Beginning of year	1 127.4	Total	442.4
New capital expenditures	41.8	Buildings and other structures	83.6
Used capital expenditures	15.8	Machinery and equipment	358.8
Retirements	13.6	Rental payments:	
End of year	1 171.4	Total	92.1
		Buildings and other structures	57.3
		Machinery and equipment	34.9

Table 4. Statistics for the State, Metropolitan Areas, Counties, and Selected Places: 1992

[Includes operating manufacturing establishments and auxiliaries. Includes places with 500 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area	E ¹	All establishments ²		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
New Hampshire	E1	2 331	732	93.5	2 818.7	60.4	120.6	1 472.6	6 523.0	4 777.4	11 316.3	344.2
METROPOLITAN AREAS												
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA	E1	9 241	3 252	443.3	15 617.8	248.5	500.9	6 654.0	34 551.1	26 293.7	61 304.6	1 903.1
Portion in Connecticut	–	20	5	.5	15.4	.3	.7	9.0	24.9	28.5	54.7	1.5
Portion in Maine	–	38	6	1.4	38.1	1.0	1.9	22.0	13.9	182.8	190.8	1.3
Portion in Massachusetts	E1	7 931	2 827	383.8	13 668.6	212.3	428.8	5 707.2	30 368.1	22 910.9	53 696.7	1 685.9
Portion in New Hampshire	E1	1 252	414	57.7	1 895.7	34.8	69.5	915.8	4 144.2	3 171.5	7 362.5	214.4
Boston, MA–NH PMSA	E1	5 285	1 803	242.3	8 957.8	125.8	255.2	3 511.0	19 724.4	14 181.8	34 247.2	1 075.4
Portion in Massachusetts	E1	5 257	1 794	241.2	8 922.0	125.1	254.0	3 494.3	19 660.1	14 102.0	34 104.5	1 071.1
Portion in New Hampshire	–	28	9	1.1	35.9	.6	1.1	16.7	64.3	79.8	142.7	4.3
Brockton, MA PMSA	–	382	111	11.2	308.7	7.3	14.0	160.9	693.6	572.0	1 266.8	29.6
Fitchburg–Leominster, MA PMSA	E1	330	119	13.7	409.3	9.5	20.4	229.6	1 121.1	858.8	1 996.1	58.1
Lawrence, MA–NH PMSA	–	592	221	38.6	1 341.7	24.1	46.3	670.2	3 828.4	2 932.9	6 674.6	165.8
Portion in Massachusetts	–	395	166	33.1	1 171.9	21.4	41.0	602.6	3 297.4	2 563.1	5 769.7	146.9
Portion in New Hampshire	E2	197	55	5.5	169.8	2.7	5.3	67.5	530.9	369.7	904.9	18.9
Lowell, MA–NH PMSA	–	458	184	27.9	1 099.2	13.2	26.5	371.0	2 032.2	1 653.0	3 819.9	114.9
Portion in Massachusetts	–	443	183	27.8	1 097.4	13.2	26.4	370.0	2 029.5	1 650.7	3 814.9	114.9
Portion in New Hampshire	E4	15	1	.1	1.8	(Z)	.1	1.0	2.7	2.3	5.0	.1
Manchester, NH PMSA	E1	289	99	11.1	321.1	7.4	15.1	171.6	720.3	615.6	1 335.1	38.2

See footnotes at end of table.

MANUFACTURES—GEOGRAPHIC AREA SERIES

NEW HAMPSHIRE NH-7

Table 4. Statistics for the State, Metropolitan Areas, Counties, and Selected Places: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes places with 500 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area	E ¹	All establishments ²		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
METROPOLITAN AREAS—Con.												
Boston—Worcester—Lawrence, MA—NH—ME—CT CMSA—Con.												
Nashua, NH PMSA	—	415	147	23.6	890.9	14.0	26.5	412.9	1 726.9	1 161.7	2 909.4	95.4
New Bedford, MA PMSA	—	256	102	15.1	364.0	10.9	20.6	217.1	903.7	751.9	1 623.5	102.7
Portsmouth—Rochester, NH—ME PMSA	—	346	109	17.7	514.2	11.1	23.3	268.0	1 112.9	1 125.1	2 256.1	58.9
Portion in Maine	—	38	6	1.4	38.1	1.0	1.9	22.0	13.9	182.8	190.8	1.3
Portion in New Hampshire	E1	308	103	16.3	476.2	10.1	21.4	246.1	1 099.0	942.3	2 065.3	57.6
Worcester, MA—CT PMSA	E1	888	357	42.1	1 410.7	25.2	53.2	641.6	2 687.7	2 440.8	5 176.1	164.1
Portion in Connecticut	—	20	5	.5	15.4	.3	.7	9.0	24.9	28.5	54.7	1.5
Portion in Massachusetts	E1	868	352	41.7	1 395.3	24.8	52.4	632.6	2 662.8	2 412.4	5 121.4	162.6
COUNTIES												
Belknap County	E2	133	42	3.8	91.9	2.8	5.5	55.1	168.8	103.8	274.6	12.2
Carroll County	E1	84	16	1.0	21.3	.7	1.4	12.7	57.3	43.8	100.1	1.4
Cheshire County	E1	183	52	6.8	195.2	4.4	8.4	103.8	452.1	270.2	710.7	19.3
Coos County	—	107	23	3.9	92.6	3.2	6.3	66.6	257.8	270.7	525.4	35.0
Grafton County	E1	167	53	6.2	160.0	4.3	9.0	98.0	380.0	218.5	594.8	16.7
Hillsborough County	—	693	240	35.1	1 224.7	21.6	42.1	592.0	2 578.1	1 741.6	4 338.4	140.6
Merrimack County	—	225	78	8.3	215.5	5.6	11.5	122.4	493.9	444.7	938.3	25.9
Rockingham County	E1	466	134	13.9	438.1	7.9	16.3	198.5	1 082.4	923.7	2 003.9	51.9
Strafford County	—	151	55	10.3	282.9	6.3	13.2	150.7	698.7	591.3	1 316.6	32.2
Sullivan County	—	122	39	4.2	96.3	3.4	6.8	72.8	353.9	169.3	513.5	9.0
PLACES												
Berlin	—	22	8	1.8	45.7	1.3	2.5	30.0	112.3	120.6	229.9	(D)
Claremont	—	43	19	1.9	38.5	1.5	2.8	25.9	185.8	99.0	277.5	3.5
Concord	—	69	26	2.6	64.0	1.5	3.1	29.3	126.2	118.3	243.9	8.1
Derry town	E1	31	11	1.3	36.3	.8	1.7	17.8	104.7	60.3	166.6	5.9
Dover	E1	54	19	4.3	121.3	2.4	5.5	62.9	203.4	240.5	465.6	10.2
Exeter town	E1	23	10	.9	33.0	.6	1.2	10.3	42.5	38.2	79.9	(D)
Franklin	—	23	9	1.2	31.3	.9	1.8	20.2	115.4	89.1	204.2	(D)
Hampton town	—	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4
Hudson town	E1	71	32	3.6	106.4	2.2	4.2	49.0	224.4	166.3	389.7	15.1
Keene	—	53	18	3.3	98.8	2.0	3.9	46.8	209.1	100.3	305.9	7.7
Laconia	E2	59	22	2.4	57.4	1.7	3.5	35.2	106.1	67.2	176.0	9.3
Lebanon	E2	41	19	2.0	61.4	1.3	2.6	35.8	131.8	60.8	192.3	3.8
Londonderry town	E1	56	18	1.0	30.9	.6	1.4	15.5	77.2	115.0	190.0	3.2
Manchester	E1	163	67	8.3	236.7	5.5	11.4	124.3	556.9	426.3	983.5	30.2
Merrimack town	—	32	14	2.3	83.3	1.5	2.7	43.0	274.7	215.9	491.8	16.9
Milford town	—	44	17	2.2	69.0	1.3	2.5	36.0	142.4	97.7	236.8	9.0
Nashua	—	149	51	12.7	550.2	7.5	13.9	252.4	948.1	546.8	1 501.2	47.6
Portsmouth	E3	62	19	1.8	46.8	1.2	2.6	27.6	106.3	140.4	246.7	5.7
Rochester	—	46	22	2.7	63.5	1.5	3.0	25.4	350.9	177.9	518.4	12.8
Salem town	E2	72	28	2.9	99.0	1.0	2.0	32.0	358.6	254.3	615.5	9.6
Somersworth	E1	20	5	2.0	59.7	1.6	3.1	43.8	96.1	85.8	195.5	5.4

¹Payroll, employment, and sales data for some small single unit 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 other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated 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.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1992 and 1987

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 100 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992											1987		
		E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)						
	All industries	E1	2 331	732	93.5	2 818.7	60.4	120.6	1 472.6	6 523.0	4 777.4	11 316.3	344.2	107.9	8 188.6
20	Food and kindred products	-	61	21	2.7	76.1	1.8	3.7	49.5	395.0	505.4	900.8	19.3	2.3	352.2
201	Meat products	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
2013	Sausages and other prepared meats	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
202	Dairy products	E3	11	5	.4	8.0	.1	.3	2.9	18.3	69.0	87.4	1.0	.4	22.7
2026	Fluid milk	E3	7	4	.3	7.6	.1	.3	2.7	17.9	68.1	86.1	1.0	E	(D)
203	Preserved fruits and vegetables	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(NA)	(D)
2038	Frozen specialties, n.e.c.	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	-	7	3	.8	32.8	.6	1.1	23.1	278.4	208.3	487.0	12.8	F	(D)
2082	Malt beverages	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
209	Miscellaneous food and kindred products	E2	20	6	.6	14.5	.5	1.2	10.5	64.3	109.1	173.3	4.2	(NA)	(NA)
2092	Fresh or frozen prepared fish	E3	10	4	.5	10.6	.4	.9	8.3	26.6	80.4	107.0	3.1	(NA)	(NA)
2095	Roasted coffee	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
22	Textile mill products	-	41	25	3.3	80.9	2.6	5.5	55.0	197.4	170.5	364.4	14.7	4.0	172.8
222	Broadwoven fabric mills, manmade	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2221	Broadwoven fabrics mills, manmade fiber and silk	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
223	Broadwoven fabric mills, wool	-	5	3	.7	15.3	.6	1.3	11.8	33.0	36.5	68.4	2.6	G	(D)
2231	Broadwoven fabrics mills, wool	-	5	3	.7	15.3	.6	1.3	11.8	33.0	36.5	68.4	2.6	G	(D)
224	Narrow fabric mills	-	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	47.3
2241	Narrow fabrics mills	-	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	47.3
225	Knitting mills	-	7	5	.5	10.7	.4	.7	6.5	31.3	45.1	75.8	1.4	.8	33.4
2253	Knit outerwear mills	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
2257	Weft knit fabrics mills	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
226	Textile finishing, except wool	E3	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
227	Carpets and rugs	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
2273	Carpets and rugs	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
228	Yarn and thread mills	E2	5	2	.1	2.1	.1	.3	1.6	3.4	5.5	8.8	.3	(NA)	(D)
2281	Yarn spinning mills	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
229	Miscellaneous textile goods	-	11	5	.6	18.4	.5	.9	13.1	32.0	29.5	60.4	(D)	F	(D)
2299	Textile goods, n.e.c.	-	5	4	.5	15.9	.4	.8	11.9	27.0	22.8	48.8	(D)	(NA)	(D)
23	Apparel and other textile products	E6	66	21	2.0	37.7	1.5	2.7	21.5	86.4	24.1	107.1	(D)	G	(D)
232	Men's and boys' furnishings	E1	6	4	.4	5.7	.3	.6	4.7	6.8	5.2	12.3	(D)	.4	8.4
2323	Men's and boys' neckwear	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E1	18	9	.8	9.8	.7	1.2	8.4	15.8	1.5	17.4	(D)	F	(D)
2337	Women's, misses', and juniors' suits and coats	-	4	3	.2	2.4	.2	.3	1.9	3.4	.3	3.7	(D)	(NA)	(NA)
2339	Women's, misses', and juniors' outerwear, n.e.c.	E1	10	5	.5	6.8	.5	.8	5.9	11.5	1.1	12.6	(D)	E	(D)
239	Miscellaneous fabricated textile products	E9	33	4	.7	20.6	.4	.7	7.4	60.1	15.2	71.5	(D)	E	(D)
2392	Housefurnishings, n.e.c.	E8	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
2396	Automotive and apparel trimmings	E9	7	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products	E2	326	51	3.9	80.5	3.0	5.9	53.4	172.0	206.6	376.2	8.2	5.8	221.3
241	Logging	E3	135	1	.5	8.0	.4	.8	6.4	28.2	31.8	59.7	1.8	.6	22.4
2411	Logging	E3	135	1	.5	8.0	.4	.8	6.4	28.2	31.8	59.7	1.8	.6	22.4
242	Sawmills and planing mills	E1	71	19	1.2	26.6	.9	1.8	17.9	58.5	81.9	138.5	4.1	1.3	45.8
2421	Sawmills and planing mills, general	E1	69	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
243	Millwork, plywood, and structural members	E1	43	11	.9	19.4	.7	1.3	12.2	35.5	51.3	86.2	.8	1.3	64.2
2431	Millwork	E1	26	8	.6	12.7	.5	.8	7.2	18.3	36.1	53.8	.7	.8	42.3
2434	Wood kitchen cabinets	-	16	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
244	Wood containers	E3	15	5	.2	3.3	.2	.4	2.4	6.3	5.7	12.0	.1	.2	3.3
245	Wood buildings and mobile homes	E2	17	4	.3	8.3	.2	.4	4.4	15.1	17.7	33.0	.2	1.1	47.2
2452	Prefabricated wood buildings	E2	17	4	.3	8.3	.2	.4	4.4	15.1	17.7	33.0	.2	G	(D)
249	Miscellaneous wood products	E1	45	11	.8	15.0	.6	1.2	10.0	28.3	18.1	46.8	1.1	1.3	38.4
2499	Wood products, n.e.c.	E1	41	11	.7	14.5	.6	1.2	9.7	27.4	16.6	44.4	1.0	1.1	34.1
25	Furniture and fixtures	-	48	14	.9	21.4	.7	1.5	12.8	47.2	43.6	91.5	(D)	G	(D)
251	Household furniture	-	29	6	.5	11.4	.4	.9	7.2	29.8	27.8	58.0	.7	.9	35.5
2511	Wood household furniture	-	23	5	.5	10.1	.4	.8	6.4	26.9	23.0	50.5	.7	.8	30.5
254	Partitions and fixtures	E2	12	5	.2	5.4	.1	.3	3.1	10.6	7.4	18.0	.2	E	(D)
2541	Wood partitions and fixtures	E2	12	5	.2	5.4	.1	.3	3.1	10.6	7.4	18.0	.2	E	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1992 and 1987—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 100 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992											1987		
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
		E	Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)							Wages (million dollars)
26	Paper and allied products.....	-	45	29	4.8	139.7	3.6	7.3	84.9	439.4	383.5	818.0	40.3	5.6	408.0
262	Paper mills.....	-	10	10	2.4	68.1	1.8	3.4	45.2	175.4	197.8	369.4	(D)	(NA)	(D)
2621	Paper mills.....	-	10	10	2.4	68.1	1.8	3.4	45.2	175.4	197.8	369.4	(D)	(NA)	(D)
263	Paperboard mills.....	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2631	Paperboard mills.....	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
265	Paperboard containers and boxes.....	-	8	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	F	(D)
2653	Corrugated and solid fiber boxes.....	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
2657	Folding paperboard boxes.....	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
267	Miscellaneous converted paper products.....	-	24	13	1.8	48.8	1.5	2.9	28.6	210.9	130.8	340.9	4.5	2.3	194.2
2672	Paper coated and laminated, n.e.c.....	-	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
2673	Bags: plastics, laminated, and coated.....	-	4	3	.4	8.3	.3	.6	5.2	13.5	13.1	26.5	(D)	E	(D)
2675	Die-cut paper and board.....	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2676	Sanitary paper products.....	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
27	Printing and publishing.....	-	367	77	7.4	184.5	4.0	7.9	87.2	482.5	218.2	694.5	20.2	7.8	413.4
271	Newspapers.....	E1	55	17	2.1	44.4	.7	1.0	12.5	97.7	20.5	118.4	2.6	2.2	107.3
2711	Newspapers.....	E1	55	17	2.1	44.4	.7	1.0	12.5	97.7	20.5	118.4	2.6	2.2	107.3
272	Periodicals.....	-	33	10	.6	20.4	.1	.1	1.2	104.1	27.8	131.9	.6	.9	88.1
2721	Periodicals.....	-	33	10	.6	20.4	.1	.1	1.2	104.1	27.8	131.9	.6	.9	88.1
273	Books.....	E1	15	4	.2	5.4	.1	.1	1.4	18.9	5.5	24.4	(D)	.2	13.3
2731	Book publishing.....	E1	11	3	.2	4.4	(Z)	.1	.7	17.0	4.2	21.1	(D)	(NA)	(D)
274	Miscellaneous publishing.....	E4	23	3	.2	3.6	.1	.1	1.0	10.8	4.1	14.9	.3	(NA)	(NA)
2741	Miscellaneous publishing.....	E4	23	3	.2	3.6	.1	.1	1.0	10.8	4.1	14.9	.3	(NA)	(NA)
275	Commercial printing.....	E1	195	26	2.3	59.5	1.6	3.3	35.3	123.3	89.3	212.2	9.0	2.4	96.9
2752	Commercial printing, lithographic.....	E1	151	17	1.8	45.2	1.2	2.5	27.8	88.4	66.8	154.9	6.4	1.9	77.4
2759	Commercial printing, n.e.c.....	E1	44	9	.6	14.3	.4	.8	7.6	34.9	22.5	57.4	2.6	.6	19.5
276	Manifold business forms.....	-	6	3	.7	21.1	.5	1.1	15.2	58.3	32.4	90.7	(D)	F	(D)
2761	Manifold business forms.....	-	6	3	.7	21.1	.5	1.1	15.2	58.3	32.4	90.7	(D)	F	(D)
277	Greeting cards.....	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	E	(D)
2771	Greeting cards.....	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	E	(D)
278	Blankbooks and bookbinding.....	-	12	7	.7	12.6	.6	1.2	9.6	39.6	22.6	56.5	(D)	.7	25.1
2782	Blankbooks and looseleaf binders.....	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
2789	Bookbinding and related work.....	-	9	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
279	Printing trade services.....	E3	22	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	.2	8.3
2791	Typesetting.....	-	16	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	(NA)	(NA)
2796	Platemaking services.....	E4	6	3	.2	7.9	.1	.3	4.6	12.0	3.0	14.9	.9	(NA)	(NA)
28	Chemicals and allied products.....	-	37	14	1.4	46.2	.7	1.4	20.5	138.1	138.8	274.2	11.5	1.0	102.4
282	Plastics materials and synthetics.....	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
283	Drugs.....	E1	5	2	.1	2.6	.1	.1	.8	9.9	3.3	13.2	1.2	(NA)	(NA)
2834	Pharmaceutical preparations.....	E1	5	2	.1	2.6	.1	.1	.8	9.9	3.3	13.2	1.2	(NA)	(NA)
284	Soaps, cleaners, and toilet goods.....	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2842	Polishes and sanitation goods.....	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
286	Industrial organic chemicals.....	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
2869	Industrial organic chemicals, n.e.c.....	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
289	Miscellaneous chemical products.....	-	15	6	.5	16.3	.2	.5	6.5	47.1	39.6	85.8	2.0	.3	21.4
2891	Adhesives and sealants.....	-	6	3	.3	8.2	.2	.3	4.5	24.1	23.0	46.7	(D)	E	(D)
2899	Chemical preparations, n.e.c.....	-	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	(NA)	(NA)
29	Petroleum and coal products.....	E3	7	4	.2	6.0	.1	.2	2.8	12.3	10.3	22.8	(D)	(NA)	(D)
295	Asphalt paving and roofing materials.....	E3	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
2951	Asphalt paving mixtures and blocks.....	E3	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
30	Rubber and miscellaneous plastics products.....	-	118	57	8.3	211.4	6.1	13.3	136.4	433.3	412.8	842.9	24.4	9.5	422.2
302	Rubber and plastics footwear.....	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3021	Rubber and plastics footwear.....	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
305	Hose and belting and gaskets and packing.....	-	11	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3053	Gaskets, packing, and sealing devices.....	-	7	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
306	Fabricated rubber products, n.e.c.....	E2	15	10	.9	21.6	.7	1.6	15.3	47.9	43.7	91.7	2.1	1.9	77.0
3061	Mechanical rubber goods.....	E5	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3069	Fabricated rubber products, n.e.c.....	-	11	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

See footnotes at end of table.

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Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 100 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992										1987			
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
		E	Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
30	Rubber and miscellaneous plastics products—Con.														
308	Miscellaneous plastics products, n.e.c.	—	89	40	5.9	155.7	4.1	8.7	96.3	305.6	308.9	609.7	17.7	7.1	330.1
3082	Unsupported plastics profile shapes	—	7	5	.5	13.1	.3	.7	6.4	34.7	29.7	63.9	1.3	.6	25.9
3083	Laminated plastics plate, sheet, and profile shapes	—	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3085	Plastics bottles	—	7	5	.6	15.3	.5	1.0	11.2	29.5	35.2	64.0	2.6	(NA)	(NA)
3086	Plastics foam products	—	5	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3089	Plastics products, n.e.c.	E1	54	22	2.3	55.2	1.7	3.4	33.2	113.6	92.6	204.1	6.1	4.1	185.7
31	Leather and leather products		24	11	1.1	20.8	.8	1.7	11.9	45.1	49.4	92.4	.5	2.8	72.3
314	Footwear, except rubber	—	8	5	.8	15.4	.6	1.3	8.5	35.6	36.9	70.5	.1	G	(D)
3144	Women's footwear, except athletic	—	6	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	51.1
3149	Footwear, except rubber, n.e.c.	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
32	Stone, clay, and glass products	E1	81	24	2.0	56.0	1.3	2.7	32.1	131.8	105.9	237.1	7.2	2.3	142.6
323	Products of purchased glass	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3231	Products of purchased glass	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
326	Pottery and related products	—	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3264	Porcelain electrical supplies	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	49	13	.8	24.2	.5	1.1	12.8	59.4	65.5	125.2	3.8	1.3	92.2
3272	Concrete products, n.e.c.	—	24	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	E	(D)
3273	Ready-mixed concrete	E4	19	5	.3	9.1	.2	.5	5.6	19.8	22.3	42.2	(D)	.8	42.7
3275	Gypsum products	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
328	Cut stone and stone products	E3	5	3	.2	3.7	.1	.2	2.1	9.0	4.5	13.7	(D)	(NA)	(NA)
3281	Cut stone and stone products	E3	5	3	.2	3.7	.1	.2	2.1	9.0	4.5	13.7	(D)	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	—	7	4	.3	7.6	.3	.5	5.3	21.8	13.8	35.5	(D)	E	(D)
3291	Abrasive products	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	Primary metal industries	E1	48	26	3.9	116.6	2.9	5.5	77.8	311.4	247.4	558.5	21.3	3.7	188.0
331	Blast furnace and basic steel products	E4	5	2	.1	4.1	.1	.1	1.8	10.3	18.1	27.1	1.8	(NA)	(NA)
3315	Steel wire and related products	E2	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries	—	5	5	1.2	36.8	.9	1.5	25.2	85.3	22.7	106.6	(D)	G	(D)
3324	Steel investment foundries	—	3	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
335	Nonferrous rolling and drawing	E2	16	10	2.0	62.4	1.6	3.1	42.8	190.4	193.0	385.4	14.6	1.4	89.0
3357	Nonferrous wire drawing and insulating	E2	14	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
336	Nonferrous foundries (castings)	—	16	7	.4	11.7	.3	.7	7.0	22.8	8.5	31.8	.6	F	(D)
3365	Aluminum foundries	—	10	7	.4	10.3	.3	.6	6.2	20.2	6.6	27.1	.3	.5	22.5
34	Fabricated metal products	E1	211	59	6.1	169.7	4.6	9.5	109.7	391.5	265.1	653.7	19.0	6.5	282.4
342	Cutlery, handtools, and hardware	E2	14	4	.3	8.1	.2	.4	5.7	15.2	6.3	21.0	.9	.3	12.5
3423	Hand and edge tools, n.e.c.	E4	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	E1	6	1	.2	5.1	(D)	.2	3.7	9.2	4.2	13.0	(D)	(NA)	(D)
344	Fabricated structural metal products	E1	78	22	1.8	53.1	1.3	2.7	32.4	101.4	99.9	200.8	3.0	2.0	89.4
3441	Fabricated structural metal	—	13	4	.3	9.0	.2	.4	4.6	18.3	28.8	47.1	.8	E	(D)
3443	Fabricated plate work (boiler shops)	E1	11	3	.3	10.7	.2	.5	6.4	22.6	13.7	36.2	.4	E	(D)
3444	Sheet metal work	E1	39	10	.6	18.0	.4	.9	11.1	32.5	19.3	51.2	1.5	.6	26.0
3448	Prefabricated metal buildings	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
345	Screw machine products, bolts, etc.	—	24	10	.5	13.5	.4	.8	8.7	27.0	12.7	39.5	1.4	.3	13.4
3451	Screw machine products	—	17	5	.2	7.0	.2	.4	4.3	14.4	5.8	20.2	.7	.2	6.5
3452	Bolts, nuts, rivets, and washers	—	7	5	.2	6.5	.2	.4	4.3	12.6	6.9	19.3	.7	(NA)	(NA)
346	Metal forgings and stampings	E1	19	4	.3	7.6	.2	.5	4.1	13.2	8.5	21.8	1.0	E	(D)
3469	Metal stampings, n.e.c.	E1	15	4	.3	7.2	.2	.4	3.7	12.4	7.6	20.1	1.0	E	(D)
347	Metal services, n.e.c.	E1	25	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	.3	11.4
348	Ordnance and accessories, n.e.c.	—	5	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3484	Small arms	—	3	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
349	Miscellaneous fabricated metal products	E1	41	15	1.8	53.3	1.2	2.6	31.0	122.0	108.3	231.2	9.9	1.9	79.4
3491	Industrial valves	—	8	6	.8	24.0	.7	1.3	16.3	84.9	58.1	142.7	(D)	F	(D)
3492	Fluid power valves and hose fittings	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3496	Miscellaneous fabricated wire products	—	7	3	.2	3.2	.1	.2	1.9	8.6	4.6	13.3	.2	(NA)	(D)
3499	Fabricated metal products, n.e.c.	E1	19	3	.4	14.6	.2	.6	6.6	15.4	24.1	39.6	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1992 and 1987—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 100 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992											1987		
		E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
35	Industrial machinery and equipment	E1	382	101	13.3	439.0	8.2	16.6	236.5	1 028.4	796.5	1 848.8	43.2	16.1	3 104.6
353	Construction and related machinery	E8	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3535	Conveyors and conveying equipment	E9	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
354	Metalworking machinery	-	65	17	1.8	57.7	1.3	2.6	37.8	128.5	75.6	195.3	6.1	G	(D)
3541	Machine tools, metal cutting types	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
3544	Special dies, tools, jigs, and fixtures	E1	33	5	.3	9.1	.2	.5	6.8	15.0	4.2	19.5	.9	E	(D)
3545	Machine tool accessories	-	17	5	.2	6.0	.1	.3	3.3	15.0	7.3	22.4	.8	E	(D)
3548	Welding apparatus	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
355	Special industry machinery	E1	42	15	2.4	87.1	1.3	2.6	41.3	133.4	228.8	386.7	7.8	G	(D)
3554	Paper industries machinery	E1	10	7	.9	32.4	.6	1.1	20.7	35.9	61.3	99.3	2.7	.8	31.6
3555	Printing trades machinery	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
3559	Special industry machinery, n.e.c.	E4	15	4	.4	11.5	.2	.3	4.2	20.9	15.0	35.9	(D)	F	(D)
356	General industrial machinery	E1	31	20	4.4	140.9	3.0	5.9	83.4	311.4	138.2	450.1	16.6	4.7	225.2
3562	Ball and roller bearings	-	5	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3563	Air and gas compressors	E6	4	3	.2	4.8	.1	.2	2.2	6.1	14.6	20.4	.3	(NA)	(NA)
3565	Packaging machinery	E5	5	2	.2	6.7	.1	.2	3.1	14.3	13.1	28.1	.2	(NA)	(D)
3567	Industrial furnaces and ovens	E8	5	3	.2	7.6	.1	.2	2.4	15.9	10.4	26.5	.3	E	(D)
3568	Power transmission equipment, n.e.c.	E7	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3569	General industrial machinery, n.e.c.	-	6	5	1.2	41.5	.6	1.2	13.8	131.6	44.4	173.0	(D)	G	(D)
357	Computer and office equipment	-	35	17	2.3	82.6	.9	1.8	30.1	320.3	275.2	604.6	7.0	5.1	2 440.4
3571	Electronic computers	-	15	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3575	Computer terminals	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3577	Computer peripheral equipment, n.e.c.	E1	11	4	.2	6.5	.1	.3	2.6	11.2	19.4	30.5	(D)	G	(D)
3578	Calculating and accounting equipment	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3579	Office machines, n.e.c.	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
358	Refrigeration and service machinery	-	13	3	.4	13.9	.3	.6	7.4	36.4	24.3	60.0	.8	E	(D)
3585	Refrigeration and heating equipment	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3589	Service industry machinery, n.e.c.	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
359	Industrial machinery, n.e.c.	E2	185	25	1.7	50.5	1.3	2.8	33.9	85.4	42.6	127.3	4.5	1.6	62.7
3599	Industrial machinery, n.e.c.	E2	183	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
36	Electronic and other electric equipment	E1	200	96	12.2	343.7	7.8	15.7	166.2	1 086.9	568.4	1 650.2	67.2	13.2	625.1
361	Electric distribution equipment	-	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3613	Switchgear and switchboard apparatus	-	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
362	Electrical industrial apparatus	-	20	7	.7	22.3	.4	.7	8.2	95.4	27.6	123.5	(D)	F	(D)
3621	Motors and generators	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3625	Relays and industrial controls	-	12	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
364	Electric lighting and wiring equipment	E2	14	8	2.0	58.3	1.5	3.1	37.2	158.0	82.1	240.4	8.7	2.7	168.3
3641	Electric lamp bulbs and tubes	E3	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3643	Current-carrying wiring devices	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3647	Vehicular lighting equipment	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3648	Lighting equipment, n.e.c.	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
365	Household audio and video equipment	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	(NA)	(NA)
3651	Household audio and video equipment	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	(NA)	(NA)
366	Communications equipment	-	27	11	1.2	30.1	.6	1.0	9.6	311.5	131.6	437.4	11.5	.4	23.2
3661	Telephone and telegraph apparatus	-	8	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3663	Radio and television communications equipment	E4	14	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
367	Electronic components and accessories	E2	110	58	7.1	203.7	4.6	9.4	93.5	408.8	262.3	673.9	36.3	8.3	295.5
3672	Printed circuit boards	E1	31	19	2.1	58.7	1.4	2.8	29.2	124.9	89.9	213.7	5.5	2.4	69.4
3674	Semiconductors and related devices	E6	8	4	1.0	33.0	.6	1.3	13.7	85.9	41.5	128.1	16.8	1.6	57.9
3675	Electronic capacitors	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3676	Electronic resistors	E4	4	4	.8	18.8	.6	1.3	11.5	35.3	18.7	54.1	1.9	1.0	30.3
3677	Electronic coils and transformers	-	8	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	11.2
3679	Electronic components, n.e.c.	E1	55	25	2.6	77.2	1.5	3.1	31.6	130.1	98.2	231.2	10.6	1.5	58.0
369	Miscellaneous electrical equipment and supplies	E1	16	6	.6	15.8	.4	.5	8.8	46.3	31.5	74.1	1.9	F	(D)
3695	Magnetic and optical recording media	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
3699	Electrical equipment and supplies, n.e.c.	E3	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1992 and 1987—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 100 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1992										1987			
		E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)						
37	Transportation equipment -----	-	22	6	2.3	65.9	1.4	3.1	43.4	141.6	69.6	211.1	(D)	(NA)	(D)
371	Motor vehicles and equipment --	-	5	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3714	Motor vehicle parts and accessories-----	-	4	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
372	Aircraft and parts-----	-	6	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
3724	Aircraft engines and engine parts-----	-	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
376	Guided missiles, space vehicles, parts-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3769	Space vehicle equipment, n.e.c.-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments and related products-----	-	124	53	11.9	446.2	7.9	14.0	248.5	884.2	501.8	1 415.2	32.1	15.9	1 362.3
381	Search and navigation equipment-----	-	10	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
3812	Search and navigation equipment-----	-	10	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
382	Measuring and controlling devices-----	-	64	30	3.8	113.3	2.4	4.8	61.6	221.1	146.9	377.9	8.2	(NA)	(D)
3821	Laboratory apparatus and furniture-----	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3822	Environmental controls-----	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3824	Fluid meters and counting devices-----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
3825	Instruments to measure electricity-----	-	19	9	2.3	65.6	1.6	3.1	42.7	99.5	79.1	192.7	5.3	3.5	208.4
3826	Analytical instruments-----	E1	7	5	.3	10.7	.1	.2	2.1	30.2	19.9	46.1	.7	(NA)	(NA)
3827	Optical instruments and lenses-----	-	10	6	.3	9.4	.1	.3	4.0	13.1	6.8	19.6	.3	G	(D)
3829	Measuring and controlling devices, n.e.c.-----	-	8	5	.3	10.2	.1	.2	2.9	22.1	11.0	33.7	.7	.2	5.2
384	Medical instruments and supplies-----	E1	36	13	1.8	46.3	1.1	1.8	21.1	111.0	68.2	176.9	(D)	F	(D)
3841	Surgical and medical instruments-----	E1	20	8	1.3	36.5	.8	1.2	16.5	88.2	47.9	133.7	2.8	F	(D)
3842	Surgical appliances and supplies-----	-	11	4	.4	8.7	.3	.5	4.4	21.9	18.9	40.6	(D)	E	(D)
386	Photographic equipment and supplies-----	E1	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3861	Photographic equipment and supplies-----	E1	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries-----	-	80	16	1.8	41.1	1.3	2.4	22.5	98.6	59.6	156.9	2.8	2.1	92.4
391	Jewelry, silverware, and plated ware-----	E1	14	1	.1	3.0	.1	.2	1.2	4.7	9.2	13.8	.2	.2	7.1
3911	Jewelry, precious metal-----	E1	10	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
394	Toys and sporting goods-----	-	19	5	.6	13.0	.4	.7	6.3	20.2	8.9	28.4	.5	.5	12.5
3942	Dolls and stuffed toys-----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3949	Sporting and athletic goods, n.e.c.-----	E1	12	2	.1	2.4	.1	.2	1.5	5.5	4.8	9.8	(D)	(NA)	(NA)
399	Miscellaneous manufactures-----	-	39	10	1.0	24.4	.7	1.5	14.5	71.6	40.4	111.6	2.1	1.4	71.2
3991	Brooms and brushes-----	-	3	3	.3	7.1	.3	.5	3.9	21.9	14.5	35.4	(D)	E	(D)
3993	Signs and advertising specialties-----	E1	20	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	.3	9.3
3995	Burial caskets-----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
3999	Manufacturing industries, n.e.c.-----	E2	13	4	.3	7.1	.2	.3	3.5	13.1	7.9	20.9	.2	.4	17.1
---	Auxiliaries-----	-	43	27	4.2	235.4	-	-	-	-	-	-	-	3.5	-

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees; J—10,000 to 24,999 employees; K—25,000 to 49,999 employees; L—50,000 to 99,999 employees; M—100,000 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA	E1	9 241	3 252	443.3	15 617.8	248.5	500.9	6 654.0	34 551.1	26 293.7	61 304.6	1 903.1
20	Food and kindred products	E1	419	161	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products	-	154	88	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and other textile products	E1	348	123	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products	E2	310	50	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25	Furniture and fixtures	E1	201	58	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	E1	181	119	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	E1	1 649	371	43.3	1 350.2	20.0	39.6	513.0	3 954.1	1 741.5	5 674.7	152.1
28	Chemicals and allied products	-	271	125	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29	Petroleum and coal products	-	52	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products	E1	475	226	24.9	712.6	17.7	37.3	420.9	1 613.5	1 628.2	3 228.0	(D)
31	Leather and leather products	-	139	53	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products	E1	251	80	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33	Primary metal industries	E2	171	82	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	E1	926	307	27.9	854.5	19.6	40.9	509.8	2 035.3	1 301.7	3 301.9	102.6
35	Industrial machinery and equipment	E1	1 467	388	42.9	1 618.9	23.0	47.3	680.0	3 414.5	3 169.4	6 824.7	187.0
36	Electronic and other electric equipment	E1	804	400	L	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment	-	147	50	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	-	642	303	L	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufacturing industries	E1	319	70	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
-	Auxiliaries	-	314	185	35.2	1 976.4	-	-	-	-	-	-	-
	Boston, MA-NH PMSA	E1	5 285	1 803	242.3	8 957.8	125.8	255.2	3 511.0	19 724.4	14 181.8	34 247.2	1 075.4
20	Food and kindred products	E1	263	101	12.2	349.0	7.8	16.0	184.1	1 053.4	2 009.8	3 063.1	60.9
201	Meat products	E1	17	9	1.0	22.5	.6	1.3	11.9	41.8	171.2	213.8	(D)
2013	Sausages and other prepared meats	E1	13	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
202	Dairy products	E3	32	11	2.6	89.3	1.3	2.9	41.6	175.0	507.7	681.4	19.3
2024	Ice cream and frozen desserts	E2	21	5	.5	14.1	.3	.6	8.0	7.3	71.6	78.1	(D)
2026	Fluid milk	E3	7	6	2.1	74.5	1.0	2.3	33.1	165.4	429.2	594.1	(D)
203	Preserved fruits and vegetables	E1	18	5	.5	15.4	.4	.9	9.7	61.1	89.5	150.6	3.2
2035	Pickles, sauces, and salad dressings	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
205	Bakery products	-	76	22	2.4	59.3	1.9	3.5	41.1	172.8	92.3	265.0	7.3
2051	Bread, cake, and related products	-	63	17	2.0	51.5	1.6	2.9	35.6	155.5	80.2	235.6	6.8
2053	Frozen bakery products, except bread	E1	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
206	Sugar and confectionery products	-	20	10	1.4	32.3	1.1	2.0	20.3	115.7	132.4	250.0	5.3
2064	Candy and other confectionery prod. and ind. 2067, chewing gum	-	14	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
208	Beverages	E1	16	10	.9	31.8	.6	1.0	14.8	126.9	266.1	392.5	5.4
2086	Bottled and canned soft drinks	E1	8	8	.6	22.5	.4	.6	9.7	69.9	220.6	290.1	4.2
209	Miscellaneous food and kindred products	E1	79	31	3.1	94.6	1.9	4.1	42.7	349.0	720.7	1 069.3	14.6
2092	Fresh or frozen prepared fish	-	31	15	1.9	63.1	1.2	2.7	29.6	251.1	610.2	860.1	4.4
2095	Roasted coffee	E1	3	3	.3	10.0	.1	.2	2.0	21.4	51.0	72.4	(D)
2096	Potato chips and similar snacks	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2099	Food preparations, n.e.c.	E7	27	8	.4	11.2	.3	.6	5.7	47.4	31.9	80.2	5.3
22	Textile mill products	E1	62	27	2.1	58.0	1.5	3.1	33.5	129.8	147.6	276.6	6.4
226	Textile finishing, except wool	-	5	4	.4	9.8	.3	.5	5.6	18.1	36.5	55.2	(D)
229	Miscellaneous textile goods	-	26	11	.9	29.5	.6	1.3	16.6	72.4	79.8	152.3	4.1
2295	Coated fabrics, not rubberized	-	10	4	.4	13.7	.3	.6	6.2	34.7	46.0	80.1	(D)
2299	Textile goods, n.e.c.	-	11	5	.4	14.1	.3	.6	9.2	30.4	21.5	52.9	(D)
23	Apparel and other textile products	E1	215	64	6.2	131.4	4.8	8.9	71.5	291.6	317.2	601.9	3.3
233	Women's and misses' outerwear	-	68	32	2.4	58.8	1.8	3.2	26.3	140.6	136.6	274.5	.6
2331	Women's, misses', and juniors' blouses and shirts	E2	9	4	.3	4.9	.2	.4	3.6	14.2	7.4	21.5	.1
2335	Women's, misses', and juniors' dresses	E1	18	3	.4	8.0	.4	.7	4.9	14.9	11.3	26.1	.1
2337	Women's, misses', and juniors' suits and coats	-	24	16	1.2	35.9	.8	1.5	11.2	85.1	107.0	189.2	.2
2339	Women's, misses', and juniors' outerwear, n.e.c.	-	17	9	.5	9.9	.4	.7	6.6	26.5	11.0	37.6	.1
234	Women's and children's undergarments	E3	6	5	.7	8.9	.6	1.1	7.0	16.6	11.1	27.8	(D)
2341	Women's and children's underwear	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2342	Brassieres, girdles, and allied garments	E4	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
238	Miscellaneous apparel and accessories	E8	11	2	.3	3.9	.2	.4	2.4	8.1	8.5	16.6	.1
239	Miscellaneous fabricated textile products	E2	110	22	2.6	53.5	2.0	3.8	32.7	111.1	133.6	240.6	2.2
2391	Curtains and draperies	E2	20	8	1.0	18.7	.9	1.7	13.0	37.1	55.9	90.3	.4
2392	Housefurnishings, n.e.c.	-	10	3	.3	5.4	.2	.4	3.3	13.2	20.9	33.8	(D)
2396	Automotive and apparel trimmings	E1	32	6	.8	19.1	.6	1.0	10.5	37.9	34.3	71.4	.9
24	Lumber and wood products	E4	143	22	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
243	Millwork, plywood, and structural members	E2	80	14	.8	20.4	.6	1.2	12.8	41.0	47.7	88.8	1.2
2431	Millwork	E3	40	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
2434	Wood kitchen cabinets	E1	39	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
249	Miscellaneous wood products	E4	37	6	.7	14.9	.5	.9	9.5	31.9	33.7	65.7	.6
2499	Wood products, n.e.c.	E5	30	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—

Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
25	Furniture and fixtures -----	E1	99	17	1.7	41.7	1.2	2.3	24.0	90.8	77.9	168.0	2.4
251	Household furniture -----	E1	47	9	.8	17.1	.5	1.0	9.8	45.2	41.9	86.6	.5
2515	Mattresses and bedspings -----	-	13	6	.4	10.0	.3	.5	5.3	29.6	25.8	55.2	.4
254	Partitions and fixtures -----	-	24	5	.5	14.1	.3	.7	8.5	27.0	20.5	47.3	1.1
2542	Partitions and fixtures, except wood -----	-	7	4	.3	9.6	.2	.5	5.7	17.0	15.0	31.9	(D)
259	Miscellaneous furniture and fixtures -----	E1	14	3	.4	8.6	.2	.5	4.5	15.0	12.3	27.3	.6
2599	Furniture and fixtures, n.e.c. -----	E1	8	3	.3	8.3	.2	.5	4.3	14.2	11.6	25.7	.6
26	Paper and allied products -----	E1	86	52	5.7	171.7	4.1	8.3	100.3	382.9	424.3	804.8	26.1
262	Paper mills -----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2621	Paper mills -----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
265	Paperboard containers and boxes -----	E1	34	26	2.2	62.9	1.6	3.3	36.6	130.1	194.4	325.8	(D)
2652	Setup paperboard boxes -----	E5	5	4	.3	4.7	.2	.5	3.5	10.3	10.8	20.9	(D)
2653	Corrugated and solid fiber boxes -----	E1	15	12	1.1	33.9	.8	1.6	18.3	67.9	119.8	188.9	3.8
2657	Folding paperboard boxes -----	-	7	3	.4	14.4	.3	.7	8.0	29.1	26.4	55.9	.8
267	Miscellaneous converted paper products -----	E1	49	23	3.0	95.8	2.1	4.3	53.6	212.5	187.4	398.0	10.9
2672	Paper coated and laminated, n.e.c. -----	-	14	7	1.4	50.6	.9	1.6	25.0	107.1	87.1	193.5	5.7
2673	Bags: plastics, laminated, and coated -----	E5	7	4	.4	9.5	.3	.7	6.5	30.0	30.5	60.6	1.6
2675	Die-cut paper and board -----	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2679	Converted paper products, n.e.c. -----	E3	6	4	.3	6.2	.2	.4	3.9	16.6	15.9	31.9	.7
27	Printing and publishing -----	E1	1 137	270	32.5	1 068.1	14.1	28.3	377.0	3 348.4	1 425.5	4 754.2	126.1
271	Newspapers -----	-	107	34	8.3	288.2	2.4	4.5	72.5	607.4	141.5	750.0	22.7
2711	Newspapers -----	-	107	34	8.3	288.2	2.4	4.5	72.5	607.4	141.5	750.0	22.7
272	Periodicals -----	E4	139	41	3.3	118.4	.5	.8	9.8	419.7	159.3	575.3	5.7
2721	Periodicals -----	E4	139	41	3.3	118.4	.5	.8	9.8	419.7	159.3	575.3	5.7
273	Books -----	E1	98	40	6.6	231.7	2.4	4.8	66.8	832.1	485.4	1 301.7	18.7
2731	Book publishing -----	E1	78	23	4.3	159.2	.5	1.1	13.0	701.5	400.1	1 084.0	9.9
2732	Book printing -----	-	20	17	2.3	72.5	1.8	3.8	53.7	130.6	85.3	217.7	8.9
274	Miscellaneous publishing -----	-	73	11	2.2	69.4	.5	.9	9.7	743.5	239.3	983.5	(D)
2741	Miscellaneous publishing -----	-	73	11	2.2	69.4	.5	.9	9.7	743.5	239.3	983.5	(D)
275	Commercial printing -----	E2	593	107	9.2	283.2	6.3	13.1	168.5	530.8	338.8	869.8	34.5
2752	Commercial printing, lithographic -----	E2	459	80	7.4	232.0	5.1	10.6	140.7	431.9	283.0	715.1	27.5
2759	Commercial printing, n.e.c. -----	E2	134	27	1.8	51.2	1.2	2.6	27.8	98.8	55.7	154.7	7.0
276	Manifold business forms -----	-	8	5	.5	15.2	.4	.8	10.3	73.3	25.5	97.7	(D)
2761	Manifold business forms -----	-	8	5	.5	15.2	.4	.8	10.3	73.3	25.5	97.7	(D)
278	Blankbooks and bookbinding -----	-	27	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1
2782	Blankbooks and looseleaf binders -----	E1	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2789	Bookbinding and related work -----	-	22	10	.7	16.5	.6	1.1	11.3	30.9	7.9	37.7	(D)
279	Printing trade services -----	E2	86	16	1.0	31.3	.7	1.4	19.3	60.3	15.4	75.7	2.5
2791	Typesetting -----	E2	57	9	.5	14.3	.4	.7	8.9	28.6	7.6	36.2	1.3
2796	Platemaking services -----	E2	29	7	.5	17.1	.3	.7	10.4	31.8	7.9	39.5	1.2
28	Chemicals and allied products -----	E1	191	93	8.4	331.8	4.1	8.3	130.8	1 231.2	965.5	2 191.4	122.9
281	Industrial inorganic chemicals -----	-	13	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
2819	Industrial inorganic chemicals, n.e.c. -----	-	9	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
282	Plastics materials and synthetics -----	-	9	9	.9	39.2	.3	.7	10.3	97.9	91.8	190.9	10.0
2821	Plastics materials and resins -----	-	7	7	.8	35.2	.3	.6	9.1	92.1	73.8	167.8	9.2
283	Drugs -----	E1	39	23	2.4	88.7	1.0	2.0	29.1	370.3	201.8	572.3	62.1
2834	Pharmaceutical preparations -----	E1	13	6	.6	20.9	.3	.7	9.8	128.4	52.3	176.5	(D)
2835	Diagnostic substances -----	E1	12	11	1.1	44.1	.4	.9	12.5	112.0	33.8	145.1	(D)
2836	Biological products, except diagnostic -----	E2	7	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
284	Soaps, cleaners, and toilet goods -----	-	39	13	1.3	53.7	.7	1.6	23.7	268.2	301.0	568.9	14.4
2841	Soap and other detergents -----	-	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2842	Polishes and sanitation goods -----	E4	15	3	.3	12.5	.2	.3	5.1	47.1	31.5	78.6	.9
2843	Surface active agents -----	-	11	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
285	Paints and allied products -----	E1	30	16	1.0	35.5	.5	.9	12.9	109.4	98.5	205.0	4.6
2851	Paints and allied products -----	E1	30	16	1.0	35.5	.5	.9	12.9	109.4	98.5	205.0	4.6
286	Industrial organic chemicals -----	-	8	6	.6	25.8	.4	.8	16.9	157.0	55.5	216.2	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	6	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
289	Miscellaneous chemical products -----	E2	46	20	1.9	75.0	.9	1.9	30.8	189.9	182.4	365.2	16.1
2891	Adhesives and sealants -----	E1	18	9	.6	22.2	.3	.7	10.8	51.5	47.1	99.3	2.2
2899	Chemical preparations, n.e.c. -----	E3	18	6	1.0	46.6	.5	.9	17.1	127.8	111.2	231.1	(D)
29	Petroleum and coal products -----	-	24	5	.5	18.0	.3	.8	10.0	95.5	106.5	198.6	6.7
295	Asphalt paving and roofing materials -----	-	19	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2952	Asphalt felts and coatings -----	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products -----	E1	194	91	7.8	234.3	5.4	10.7	129.4	528.6	486.7	1 014.2	31.9
305	Hose and belting and gaskets and packing -----	-	13	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3053	Gaskets, packing, and sealing devices -----	-	10	5	.7	24.2	.3	.7	9.7	49.0	20.9	70.7	2.2
306	Fabricated rubber products, n.e.c. -----	-	30	17	1.1	35.6	.8	1.7	22.6	85.8	89.8	174.9	4.3
3069	Fabricated rubber products, n.e.c. -----	-	25	16	1.1	33.6	.8	1.6	21.5	79.8	74.9	153.9	(D)
308	Miscellaneous plastics products, n.e.c. -----	E1	148	66	5.6	165.6	4.0	7.8	91.9	377.1	360.3	736.3	24.9
3081	Unsupported plastics film and sheet -----	-	12	6	.4	14.2	.3	.7	8.9	34.7	35.2	70.1	2.4
3086	Plastics foam products -----	-	7	5	.6	16.7	.5	.9	12.3	34.6	35.2	69.7	.8
3087	Custom compounding of purchased plastics resins -----	-	12	5	.3	10.2	.2	.3	3.9	22.1	52.9	74.3	2.0
3089	Plastics products, n.e.c. -----	E2	100	44	3.8	108.0	2.6	5.2	57.2	240.6	195.5	434.6	18.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
31	Boston, MA-NH PMSA—Con.												
	Leather and leather products	—	83	25	2.0	45.9	1.6	3.2	30.4	94.3	115.1	207.8	(D)
311	Leather tanning and finishing	—	35	9	.7	17.9	.5	1.1	12.4	36.2	58.6	93.3	1.0
3111	Leather tanning and finishing	—	35	9	.7	17.9	.5	1.1	12.4	36.2	58.6	93.3	1.0
314	Footwear, except rubber	—	9	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3149	Footwear, except rubber, n.e.c.	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
317	Handbags and personal leather goods	—	13	6	.5	11.2	.4	.8	7.7	24.5	18.3	42.9	.2
3171	Women's handbags and purses	—	9	4	.3	7.9	.3	.5	5.6	17.0	13.4	30.4	(D)
32	Stone, clay, and glass products	E2	127	32	2.2	73.9	1.5	3.4	43.7	174.7	142.5	317.3	14.6
322	Glass and glassware, pressed or blown	—	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
327	Concrete, gypsum, and plaster products	E3	59	19	1.3	40.9	.8	1.8	22.9	94.2	88.1	182.0	5.0
3272	Concrete products, n.e.c.	E3	23	7	.4	12.4	.2	.6	6.6	29.2	18.7	48.0	1.1
3273	Ready-mixed concrete	E4	25	10	.7	23.0	.4	1.0	12.9	52.0	54.0	106.0	3.1
33	Primary metal industries	E2	66	25	2.1	64.9	1.5	3.0	39.8	138.7	175.4	315.7	9.3
335	Nonferrous rolling and drawing	—	15	10	.9	27.0	.6	1.3	16.4	57.9	103.0	159.8	4.0
3357	Nonferrous wiredrawing and insulating	—	10	7	.5	17.1	.4	.8	9.9	39.4	72.3	111.2	(D)
339	Miscellaneous primary metal products	E6	16	8	.7	21.9	.5	.9	13.1	48.5	38.3	88.6	(D)
3399	Primary metal products, n.e.c.	E8	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	E1	473	156	13.6	420.1	9.3	19.5	258.1	1 133.8	585.3	1 721.5	51.5
342	Cutlery, handtools, and hardware	—	23	10	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3421	Cutlery	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3429	Hardware, n.e.c.	—	11	5	.4	10.1	.3	.5	4.5	20.4	10.4	32.4	.4
344	Fabricated structural metal products	E1	179	51	3.4	104.5	2.4	4.9	62.7	210.5	169.8	380.9	6.5
3441	Fabricated structural metal	E1	27	6	.7	22.1	.4	.9	12.4	41.1	31.4	74.3	.9
3443	Fabricated plate work (boiler shops)	E2	16	8	.3	10.4	.2	.4	5.3	21.1	15.6	36.2	1.3
3444	Sheet metal work	E1	96	30	1.8	56.0	1.3	2.7	35.6	110.2	83.7	193.2	3.7
3446	Architectural metal work	E5	24	3	.3	7.9	.2	.4	4.7	18.2	12.1	30.3	.2
345	Screw machine products, bolts, etc.	—	38	13	.9	30.0	.7	1.4	17.1	51.6	37.3	87.7	2.0
3451	Screw machine products	—	27	8	.6	19.8	.4	.9	12.3	33.4	13.7	46.6	1.5
3452	Bolts, nuts, rivets, and washers	E1	11	5	.4	10.2	.2	.5	4.8	18.2	23.6	41.1	.5
346	Metal forgings and stampings	—	65	24	1.9	55.7	1.4	2.9	35.1	106.2	64.3	169.9	(D)
3469	Metal stampings, n.e.c.	—	57	21	1.6	48.9	1.3	2.6	30.9	92.2	52.4	143.8	2.4
347	Metal services, n.e.c.	E2	85	29	1.4	37.7	1.0	2.2	23.9	73.7	32.7	106.6	3.1
3471	Plating and polishing	—	39	15	.7	18.9	.5	1.1	11.6	36.2	10.6	46.9	1.0
3479	Metal coating and allied services	E3	46	14	.7	18.8	.5	1.1	12.3	37.5	22.1	59.6	2.1
348	Ordnance and accessories, n.e.c.	—	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3483	Ammunition, except for small arms, n.e.c.	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
349	Miscellaneous fabricated metal products	E2	71	22	1.9	61.1	1.1	2.2	31.5	135.0	78.5	214.5	5.6
3491	Industrial valves	—	9	7	.8	31.3	.4	.8	14.1	72.3	27.7	101.8	2.9
3499	Fabricated metal products, n.e.c.	E3	39	12	.8	24.1	.6	1.1	13.8	50.5	40.3	90.3	2.4
35	Industrial machinery and equipment	E1	756	207	23.5	920.0	12.0	24.7	360.9	1 836.4	1 486.5	3 386.7	104.7
351	Engines and turbines	—	6	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3511	Turbines and turbine generator sets	—	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
353	Construction and related machinery	—	21	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
354	Metalworking machinery	E2	111	26	1.7	53.8	1.1	2.5	31.4	99.6	63.9	163.5	3.9
3544	Special dies, tools, jigs, and fixtures	E2	48	6	.4	13.3	.3	.7	9.1	20.8	8.3	29.1	.8
3545	Machine tool accessories	E1	29	10	.6	18.1	.4	.8	11.7	36.5	18.0	54.4	1.5
355	Special industry machinery	—	100	41	5.4	214.4	2.4	5.1	81.2	446.4	335.9	794.6	34.3
3555	Printing trades machinery	E1	14	7	1.1	39.2	.7	1.4	19.1	66.8	50.0	122.7	6.0
3559	Special industry machinery, n.e.c.	—	61	31	4.1	169.7	1.7	3.5	60.0	361.6	273.5	641.4	27.6
356	General industrial machinery	E4	60	22	2.5	86.7	1.5	3.0	42.4	198.2	155.2	363.4	8.1
3565	Packaging machinery	E5	8	4	.7	24.9	.4	.9	10.2	35.2	22.4	58.5	1.2
3567	Industrial furnaces and ovens	—	10	3	.3	8.0	.2	.4	4.1	10.5	12.2	24.5	(D)
3569	General industrial machinery, n.e.c.	E6	17	5	.9	31.0	.6	1.0	17.2	99.3	86.5	192.0	(D)
357	Computer and office equipment	E1	93	41	7.7	353.2	2.6	4.9	76.8	670.2	720.6	1 417.3	39.4
3571	Electronic computers	E1	38	17	4.7	236.4	1.5	3.1	51.8	403.3	530.2	958.4	25.1
3572	Computer storage devices	E1	9	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3575	Computer terminals	E8	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3577	Computer peripheral equipment, n.e.c.	E4	27	11	1.4	48.2	.6	.9	12.0	116.1	71.3	188.8	(D)
3579	Office machines, n.e.c.	—	7	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
358	Refrigeration and service machinery	—	20	7	.8	26.5	.5	1.0	13.1	62.7	48.1	110.7	4.1
3585	Refrigeration and heating equipment	—	11	4	.4	15.2	.3	.6	7.5	32.0	26.4	58.6	(D)
359	Industrial machinery, n.e.c.	E1	344	61	4.5	149.1	3.3	7.0	94.2	277.2	111.4	387.1	11.6
3599	Industrial machinery, n.e.c.	E1	338	59	4.3	137.2	3.1	6.7	89.3	252.6	105.4	356.7	11.0
36	Electronic and other electric equipment	E1	456	228	47.5	1 818.2	28.3	58.7	882.2	3 909.1	2 661.9	6 560.0	274.4
361	Electric distribution equipment	E1	13	6	1.2	33.1	.7	1.5	15.4	98.3	36.8	133.9	2.0
3613	Switchgear and switchboard apparatus	E1	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0
362	Electrical industrial apparatus	E1	46	18	1.5	45.4	.9	1.7	17.7	89.7	50.2	138.1	2.3
3625	Relays and industrial controls	E1	32	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3629	Electrical industrial apparatus, n.e.c.	—	9	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
364	Electric lighting and wiring equipment	E3	37	20	3.1	88.9	2.3	4.4	54.9	236.7	157.2	397.5	7.7
3641	Electric lamp bulbs and tubes	E9	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3643	Current-carrying wiring devices	—	13	8	1.1	34.8	.8	1.5	18.9	77.0	33.7	111.2	3.2
3644	Noncurrent-carrying wiring devices	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3645	Residential lighting fixtures	E6	9	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3646	Commercial lighting fixtures	—	7	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
365	Household audio and video equipment	E2	18	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3651	Household audio and video equipment	E2	14	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
Boston, MA-NH PMSA—Con.													
36	Electronic and other electric equipment—												
	Con.												
366	Communications equipment	—	53	38	15.4	729.1	9.6	20.0	413.9	1 759.4	1 027.2	2 764.7	90.2
3661	Telephone and telegraph apparatus	—	20	16	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	67.8
3663	Radio and television communications equipment	—	23	16	J	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3669	Communications equipment, n.e.c.	—	10	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories	E1	240	124	23.2	806.6	13.2	27.3	340.6	1 464.5	1 061.7	2 520.5	135.6
3671	Electron tubes	—	8	4	1.8	68.5	1.2	2.3	37.9	119.8	59.0	184.5	7.1
3672	Printed circuit boards	E3	30	15	2.3	65.4	1.5	2.9	29.0	112.7	103.2	214.9	2.0
3674	Semiconductors and related devices	E2	51	29	9.5	343.3	4.7	9.4	127.7	589.7	452.4	1 030.7	101.5
3676	Electronic resistors	E1	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3678	Electronic connectors	—	10	9	.9	30.0	.6	1.5	15.1	49.1	24.2	73.6	2.1
3679	Electronic components, n.e.c.	E1	124	60	8.2	286.6	4.8	10.6	125.2	570.6	412.2	983.4	22.5
369	Miscellaneous electrical equipment and supply	—	43	15	2.5	97.2	1.4	3.2	33.4	207.4	273.6	497.0	34.6
3694	Engine electrical equipment	—	7	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3695	Magnetic and optical recording media	—	11	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3699	Electrical equipment and supplies, n.e.c.	—	22	8	.8	27.2	.3	.7	7.4	56.9	67.2	123.2	(D)
37	Transportation equipment		94	32	10.0	415.3	4.6	9.2	152.9	1 119.0	871.3	2 269.3	34.8
371	Motor vehicles and equipment	E4	25	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
3714	Motor vehicle parts and accessories	E2	16	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
372	Aircraft and parts	—	19	14	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	25.0
3724	Aircraft engines and engine parts	—	16	14	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
373	Ship and boat building and repairing	E2	41	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3731	Ship building and repairing	E2	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building and repairing	E2	32	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
376	Guided missiles, space vehicles, parts	—	3	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3761	Guided missiles and space vehicles	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	E1	417	191	39.1	1 519.3	20.1	40.0	609.0	3 812.5	1 833.9	5 701.3	185.8
381	Search and navigation equipment	—	38	19	6.9	264.9	5.0	9.4	187.6	498.5	305.7	827.2	(D)
3812	Search and navigation equipment	—	38	19	6.9	264.9	5.0	9.4	187.6	498.5	305.7	827.2	(D)
382	Measuring and controlling devices	E1	217	95	16.8	636.9	7.0	13.0	196.5	1 588.7	684.1	2 270.4	54.2
3821	Laboratory apparatus and furniture	—	21	7	.6	19.4	.3	.6	7.3	55.1	29.8	84.6	(D)
3822	Environmental controls	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3823	Process control instruments	E3	40	24	2.8	90.1	1.5	3.0	35.8	232.3	100.1	328.7	5.1
3825	Instruments to measure electricity	E2	41	17	4.9	187.6	1.9	3.3	60.7	480.6	140.4	623.1	25.3
3826	Analytical instruments	—	44	22	5.0	198.5	1.5	3.0	39.0	522.7	284.5	808.3	12.0
3827	Optical instruments and lenses	E3	18	9	1.0	46.3	.3	.7	11.7	91.2	34.8	124.0	3.2
3829	Measuring and controlling devices, n.e.c.	—	42	14	2.2	86.3	1.1	2.0	38.0	185.5	84.3	270.8	6.8
384	Medical instruments and supplies	E1	120	63	9.2	324.4	4.8	9.9	104.1	846.5	337.9	1 186.0	45.0
3841	Surgical and medical instruments	E2	56	33	5.7	196.2	3.1	6.4	64.2	545.1	202.4	749.4	29.5
3842	Surgical appliances and supplies	—	33	12	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3844	X-ray apparatus and tubes	—	6	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3845	Electromedical equipment	—	15	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
385	Ophthalmic goods	—	11	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3851	Ophthalmic goods	—	11	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
386	Photographic equipment and supplies	—	24	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3861	Photographic equipment and supplies	—	24	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
387	Watches, clocks, watchcases, and parts	E5	7	3	.3	6.5	.2	.4	3.6	13.7	12.7	26.4	.3
3873	Watches, clocks, watchcases, and parts	E5	7	3	.3	6.5	.2	.4	3.6	13.7	12.7	26.4	.3
39	Miscellaneous manufacturing industries	E2	193	42	3.9	108.5	2.4	4.5	47.5	268.6	250.3	511.1	9.8
391	Jewelry, silverware, and plated ware	E3	40	10	1.5	48.9	.9	1.7	18.3	120.9	151.6	265.4	5.2
3911	Jewelry, precious metal	E7	24	4	.5	15.4	.3	.7	7.5	50.1	60.7	110.3	(D)
3914	Silverware and plated ware	—	12	5	1.0	32.0	.5	.9	10.1	68.6	88.6	150.5	(D)
393	Musical instruments	—	17	5	.3	8.4	.2	.4	5.0	22.1	7.0	28.7	1.0
3931	Musical instruments	—	17	5	.3	8.4	.2	.4	5.0	22.1	7.0	28.7	1.0
394	Toys and sporting goods	—	24	7	.5	10.8	.3	.5	4.3	32.9	25.1	57.6	(D)
3949	Sporting and athletic goods, n.e.c.	—	14	4	.3	7.5	.2	.3	2.8	22.4	17.5	40.2	(D)
399	Miscellaneous manufactures	E1	92	15	1.3	35.9	.8	1.6	17.7	85.0	59.9	145.7	(D)
3993	Signs and advertising specialties	—	45	4	.4	11.0	.3	.5	5.6	20.6	14.7	34.9	(D)
3999	Manufacturing industries, n.e.c.	—	41	7	.8	21.7	.4	.8	9.9	57.5	39.8	98.5	(D)
—	Auxiliaries		205	123	19.6	1 125.7							
	Brockton, MA PMSA		382	111	11.2	308.7	7.3	14.0	160.9	693.6	572.0	1 266.8	29.6
	(See appropriate State for SIC detail.)												
	Fitchburg—Leominster, MA PMSA	E1	330	119	13.7	409.3	9.5	20.4	229.6	1 121.1	858.8	1 996.1	58.1
	(See appropriate State for SIC detail.)												
	Lawrence, MA-NH PMSA		592	221	38.6	1 341.7	24.1	46.3	670.2	3 828.4	2 932.9	6 674.6	165.8
20	Food and kindred products	E3	27	9	.8	20.5	.6	1.2	10.5	71.7	67.3	139.4	2.3
203	Preserved fruits and vegetables	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products		14	12	3.0	61.9	2.3	4.3	32.6	173.6	213.3	383.9	2.0
225	Knitting mills	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—
2257	Wet knit fabrics mills	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—
229	Miscellaneous textile goods	E1	5	5	.3	8.2	.2	.5	6.3	20.9	33.3	53.2	.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
23	Lawrence, MA-NH PMSA—Con.												
	Apparel and other textile products-----	E3	20	13	1.7	46.4	1.1	2.0	20.3	102.4	92.0	189.8	6.5
231	Men's and boys' suits and coats-----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2311	Men's and boys' suits and coats-----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
239	Miscellaneous fabricated textile products----	E7	13	7	.8	22.8	.4	.8	8.5	62.8	26.0	85.6	(D)
2396	Automotive and apparel trimmings-----	E8	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products-----	E1	29	7	.5	8.3	.3	.6	5.1	17.3	23.0	40.3	.2
26	Paper and allied products-----	E1	21	14	1.3	40.8	1.0	2.2	26.5	87.3	111.8	199.2	6.0
263	Paperboard mills-----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2631	Paperboard mills-----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
265	Paperboard containers and boxes-----	E4	10	8	.5	12.4	.4	.8	8.5	24.7	31.3	56.0	1.2
2657	Folding paperboard boxes-----	E1	3	3	.3	5.4	.2	.4	4.3	9.6	11.2	20.9	(D)
267	Miscellaneous converted paper products----	-	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing-----	E2	68	13	1.1	30.4	.5	1.1	14.1	57.0	23.4	80.5	2.3
271	Newspapers-----	-	7	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
2711	Newspapers-----	-	7	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
275	Commercial printing-----	E2	50	7	.4	11.9	.3	.7	7.8	20.3	12.7	33.0	.8
2752	Commercial printing, lithographic-----	E2	36	5	.3	8.7	.2	.5	6.0	14.9	9.6	24.6	.4
28	Chemicals and allied products-----	-	17	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
284	Soaps, cleaners, and toilet goods-----	-	5	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2844	Toilet preparations-----	-	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products-----	E2	31	15	2.2	65.4	1.3	2.6	29.8	176.7	132.7	304.4	10.4
302	Rubber and plastics footwear-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3021	Rubber and plastics footwear-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
305	Hose and belting and gaskets and packing--	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3053	Gaskets, packing, and sealing devices----	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
308	Miscellaneous plastics products, n.e.c.-----	E3	24	11	1.5	46.5	.9	1.9	22.7	108.1	98.0	201.1	8.6
3081	Unsupported plastics film and sheet-----	E4	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3086	Plastics foam products-----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products-----	-	11	3	.6	8.3	.5	.9	6.6	12.4	18.3	30.2	.1
314	Footwear, except rubber-----	-	5	3	.5	7.6	.5	.9	6.3	11.1	16.6	27.2	(D)
3144	Women's footwear, except athletic-----	-	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products-----	E3	69	23	1.8	55.4	1.3	2.8	35.1	112.3	121.3	234.4	4.4
344	Fabricated structural metal products-----	E5	29	11	1.0	30.5	.7	1.5	18.8	64.8	50.0	115.1	2.1
3443	Fabricated plate work (boiler shops)-----	E6	9	5	.7	19.7	.5	1.0	12.3	42.5	33.5	76.2	1.5
347	Metal services, n.e.c.-----	-	14	5	.3	7.0	.2	.4	4.6	13.3	5.7	19.1	.6
349	Miscellaneous fabricated metal products----	E3	14	4	.3	9.2	.2	.4	4.7	16.9	16.9	33.8	.9
35	Industrial machinery and equipment-----	-	105	24	2.5	87.9	1.1	2.3	38.7	465.6	344.4	821.7	12.6
355	Special industry machinery-----	E3	20	7	.4	13.7	.2	.5	6.8	28.8	27.8	56.0	1.1
356	General industrial machinery-----	-	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
357	Computer and office equipment-----	-	10	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3571	Electronic computers-----	-	6	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
359	Industrial machinery, n.e.c.-----	E2	52	4	.4	11.7	.3	.6	7.7	27.0	9.4	35.5	1.3
3599	Industrial machinery, n.e.c.-----	E2	52	4	.4	11.7	.3	.6	7.7	27.0	9.4	35.5	1.3
36	Electronic and other electric equipment-----	-	78	36	10.5	395.8	6.8	13.0	224.2	1 107.7	850.2	1 978.6	61.5
362	Electrical industrial apparatus-----	-	4	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3625	Relays and industrial controls-----	-	4	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
366	Communications equipment-----	-	8	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3661	Telephone and telegraph apparatus-----	-	2	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories-----	E1	56	30	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.7
3672	Printed circuit boards-----	E1	16	8	1.6	49.6	1.1	2.5	27.1	110.1	68.7	178.1	5.6
3674	Semiconductors and related devices-----	E4	10	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1
3679	Electronic components, n.e.c.-----	E2	27	16	1.3	40.2	.9	1.9	20.5	87.2	72.7	156.5	(D)
38	Instruments and related products-----	-	39	19	9.5	394.7	6.1	11.1	190.4	1 229.6	766.9	1 902.8	30.0
381	Search and navigation equipment-----	-	2	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3812	Search and navigation equipment-----	-	2	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices-----	-	19	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3823	Process control instruments-----	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3827	Optical instruments and lenses-----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical instruments and supplies-----	-	13	9	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.1
3841	Surgical and medical instruments-----	-	7	6	1.0	38.8	.5	1.1	15.9	128.2	86.9	209.7	(D)
3845	Electromedical equipment-----	-	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Auxiliaries-----	-	16	12	1.3	69.5	-	-	-	-	-	-	-

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Lowell, MA-NH PMSA -----	-	458	184	27.9	1 099.2	13.2	26.5	371.0	2 032.2	1 653.0	3 819.9	114.9
20	Food and kindred products-----	-	11	6	1.3	36.1	.7	1.6	17.4	200.0	214.0	412.3	(D)
203	Preserved fruits and vegetables-----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables-----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
209	Miscellaneous food and kindred products----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2098	Macaroni and spaghetti-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products-----	-	11	10	1.8	56.6	1.1	2.1	27.8	153.1	180.5	337.0	(D)
222	Broadwoven fabric mills, manmade-----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2221	Broadwoven fabrics mills, manmade fiber and silk-----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
229	Miscellaneous textile goods-----	-	7	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2295	Coated fabrics, not rubberized-----	-	4	3	.3	7.2	.2	.4	5.1	21.4	53.4	74.1	.6
2297	Nonwoven fabrics-----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products-----	E1	12	12	1.1	35.1	.8	1.7	23.0	87.2	110.8	199.1	6.1
262	Paper mills-----	E2	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2621	Paper mills-----	E2	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
265	Paperboard containers and boxes-----	-	7	7	.5	15.9	.4	.8	11.5	31.2	39.8	71.6	(D)
267	Miscellaneous converted paper products----	E2	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
27	Printing and publishing-----	E2	49	12	1.5	43.8	.8	1.5	19.6	99.6	64.9	164.4	3.7
271	Newspapers-----	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2711	Newspapers-----	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
273	Books-----	-	5	4	.6	18.5	.5	.8	10.2	38.5	25.7	64.8	(D)
2732	Book printing-----	-	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
275	Commercial printing-----	E1	32	5	.4	10.3	.2	.4	5.5	20.7	26.2	46.2	(D)
2752	Commercial printing, lithographic-----	E1	22	5	.3	9.8	.2	.4	5.2	19.7	25.5	44.4	(D)
28	Chemicals and allied products-----	-	13	6	1.5	67.1	.8	1.7	31.0	274.6	89.4	360.9	16.5
283	Drugs-----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2835	Diagnostic substances-----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
285	Paints and allied products-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2851	Paints and allied products-----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products-----	E5	17	7	.6	15.9	.5	.9	9.3	36.1	30.7	66.9	3.3
308	Miscellaneous plastics products, n.e.c.-----	E6	13	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3089	Plastics products, n.e.c.-----	E7	10	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products-----	E3	17	7	.4	12.6	.3	.7	8.4	30.1	21.9	51.2	1.8
33	Primary metal industries-----	E4	8	4	.5	14.9	.4	.9	8.2	32.4	28.0	62.9	.4
336	Nonferrous foundries (castings)-----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3363	Aluminum die-castings-----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products-----	E3	44	8	.5	15.0	.4	.8	9.5	27.7	16.8	44.6	1.2
35	Industrial machinery and equipment-----	-	97	33	3.4	133.1	2.0	3.9	53.3	343.0	375.3	751.4	16.0
355	Special industry machinery-----	-	13	6	.5	21.0	.3	.5	7.6	41.6	27.9	69.8	(D)
3559	Special industry machinery, n.e.c.-----	-	10	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
356	General industrial machinery-----	E3	9	6	.7	23.1	.4	.7	7.5	36.5	29.6	67.6	1.9
3567	Industrial furnaces and ovens-----	E4	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
357	Computer and office equipment-----	-	18	8	1.6	63.8	.9	1.8	27.1	221.9	291.2	543.8	7.2
3571	Electronic computers-----	-	6	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3577	Computer peripheral equipment, n.e.c.-----	-	7	2	.4	18.2	.1	.3	4.5	32.0	32.7	65.6	(D)
359	Industrial machinery, n.e.c.-----	-	47	10	.5	16.4	.4	.8	9.6	32.0	11.6	43.2	1.6
3599	Industrial machinery, n.e.c.-----	-	47	10	.5	16.4	.4	.8	9.6	32.0	11.6	43.2	1.6
36	Electronic and other electric equipment-----	E1	72	34	3.4	117.2	1.8	4.2	42.7	231.9	141.8	373.3	10.0
366	Communications equipment-----	E1	10	5	.7	28.4	.3	.8	6.0	61.5	46.2	108.4	3.3
3663	Radio and television communications equipment-----	E2	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories-----	E1	48	23	2.2	73.4	1.3	3.0	30.9	140.1	76.4	216.7	5.6
3672	Printed circuit boards-----	E7	14	7	.6	14.6	.5	1.1	8.7	26.5	14.9	41.7	1.2
3674	Semiconductors and related devices-----	-	5	3	.3	9.2	.2	.5	4.3	13.3	12.9	26.2	(D)
3679	Electronic components, n.e.c.-----	-	24	10	1.2	45.1	.5	1.1	15.5	92.8	44.7	137.7	3.8
37	Transportation equipment-----	-	2	1	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
376	Guided missiles, space vehicles, parts-----	-	1	1	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3761	Guided missiles and space vehicles-----	-	1	1	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products-----	E1	41	20	2.5	94.4	.8	1.5	24.7	275.8	151.9	426.3	11.3
382	Measuring and controlling devices-----	E1	22	10	.9	32.2	.3	.7	8.5	65.9	63.6	128.2	4.3
3826	Analytical instruments-----	E2	5	4	.4	12.5	.2	.3	3.3	27.5	14.0	40.9	(D)
3827	Optical instruments and lenses-----	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical instruments and supplies-----	-	13	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3841	Surgical and medical instruments-----	-	6	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3842	Surgical appliances and supplies-----	-	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Auxiliaries-----	-	26	14	5.8	326.3	-	-	-	-	-	-	-

See footnotes at end of table.

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SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Manchester, NH PMSA -----	E1	289	99	11.1	321.1	7.4	15.1	171.6	720.3	615.6	1 335.1	38.2
20	Food and kindred products -----	-	7	5	.8	19.5	.5	1.1	11.6	36.2	165.3	200.3	(D)
201	Meat products -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2013	Sausages and other prepared meats -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products -----	-	6	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
224	Narrow fabric mills -----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2241	Narrow fabrics mills -----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing -----	-	52	10	1.2	35.7	.7	1.3	18.5	85.8	39.2	125.4	3.3
271	Newspapers -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2711	Newspapers -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
275	Commercial printing -----	E1	33	5	.4	9.3	.3	.5	6.4	19.7	9.4	29.0	.6
2752	Commercial printing, lithographic -----	-	26	2	.3	7.1	.2	.4	5.1	15.9	6.6	22.5	.3
276	Manifold business forms -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2761	Manifold business forms -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products -----	-	16	7	1.0	22.5	.7	1.6	14.2	57.1	52.6	111.9	3.7
305	Hose and belting and gaskets and packing --	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3053	Gaskets, packing, and sealing devices -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
308	Miscellaneous plastics products, n.e.c. -----	-	14	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3089	Plastics products, n.e.c. -----	-	10	4	.5	10.0	.4	.7	7.0	27.1	22.3	49.8	1.4
33	Primary metal industries -----	E5	9	6	.6	13.2	.5	.9	8.3	28.5	42.8	72.5	.9
335	Nonferrous rolling and drawing -----	E6	4	3	.4	9.5	.4	.7	5.8	20.0	36.5	58.4	(D)
3357	Nonferrous wire drawing and insulating -----	E6	4	3	.4	9.5	.4	.7	5.8	20.0	36.5	58.4	(D)
34	Fabricated metal products -----	-	28	9	1.0	31.9	.6	1.5	17.3	47.0	51.0	98.0	4.0
344	Fabricated structural metal products -----	-	15	5	.5	15.6	.4	.8	9.8	27.8	27.1	54.6	.3
3448	Prefabricated metal buildings -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
349	Miscellaneous fabricated metal products -----	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3499	Fabricated metal products, n.e.c. -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment -----	E5	44	9	.5	18.2	.3	.6	8.5	41.6	28.6	70.1	1.9
36	Electronic and other electric equipment -----	E3	31	19	2.0	58.2	1.4	2.7	29.2	155.1	98.0	251.9	10.0
364	Electric lighting and wiring equipment -----	E9	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3641	Electric lamp bulbs and tubes -----	E9	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
366	Communications equipment -----	E4	6	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3663	Radio and television communications equipment -----	E3	5	4	.3	8.2	.1	.2	2.2	23.8	10.2	33.8	(D)
367	Electronic components and accessories -----	-	20	10	.8	20.6	.6	1.1	10.6	28.1	40.3	69.3	3.0
3672	Printed circuit boards -----	-	8	4	.3	7.4	.2	.3	4.4	10.0	9.5	19.5	.6
3679	Electronic components, n.e.c. -----	E1	8	3	.3	6.4	.2	.3	2.7	7.7	26.2	34.7	(D)
37	Transportation equipment -----	-	4	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
372	Aircraft and parts -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3724	Aircraft engines and engine parts -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
376	Guided missiles, space vehicles, parts -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3769	Space vehicle equipment, n.e.c. -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products -----	E3	25	11	1.0	26.7	.5	1.0	9.9	63.3	27.4	88.9	1.8
382	Measuring and controlling devices -----	E3	13	6	.5	14.5	.3	.5	4.7	33.4	14.4	49.2	.7
—	Auxiliaries -----	-	7	3	.3	9.9	-	-	-	-	-	-	-
	Nashua, NH PMSA -----	-	415	147	23.6	890.9	14.0	26.5	412.9	1 726.9	1 161.7	2 909.4	95.4
20	Food and kindred products -----	-	9	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
208	Beverages -----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2082	Malt beverages -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products -----	-	7	4	.4	10.3	.3	.6	6.1	30.5	44.1	74.0	(D)
23	Apparel and other textile products -----	-	10	3	.3	4.2	.3	.4	3.3	5.6	4.0	9.6	.1
24	Lumber and wood products -----	E1	22	3	.3	7.2	.3	.5	5.6	18.8	19.0	37.7	.7
26	Paper and allied products -----	-	9	6	.7	22.3	.5	1.0	9.9	43.2	61.6	105.3	(D)
267	Miscellaneous converted paper products -----	-	6	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2672	Paper coated and laminated, n.e.c. -----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing -----	E1	47	11	1.0	25.7	.5	1.0	12.0	56.0	32.6	88.6	3.0
271	Newspapers -----	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
2711	Newspapers -----	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
275	Commercial printing -----	-	25	4	.3	8.7	.2	.4	4.4	20.4	15.2	35.5	1.9
28	Chemicals and allied products -----	-	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
286	Industrial organic chemicals -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products -----	-	34	16	1.4	36.6	1.1	2.2	24.5	74.2	66.4	139.4	4.8
308	Miscellaneous plastics products, n.e.c. -----	-	26	12	1.0	26.7	.8	1.6	18.1	55.5	48.4	102.9	4.1
3085	Plastics bottles -----	-	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3089	Plastics products, n.e.c. -----	E1	13	6	.4	10.2	.3	.6	6.3	22.7	10.8	33.2	1.1
32	Stone, clay, and glass products -----	E2	11	5	.3	8.3	.2	.4	5.0	16.1	10.2	26.4	1.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
Nashua, NH PMSA—Con.													
33	Primary metal industries.....	—	12	5	1.2	36.6	.7	1.3	22.5	81.2	58.7	137.3	(D)
332	Iron and steel foundries.....	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3324	Steel investment foundries.....	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	—	45	16	1.1	30.6	.8	1.6	18.6	59.5	33.6	92.7	4.7
344	Fabricated structural metal products.....	E1	18	5	.3	9.1	.3	.5	6.2	16.1	10.4	26.4	.9
3444	Sheet metal work.....	E2	16	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment.....	—	83	23	2.6	94.2	1.4	2.7	41.7	137.2	152.3	289.5	8.0
355	Special industry machinery.....	E1	9	6	1.0	34.3	.5	1.1	19.7	34.3	60.8	97.7	2.6
3554	Paper industries machinery.....	—	4	3	.7	25.2	.4	.8	16.7	17.2	50.3	70.1	(D)
3559	Special industry machinery, n.e.c.....	E5	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
356	General industrial machinery.....	E6	6	3	.3	10.6	.1	.2	2.4	19.0	18.2	37.2	.9
357	Computer and office equipment.....	—	13	7	.9	33.5	.4	.7	9.3	59.5	56.4	114.3	2.9
3575	Computer terminals.....	—	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
359	Industrial machinery, n.e.c.....	E2	38	3	.3	9.6	.2	.5	6.5	13.5	9.5	22.0	.9
3599	Industrial machinery, n.e.c.....	E1	37	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment.....	—	57	24	3.9	121.9	2.5	4.9	55.1	248.2	141.9	392.1	25.8
367	Electronic components and accessories.....	E2	35	19	3.3	104.9	2.1	4.3	46.6	205.4	108.9	316.4	23.7
3672	Printed circuit boards.....	—	9	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3674	Semiconductors and related devices.....	E5	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3676	Electronic resistors.....	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.....	E1	19	9	1.6	52.8	1.0	2.0	21.9	86.3	42.4	131.0	6.9
369	Miscellaneous electrical equipment and supply.....	—	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3695	Magnetic and optical recording media.....	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	—	28	15	6.5	297.2	4.4	7.7	169.3	581.8	310.7	913.5	(D)
381	Search and navigation equipment.....	—	4	4	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3812	Search and navigation equipment.....	—	4	4	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices.....	—	17	8	.5	17.4	.3	.6	6.5	49.5	30.3	76.1	1.2
39	Miscellaneous manufacturing industries.....	—	13	3	.4	9.2	.3	.6	6.2	35.0	18.3	54.0	(D)
399	Miscellaneous manufactures.....	—	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Auxiliaries.....	—	7	6	G	(D)	—	—	—	—	—	—	—
New Bedford, MA PMSA.....													
—	(See appropriate State for SIC detail.)	—	256	102	15.1	364.0	10.9	20.6	217.1	903.7	751.9	1 623.5	102.7
Portsmouth-Rochester, NH-ME PMSA.....													
—	(See appropriate State for SIC detail.)	—	346	109	17.7	514.2	11.1	23.3	268.0	1 112.9	1 125.1	2 256.1	58.9
20	Food and kindred products.....	E3	18	6	.6	13.6	.5	1.1	10.3	29.4	92.6	121.9	4.0
209	Miscellaneous food and kindred products.....	E3	7	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2092	Fresh or frozen prepared fish.....	E3	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	—	6	4	.6	17.8	.5	.9	13.0	30.2	24.2	52.6	(D)
229	Miscellaneous textile goods.....	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2299	Textile goods, n.e.c.....	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products.....	—	5	4	.3	11.1	.2	.4	4.7	28.4	31.4	59.3	(D)
27	Printing and publishing.....	E2	66	9	1.1	21.7	.4	.8	7.6	58.4	25.7	84.0	2.8
271	Newspapers.....	E3	11	4	.6	10.7	.2	.3	3.0	23.7	6.5	30.2	1.5
2711	Newspapers.....	E3	11	4	.6	10.7	.2	.3	3.0	23.7	6.5	30.2	1.5
275	Commercial printing.....	E1	35	2	.3	6.5	.2	.4	3.5	17.8	12.5	30.4	1.1
30	Rubber and miscellaneous plastics products.....	E1	21	10	3.0	78.2	2.1	4.7	53.4	125.7	141.5	266.6	6.8
306	Fabricated rubber products, n.e.c.....	E9	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3061	Mechanical rubber goods.....	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
308	Miscellaneous plastics products, n.e.c.....	—	14	7	2.7	71.0	1.9	4.2	48.5	109.5	129.6	238.5	(D)
3086	Plastics foam products.....	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3089	Plastics products, n.e.c.....	E7	8	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products.....	—	10	9	1.5	37.7	1.2	2.4	23.3	6.3	190.0	189.5	.6
311	Leather tanning and finishing.....	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3111	Leather tanning and finishing.....	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Footwear, except rubber.....	—	5	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1
3144	Women's footwear, except athletic.....	—	4	4	.6	10.6	.5	1.0	6.5	17.6	22.9	39.3	(D)
32	Stone, clay, and glass products.....	—	17	7	.9	26.0	.6	1.3	15.3	59.3	53.9	112.2	3.5
323	Products of purchased glass.....	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3231	Products of purchased glass.....	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
326	Pottery and related products.....	—	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33	Primary metal industries.....	—	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
335	Nonferrous rolling and drawing.....	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3357	Nonferrous wire drawing and insulating.....	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	—	34	8	1.0	25.3	.7	1.5	14.6	61.1	37.8	95.8	2.0
348	Ordnance and accessories, n.e.c.....	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3484	Small arms.....	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Areas: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's; information on geographic areas followed by ▲; and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
35	Portsmouth-Rochester, NH-ME PMSA—Con.												
	Industrial machinery and equipment -----	E1	49	14	1.9	64.2	1.0	2.4	29.4	119.9	200.7	344.4	7.6
355	Special industry machinery -----	—	8	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3555	Printing trades machinery -----	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
357	Computer and office equipment -----	—	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment -----	—	30	14	1.6	36.9	.9	1.8	15.8	317.8	131.9	444.4	11.2
366	Communications equipment -----	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3661	Telephone and telegraph apparatus -----	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories -----	E5	15	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3676	Electronic resistors -----	E9	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment -----	—	5	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment -----	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3714	Motor vehicle parts and accessories -----	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products -----	—	13	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices -----	—	6	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3825	Instruments to measure electricity -----	—	3	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Auxiliaries -----	—	15	7	1.1	61.7	—	—	—	—	—	—	—
	Worcester, MA-CT PMSA -----	E1	888	357	42.1	1 410.7	25.2	53.2	641.6	2 687.7	2 440.8	5 176.1	164.1
	(See appropriate State for SIC detail.)												

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 250 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees; J—10,000 to 24,999 employees; K—25,000 to 49,999 employees; L—50,000 to 99,999 employees; M—100,000 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1992

[Includes operating manufacturing establishments and auxiliaries. Includes counties with 500 employees or more and industry groups and industries with 500 employees or more within counties, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Belknap County -----	E2	133	42	3.8	91.9	2.8	5.5	55.1	168.8	103.8	274.6	12.2
35	Industrial machinery and equipment -----	—	31	6	.8	20.5	.6	1.3	15.6	39.6	19.0	59.9	2.8
36	Electronic and other electric equipment -----	E5	14	9	.9	21.6	.6	1.3	12.0	47.3	28.4	75.3	4.5
367	Electronic components and accessories -----	E7	11	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Carroll County -----	E1	84	16	1.0	21.3	.7	1.4	12.7	57.3	43.8	100.1	1.4
	Cheshire County -----	E1	183	52	6.8	195.2	4.4	8.4	103.8	452.1	270.2	710.7	19.3
35	Industrial machinery and equipment -----	—	29	10	2.7	91.8	1.9	3.7	52.3	216.4	88.4	298.3	10.2
354	Metalworking machinery -----	—	6	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3541	Machine tools, metal cutting types -----	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
356	General industrial machinery -----	—	4	3	1.9	62.3	1.2	2.4	32.4	167.4	43.4	207.5	7.1
3562	Ball and roller bearings -----	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3569	General industrial machinery, n.e.c. -----	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products -----	—	12	6	1.2	31.7	.8	1.0	14.3	74.0	42.5	114.2	1.5
384	Medical instruments and supplies -----	—	8	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3841	Surgical and medical instruments -----	—	7	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Coos County -----	—	107	23	3.9	92.6	3.2	6.3	66.6	257.8	270.7	525.4	35.0
24	Lumber and wood products -----	E1	66	5	.5	8.9	.4	.9	7.3	23.1	29.5	53.2	1.6
26	Paper and allied products -----	—	6	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
262	Paper mills -----	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2621	Paper mills -----	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1992—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes counties with 500 employees or more and industry groups and industries with 500 employees or more within counties, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Grafton County	E1	167	53	6.2	160.0	4.3	9.0	98.0	380.0	218.5	594.8	16.7
27	Printing and publishing	E1	35	9	.7	17.7	.4	.7	8.8	36.2	19.2	55.4	1.2
30	Rubber and miscellaneous plastics products	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
305	Hose and belting and gaskets and packing	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3053	Gaskets, packing, and sealing devices	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	E1	16	8	1.6	52.1	1.1	2.3	35.3	120.9	43.3	161.9	3.8
354	Metalworking machinery	-	5	5	.7	21.5	.5	.9	13.9	67.8	26.0	88.3	1.9
3548	Welding apparatus	-	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
356	General industrial machinery	E2	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3562	Ball and roller bearings	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	E1	8	6	.6	15.3	.3	.6	5.9	53.2	23.0	76.2	2.8
	Hillsborough County	-	693	240	35.1	1 224.7	21.6	42.1	592.0	2 578.1	1 741.6	4 338.4	140.6
20	Food and kindred products	-	14	5	1.3	45.5	1.0	1.8	31.1	289.1	237.0	527.8	(D)
208	Beverages	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2082	Malt beverages	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products	-	11	6	1.1	27.8	.8	1.7	17.0	91.0	65.8	156.5	6.3
224	Narrow fabric mills	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2241	Narrow fabrics mills	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	-	11	8	1.0	32.1	.6	1.4	14.8	82.4	91.0	173.8	3.5
267	Miscellaneous converted paper products	-	7	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	-	115	29	2.9	82.8	1.5	2.8	38.1	240.9	97.5	338.2	9.4
271	Newspapers	-	12	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
2711	Newspapers	-	12	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
275	Commercial printing	-	59	10	.6	17.4	.4	.9	10.2	39.0	24.7	63.5	2.9
276	Manifold business forms	-	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2761	Manifold business forms	-	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28	Chemicals and allied products	-	10	3	.5	20.8	.3	.6	11.1	75.3	73.5	147.9	(D)
30	Rubber and miscellaneous plastics products	-	48	23	2.4	59.0	1.8	3.8	38.7	131.1	118.9	250.9	8.4
308	Miscellaneous plastics products, n.e.c. ...	-	38	18	1.6	41.1	1.3	2.6	27.3	90.0	82.7	172.1	5.6
3089	Plastics products, n.e.c.	E1	21	10	.9	20.0	.7	1.3	13.1	49.3	32.7	82.2	2.5
33	Primary metal industries	E1	16	7	1.6	45.1	1.1	1.9	27.7	98.3	89.7	187.4	5.1
332	Iron and steel foundries	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3324	Steel investment foundries	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
335	Nonferrous rolling and drawing	E2	7	4	.6	16.8	.5	1.0	10.3	38.9	70.3	110.2	(D)
3357	Nonferrous wiredrawing and insulating	E2	7	4	.6	16.8	.5	1.0	10.3	38.9	70.3	110.2	(D)
34	Fabricated metal products	-	70	25	2.0	61.0	1.4	3.1	35.4	104.8	87.3	191.7	8.9
344	Fabricated structural metal products	-	30	11	.9	24.9	.7	1.4	16.2	45.2	42.1	87.2	1.4
35	Industrial machinery and equipment	E2	123	31	3.4	120.7	2.0	4.0	58.9	190.7	185.3	375.5	13.2
355	Special industry machinery	E1	13	6	1.0	34.6	.6	1.1	19.9	34.9	61.3	98.8	2.6
3554	Paper industries machinery	-	4	3	.7	25.2	.4	.8	16.7	17.2	50.3	70.1	(D)
356	General industrial machinery	E3	7	4	.7	23.4	.5	.9	13.5	42.4	31.1	73.1	(D)
357	Computer and office equipment	E1	20	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7
3575	Computer terminals	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	E2	86	41	6.6	198.4	4.4	8.6	99.4	470.8	259.2	730.0	37.3
364	Electric lighting and wiring equipment ...	E3	3	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3641	Electric lamp bulbs and tubes	E3	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories ..	E2	50	26	3.8	118.7	2.5	5.0	54.0	225.4	123.4	350.9	25.1
3672	Printed circuit boards	-	14	9	.9	26.9	.6	1.2	14.8	46.7	38.0	83.8	(D)
3674	Semiconductors and related devices	E5	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3676	Electronic resistors	-	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.	E1	25	11	1.7	55.0	1.0	2.1	22.7	90.8	44.8	137.8	7.5
369	Miscellaneous electrical equipment and supplies	-	7	5	.5	14.0	.4	.5	7.9	36.9	27.0	62.6	1.7
38	Instruments and related products	-	48	25	7.4	321.2	4.8	8.6	177.9	642.8	335.1	997.2	23.2
381	Search and navigation equipment	-	6	6	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3812	Search and navigation equipment	-	6	6	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices	E1	29	14	1.0	31.4	.5	1.1	11.0	82.0	44.2	124.0	1.9
39	Miscellaneous manufacturing industries	-	21	4	.6	14.0	.4	.9	9.0	43.4	23.2	67.2	(D)
399	Miscellaneous manufactures	-	12	4	.5	12.8	.4	.8	8.4	41.2	21.2	62.9	(D)
—	Auxiliaries	-	15	9	2.5	146.0	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1992—
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[Includes operating manufacturing establishments and auxiliaries. Includes counties with 500 employees or more and industry groups and industries with 500 employees or more within counties, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Merrimack County	—	225	78	8.3	215.5	5.6	11.5	122.4	493.9	444.7	938.3	25.9
24	Lumber and wood products	E1	32	11	.7	15.6	.5	.9	8.9	23.1	41.0	63.6	1.0
27	Printing and publishing	—	40	12	1.1	26.2	.8	1.6	14.5	50.8	33.1	83.7	4.1
275	Commercial printing	—	22	7	.6	17.0	.5	1.0	9.7	33.3	28.2	61.3	3.7
30	Rubber and miscellaneous plastics products	—	10	6	.5	14.5	.3	.7	6.4	47.5	38.1	85.0	2.8
308	Miscellaneous plastics products, n.e.c. ...	—	8	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	—	24	3	.7	18.7	.6	1.2	14.6	72.9	49.5	122.3	(D)
349	Miscellaneous fabricated metal products	—	6	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3491	Industrial valves	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	E1	30	8	.7	21.1	.4	.9	11.3	50.1	28.9	77.9	1.7
36	Electronic and other electric equipment	—	13	5	.6	14.7	.4	.9	6.6	26.8	35.1	62.9	2.6
367	Electronic components and accessories ..	—	6	4	.6	13.4	.4	.9	5.9	24.5	33.3	58.8	2.5
37	Transportation equipment	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
372	Aircraft and parts	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3724	Aircraft engines and engine parts	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	—	15	6	.9	19.6	.5	1.1	9.9	34.5	29.1	64.0	1.2
382	Measuring and controlling devices	—	9	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Rockingham County	E1	466	134	13.9	438.1	7.9	16.3	198.5	1 082.4	923.7	2 003.9	51.9
20	Food and kindred products	E3	24	10	.8	18.9	.6	1.4	12.8	54.6	173.9	227.2	4.9
23	Apparel and other textile products	E9	10	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
239	Miscellaneous fabricated textile products	E9	8	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products	E2	37	8	.6	11.5	.5	.9	7.7	21.9	27.1	49.2	.6
27	Printing and publishing	E3	78	7	.8	19.4	.4	.8	8.6	44.0	16.9	60.8	1.7
30	Rubber and miscellaneous plastics products	—	16	6	.8	22.9	.5	1.0	11.1	44.8	47.4	90.0	3.0
308	Miscellaneous plastics products, n.e.c. ...	—	16	6	.8	22.9	.5	1.0	11.1	44.8	47.4	90.0	3.0
3089	Plastics products, n.e.c.	—	9	3	.6	17.7	.4	.8	9.1	35.1	39.7	72.7	(D)
32	Stone, clay, and glass products	—	15	7	.9	27.1	.6	1.2	14.9	64.7	56.7	120.3	3.6
33	Primary metal industries	—	8	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
335	Nonferrous rolling and drawing	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3357	Nonferrous wiredrawing and insulating	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	E1	43	13	.9	29.6	.6	1.4	17.5	61.9	48.0	109.8	2.0
344	Fabricated structural metal products	—	15	7	.6	17.7	.4	.8	10.9	37.0	29.4	66.2	.9
35	Industrial machinery and equipment	E1	90	21	2.1	66.7	.9	1.8	30.7	289.1	243.9	543.3	5.0
357	Computer and office equipment	—	10	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3571	Electronic computers	—	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	E1	46	19	1.7	54.0	1.0	2.1	22.4	147.7	77.9	225.0	7.3
367	Electronic components and accessories ..	E1	28	13	1.4	40.4	.8	1.6	16.7	96.5	67.5	163.6	3.9
3672	Printed circuit boards	E2	10	6	1.0	27.8	.6	1.2	12.3	71.2	48.3	119.4	(D)
37	Transportation equipment	—	4	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3714	Motor vehicle parts and accessories	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	E2	27	8	.6	17.7	.3	.6	6.6	47.7	23.3	70.1	1.9
—	Auxiliaries	—	13	8	.5	50.8	—	—	—	—	—	—	—
	Strafford County	—	151	55	10.3	282.9	6.3	13.2	150.7	698.7	591.3	1 316.6	32.2
27	Printing and publishing	—	25	5	.5	11.5	.2	.5	4.5	28.4	14.1	42.5	1.9
30	Rubber and miscellaneous plastics products	E1	16	8	2.8	74.6	2.0	4.3	51.1	119.0	136.3	254.8	6.7
308	Miscellaneous plastics products, n.e.c. ...	—	9	5	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3086	Plastics foam products	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products	—	6	6	.5	9.8	.4	.8	5.5	17.4	24.1	40.5	.2
34	Fabricated metal products	—	16	2	.5	10.9	.5	.9	7.6	27.4	14.1	38.6	1.1
35	Industrial machinery and equipment	—	21	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
355	Special industry machinery	—	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3555	Printing trades machinery	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	—	18	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
366	Communications equipment	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3661	Telephone and telegraph apparatus	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories ..	E6	8	5	.6	12.9	.4	.7	5.3	24.5	15.5	40.1	.6
38	Instruments and related products	—	3	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3825	Instruments to measure electricity	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

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SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
Strafford County—Con.													
—	Auxiliaries	—	7	4	F	(D)	—	—	—	—	—	—	—
—	Sullivan County	—	122	39	4.2	96.3	3.4	6.8	72.8	353.9	169.3	513.5	9.0
34	Fabricated metal products	—	15	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
348	Ordnance and accessories, n.e.c.	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3484	Small arms	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 500 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees; J—10,000 to 24,999 employees; K—25,000 to 49,999 employees; L—50,000 to 99,999 employees; M—100,000 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1992

[Includes operating manufacturing establishments and auxiliaries. Includes places with 500 employees or more and industry groups and industries with 500 employees or more within places, except those that would disclose data for individual companies. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
26	Berlin	—	22	8	1.8	45.7	1.3	2.5	30.0	112.3	120.6	229.9	(D)
26	Paper and allied products	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
262	Paper mills	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2621	Paper mills	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Claremont	—	43	19	1.9	38.5	1.5	2.8	25.9	185.8	99.0	277.5	3.5
—	Concord	—	69	26	2.6	64.0	1.5	3.1	29.3	126.2	118.3	243.9	8.1
27	Printing and publishing	—	20	8	.8	19.5	.6	1.1	10.7	39.6	27.5	67.0	(D)
—	Derry town	E1	31	11	1.3	36.3	.8	1.7	17.8	104.7	60.3	166.6	5.9
36	Electronic and other electric equipment	E1	4	4	.8	24.3	.4	.9	10.6	80.6	40.9	123.2	4.7
367	Electronic components and accessories ..	E1	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3672	Printed circuit boards	E1	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Dover	E1	54	19	4.3	121.3	2.4	5.5	62.9	203.4	240.5	465.6	10.2
30	Rubber and miscellaneous plastics products	E1	8	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
308	Miscellaneous plastics products, n.e.c. ...	E1	7	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3086	Plastics foam products	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	—	6	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
355	Special industry machinery	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3555	Printing trades machinery	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	E4	9	5	.7	16.4	.4	.8	6.8	32.5	17.4	49.8	.8
367	Electronic components and accessories ..	E6	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Exeter town	E1	23	10	.9	33.0	.6	1.2	10.3	42.5	38.2	79.9	(D)
—	Franklin	—	23	9	1.2	31.3	.9	1.8	20.2	115.4	89.1	204.2	(D)
34	Fabricated metal products	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
349	Miscellaneous fabricated metal products	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3491	Industrial valves	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Hampton town	—	18	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4
—	Hudson town	E1	71	32	3.6	106.4	2.2	4.2	49.0	224.4	166.3	389.7	15.1
35	Industrial machinery and equipment	—	15	5	.7	25.8	.4	.6	8.5	48.6	46.1	94.8	1.6
36	Electronic and other electric equipment	E4	10	7	1.2	34.4	.8	1.6	16.7	72.1	45.0	116.4	8.4
367	Electronic components and accessories ..	E4	6	6	1.2	32.0	.8	1.6	16.0	69.1	42.7	111.0	8.4

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1992—Con.

[Includes operating manufacturing establishments and auxiliaries. Includes places with 500 employees or more and industry groups and industries with 500 employees or more within places, except those that would disclose data for individual companies. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Keene	—	53	18	3.3	98.8	2.0	3.9	46.8	209.1	100.3	305.9	7.7
35	Industrial machinery and equipment	—	9	6	1.8	60.9	1.2	2.4	33.2	128.2	36.6	163.5	(D)
356	General industrial machinery	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3562	Ball and roller bearings	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3569	General industrial machinery, n.e.c.	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	—	7	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical instruments and supplies	—	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3841	Surgical and medical instruments	—	4	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Laconia	E2	59	22	2.4	57.4	1.7	3.5	35.2	106.1	67.2	176.0	9.3
35	Industrial machinery and equipment	—	11	3	.5	15.2	.5	.9	12.0	25.7	15.7	42.9	2.3
36	Electronic and other electric equipment	E6	8	6	.8	18.5	.6	1.1	10.3	41.5	23.6	64.7	4.1
367	Electronic components and accessories ..	E9	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lebanon	E2	41	19	2.0	61.4	1.3	2.6	35.8	131.8	60.8	192.3	3.8
35	Industrial machinery and equipment	E1	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
356	General industrial machinery	E2	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3562	Ball and roller bearings	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Londonderry town	E1	56	18	1.0	30.9	.6	1.4	15.5	77.2	115.0	190.0	3.2
	Manchester	E1	163	67	8.3	236.7	5.5	11.4	124.3	556.9	426.3	983.5	30.2
20	Food and kindred products	—	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
22	Textile mill products	—	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
224	Narrow fabric mills	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2241	Narrow fabrics mills	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	—	36	9	1.0	32.9	.6	1.2	16.8	80.9	37.2	118.4	3.2
30	Rubber and miscellaneous plastics products	—	10	6	.9	21.5	.7	1.5	13.7	54.7	51.3	108.1	3.6
308	Miscellaneous plastics products, n.e.c. ...	—	8	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	—	12	6	.7	24.4	.5	1.2	13.4	34.4	40.3	74.9	(D)
36	Electronic and other electric equipment	E4	18	12	1.6	47.0	1.1	2.2	24.7	137.2	66.5	202.8	7.7
364	Electric lighting and wiring equipment ...	E9	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3641	Electric lamp bulbs and tubes	E9	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	E2	14	9	.8	20.4	.4	.8	7.1	50.7	19.8	68.6	.9
	Merrimack town	—	32	14	2.3	83.3	1.5	2.7	43.0	274.7	215.9	491.8	16.9
20	Food and kindred products	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
208	Beverages	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2082	Malt beverages	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	E2	7	5	.9	29.7	.5	.9	11.2	59.0	25.4	85.6	(D)
367	Electronic components and accessories ..	E2	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Milford town	—	44	17	2.2	69.0	1.3	2.5	36.0	142.4	97.7	236.8	9.0
33	Primary metal industries	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
332	Iron and steel foundries	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3324	Steel investment foundries	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nashua	—	149	51	12.7	550.2	7.5	13.9	252.4	948.1	546.8	1 501.2	47.6
30	Rubber and miscellaneous plastics products	—	9	5	.6	15.7	.5	1.1	11.2	30.1	28.7	58.2	1.5
35	Industrial machinery and equipment	E2	29	11	1.5	54.2	.8	1.7	27.3	63.8	86.4	150.6	5.3
355	Special industry machinery	E1	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3554	Paper industries machinery	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	—	24	9	1.6	51.6	1.0	2.1	24.9	104.3	63.1	168.9	8.4
367	Electronic components and accessories ..	—	17	6	1.3	43.6	.9	1.9	21.2	76.8	42.7	121.8	(D)
3679	Electronic components, n.e.c.	—	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	—	8	4	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
381	Search and navigation equipment	—	2	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3812	Search and navigation equipment	—	2	2	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
—	Auxiliaries	—	5	4	G	(D)	—	—	—	—	—	—	—
	Portsmouth	E3	62	19	1.8	46.8	1.2	2.6	27.6	106.3	140.4	246.7	5.7
20	Food and kindred products	E3	10	6	.5	12.7	.4	1.0	9.8	28.8	79.1	107.9	3.0
	Rochester	—	46	22	2.7	63.5	1.5	3.0	25.4	350.9	177.9	518.4	12.8
—	Auxiliaries	—	3	3	F	(D)	—	—	—	—	—	—	—
	Salem town	E2	72	28	2.9	99.0	1.0	2.0	32.0	358.6	254.3	615.5	9.6
35	Industrial machinery and equipment	—	12	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3
357	Computer and office equipment	—	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3571	Electronic computers	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1992—Con.

[Includes operating manufacturing establishments and auxiliaries. Includes places with 500 employees or more and industry groups and industries with 500 employees or more within places, except those that would disclose data for individual companies. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Somersworth -----	E1	20	5	2.0	59.7	1.6	3.1	43.8	96.1	85.8	195.5	5.4
38	Instruments and related products -----	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices -----	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3825	Instruments to measure electricity ----	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 500 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees; J—10,000 to 24,999 employees; K—25,000 to 49,999 employees; L—50,000 to 99,999 employees; M—100,000 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

NH-28 NEW HAMPSHIRE MANUFACTURES—GEOGRAPHIC AREA SERIES

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1992

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and employment-size class ¹	All establishments	Establishments in major group—																				Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
New Hampshire -----	2 331	61	--	41	66	326	48	45	367	37	7	118	24	81	48	211	382	200	22	124	80	43
1 to 4 employees-----	861	21	--	5	25	173	24	1	162	9	1	21	7	32	6	71	153	48	12	41	43	6
5 to 9 employees-----	415	9	--	4	9	63	4	8	74	6	1	20	4	12	10	41	75	33	4	22	11	5
10 to 19 employees-----	323	10	--	7	11	39	6	7	54	8	1	20	2	13	6	40	53	23	--	8	10	5
20 to 49 employees-----	357	9	--	9	11	34	9	8	42	5	3	20	4	12	12	39	52	37	3	25	7	16
50 to 99 employees-----	178	5	--	7	6	12	3	10	20	6	1	17	3	9	5	9	24	23	--	11	4	3
100 to 249 employees-----	124	5	--	5	3	5	2	6	9	2	--	12	4	2	5	6	12	26	--	12	4	4
250 to 499 employees-----	46	1	--	3	1	--	--	3	6	1	--	5	--	1	2	3	8	6	1	1	1	3
500 to 999 employees-----	22	1	--	1	--	--	--	1	--	--	--	2	--	2	2	5	4	2	2	--	--	--
1,000 to 2,499 employees-----	4	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--	1	--	1
2,500 employees or more-----	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
Belknap -----	133	1	--	4	6	17	1	2	14	--	--	8	1	6	4	14	31	14	3	2	5	--
1 to 19 employees-----	91	1	--	2	3	15	1	1	13	--	--	2	1	4	1	10	25	5	3	1	3	--
20 to 99 employees-----	34	--	--	2	3	1	--	1	1	--	--	6	--	2	2	3	5	6	--	1	1	--
100 to 249 employees-----	5	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1	--	2	--	--	--	--
250 employees or more-----	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	1	--
Carroll -----	84	3	--	1	9	21	3	1	12	--	--	4	1	3	1	4	8	3	2	5	3	--
1 to 19 employees-----	68	3	--	--	6	20	2	1	8	--	--	2	1	3	1	3	6	3	2	5	2	--
20 to 99 employees-----	15	--	--	1	3	1	1	--	4	--	--	1	--	--	--	1	2	--	--	--	1	--
100 to 249 employees-----	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
Cheshire -----	183	1	--	6	5	32	6	5	27	4	--	11	1	4	4	13	29	7	2	12	11	3
1 to 19 employees-----	131	1	--	3	5	26	5	2	22	2	--	8	1	3	3	11	19	4	1	6	8	1
20 to 99 employees-----	38	--	--	2	6	1	3	4	1	--	--	2	--	1	--	2	5	2	1	4	2	2
100 to 249 employees-----	7	--	--	--	--	--	--	--	1	--	--	1	--	--	--	1	1	--	--	1	--	--
250 employees or more-----	7	--	--	1	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	2	--	--
Coos -----	107	2	--	--	3	66	2	6	8	3	--	2	1	2	--	2	6	3	--	--	--	1
1 to 19 employees-----	84	2	--	--	--	61	1	--	7	2	--	1	1	2	--	1	4	2	--	--	--	--
20 to 99 employees-----	16	--	--	--	2	5	--	2	1	1	--	--	--	--	--	1	2	1	--	--	--	1
100 to 249 employees-----	4	--	--	--	1	--	1	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--
250 employees or more-----	3	--	--	--	--	--	--	2	--	--	--	1	--	--	--	--	--	--	--	--	--	--
Grafton -----	167	5	--	2	9	43	4	1	35	1	1	1	3	8	2	10	16	8	1	9	7	1
1 to 19 employees-----	114	3	--	1	7	36	3	1	26	--	--	1	7	--	7	8	2	1	5	6	--	--
20 to 99 employees-----	37	2	--	--	1	6	--	--	8	1	1	--	1	--	1	2	4	4	--	4	1	1
100 to 249 employees-----	11	--	--	--	1	1	1	--	1	--	--	--	1	1	1	1	1	2	--	--	--	--
250 employees or more-----	5	--	--	1	--	--	--	--	--	--	--	1	--	--	--	3	--	--	--	--	--	--
Hillsborough -----	693	14	--	11	20	41	16	11	115	10	1	48	3	20	16	70	123	86	4	48	21	15
1 to 19 employees-----	453	9	--	5	13	35	13	3	86	7	1	25	3	13	9	45	92	45	3	23	17	6
20 to 99 employees-----	166	2	--	3	6	5	3	5	23	2	--	16	--	7	4	20	23	24	--	16	2	5
100 to 249 employees-----	46	1	--	2	1	1	--	2	2	--	--	6	--	--	1	3	5	11	--	7	2	2
250 employees or more-----	28	2	--	1	--	--	--	1	4	1	--	1	--	--	2	2	3	6	1	2	--	2
Merrimack -----	225	5	--	6	2	32	3	6	40	3	1	10	3	11	7	24	30	13	2	15	10	2
1 to 19 employees-----	147	1	--	2	2	21	2	3	28	3	1	4	1	7	2	21	22	8	1	9	8	1
20 to 99 employees-----	56	2	--	3	--	10	1	2	8	--	--	4	2	4	4	2	7	2	--	2	2	1
100 to 249 employees-----	18	2	--	1	--	1	--	--	3	--	--	2	--	--	--	1	3	--	--	4	--	--
250 employees or more-----	4	--	--	--	--	--	--	1	1	--	--	--	--	--	--	1	--	--	1	--	--	--
Rockingham -----	466	24	--	4	10	37	8	8	78	13	2	16	5	15	8	43	90	46	4	27	15	13
1 to 19 employees-----	332	14	--	2	8	29	4	5	71	7	--	10	4	8	3	30	69	27	3	19	14	5
20 to 99 employees-----	108	8	--	1	1	7	4	2	6	5	2	5	--	5	4	12	17	14	--	7	1	7
100 to 249 employees-----	18	2	--	--	1	--	--	1	1	1	--	--	1	1	--	1	3	4	--	1	--	1
250 employees or more-----	8	--	--	1	1	--	--	--	--	--	--	1	--	1	1	--	1	1	1	--	--	--
Strafford -----	151	5	--	4	1	6	2	2	25	1	2	16	6	6	2	16	21	18	1	3	7	7
1 to 19 employees-----	96	5	--	1	1	6	--	--	20	1	1	8	--	4	1	14	15	8	1	1	6	3
20 to 99 employees-----	34	--	--	3	--	--	2	1	4	--	1	3	4	2	1	1	4	5	--	1	1	1
100 to 249 employees-----	10	--	--	--	--	--	--	1	1	--	--	1	2	--	--	--	1	3	--	--	--	1
250 employees or more-----	11	--	--	--	--	--	--	--	--	--	--	4	--	--	--	1	1	2	--	1	--	2

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1992—Con.

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and employment-size class ¹	All establishments	Establishments in major group—																			Auxiliaries	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		39
New Hampshire—Con.																						
Sullivan -----	122	1	—	3	1	31	3	3	13	2	—	2	—	6	4	15	28	2	3	3	1	1
1 to 19 employees -----	83	1	—	—	—	26	3	—	9	1	—	1	—	6	2	10	21	—	1	2	—	—
20 to 99 employees -----	31	—	—	1	1	5	—	2	3	1	—	—	—	—	1	4	7	2	2	1	—	1
100 to 249 employees -----	4	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
250 employees or more -----	4	—	—	—	—	—	—	1	1	—	—	—	—	—	1	1	—	—	—	—	—	—

Note: Data on number of establishments by employment-size class by four-digit SIC industry for the State, counties, places, and ZIP Codes are presented in Location of Manufacturing Plants subject report. This report is available only on CD-ROM (see introductory text).

¹Only those counties and size classes that include data for manufacturing establishments are shown. Auxiliaries are included in figures shown.

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, but are included in the data for the geographic area (State, MA, county, place) as a whole.

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.)

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.)

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.

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 company-owned 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 geographically-based 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:

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

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 single-establishment 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 breakdown 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, complete-coverage value for specified percentages of all the possible samples).

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

1. 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. Metropolitan Areas

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

NEW HAMPSHIRE

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

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

Boston, MA-NH PMSA

Bristol County, MA (part)

Berkley town, MA

Dighton town, MA

Mansfield town, MA

Norton town, MA

Taunton city, MA

Essex County, MA (part)

Amesbury town, MA

Beverly city, MA

Danvers town, MA

Essex town, MA

Gloucester city, MA

Hamilton town, MA

Ipswich town, MA

Lynn city, MA

Lynnfield town, MA

Manchester town, MA

Marblehead town, MA

Middleton town, MA

Nahant town, MA

Newbury town, MA

Newburyport city, MA

Peabody city, MA

Rockport town, MA

Rowley town, MA

Salem city, MA

Salisbury town, MA

Saugus town, MA

Swampscott town, MA

Topsfield town, MA

Wenham town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

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

Boston, MA-NH PMSA—Con.

Middlesex County, MA (part)—Con.

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Everett city, MA

Framingham town, MA

Holliston town, MA

Hopkinton town, MA

Hudson town, MA

Lexington town, MA

Lincoln town, MA

Littleton town, MA

Malden city, MA

Marlborough city, MA

Maynard town, MA

Medford city, MA

Melrose city, MA

Natick town, MA

Newton city, MA

North Reading town, MA

Reading town, MA

Sherborn town, MA

Shirley town, MA

Somerville city, MA

Stoneham town, MA

Stow town, MA

Sudbury town, MA

Townsend town, MA

Wakefield town, MA

Waltham city, MA

Watertown city, MA

Wayland town, MA

Weston town, MA

Wilmington town, MA

Winchester town, MA

Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA

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

Boston, MA-NH PMSA—Con.

Norfolk County, MA (part)—Con.

- Braintree town, MA
- Brookline town, MA
- Canton town, MA
- Cohasset town, MA
- Dedham town, MA
- Dover town, MA
- Foxborough town, MA
- Franklin city, MA
- Holbrook town, MA
- Medfield town, MA
- Medway town, MA
- Millis town, MA
- Milton town, MA
- Needham town, MA
- Norfolk town, MA
- Norwood town, MA
- Plainville town, MA
- Quincy city, MA
- Randolph town, MA
- Sharon town, MA
- Stoughton town, MA
- Walpole town, MA
- Wellesley town, MA
- Westwood town, MA
- Weymouth town, MA
- Wrentham town, MA

Plymouth County, MA (part)

- Carver town, MA
- Duxbury town, MA
- Hanover town, MA
- Hingham town, MA
- Hull town, MA
- Kingston town, MA
- Marshfield town, MA
- Norwell town, MA
- Pembroke town, MA
- Plymouth town, MA
- Rockland town, MA
- Scituate town, MA
- Wareham town, MA

Suffolk County, MA

- Boston city, MA
- Chelsea city, MA
- Revere city, MA
- Winthrop town, MA

Worcester County, MA (part)

- Berlin town, MA
- Blackstone town, MA
- Bolton town, MA
- Harvard town, MA
- Hopedale town, MA
- Lancaster town, MA
- Mendon town, MA

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

Boston, MA-NH PMSA—Con.

Worcester County, MA (part)—Con.

- Milford town, MA
- Millville town, MA
- Southborough town, MA
- Upton town, MA

Rockingham County, NH (part)

- Seabrook town, NH
- South Hampton town, NH

Brockton, MA PMSA

- Bristol County, MA (part)
- Easton town, MA
- Raynham town, MA

Norfolk County, MA (part)

- Avon town, MA

Plymouth County, MA (part)

- Abington town, MA
- Bridgewater town, MA
- Brockton city, MA
- East Bridgewater town, MA
- Halifax town, MA
- Hanson town, MA
- Lakeville town, MA
- Middleborough town, MA
- Plympton town, MA
- West Bridgewater town, MA
- Whitman town, MA

Fitchburg-Leominster, MA PMSA

- Middlesex County, MA (part)
- Ashby town, MA

Worcester County, MA (part)

- Ashburnham town, MA
- Fitchburg city, MA
- Gardner city, MA
- Leominster city, MA
- Lunenburg town, MA
- Templeton town, MA
- Westminster town, MA
- Winchendon town, MA

Lawrence, MA-NH PMSA

Essex County, MA (part)

- Andover town, MA
- Boxford town, MA
- Georgetown town, MA
- Groveland town, MA
- Haverhill city, MA
- Lawrence city, MA
- Merrimac town, MA
- Methuen city, MA
- North Andover town, MA
- West Newbury town, MA

Rockingham County, NH (part)

- Atkinson town, NH
- Chester town, NH

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

Lawrence, MA-NH PMSA—Con.

Rockingham County, NH (part)—Con.

- Danville town, NH
- Derry town, NH
- Fremont town, NH
- Hampstead town, NH
- Kingston town, NH
- Newton town, NH
- Plaistow town, NH
- Raymond town, NH
- Salem town, NH
- Sandown town, NH
- Windham town, NH

Lowell, MA-NH PMSA

- Middlesex County, MA (part)
- Billerica town, MA
- Chelmsford town, MA
- Dracut town, MA
- Dunstable town, MA
- Groton town, MA
- Lowell city, MA
- Pepperell town, MA
- Tewksbury town, MA
- Tyngsborough town, MA
- Westford town, MA

Hillsborough County, NH (part)

- Pelham town, NH

Manchester, NH PMSA

Hillsborough County, NH (part)

- Bedford town, NH
- Goffstown town, NH
- Manchester city, NH
- Weare town, NH

Merrimack County, NH (part)

- Allenstown town, NH
- Hooksett town, NH

Rockingham County, NH (part)

- Auburn town, NH
- Candia town, NH
- Londonderry town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

- Amherst town, NH
- Brookline town, NH
- Greenville town, NH
- Hollis town, NH
- Hudson town, NH
- Litchfield town, NH
- Mason town, NH
- Merrimack town, NH
- Milford town, NH
- Mont Vernon town, NH
- Nashua city, NH
- New Ipswich town, NH
- Wilton town, NH

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

New Bedford, MA PMSA

Bristol County, MA (part)

- Acushnet town, MA
- Dartmouth town, MA
- Fairhaven town, MA
- Freetown town, MA
- New Bedford city, MA

Plymouth County, MA (part)

- Marion town, MA
- Mattapoisett town, MA
- Rochester town, MA

Portsmouth-Rochester, NH-ME PMSA

York County, ME (part)

- Berwick town, ME
- Eliot town, ME
- Kittery town, ME
- South Berwick town, ME
- York town, ME

Rockingham County, NH (part)

- Brentwood town, NH
- East Kingston town, NH
- Epping town, NH
- Exeter town, NH
- Greenland town, NH
- Hampton town, NH
- Hampton Falls town, NH
- Kensington town, NH
- New Castle town, NH
- Newfields town, NH
- Newington town, NH
- Newmarket town, NH
- North Hampton town, NH
- Portsmouth city, NH
- Rye town, NH
- Stratham town, NH

Strafford County, NH (part)

- Barrington town, NH
- Dover city, NH
- Durham town, NH
- Farmington town, NH
- Lee town, NH
- Madbury town, NH
- Milton town, NH
- Rochester city, NH
- Rollinsford town, NH
- Somersworth city, NH

Worcester, MA-CT PMSA

Windham County, CT (part)

- Thompson town, CT

Hampden County, MA (part)

- Holland town, MA

Worcester County, MA (part)

- Auburn town, MA
- Barre town, MA

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

Worcester County, MA (part)—Con.
Boylston town, MA
Brookfield town, MA
Charlton town, MA
Clinton town, MA
Douglas town, MA
Dudley town, MA
East Brookfield town, MA
Grafton town, MA
Holden town, MA
Leicester town, MA
Millbury town, MA
Northborough town, MA
Northbridge town, MA
North Brookfield town, MA
Oakham town, MA
Oxford town, MA
Paxton town, MA
Princeton town, MA
Rutland town, MA
Shrewsbury town, MA
Southbridge town, MA
Spencer town, MA

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

Worcester County, MA (part)—Con.
Sterling town, MA
Sturbridge town, MA
Sutton town, MA
Uxbridge town, MA
Webster town, MA
Westborough town, MA
West Boylston town, MA
West Brookfield town, MA
Worcester city, MA

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

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

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

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

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

Appendix D. **Geographic Notes**

NEW HAMPSHIRE

There are no geographic notes for the State of New Hampshire.