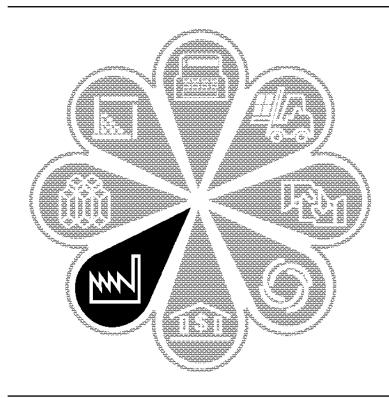
1992 Census of Manufactures

MC92-I-20H

INDUSTRY SERIES

Beverages

Industries 2082, 2083, 2084, 2085, 2086, and 2087



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

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

> BUREAU OF THE CENSUS Martha Farnsworth Riche, Director

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Manufacturing and Construction Division prepared this report. **David W. Cartwright**, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of **Judy Dodds**, Chief, Food, Textiles, and Apparel Branch, assisted by **Nathaniel Shelton**, Section Chief, with primary staff assistance by **Stephen Pope**.

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If you have any questions concerning the statistics in this report, call 301-457-4651.



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



BUREAU OF THE CENSUS Martha Farnsworth Riche, Director Harry A. Scarr, Deputy Director

 Paula J. Schneider, Principal Associate Director for Programs
 Frederick T. Knickerbocker, Associate Director for Economic Programs
 Thomas L. Mesenbourg, Assistant Director for Economic Programs

ECONOMIC PLANNING AND COORDINATION DIVISION John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION John P. Govoni, Acting Chief

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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

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

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

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

AUTHORITY AND SCOPE

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

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

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals. The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

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

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

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

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

Census of Manufactures

GENERAL

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

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

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

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

SCOPE OF CENSUS AND DEFINITION OF MANUFACTURING

The 1992 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial Classification (SIC) Manual¹ This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

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

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

RELATIONSHIP BETWEEN ANNUAL SURVEY OF MANUFACTURES AND CENSUS OF MANUFACTURES

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

ESTABLISHMENT BASIS OF REPORTING

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

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

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

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

MANUFACTURING UNIVERSE AND CENSUS REPORT FORMS

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

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

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

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

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

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

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

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

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

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

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

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

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

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

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

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

AUXILIARIES

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

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

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

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

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

INDUSTRY CLASSIFICATION OF ESTABLISH-MENTS

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

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

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

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix. In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see Appendix B, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

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

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

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

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

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

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

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

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

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

CENSUS DISCLOSURE RULES

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

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

SPECIAL TABULATIONS

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

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

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (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.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- pt. Part.
- r Revised.
- SIC Standard Industrial Classification.

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

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 explanation of terms, see appendixes]

			Four-dig	it industry :	statistics				ve-digit prov ven-digit pro		
ltem	His- torical	Oper- ating ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class special- ization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a		2	3a	4	5a					
Employment and payroll: Number of employees Payroll Supplemental labor costs Production workers Production-worker hours Production-worker wages	1a 1a 1a 1a 1a	1b 1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit) Product class shipments (five-digit) Product shipments (seven-digit) Value added by manufacture Cost of materials	1a 1a 1a	1b 1b 1b	2 2 2	3a 3a 3a	4	5a 5a 5a		5b	6a 6a	6b	6c
Fuels and electric energy Materials consumed by kind . Inventories: Total, end of year By stage of fabrication	1a			3a 3a 3a	4		7				
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures Used plant and equipment expenditures Gross assets Depreciation Retirements of buildings and machinery Foreign content of materials consumed	1a		2	3b 3b 3b 3b 3b 3b 3b	4	5a					
Purchased services Ratios: Specialization Coverage	1a 1a			Зс				5b 5b			

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

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MANUFACTURES-INDUSTRY SERIES

Description of Industries and Summary of Findings

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

SIC code and title

2082	Malt	Beverages
2002	iviait	Develages

- 2083 Malt
- 2084 Wines, Brandy, and Brandy Spirits
- 2085 Distilled and Blended Liquors
- 2086 Bottled and Canned Soft Drinks
- 2087 Flavoring Extracts and Syrups, N.E.C.

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

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class (five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1992 and 1987 censuses is shown in appendix C. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

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

INDUSTRY 2082, MALT BEVERAGES

This industry is made up of establishments primarily engaged in manufacturing malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

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

In the 1992 Census of Manufactures, Industry 2082, Malt Beverages, had employment of 34.5 thousand. The employment figure was 8 percent above the 31.9 thousand reported in 1987. Compared with 1991, employment increased 6 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were California, Colorado, Missouri, and Texas, accounting for approximately 45 percent of the industry's employment. This represents a shift from 1987 when California, Colorado, Missouri, and New York accounted for approximately 40 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$17.3 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2082 shipped \$17.3 billion of malt beverage products considered primary to the industry.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 100 percent.

The products primary to industry 2082, no matter in what industry they were produced, appear in table 6a and aggregate to \$17.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

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

The total cost of materials, services, and fuels and energy used by establishments classified in the malt beverage industry amounted to \$7.2 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of the total value of shipments.

INDUSTRY 2083, MALT

This industry is made up of establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

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

In the 1992 Census of Manufactures, Industry 2083, Malt, had employment of 1.3 thousand. The employment figure was 7 percent below the 1.4 thousand reported in 1987. Compared with 1991, employment decreased 7 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Wisconsin, Minnesota, and Washington. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$575.8 million.

The products primary to industry 2083, no matter in what industry they were produced, appear in table 6a and aggregate to \$573.3 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the malt products industry amounted to \$387.3 million. Data on specific materials consumed appear in table 7.

No establishments in this industry were excluded from the mail portion of the census. However, for a small number of establishments, reports were not received at the time the data were tabulated. For these establishments data were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of the total value of shipments.

INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS

This industry is made up of establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. Also included in this industry are establishments primarily engaged in blending wines from bonded wine cellars. Establishments primarily engaged in bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy are classified in wholesale trade industry 5182.

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

In the 1992 Census of Manufactures, Industry 2084, Wines, Brandy, and Brandy Spirits, had employment of 14.0 thousand. The employment figure was 1 percent above the 13.9 thousand reported in 1987.

The leading States in employment in 1992 were California and New York, accounting for approximately 90 percent of the industry's employment. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$4.3 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2084 shipped \$4.0 billion of wines, brandy, and brandy spirits products considered primary to the industry.

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

The products primary to industry 2084, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.1 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the wines, brandy, and brandy spirits industry amounted to \$2.4 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of the total value of shipments.

INDUSTRY 2085, DISTILLED AND BLENDED LIQUORS

This industry is made up of establishments primarily engaged in manufacturing alcoholic liquors by distillation, and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2869. Establishments primarily engaged in bottling purchased liquor are classified in wholesale trade industry 5182. The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2085, Distilled and Blended Liquors, had employment of 7.1 thousand. The employment figure was 21 percent below the 9.0 thousand reported in 1987. Compared with 1991, employment decreased 4 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Indiana, Kentucky, Maryland, and Tennessee, accounting for approximately 63 percent of the industry's employment. This represents a shift from 1987 when Indiana, Kentucky, Maryland, and Ohio accounted for approximately 59 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$3.4 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2085 shipped \$3.1 billion of distilled and blended liquors products considered primary to the industry, \$27.7 million of secondary products, and had \$314.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 99 percent (specialization ratio). In 1987, the specialization ratio was 99 percent.

Establishments in this industry also accounted for 94 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 95 percent.

The products primary to industry 2085, no matter in what industry they were produced, appear in table 6a and aggregate to \$3.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the distilled and blended liquors industry amounted to \$1.4 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of the total value of shipments.

INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS

This industry is made up of establishments primarily engaged in manufacturing soft drinks and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in industry group 203. Establishments primarily engaged in manufacturing fruit syrups for flavorings are classified in industry 2087.

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

In the 1992 Census of Manufactures, Industry 2086, Bottled and Canned Soft Drinks, had employment of 77.1 thousand. The employment figure was 19 percent below the 95.6 thousand reported in 1987. Compared with 1991, employment decreased 6 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Texas, California, Florida, and New York, accounting for approximately 30 percent of the industry's employment. This represents a shift from 1987 when Texas, California, Ohio, and Florida accounted for approximately 29 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$25.4 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2086 shipped \$22.9 billion of bottled and canned soft drinks products considered primary to the industry, \$651.7 million of secondary products, and had \$1.9 billion of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 97 percent (specialization ratio). In 1987, the specialization ratio was 98 percent.

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

The products primary to industry 2086, no matter in what industry they were produced, appear in table 6a and aggregate to \$23.8 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the bottled and canned soft drinks industry amounted to \$15.9 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of the total value of shipments.

INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing flavoring extracts, syrups, powders, and related products, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Establishments primarily engaged in manufacturing chocolate syrup are classified in industry 2066.

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

In the 1992 Census of Manufactures, Industry 2087, Flavoring Extracts and Syrups, N.E.C., had employment of 10.3 thousand. The employment figure was 13 percent above the 9.1 thousand reported in 1987. Compared with 1991, employment increased 27 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

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

The total value of shipments for establishments classified in this industry was \$6.9 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2087 shipped \$6.3 billion of flavoring extracts and syrups, not elsewhere classified, considered primary to the industry, \$558.9 million of secondary products, and had \$99.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 92 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 90 percent.

The products primary to industry 2087, no matter in what industry they were produced, appear in table 6a and aggregate to \$6.8 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the flavoring extracts and syrups, not elsewhere classified, industry amounted to \$1.7 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of the total value of shipments.

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

Excludes data for	auxiliaries.		•						n of terms, see	appendixes]				2	
Year ¹	Com-	All establ	With 20 employ- ees or	All emp	Payroll		duction wor	Wages	Value added by manufac- ture ⁴	Cost of materials ⁵	Value of shipments	New capital expend- itures ⁶	End-of- year inven- tories ⁴	Rat Spe- ciali- zation ⁷	Cover- age ⁸
	panies ² (no.)	Total (no.)	more (no.)	Number (1,000)	(million dollars)	Number (1,000)	Hours (millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(per- cent)	(per- cent)
									LT BEVERA						
1992 Census 1991 ASM 1990 ASM 1988 ASM 1988 ASM 1987 Census 1986 ASM	160 (NA) (NA) (NA) (NA) 101	194 (NA) (NA) (NA) (NA) 134 (NA)	75 (NA) (NA) (NA) (NA) 64 (NA)	34.5 32.4 32.6 32.0 32.4 31.9 34.0	1 566.7 1 445.8 1 425.1 1 364.6 1 316.6 1 355.4 1 255.1	25.1 23.5 23.5 23.3 23.2 22.7 24.8	45.9 43.1 44.3 43.8 42.7 44.7 50.5	1 050.7 961.0 945.3 931.2 905.2 927.9 890.9	10 189.3 9 036.7 8 192.8 7 783.3 7 450.8 7 284.8 6 184.5	7 179.8 6 885.8 6 988.5 6 555.0 6 414.0 6 311.8 6 502.5	17 340.2 15 924.9 15 186.2 14 321.2 13 870.7 13 618.6 12 677.9	565.0 649.0 542.8 601.8 570.3 473.6 578.3	609.0 572.2 549.2 533.0 585.7 609.9 669.8	(D) (NA) (NA) (NA) (NA) 100 (NA)	99 (NA) (NA) (NA) (NA) 100 (NA)
1985 ASM 1984 ASM 1983 ASM 1982 Census	(NA) (NA) (NA) (NA) 67	(NA) (NA) (NA) 109	(NA) (NA) (NA) 73	40.3 38.8 40.7 43.0	1 357.8 1 313.6 1 302.6 1 307.9	27.0 27.4 28.5 29.5	52.6 51.8 55.1 57.5	952.2 931.8 892.0 883.5	5 681.3 5 393.7 5 324.6 4 534.8	6 529.1 6 485.0 6 443.2 6 669.7	12 215.8 11 868.2 11 797.5 11 183.2	372.2 594.1 599.8 665.0	669.3 679.1 637.7 654.7	(NA) (NA) (NA) 100	(NA) (NA) (NA) 100
1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) 81	(NA) (NA) (NA) (NA) 131	(NA) (NA) (NA) (NA) 91	43.7 43.2 43.9 45.6 44.0	1 247.4 1 122.2 1 051.8 972.5 857.5	30.1 30.5 31.3 32.1 31.1	59.1 60.6 61.4 64.2 61.1	857.0 793.1 752.7 675.6 589.1	3 842.4 3 639.4 3 190.5 2 990.6 2 602.3	6 339.3 5 753.6 5 177.1 4 722.7 4 045.1	10 178.9 9 361.7 8 352.5 7 539.4 6 652.6	665.7 647.6 644.7 470.8 410.3	535.0 548.0 537.5 654.3 444.6	(NA) (NA) (NA) (NA) 100	(NA) (NA) (NA) (NA) 100
							IND	USTRY 20	83, MALT						
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	16 (NA) (NA) (NA) (NA)	26 (NA) (NA) (NA) (NA)	18 (NA) (NA) (NA) (NA)	1.3 1.4 1.4 1.5 1.4	44.4 46.0 45.2 46.0 42.8	.9 1.0 1.0 1.1 1.1	1.8 2.0 2.1 2.3 2.1	30.5 33.0 33.7 33.8 30.2	175.9 179.7 170.8 254.5 178.0	387.3 435.9 494.9 565.6 456.1	575.8 610.3 700.4 798.1 613.1	27.1 18.5 17.4 15.4 28.7	161.4 165.3 165.2 204.1 167.4	(D) (NA) (NA) (NA) (NA)	(D) (NA) (NA) (NA) (NA)
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	15 (NA) (NA) (NA) (NA)	27 (NA) (NA) (NA) (NA)	19 (NA) (NA) (NA) (NA)	1.4 1.5 1.6 1.6 1.6	44.2 41.0 43.7 45.0 42.9	1.1 1.1 1.2 1.2 1.2	2.2 2.2 2.3 2.4 2.5	32.1 29.6 32.0 32.9 31.2	153.6 162.5 161.8 162.2 135.7	368.0 368.1 393.4 435.3 414.5	530.9 538.6 571.3 586.7 587.1	13.8 13.5 29.1 20.6 54.8	137.7 137.3 147.5 168.8 129.5	(D) (NA) (NA) (NA) (NA)	(D) (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	24 (NA) (NA) (NA) (NA) 27	36 (NA) (NA) (NA) (NA) 40	25 (NA) (NA) (NA) (NA) 27	1.7 1.6 1.6 1.5 1.7 1.6	42.9 43.9 39.8 37.7 29.8 27.4	1.3 1.2 1.1 1.2 1.2 1.2	2.7 2.5 2.6 2.2 2.4 2.5	31.9 28.4 25.8 23.2 20.8 20.0	166.2 192.2 162.2 135.4 103.3 101.4	480.0 542.6 529.2 429.2 339.9 377.7	661.5 742.5 679.9 538.3 445.2 499.3	29.5 27.5 38.2 56.8 44.8 39.6	167.8 165.8 202.5 162.8 125.2 134.2	100 (NA) (NA) (NA) (NA) 100	(D) (NA) (NA) (NA) (NA) 100
					INI			IES, BRAN	DY, AND BR	ANDY SPIRI	тѕ				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	514 (NA) (NA) (NA) (NA)	553 (NA) (NA) (NA) (NA)	136 (NA) (NA) (NA) (NA)	14.0 13.9 14.4 13.9 14.3	425.9 378.3 400.8 385.1 372.9	6.5 6.8 7.1 7.1 7.4	12.6 12.7 13.1 13.1 13.5	159.8 154.1 156.6 156.8 157.8	2 088.7 1 797.6 1 810.1 1 772.1 1 710.0	2 394.0 1 884.5 1 872.5 1 909.6 2 032.8	4 301.0 3 585.8 3 657.8 3 539.2 3 528.4	114.7 96.9 108.2 123.4 104.3	2 019.6 1 757.7 1 602.1 1 539.5 1 385.6	(D) (NA) (NA) (NA) (NA)	99 (NA) (NA) (NA) (NA)
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census	469 (NA) (NA) (NA) (NA) 324	508 (NA) (NA) (NA) (NA) 366	108 (NA) (NA) (NA) (NA) 103	13.9 13.1 13.2 12.2 11.8 11.8	342.0 318.1 296.6 274.2 257.3 245.8	7.4 7.0 7.1 7.0 6.7 6.8	13.5 13.2 13.5 13.2 12.6 12.8	156.5 146.0 138.8 134.7 131.5 125.4	1 380.0 1 234.1 1 063.1 1 080.7 1 058.2 996.7	1 831.2 1 896.4 1 674.1 1 627.6 1 711.1 1 762.9	3 208.2 3 162.6 2 763.4 2 694.8 2 836.6 2 785.7	99.9 112.1 112.1 93.4 97.7 136.8	1 147.1 1 098.8 1 059.3 1 037.6 1 050.0 1 113.9	99 (NA) (NA) (NA) (NA) 98	98 (NA) (NA) (NA) (NA) 98
1981 ASM 1980 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) 233	(NA) (NA) (NA) (NA) 269	(NA) (NA) (NA) (NA) (NA) 76	11.3 11.2 12.0 10.0 9.2	205.8 191.1 177.5 154.7 134.1	6.7 6.7 7.7 5.9 5.4	12.3 12.3 14.9 11.2 10.5	108.5 100.4 99.0 80.7 69.6	888.0 811.3 764.6 557.5 510.4	1 546.7 1 459.4 1 281.7 1 064.3 893.8	2 407.5 2 188.6 1 954.4 1 559.2 1 362.5	83.2 58.9 77.7 74.2 51.1	866.4 852.8 769.0 643.8 559.5	(NA) (NA) (NA) (NA) 98	(NA) (NA) (NA) (NA) 97
						NDUSTR	Y 2085, D	ISTILLED	AND BLEND	ED LIQUORS	6				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census 1986 ASM 1983 ASM	43 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	65 (NA) (NA) (NA) (NA) 72 (NA) (NA) (NA) (NA)	48 (NA) (NA) (NA) (NA) 57 (NA) (NA) (NA) (NA)	7.1 7.4 7.5 8.3 9.0 9.9 10.5 11.3 11.3	243.9 236.7 235.4 225.8 237.1 244.0 261.4 267.6 268.1 268.1	5.1 5.2 5.3 5.9 6.3 6.8 7.4 7.8 8.2	10.5 10.6 11.0 10.8 11.5 12.5 13.8 15.1 16.0 16.9	158.0 150.8 151.6 148.4 155.8 162.9 173.0 181.6 184.9 184.3	1 945.6 2 147.4 1 888.3 2 163.9 2 038.8 2 067.7 1 845.3 1 690.9 1 685.2 1 534.7	1 446.9 1 545.2 1 587.0 1 423.9 1 413.1 1 520.1 1 730.2 1 846.1 1 744.9 1 839.3	3 394.1 3 656.0 3 473.5 3 601.9 3 468.7 3 474.3 3 504.3 3 494.8 3 404.9 3 396.7	56.3 59.1 36.4 37.6 33.4 44.6 41.4 37.3 48.1 87.2	1 177.0 1 276.1 1 307.1 1 237.1 1 263.6 1 252.4 1 325.7 1 301.1 1 170.9 1 208.2	99 (NA) (NA) (NA) (NA) 99 (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA) 95 (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	71 (NA) (NA) (NA) (NA) 64	104 (NA) (NA) (NA) (NA) 104	75 (NA) (NA) (NA) (NA) 77	12.2 13.7 14.3 15.4 15.7 15.7	263.8 264.3 252.5 260.4 247.2 232.1	8.9 10.3 11.1 12.0 12.3 12.0	18.0 20.9 22.0 23.6 24.0 23.8	182.7 184.5 181.1 190.7 183.0 168.1	1 460.1 1 764.5 1 849.0 1 585.0 1 324.6 1 149.7	1 700.5 1 860.2 1 562.2 1 435.6 1 367.0 1 163.0	3 126.1 3 605.0 3 389.3 2 995.5 2 683.5 2 296.1	90.0 54.3 53.8 47.3 33.8 36.3	1 266.6 1 125.7 1 091.9 1 172.1 1 119.9 1 027.9	97 (NA) (NA) (NA) (NA) 98	96 (NA) (NA) (NA) (NA) 98
					IN	IDUSTRY	2086, BO	TTLED AN	ID CANNED	SOFT DRINK	s				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	637 (NA) (NA) (NA) (NA) 846	926 (NA) (NA) (NA) (NA) 1 190	572 (NA) (NA) (NA) (NA) 786	77.1 81.7 82.4 87.3 94.6 95.6	2 162.8 2 210.3 2 132.0 2 190.5 2 361.8 2 277.4	30.5 31.9 32.0 33.4 35.2 35.4	65.0 66.8 65.7 67.7 71.8 71.5	774.3 791.7 754.1 743.5 773.8 747.2	9 586.4 9 554.8 9 075.1 8 898.4 9 122.4 8 405.0	15 853.4 15 644.3 14 772.2 14 146.0 14 250.9 13 456.8	25 416.9 25 191.1 23 847.5 23 002.1 23 310.2 21 830.4	698.5 548.5 460.0 507.8 567.7 568.2	1 242.3 1 113.0 1 069.4 1 107.3 1 081.3 1 000.2	97 (NA) (NA) (NA) (NA) 98	96 (NA) (NA) (NA) (NA) 96
1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census	(NA) (NA) (NA) (NA) (NA) 1 236	(NA) (NA) (NA) (NA) (NA) 1 626	(NA) (NA) (NA) (NA) (NA) 1 094	102.0 105.8 110.4 112.3 113.8	2 348.1 2 344.8 2 282.8 2 244.8 2 146.4	35.5 37.2 39.8 41.5 42.4	73.5 77.8 81.7 85.1 85.2	718.0 707.9 694.9 701.5 668.3	8 215.4 7 587.2 7 141.8 7 086.1 6 856.1	12 483.1 11 830.7 10 941.1 10 248.5 9 981.3	20 686.8 19 358.2 18 052.0 17 320.8 16 807.5	560.7 720.8 694.1 680.5 649.5	997.7 1 032.7 915.5 885.0 887.9	(NA) (NA) (NA) (NA) 98	(NA) (NA) (NA) (NA) 96
1981 ASM 1980 ASM 1979 ASM	(NA) (NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)	113.8 117.3 117.5 119.0	2 146.4 1 972.2 1 849.8 1 751.0	42.4 42.6 43.7 45.2	85.2 86.4 89.5 91.6	608.3 602.3 566.2 544.5	6 856.1 6 074.6 5 348.2 5 016.1	9 981.3 9 255.6 8 599.9 7 563.5	16 807.5 15 285.7 13 908.8 12 544.0	649.5 597.3 651.9 565.2	887.9 771.8 703.7 676.4	98 (NA) (NA) (NA)	(NA) (NA) (NA)

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

BEVERAGES 20H-7

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 1 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

-			<u> </u>												
		All establi	ishments ³	All em	ployees	Pro	duction wor	rkers						Rat	tios
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
					INDU	STRY 20	86, BOTT	LED AND	CANNED SO	FT DRINKS-	-Con.				
1978 ASM 1977 Census	(NA) 1 757	(NA) 2 192	(NA) 1 286	115.1 114.1	1 592.7 1 448.8	44.3 43.4	88.8 89.3	486.1 444.8	4 627.0 4 084.5	6 822.0 5 958.6	11 417.0 10 007.2	490.5 423.6	635.3 551.7	(NA) 98	(NA) 97
					INDU	STRY 20	87, FLAV	ORING EX	TRACTS AN	D SYRUPS, I	N.E.C.				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	264 (NA) (NA) (NA) (NA)	300 (NA) (NA) (NA) (NA)	123 (NA) (NA) (NA) (NA)	10.3 8.1 8.2 8.0	341.1 274.7 260.7 244.4 220.6	5.8 4.6 4.5 4.6 4.5	12.2 9.9 9.7 9.5 9.7	157.6 130.6 123.1 114.6 111.3	5 269.7 4 123.0 3 896.9 3 543.3 3 509.4	1 651.9 1 514.4 1 472.5 1 323.8 1 422.2	6 911.4 5 642.0 5 332.5 4 870.8 4 930.8	75.6 72.9 49.9 51.3 50.9	497.5 362.0 385.4 322.2 396.9	92 (NA) (NA) (NA) (NA)	92 (NA) (NA) (NA) (NA)
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	245 (NA) (NA) (NA) (NA)	280 (NA) (NA) (NA) (NA)	99 (NA) (NA) (NA) (NA)	9.1 11.3 12.0 11.4 11.7	257.6 325.2 314.0 276.6 244.2	4.9 6.7 7.3 6.7 6.7	10.0 14.8 15.8 13.8 13.2	111.6 160.6 153.9 137.0 113.5	3 293.7 3 310.2 3 108.4 2 824.9 2 698.1	1 379.4 1 741.9 1 750.4 1 772.7 1 605.7	4 664.8 5 016.7 4 840.3 4 573.9 4 289.1	53.0 60.2 66.3 77.3 39.8	405.3 543.9 433.9 389.4 377.8	96 (NA) (NA) (NA) (NA)	89 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	297 (NA) (NA) (NA) (NA) 317	343 (NA) (NA) (NA) (NA) 368	131 (NA) (NA) (NA) (NA) 132	11.6 10.9 11.0 10.1 11.6 10.5	237.3 206.1 191.1 158.1 174.0 149.1	6.5 6.6 6.8 6.3 6.9 6.3	13.3 13.7 14.7 13.5 14.8 12.9	109.1 104.7 93.3 86.0 91.4 77.1	2 669.8 2 093.6 1 898.2 1 661.2 1 730.1 1 452.6	1 569.3 1 760.7 1 604.4 1 302.0 1 218.4 1 069.0	4 236.8 3 855.3 3 512.9 2 957.9 2 932.5 2 511.3	57.1 78.5 64.1 41.4 51.2 33.1	338.5 349.2 354.1 287.4 265.2 222.1	93 (NA) (NA) (NA) (NA) 92	88 (NA) (NA) (NA) (NA) 86

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

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

chapter. ²For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ³Includes establishments with payroll at any time during the year. ⁴Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years when respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior-year data. ⁵Cost of materials is the sum of five components: the cost of (1) parts used in the manufacture (3) fuels; (4) electricity; and (5) commissions or fees to outside parties for contract manufacturing. A separate cost for each of the five components is shown in table 3a. Detailed data on materials consumed by type, are shown in table 7. ⁶Detailed data on new machinery and equipment expenditures are provided in table 3a. ⁷Represents ratio of primary products shippends to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in the industry. ⁹Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

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

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

	les: 1 of meaning (
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTRY	(2082, MALT B	EVERAGES			
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	45 412 44 623 43 715 42 644 40 636	73 73 72 73 73 72	1 829 1 834 1 885 1 880 1 841	22.89 22.30 21.34 21.26 21.20	41 43 46 46 46	50 52 55 55 56	295 342 278 911 251 313 243 228 229 963	15 16 17 18 18	221.99 209.67 184.94 177.70 174.49
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	42 489 36 915 33 692 33 856 32 005	71 73 67 71 70	1 969 2 036 1 948 1 891 1 933	20.76 17.64 18.10 17.99 16.19	46 51 53 55 55	56 61 65 66 66	228 364 181 897 140 975 139 013 130 826	19 20 24 24 24 24	162.97 122.47 108.01 104.13 96.64
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	30 416 28 545 25 977 23 959 21 327 19 489	69 69 71 71 70 71	1 949 1 963 1 987 1 962 2 000 1 965	15.37 14.50 13.09 12.26 10.52 9.64	60 62 61 62 63 63	71 75 73 75 76 74	105 460 87 927 84 245 72 677 65 583 59 143	29 32 31 33 33 33	78.87 65.02 60.06 51.96 46.58 42.59
				INC	OUSTRY 2083, N	IALT			
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	34 154 32 857 32 286 30 667 30 571 31 571	69 71 71 73 71 79	2 000 2 000 2 100 2 091 2 100 2 000	16.94 16.50 16.05 14.70 14.38 14.59	67 71 71 71 74 69	75 79 77 77 81 78	135 308 128 357 122 000 169 667 127 143 109 714	25 26 26 18 24 29	97.72 89.85 81.33 110.65 84.76 69.82
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	27 333 27 313 28 125 26 813	79 73 75 75 75 75	2 000 2 000 1 917 2 000 2 083	14.59 13.45 13.91 13.71 12.48	69 68 69 74 71	78 76 77 82 78	109 714 108 333 101 125 101 375 84 813	29 25 27 28 32	69.62 73.86 70.35 67.58 54.28
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	25 235 27 438 24 875 25 133 17 529 17 125	76 75 75 73 71 75	2 077 2 083 2 167 2 000 2 000 2 083	11.81 11.36 9.92 10.55 8.67 8.00	73 73 78 80 76 76	79 79 84 87 83 81	97 765 120 125 101 375 90 267 60 765 63 375	26 23 25 28 29 27	61.56 76.88 62.38 61.55 43.04 40.56

20H-8 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 2 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

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

MANUFACTURES-INDUSTRY SERIES

 TIPS [UPF]
 BATCH_1221
 [CASMR,V_HARLEY]
 MCD-SRB
 4/11/95
 11:36
 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 3

 TSF:20H_92.DAT;4
 4/11/95
 11:34:25
 META:TIPS96-11340739.DAT;1
 4/11/95
 11:36:38

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

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

	witt	100 emp	loyees or	more are sl	hown. For n	neaning of	abbreviation 199		nbols, see intro	ductory text.	or explanation	n of terms, s		1987
		All establ	ishmonts	All em	ployees	Pro	duction wo							1967
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2082, MALT BEVERAGES														
United States California Colorado Florida Georgia Indiana	– – – E9	194 35 13 4 2 4	75 11 4 2 1	34.5 H G F C	1 566.7 (D) (D) (D) (D) (D)	25.1 (D) (D) (D) (D)	45.9 (D) (D) (D) (D) (D)	1 050.7 (D) (D) (D) (D) (D)	10 189.3 (D) (D) (D) (D) (D) (D)	7 179.8 (D) (D) (D) (D) (D)	17 340.2 (D) (D) (D) (D) (D) (D)	565.0 44.9 (D) (D) (D) (D)	31.9 H G G E	7 284.8 (D) (D) (D) (D) (D)
Maryland Minnesota Missouri New Hampshire New Jersey	- - - - E1	1 5 4 2 4 9	1 3 1 1 2 4	E E F G 2.7	(D) (D) (D) (D) (D) 122.2	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) 664.2	(D) (D) (D) (D) (D) 583.5	(D) (D) (D) (D) (D) 1 246.5	(D) (D) (D) (D) 34.4	E F H F G	(D) (D) (D) (D) (D) 713.3
New York North Carolina Ohio Oregon Pennsylvania Tennessee	E1 - E2 -	3 6 11 15 2	2 3 4 8 1	G .4 1.3 E	(D) (D) 10.0 42.6 (D)	1.9 (D) (D) .2 1.0 (D)	3.5 (D) (D) .4 1.6 (D)	76.7 (D) (D) 6.5 30.0	(D) (D) 52.4 119.6 (D)	(D) (D) 51.1 194.6 (D)	(D) (D) 102.8 313.5 (D)	(D) (D) 4.9 7.4 (D)	2.9 G C 1.6	(D) (D) (D) 149.9
Texas	– – E1	8 5 14 11	5 2 5 7	2.8 G F 2.8	142.8 (D) (D) 115.8	2.1 (D) (D) 2.3	4.3 (D) (D) 4.4	102.8 (D) (D) 92.0	1 097.5 (D) (D) 562.8	889.0 (D) (D) 513.9	1 987.3 (D) (D) 1 076.0	34.4 (D) 6.0 18.7	H F 2.8	(D) (D) (D) 495.3
INDUSTRY 2083, MALT United States		26	18	1.3	44.4	.9	1.8	30.5	175.9	387.3	575.8	27.1	1.4	153.6
Minnesota Washington Wisconsin		8 1 7	5 1 7	.3 C .5	11.0 (D) 19.6	.9 (D) .4	.5 (D) .7	7.5 (D) 13.2	49.9 (D) 74.6	102.2 (D) 160.9	160.5 (D) 240.0	12.9 (D) 7.6	.4 C .6	41.8 (D) 66.9
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS														
United States California Missouri New York Oregon Washington	– E9 E4	553 329 14 31 32 28	136 112 2 6 1 5	14.0 11.8 C .8 C .3	425.9 377.4 (D) 20.0 (D) 8.0	6.5 5.3 (D) .5 (D) .1	12.6 10.4 (D) 1.1 (D) .2	159.8 137.5 (D) 11.3 (D) 1.9	2 088.7 1 838.0 (D) 106.0 (D) 63.9	2 394.0 1 980.9 (D) 286.9 (D) 38.2	4 301.0 3 664.3 (D) 381.9 (D) 89.8	114.7 103.4 (D) 3.3 (D) 3.9	13.9 10.9 (NA) G (NA) C	1 380.0 1 142.6 (NA) (D) (NA) (D)
INDUSTRY 2085, DISTILLED AND BLENDED LIQUORS														
United States Arkansas California Connecticut Illinois Indiana Kentucky Maryland Massachusetts Michigan Missouri	- - E1 - - -	65 1 5 1 2 2 18 5 1 1 3	48 1 3 1 2 2 1 5 3 1 1 3 3	7.1 C E C C F 2.7 .6 C E C	243.9 (D) (D) (D) (D) (D) 83.8 24.6 (D) (D) (D)	5.1 (D) (D) (D) (D) (D) 2.0 .4 (D) (D) (D)	10.5 (D) (D) (D) (D) (D) 3.9 .9 (D) (D) (D)	158.0 (D) (D) (D) (D) 53.0 15.3 (D) (D) (D)	1 945.6 (D) (D) (D) (D) (D) 646.0 31.5 (D) (D) (D)	1 446.9 (D) (D) (D) (D) (D) 532.5 76.5 (D) (D) (D)	3 394.1 (D) (D) (D) (D) (D) 1 169.2 111.4 (D) (D)	56.3 (D) (D) (D) (D) (D) 22.7 (D) (D) (D) (D)	9.0 C F (NA) G 2.5 F E (NA)	2 067.7 (D) (D) (D) (NA) (D) 590.8 (D) (D) (D) (NA)
New Jersey Ohio		4 2 1 3	3 2 1 3	СЕСЕ	(D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D)	.4 F E F	87.3 (D) (D) (D)
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS														
United States Alabama Arkansas California Colorado Connecticut Plaware Florida Georgia Hawaii		926 11 19 11 97 19 12 1 47 21 7	572 9 13 9 55 10 4 1 28 16 4	77.1 G 1.3 F 6.8 G .4 C 5.1 1.7 .5	2 162.8 (D) 35.3 (D) 208.0 (D) 13.0 (D) 145.2 49.8 13.6	30.5 (D) .4 (D) 3.5 (D) .2 (D) 1.7 .6 .2 .2	65.0 (D) .9 (D) 7.6 (D) .4 (D) 3.6 1.4 .4	774.3 (D) 9.0 (D) 97.8 (D) 5.6 (D) 44.5 16.7 4.8	9 586.4 (D) 178.5 (D) 1 202.8 (D) 30.5 (D) 701.5 279.6 41.7	15 853.4 (D) 248.6 (D) 1 680.4 (D) 57.4 (D) 965.9 472.6 92.1	25 416.9 (D) 425.3 (D) 2 878.6 (D) 88.0 (D) 1 674.8 735.8 134.2	698.5 (D) 8.5 5.8 103.4 6.1 (D) (D) (D) (D) (D) (D)	95.6 G G 7.7 G F C 5.5 2.0 S	8 405.0 (D) (D) 865.3 (D) (D) (D) (D) 471.4 189.4 40.3

See footnotes at end of table.

20H-10 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 4 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

							1992	2						1987
		All establ	ishments	All em	oloyees	Pro	duction wor	kers						
Industry and geographic area	E ¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS-Con.														
Illinois Indiana Iowa Kansas Kentucky	=	32 24 12 10 21	21 16 12 7 13	3.2 1.9 1.2 F 1.4	100.8 55.7 34.3 (D) 35.1	1.4 .8 .4 (D) .4	3.3 1.7 .7 (D) .7	37.3 20.1 9.1 (D) 6.5	510.1 369.9 146.7 (D) 56.0	721.8 514.2 189.8 (D) 163.6	1 235.5 885.2 335.4 (D) 226.6	40.3 21.9 12.2 5.9 13.8	2.9 3.3 G G G	295.9 267.7 (D) (D) (D)
Louisiana Maine Maryland Massachusetts Michigan	E1	15 5 17 25 26	12 4 12 13 12	2.2 .3 2.0 1.3 1.9	53.5 8.9 53.4 46.6 51.8	.7 .1 .6 .8 1.2	1.5 .3 1.3 1.6 2.4	12.1 3.1 13.7 23.2 31.4	175.8 39.6 205.7 148.5 421.5	269.7 56.7 375.7 382.2 592.4	447.6 95.0 581.8 533.5 1 013.9	21.9 3.1 16.4 8.9 16.5	2.4 E 1.9 G 2.6	132.1 (D) 258.7 (D) 216.8
Minnesota Mississippi Missouri Montana Nebraska	E1 -	19 13 22 9 5	8 10 14 5 4	1.3 G 1.8 .3 .5	37.7 (D) 55.4 6.4 10.0	.7 (D) .6 .1 .2	1.3 (D) 1.2 .2 .3	15.7 (D) 15.8 1.7 3.1	162.9 (D) 243.9 11.7 47.8	311.3 (D) 336.9 34.8 91.0	472.9 (D) 578.8 46.2 138.8	(D) (D) 2.0 1.2	1.7 G H C F	399.6 (D) (D) (D) (D)
New Jersey New Mexico New York North Carolina North Dakota	-	27 5 56 32 4	14 2 26 22 3	2.3 C 4.2 G C	80.6 (D) 132.7 (D) (D)	1.2 (D) 1.9 (D) (D)	2.3 (D) 4.4 (D) (D)	36.6 (D) 64.8 (D) (D)	462.9 (D) 495.1 (D) (D)	521.1 (D) 991.8 (D) (D)	975.1 (D) 1 489.1 (D) (D)	15.4 (D) 33.8 13.4 (D)	1.7 E 5.0 H C	410.1 (D) 517.1 (D) (D)
Ohio Oklahoma Oregon Pennsylvania Rhode Island	=	31 20 14 45 6	22 8 10 25 3	3.5 G .9 3.5 E	95.6 (D) 25.7 101.4 (D)	1.2 (D) .3 1.5 (D)	2.6 (D) .6 3.2 (D)	31.1 (D) 7.2 35.1 (D)	182.6 (D) 62.9 413.9 (D)	626.3 (D) 202.5 601.0 (D)	813.0 (D) 265.0 1 011.5 (D)	30.1 (D) 6.2 46.0 (D)	5.7 G .8 4.1 C	369.3 (D) 35.8 287.7 (D)
South Carolina Tennessee Texas Utah Virginia	E1	14 19 58 7 23	12 14 40 6 19	G 2.8 7.1 F G	(D) 72.4 188.0 (D) (D)	(D) 1.1 2.3 (D) (D)	(D) 2.5 5.0 (D) (D)	(D) 24.2 55.5 (D) (D)	(D) 355.4 782.5 (D) (D)	(D) 461.6 1 353.1 (D) (D)	(D) 813.4 2 128.8 (D) (D)	(D) (D) 41.7 5.6 13.4	G H 8.6 F G	(D) (D) 721.4 (D) (D)
Washington West Virginia Wisconsin Wyoming	=	16 4 24 2	11 2 11 2	1.3 C 1.0 C	40.9 (D) 28.7 (D)	.7 (D) .6 (D)	1.3 (D) 1.3 (D)	18.7 (D) 17.2 (D)	215.4 (D) 205.2 (D)	364.7 (D) 396.4 (D)	579.9 (D) 602.1 (D)	31.0 (D) (D) (D)	1.3 .7 1.7 C	249.8 32.3 217.0 (D)
INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C.														
United States	-	300	123	10.3	341.1	5.8	12.2	157.6	5 269.7	1 651.9	6 911.4	75.6	9.1	3 293.7
California Florida Georgia Illinois Indiana	E4 -	47 15 6 28 4	19 6 3 18 3	1.3 E 1.9 F	44.2 (D) (D) 58.1 (D)	.8 (D) (D) 1.2 (D)	1.9 (D) (D) 2.1 (D)	22.8 (D) (D) 27.9 (D)	455.5 (D) (D) 789.7 (D)	233.6 (D) (D) 329.8 (D)	671.5 (D) (D) 1 114.6 (D)	7.5 (D) (D) 15.8 (D)	1.3 E G E	426.5 (D) (D) (D) (D)
Louisiana Maryland Massachusetts Missouri New Jersey	E2	4 8 5 16 27	1 5 2 6 11	C E C E F	(D) (D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D)	(D) 2.0 (D) (D) (D)	(NA) E E F	(NA) (D) (D) (D) (D)
New York Ohio Pennsylvania Texas Washington Wisconsin	E3 -	20 20 13 16 3 13	3 8 7 6 3 2	E 1.1 .4 F C .1	(D) 39.8 17.7 (D) (D) 4.4	(D) .5 .2 (D) (D) .1	(D) 1.3 .5 (D) (D) .2	(D) 17.5 7.6 (D) (D) 2.0	(D) 636.7 54.9 (D) (D) 29.6	(D) 156.1 64.9 (D) (D) 22.2	(D) 791.8 120.1 (D) (D) 51.2	(D) (D) 5.6 5.2 (D) (D)	E E (NA) (NA)	(D) (D) (D) (NA) (NA)

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

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

¹Payroll and sales data for some small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown. E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees 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; L-50,000 to 99,999 employees; M-100,000 employees or more.

MANUFACTURES—INDUSTRY SERIES

 TIPS [UPF]
 BATCH_1221
 [CASMR,V_HARLEY]
 MCD-SRB
 4/11/95
 11:36 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 5

 TSF:20H_92.DAT;4
 4/11/95
 11:34:25
 META:TIPS96-11340739.DAT;1
 4/11/95
 11:36:38

Table 3a. Summary Statistics for the Industry: 1992

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

Item	Malt beverages (SIC 2082)	Malt (SIC 2083)	Wines, brandy, and brandy spirits (SIC 2084)	Distilled and blended liquors (SIC 2085)	Bottled and canned soft drinks (SIC 2086)	Flavoring extracts and syrups, n.e.c. (SIC 2087)
Companiesnumber	160	16	514	43	637	264
All establishments	194 119 31 44	26 8 14 4	553 417 109 27	65 17 25 23	926 354 314 258	300 177 97 26
Employment and labor costs:1,000 Employees	34.5 2 059.0 1 566.7 492.3 164.8 327.5	1.3 58.3 44.4 13.9 5.7 8.2	14.0 544.8 425.9 118.8 45.7 73.1	7.1 306.5 243.9 62.6 24.5 38.1	77.1 2 757.0 2 162.8 594.3 270.0 324.3	10.3 424.9 341.1 83.8 36.6 47.2
Production workers: 1,000	25.1 25.0 25.4 25.3 24.7	.9 .9 .9 .9	6.5 6.0 6.1 7.4 6.4	5.1 5.0 5.2 5.3	30.5 30.1 31.2 31.4 29.4	5.8 5.9 6.0 5.8 5.6
Hours millions	45.9	1.8	12.6	10.5	65.0	12.2
Wagesmil dol	1 050.7	30.5	159.8	158.0	774.3	157.6
Cost of materials1mil dolmil dol	7 179.8 6 864.3 13.1 95.4 124.9 82.1	387.3 345.5 3.3 20.0 16.6 2.0	2 394.0 2 207.3 137.9 10.0 32.8 6.0	1 446.9 1 196.1 223.2 12.4 11.1 4.1	15 853.4 14 351.9 1 235.5 49.2 121.2 95.6	1 651.9 1 543.3 70.6 11.2 18.5 8.4
Quantity of electric energy used for heat and power: Purchased mil kWh Generated less sold mil kWh	2 356.5 567.2	419.3 (D)	385.4 (D)	207.2	1 828.8 20.4	274.3
Total value of shipmentsmil dol	17 340.2	575.8	4 301.0	3 394.1	25 416.9	6 911.4
Value addedmil dol	10 189.3	175.9	2 088.7	1 945.6	9 586.4	5 269.7
Inventories by stage of fabrication: Beginning of 1992mil dol Finished goodsmil dol Work in processmil dol Materials and suppliesmil dol	591.4 40.2 184.6 366.6	166.7 63.3 7.3 96.1	1 827.8 533.9 1 104.3 189.6	1 193.2 793.5 321.0 78.8	1 178.3 617.5 30.6 530.3	462.6 218.6 41.5 202.5
End of 1992mil dolmil dol	609.0 77.2 176.6 355.2	161.4 50.9 7.0 103.4	2 019.6 577.4 1 242.5 199.7	1 177.0 765.6 319.3 92.1	1 242.3 651.4 19.5 571.4	497.5 212.7 57.7 227.1

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

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

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

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

ltem	Malt beverages (SIC 2082)	Malt (SIC 2083)	Wines, brandy, and brandy spirits (SIC 2084)	Distilled and blended liquors (SIC 2085)	Bottled and canned soft drinks (SIC 2086)	Flavoring extracts and syrups, n.e.c. (SIC 2087)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures ¹ Used capital expenditures Retirements End of year	10 744.7 565.0 11.7 58.3 11 263.1	535.9 27.1 (D) (D) 560.6	1 879.3 114.7 3.9 28.9 1 969.0	903.7 56.3 (D) 950.1	6 930.3 698.5 33.2 204.3 7 457.6	1 048.5 75.6 (D) 1 110.4
Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment:	2 486.7 109.7 3.0 3.3 2 596.1	125.5 (D) (D) (D) 130.5	484.2 23.9 1.4 15.7 493.8	292.0 11.6 (D) (D) 303.4	1 685.0 101.7 13.1 21.9 1 777.9	297.8 18.3 (D) (D) 319.2
Beginning of year New capital expenditures ¹ Used capital expenditures Retirements End of year	8 257.9 455.3 8.7 55.0 8 667.0	410.4 (D) (D) (D) 430.2	1 395.0 90.8 2.5 13.2 1 475.2	611.7 44.8 (D) (D) 646.7	5 245.2 596.8 20.1 182.4 5 679.7	750.7 57.2 (D) 791.2
Depreciation charges during 1992: Total- Buildings and other structures Machinery and equipment	524.5 86.8 437.8	28.7 4.3 24.4	134.9 24.0 110.9	55.0 11.4 43.6	551.6 79.7 471.9	77.3 13.4 63.9
Rental payments: Total Buildings and other structures Machinery and equipment	19.8 8.3 11.5	.7 .3 .3	30.9 15.9 15.0	11.6 8.7 2.9	134.8 70.1 64.6	23.0 13.2 9.8

 $^{1}\mbox{Data}$ on new machinery and equipment expenditures by type are provided in table 3c.

20H-12 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 6 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

		x63]	1			
	Malt be (SIC :		Ma (SIC 2		Wines, brandy, a (SIC	and brandy spirits 2084)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of- Buildings and other structures	14.8 94.8 35.0 94.8 (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	XX XX XX XX XX XX XX XX XX XX XX XX XX	000000000000000000000000000000000000000	XX XX XX XX XX XX XX XX XX XX XX XX XX	3.5 84.5 19.9 85.4 6.4 76.7 5.2 80.0 4.3 80.0 4.3 85.4 17.5 85.3 2.6 85.4 2.0	XXXX XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Response coverage ratio (percent) ² New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment All other Adjustment ratio ³	(D) 455.3 (D) (D) 438.8 1.4	(X) (X) (X) (X) (X)	(D) (D) (D) (D) (D)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	85.4 90.8 1.9 6.2 82.8 1.3	(X) (X) 28 12 1 (X)
Cost of materials, components, parts, etc., used Materials purchased or transferred from foreign sources ⁴ Materials purchased or transferred from domestic sources Adjustment ratio ³	6 864.3 (D) (D) (D)	(X) (X) (X) (X)	345.5 (D) (D) (D)	(X) (X) (X) (X)	2 207.3 76.0 2 131.3 1.4	(X) 4 1 (X)
	Distilled and b (SIC	lended liquors 2085)	Bottled and car (SIC 2	ined soft drinks 2086)	Flavoring extracts (SIC	s and syrups, n.e.c. 2087)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of- Buildings and other structures	1.1 77.5 1.9 74.4 .3 74.4	XX XX XX XX XX XX XX XX XX XX XX XX XX	27.5 78.6 102.6 79.1 20.1 75.6 13.4 78.1 9.7 76.6	XX XX XX XX XX XX XX XX XX XX XX XX XX	8.9 79.3 11.2 79.3 2.7 76.7 3.0 79.0 3.7 77.9	XXXX XXXX XXXXX XXXXXXXXXXXXXXXXXXXXXX
Advertising	12.0	(X)	158.2	(X)	3.9 79.0	(X) (X)
Advertising Response coverage ratio (percent) ² Software and other data processing Response coverage ratio (percent) ² Refuse removal, including hazardous waste Response coverage ratio (percent) ²	74.4 .8 74.4 .4 71.2	(X) (X) (X) (X) (X)	77.7 7.5 76.2 14.6 78.3	XX XX XX XX XX	1.2 79.1 1.7 78.8	(X) (X) (X) (X)
Response coverage ratio (percent) ²	.8 74.4 .4	(X) (X) (X) (X) (X) 6 2 1 (X)	7.5 76.2 14.6	(X) (X) (X) (X) (X) (X) (X) (5) (X) (X) (X) (X) (X) (X) (X) (X) (X) (X	1.2 79.1 1.7	XXXX XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes. ²A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in the industry. ³Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response of the inquiry. (See appendixes for further explanation.) ⁴Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

MANUFACTURES-INDUSTRY SERIES

 TIPS [UPF]
 BATCH_1221
 [CASMR,V_HARLEY]
 MCD-SRB
 4/11/95
 11:36 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 7

 TSF:20H_92.DAT;4
 4/11/95
 11:34:25
 META:TIPS96-11340739.DAT;1
 4/11/95
 11:36:38

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

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

[For meaning of abbreviations and symbols, see in		All		ployees		oduction wor	kers	Value			New	End-of-
Industry and employment size class	E ¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2082, MALT BEVERAGES												
Total	- -	194	34.5	1 566.7	25.1	45.9	1 050.7	10 189.3	7 179.8	17 340.2	565.0	609.0
Establishments with an average of – 1 to 4 employees 5 to 9 employees	- E9 E8	68 28	.1	3.6 5.4	.1 .1	.2 .2	2.4 3.5	16.6 27.2	15.6 29.1	32.2 56.3	1.1 1.7	1.2 2.1
10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees 500 to 999 employees 500 to 299 employees 1,000 to 2,499 employees	E6 E3 E2 	23 23 8 12 9 15 6	.3 .7 .6 1.9 3.3 <u>27.4</u> (D)	7.2 17.0 12.0 67.2 125.8 <u>1 328.5</u> (D) (D)	.2 .4 .3 1.4 2.5 <u>20.1</u> (D)	.4 .8 .6 2.9 4.4 <u>36.4</u> (D)	4.6 9.0 5.7 44.0 90.7 <u>890.8</u> (D)	31.2 55.6 43.7 227.3 693.2 <u>9 094.7</u> (D)	30.8 32.6 39.7 304.5 873.2 <u>5 854.2</u> (D)	61.9 88.0 83.4 529.7 1 564.1 <u>14 924.5</u> (D)	1.8 <u>121.3</u> (D) (D) 39.0 <u>400.0</u> (D)	2.9 6.3 5.7 35.2 69.4 <u>486.2</u> (D)
2,500 employees or more Covered by administrative records ²	-	2 59	(D) .1	(D) 2.8	(D) .1	(D) .1	(D) 1.9	(D) 11.3	(D) 10.8	(D) 22.2	(D) .7	(D) .8
INDUSTRY 2083, MALT												
Total	- -	26	1.3	44.4	.9	1.8	30.5	175.9	387.3	575.8	27.1	161.4
Establishments with an average of – 1 to 4 employees		6 1 10 4 4	(Z) (D) (D) .3 .6	.2 1 <u>3.3</u> (D) 10.1 20.8	(Z) (D) (D) .2	(Z) (D) (D) .4 .7	.2 <u>8.4</u> (D) (D) 7.3 14.6	1.3 <u>54.1</u> (D) (D) 45.0 75.5	1.4 <u>110.6</u> (D) (D) 116.9 158.3	2.8 <u>177.1</u> (D) (D) 165.0 231.0	(Z) 	.8 <u>49.1</u> (D) (D) 46.3 65.1
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS												
Total	- -	553	14.0	425.9	6.5	12.6	159.8	2 088.7	2 394.0	4 301.0	114.7	2 019.6
Establishments with an average of — 1 to 4 employees	- E4 - E2 - E1 - E1 - E1	242 94 81 86 23 19 7 1	.4 .6 1.1 2.6 1.5 2.8 <u>4.9</u> (D)	8.7 14.2 27.1 61.9 45.2 79.7 <u>189.1</u> (D)	.1 .3 .5 1.3 .7 1.7 <u>1.8</u> (D)	.3 .6 1.0 2.6 1.4 3.1 <u>3.6</u> (D)	3.4 5.9 11.0 27.5 16.1 40.8 55.1 (D)	45.5 58.9 101.6 248.1 186.4 453.1 <u>995.1</u> (D)	40.4 47.5 90.6 256.5 237.4 776.2 <u>945.4</u> (D)	82.9 102.0 173.1 483.7 398.0 1 149.5 <u>1 911.9</u> (D)	3.0 3.7 5.8 37.3 15.2 22.0 <u>27.8</u> (D)	36.4 62.0 127.2 350.9 213.3 594.7 <u>635.1</u> (D)
Covered by administrative records ²	- E9	241	.5	8.7	.2	.4	3.4	39.1	37.4	76.5	2.3	26.6
INDUSTRY 2085, DISTILLED AND BLENDED LIQUORS												
Total	- -	65	7.1	243.9	5.1	10.5	158.0	1 945.6	1 446.9	3 394.1	56.3	1 177.0
Establishments with an average of – 1 to 4 employees	- E8 - E6 - E2 	7 6 4 15 10 15 7 1 6	(Z) (Z) .6 .7 2.6 <u>3.1</u> (D) (Z)	.3 1.0 1.7 19.7 25.3 93.7 <u>102.3</u> (D) .3	(Z) (Z) (Z) .4 .5 1.8 <u>2.4</u> (D) (Z)	(Z) .1 .9 .9 3.8 <u>4.7</u> (D) (Z)	.2 .7 1.1 13.4 14.6 56.0 <u>72.2</u> (D)	2.1 6.9 8.1 135.6 138.7 963.4 <u>690.8</u> (D) 1.4	1.7 5.6 7.9 101.0 120.6 728.3 <u>481.8</u> (D) 1.2	3.8 12.5 16.0 233.1 259.5 1 694.6 <u>1 174.7</u> (D) 2.6	(Z) .1 .1 4.0 8.9 20.4 <u>22.7</u> (D) (Z)	1.5 4.2 6.2 85.2 57.9 463.8 <u>558.2</u> (D) 1.0
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS												
Total	- -	926	77.1	2 162.8	30.5	65.0	774.3	9 586.4	15 853.4	25 416.9	698.5	1 242.3
Establishments with an average of — 1 to 4 employees	- E7 - E3 - E1 - E1 - E1 	160 87 107 165 149 183 63 12	.2 .6 1.5 5.6 10.7 28.9 22.1 7.5	5.9 12.8 33.6 146.3 294.4 814.6 652.9 202.3	.1 .2 .7 2.7 5.3 12.3 7.2 2.0	.2 .5 1.4 5.7 11.0 25.9 16.1 4.3	2.2 4.8 14.0 62.2 127.7 316.8 191.4 55.1	21.2 55.8 134.2 883.7 1 877.3 3 899.2 2 116.6 598.3	36.1 81.7 191.9 1 483.1 3 431.3 6 186.4 3 450.0 992.9	57.3 137.4 327.0 2 367.0 5 296.2 10 090.8 5 558.1 1 583.2	1.9 4.3 8.9 72.1 103.6 262.1 190.5 55.1	2.5 7.5 15.6 106.7 245.6 491.4 294.5 78.4
Covered by administrative records ²	_ E9	167	.4	7.4	.1	.3	2.5	23.5	39.8	63.3	1.3	2.7

See footnotes at end of table.

20H-14 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 8 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

			All em	ployees	Pro	duction wor	rkers	Value			New	End-of-
Industry and employment size class	E1	All estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C.												
Total	-	300	10.3	341.1	5.8	12.2	157.6	5 269.7	1 651.9	6 911.4	75.6	497.5
Establishments with an average of – 1 to 4 employees5 5 to 9 employees	E9 E5	85 52	.1 .3	3.5 9.4	.1 .2	.2	1.9 4.9	69.6 141.7	23.6 61.9	93.2 203.7	.8 2.4	4.8 16.0
10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees	E3 E2 E1 -	40 65 32 21 4	.5 2.1 2.2 <u>5.0</u> (D)	17.6 65.0 68.1 <u>177.4</u> (D) (D)	.3 1.1 <u>2.8</u> (D) (D)	.6 2.7 2.7 <u>5.7</u> (D) (D)	7.1 29.2 34.0 <u>80.4</u> (D) (D)	114.8 419.1 563.3 <u>3 961.2</u> (D)	61.6 370.8 277.9 <u>856.1</u> (D) (D)	175.6 785.4 828.4 <u>4 825.0</u> (D)	3.9 17.9 21.0 17.0 <u>12.6</u> (D)	14.9 98.8 123.4 <u>239.5</u> (D) (D)
500 to 999 employees Covered by administrative records ²	- E9	1 49	(D) .1	(D) 1.1	(D) (Z)	(D) .1	(D) .6	(D) 15.5	(D) 4.6	(D) 20.1	(D) .2	(D) 1.1

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

¹Payroll and sales data for some small single-establishment manufacturing companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown. E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Report forms were not mailed to small single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1992 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

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

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

Indus-			All emp	oloyees	Pro	oduction work	ers	Value			New
try or prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2082	Malt beverages: All establishments in industry	194	34.5	1 566.7	25.1	45.9	1 050.7	10 189.3	7 179.8	17 340.2	565.0
20821 20822 20823 20824	Establishments with this product class primary: Canned beer and ale case goods Bottled beer and ale case goods Beer and ale in barrels and kegs All other malt beverages and brewing products	35 29 5 12	30.3 2.2 .2 1.1	1 437.3 71.3 2.5 35.3	22.3 1.5 .1 .8	40.3 2.9 .1 1.7	970.7 43.4 1.0 24.9	9 719.3 263.8 11.6 135.3	6 708.4 229.3 3.0 180.1	16 402.7 490.6 14.6 313.9	437.4 18.6 (D) 5.2
2083	Malt: All establishments in industry	26	1.3	44.4	.9	1.8	30.5	175.9	387.3	575.8	27.1
2084	Wines, brandy, and brandy spirits: All establishments in industry	553	14.0	425.9	6.5	12.6	159.8	2 088.7	2 394.0	4 301.0	114.7
2085	Distilled and blended liquors: All establishments in industry	65	7.1	243.9	5.1	10.5	158.0	1 945.6	1 446.9	3 394.1	56.3
20851 20853	Establishments with this product class primary: Distilled liquor, except brandy Bottled liquor, except brandy	9 40	.4 6.5	16.7 223.2	.3 4.7	.6 9.6	10.7 145.2	104.8 1 825.1	64.7 1 367.9	167.0 3 197.2	3.8 48.3
2086	Bottled and canned soft drinks: All establishments in industry	926	77.1	2 162.8	30.5	65.0	774.3	9 586.4	15 853.4	25 416.9	698.5
20863 20864 20865 20866	Establishments with this product class primary: Bottled carbonated soft drinks Canned carbonated soft drinks Soft drink flavoring syrup sold in bulk Noncarbonated soft drinks	225 202 10 91	27.0 32.4 .8 9.9	756.4 927.6 22.1 282.8	9.3 11.7 .2 6.6	19.2 25.0 .7 14.5	232.1 307.3 5.7 165.4	2 951.9 3 984.2 42.1 1 956.7	4 448.5 8 511.2 102.1 1 782.2	7 401.0 12 461.5 145.2 3 740.2	240.2 285.6 3.3 111.5
2087	Flavoring extracts and syrups, n.e.c.: All establishments in industry	300	10.3	341.1	5.8	12.2	157.6	5 269.7	1 651.9	6 911.4	75.6
20871 20872	Establishments with this product class primary: Flavoring extracts, emulsions, and other liquid flavors_ Liquid beverage bases not for use by soft drink	42	1.8	64.4	.9	1.7	23.5	192.3	199.4	390.0	15.7
20873 20874	bottlers Liquid beverage bases for use by soft drink bottlers Other flavoring agents (except chocolate syrups)	9 35 55	.5 2.2 4.4	19.9 75.1 143.0	.2 1.3 2.7	.6 2.7 5.3	8.4 36.2 70.9	77.1 3 199.6 1 477.3	74.3 488.7 752.7	154.3 3 690.9 2 220.3	2.9 13.4 36.7

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

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 9 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

	, , , ,		
Industry	1992	1987	1982
INDUSTRY 2082, MALT BEVERAGES			
Total value of shipments	17 340.2	13 618.6	11 183.2
Primary products value of shipmentsSecondary products value of shipments	17 298.2 (D)	13 521.1 42.3	11 105.6 8.2
Total miscellaneous receipts Value of resales	(D) 18.8	55.2 (D)	69.4 44.8
Contract receipts Other miscellaneous receipts	(D) (D)	(D) (D)	24.6
Primary products specialization ratio		100	100
Value of primary products shipments made in all industries	.,	13 521.1	11 105.6
Value of primary products shipments made in this industry Value of primary products shipments made in other industries		13 521.1	11 105.6
Coverage ratio	99	100	100
INDUSTRY 2083, MALT			
Total value of shipments	575.8	530.9	661.5
Primary products value of shipmentsSecondary products value of shipments	(D)	(D)	(D)
Total miscellaneous receipts	(D)	(D)	(D)
Value of resales Contract receipts	(D)	(D) (D)	(D) (D)
Other miscellaneous receipts	(D)	(D)	(D)
Primary products specialization ratio	(D)	(D)	100
Value of primary products shipments made in all industries Value of primary products shipments made in this industry	573.3 (D)	534.3 (D)	654.7 (D)
Value of primary products shipments made in other industries	(D)	(D)	(D)
Coverage ratio	(D)	(D)	(D)
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS			
Total value of shipments Primary products value of shipments	4 301.0 4 005.6	3 208.2 3 091.4	2 785.7 2 676.3
Secondary products value of shipments	(D)	23.5	49.3
Total miscellaneous receipts Value of resales	(D) 154.0	93.3 46.4	60.1 41.6
Contract receiptsOther miscellaneous receipts	(D) (D)	29.3 17.7	15.6 2.9
Primary products specialization ratio	(D)	99	98
	(D) 4 050.0	3 162.3	
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	4 050.0 4 005.6 44.5	3 091.4 70.9	2 719.5 2 676.3 43.2
Coverage ratio	99	98	98
INDUSTRY 2085, DISTILLED AND BLENDED LIQUORS			
Total value of shipments Primary products value of shipments	3 394.1 3 051.7	3 474.3 3 039.4	3 126.1 2 707.4
Secondary products value of shipments	27.7	47.1	72.0
Total miscellaneous receipts Value of resales	314.7 302.2	387.8 367.1	346.7 299.1
Contract receipts Other miscellaneous receipts	(D) (D)	14.5 6.2	(D) (D)
Primary products specialization ratio	99	99	97
Value of primary products shipments made in all industries	3 255.4	3 187.8	2 809.3
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	3 051.7 203.7	3 039.4 148.4	2 707.4 101.9
Coverage ratio	94	95	96
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS			
Total value of abipmenta	25,446.0	21, 920, 4	16 907 5
Total value of shipments Primary products value of shipments	25 416.9 22 857.1	21 830.4 18 872.3	16 807.5 14 368.9
Secondary products value of shipments Total miscellaneous receipts	651.7 1 908.2	461.5 2 496.6	250.0 2 188.6
Value of resales Sales of carbonated soft drinks bought and sold without further	1 717.9	2 391.6	2 076.7
processing	476.7	(NA)	(NA)
Sales of soft drink syrup bought and sold without further processing Sales of aseptic drinks bought and sold without further processing	17.2 2.7	(NA) (NA)	(NA) (NA)
Sales of sparkling bottled waters bought and sold without further processing	5.8	(NA)	(NA)
Sales of other bottled waters bought and sold without further processing		(NA)	(NA)
Sales of products bought and sold without further manufacture,			
processing, or assembly Sales of products bought and sold without further manufacture,		(NA)	(NA)
processing, or assembly, n.s.kContract receipts	924.7 128.0	(NA) 43.3	(NA) 40.7
Other miscellaneous receipts	62.2	43.3 61.7	71.2
Primary products specialization ratio	97	98	98

20H-16 BEVERAGES

 TIPS [UPF]
 BATCH_1221
 [CASMR,V_HARLEY]
 MCD-SRB
 4/11/95
 11:36
 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 10

 TSF:20H_92.DAT;4
 4/11/95
 11:34:25
 UTF:20H_93.DAT;3
 4/11/95
 11:34:25
 META:TIPS96-11340739.DAT;1
 4/11/95
 11:36:38

MANUFACTURES—INDUSTRY SERIES

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

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

Industry	1992	1987	1982
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS— Con.			
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	23 774.3 22 857.1 917.2	19 611.7 18 872.3 739.4	14 891.9 14 368.9 523.1
Coverage ratio	96	96	96
INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C.			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	6 911.4 6 252.7 558.9 99.7 88.8 5.7 5.2	4 664.8 4 412.5 190.0 62.3 43.8 (D) (D)	4 236.8 3 901.4 284.8 50.5 44.0 3.8 2.8
Primary products specialization ratio	92	96	93
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	6 784.4 6 252.7 531.7	4 925.6 4 412.5 513.1	4 455.8 3 901.4 554.4
Coverage ratio	92	90	88

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

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

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

			1992			1987	
5 4 4		Number of	Product sl	hipments ¹	Number of	Product s	hipments ¹
Product code	Product	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2082- —	MALT BEVERAGES						
	Total	(NA)	(X)	17 301.7	(NA)	(X)	13 521.1
20821 20821 01 20821 02 20821 03 20821 00	Canned beer and ale case goods 1,000 bbl. 12 oz cans 1,000 bbl. 16 oz cans 1,000 bbl. Other can sizes 1,000 bbl. Canned beer and ale case goods, n.s.k. 1,000 bbl.	(NA) 20 12 6 (NA)	(X) 99 931.7 9 739.9 2 346.7 (X)	10 636.2 9 526.9 876.4 231.9 1.0	(NA) 22 11 5 (NA)	(X) 95 347.9 9 017.8 2 930.0 (X)	8 212.4 7 250.7 715.7 246.0
20822	Bottled beer and ale case goods Beer: Returnable bottles:	(NA)	(X)	4 861.8	(NA)	(X)	4 074.2
20822 22 20822 24 20822 27 20822 28	Less than 12 oz bottles1,000 bbl_ 12 oz bottles1,000 bbl_ 32 oz bottles1,000 bbl_ All other bottle sizes1000 bbl_	5 23 2 7	166.9 11 664.7 (D) 337.6	11.4 1 130.2 (D) 16.5	8 21 3 12	522.9 10 604.0 132.5 867.8	36.8 897.0 5.2 40.5
20822 32 20822 34 20822 37 20822 38 20822 41 20822 00	Nonreturnable bottles: 1,000 bbl. 12 oz bottles 1,000 bbl. 32 oz bottles 1,000 bbl. All other bottle sizes 1,000 bbl. Ale 1,000 bbl. Bottled beer and ale case goods, n.s.k. 1,000 bbl.	9 29 9 12 12 (NA)	987.3 27 102.9 2 206.6 (D) 361.1 (X)	107.2 2 900.5 168.3 (D) 42.1	11 21 14 12 7 (NA)	2 778.4 26 899.0 3 508.5 2 359.7 393.1 (X)	266.1 2 365.9 265.2 163.4 34.2
20823 20823 64 20823 65 20823 00	Beer and ale in barrels and kegs	(NA) 34 16 (NA)	(X) 19 636.7 2 148.5 (X)	1 026.3 912.6 113.6 –	(NA) 22 15 (NA)	(X) 19 524.2 1 456.1 (X)	722.1 668.6 53.5 –
20824 20824 11	All other malt beverages and brewing products Nonalcoholic beer (quantity of total beer listed above	(NA)	(X)	652.7	(NA)	(X)	416.5
20824 51	which is nonalcoholic)	(NA) 9	(D) 7 615.0	(X) 521.2	(NA) 7	(NA) (D)	(X) (D)
20824 93	Dry1,000 s	4	231.1	19.2	4	(D)	(D)
20824 95	Wet (dry weight equivalent or actual weight of dry grains employed in the manufacture)1,000 s				•		
20824 99	All other malt beverages and brewery products	9	3 973.6	46.2	10	2 226.8	24.4
20824 00	(porter, stout, malt extracts, malt syrup) All other malt beverages and brewing products, n.s.k	13 (NA)	(X) (X)	65.3	3 (NA)	(X) (X)	12.3

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 11 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

BEVERAGES 20H–17

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

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

Stitutors Operation Operation <t< th=""><th></th><th>in appendixes. For meaning of appreviations and sympols, see infodduct</th><th></th><th>1992</th><th></th><th></th><th>1987</th><th></th></t<>		in appendixes. For meaning of appreviations and sympols, see infodduct		1992			1987	
Code Protect and an intermediation of the second of the s				Product s	hipments ¹		Product sl	hipments ¹
2000 0 2000 0		Product	with shipments of \$100,000	Quantity ²	(million	with shipments of \$100,000	Quantity ²	Value (million dollars)
2083 MALT NN (N) (O) 573.3 (NA) (O) 593.3 2083 00 Male and mail proposition, unif-memory, that summing, etc.) (NA) (D) 573.3 (NA) (DO) 593.4 2080 00 Male and mail proposition, unif-memory, etc.) (NA) (D) 573.3 (NA) (DO) 593.4 2080 00 Male and mail proposition, unif-memory, etc.) (NA) (D) 573.3 (NA) (DO) 593.2 2084 WINES, BRANDY, AND BRANDY SPIRITS (NA) (D) 44.600.0 (NA) (DO) 35.162.2 2084 12 Total (NA) (D) 44.600.0 (NA) (DO) 35.162.2 2084 12 Total (NA) (D) (DA) (DO) 35.162.2 2084 12 Total (NA) (D) (DA) (DA) 25.2 2084 12 Total (DA) (DA) 26	2082	MALT BEVERAGES—Con.						
Total (NA) (NA) <t< td=""><td>20820 00</td><td>Malt beverages, n.s.k Malt beverages, n.s.k.³ Malt beverages, n.s.k.⁴</td><td>(NA)</td><td>(X) (X) (X)</td><td>102.6</td><td>(NA)</td><td>(X) (X) (X)</td><td>95.9 34.6 61.3</td></t<>	20820 00	Malt beverages, n.s.k Malt beverages, n.s.k. ³ Malt beverages, n.s.k. ⁴	(NA)	(X) (X) (X)	102.6	(NA)	(X) (X) (X)	95.9 34.6 61.3
2000 00 main production Main and main byperclucia. (NA) (N	2083	MALT						
2003 OZ mail byperducts (screenings, chir), summary, chir) nit byperducts (screenings, chir), summary, chir) summary, chir, chir) summary, chir, chi		Total	(NA)	(X)	573.3	(NA)	(X)	534.3
2084 WINES, BRANDY, AND BRANDY SPIRTS (NA) (X) 4 55.0 (NA) (X)		Malt and malt byproducts	(NA)	(X)	573.3	(NA)	(X)	534.3
Total (NA) (X) (X)<	20830 02	(dry weight)mil bmil b			573.3 -			528.8 5.5
2040 Vines, brandy, and brandy spirits Comparison	2084- —	WINES, BRANDY, AND BRANDY SPIRITS						
2020 10 2020 14 2020 15 2020 15 2020 14 2020 14 2020 15 2020 15 2020 15 2020 14 2020 14 2020 15 2020 15		Total	(NA)	(X)	4 050.0	(NA)	(X)	3 162.3
20840 12 While While In 70 424.9 1 496.0 101 370.1 1 128.5 20840 14 Res In and borny wines, la mit wine gal. 12 8.0 349.9 7 369.3 39 728.3 397.5 369.3 397.5 369.3 397.5 369.3 397.5 369.3 397.5 369.3 397.5 369.3 369.3 327.5 369.3 369.3 327.5 369.3 369.3 369.3 327.5 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 369.3 <	20840	Grape wines 14 percent or less:	(NA)	(X)	4 050.0	(NA)	(X)	3 162.3
2084 35 2084 35 2084 41 Description (white) (according speciality), white specialities, white (according speciality), white speciality), white (according speciality), white speciality, white advection, metric first speciality, and speciality, and speciality), white advection, metric first speciality, and		White mil wine gal mil wine galm mil wine gal mil wine gal mil wine galm mil wine gal				90		1 128.5 423.0
2889 31 Effevescent wines, including sparking wines wine collers mill wine gal. (NA) 26 56.4 339.8 21 36.5 223.4 2084 04 Wine collers Vernouth (wine collers mill wine gal. (NA) 5 3.5 19.0 8 3.3 115.2 2084 04 Wine collers Vernouth (wine collers (NA)	20840 19	Rose mil wine gal Other fruit and berry wines, 14 percent or less mil wine gal	12	8.0	34.9	7	9.0	237.8 29.2
20840 41 When coolers		Effervescent wines, including sparkling wines						223.4
20840 6 Monacoholic wine (quanty on) of wine listed above) Other specialty wines (quanty on) of wine listed above) 10 20.7 105.2 10 9.9 47.7 20840 6 Monacoholic wine (quanty on) of wine listed above) mil wine gal (NA) (D) (X) (NA)		Specialties: Vermouthmil wine gal						15.5
20840 65 brandy above) second prandy (NA) (U) (X) (NA) (NA) (NA) 20840 65 brandy above) second above) second (NA) (U) (X) (NA)	20840 46	Other specialty winesmil wine galmil wine gal						47.5
20840 81 20840 85 20840 00 Whese, brandy, and brandy spirits, n.s.k. Init wine gal (NA) (NA) *93.8 *1.3 (X) (NA) *92.5.1 (X) (X) *94.7 *1.3 (X) (NA) *92.8 *1.3 (X) (NA) *1.3 (X) (NA) *1.3 (X) (NA) (X) 10.5 *1.5 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15		above)	. ,			. ,	, ,	(X)
20840 00 Wines, brandy, and brandy spirts, n.s.k. ³		Wine removed from fermentersmil wine gal	(NA)	⁶ 93.8	(X)	(NA)	⁶ 125.1	(X)
Total (NA) (X) 3 255.4 (NA) (X) 3 187.6 20851 Distilled liquor, except brandy	20840 00	Wines, brandy, and brandy spirits, n.s.k. ⁴	(NA)		16Ò.9	(NA)	(X)	119.7 215.3
20851 Distilled liquor, except brandy (NA) (X) 643.6 (NA) (X) 454.0 20851 13 Grain neutral spirits, including neutral citrus residue gal 10 10 55.9 168.6 7 54.9 136.9 20851 43 Vodka (including original and continuous distillation and/or processing operations) mil proof gal 3 3 5 264.4 104.5 6 23.1 84.2 20851 48 Other distilled liquors, including rum, gin, and cane gal 7 33.5 157.0 7 24.9 117.4 20851 65 Distillers' dried grains, dark and light, and dried gal 7 33.5 157.0 7 24.9 117.4 20851 65 Distiller liquor, except brandy, n.s.k. 1000 s 14 1 900.8 212.5 12 1 474.8 114.0 20853 10 Distiller liquor, except brandy, n.s.k. 1000 s 11 23.7 222.5 12 1 474.8 114.0 20853 16 Bottled liquor, except brandy,s.k. 1000 s 11	2085	DISTILLED AND BLENDED LIQUORS						
20851 15 Whiskey, raw (bourbon, rye, etc.)		Total	(NA)	(X)	3 255.4	(NA)	(X)	3 187.8
20851 31 Grain neutral spirits, including neutral citrus residue gal 10 55.9 168.6 7 54.9 136.5 20851 43 Vodka (including original and continuous distillation and/or processing operations)		Distilled liquor, except brandy Whiskey, raw (bourbon, rye, etc.)mil proof	(NA)	(X)	643.6	(NA)	(X)	454.0
20851 43 Vodka (including original and continuous distillation and/or processing operations)	20851 31	gal Grain neutral spirits, including neutral citrus residue	10	- 55.9	168.6	7	54.9	136.9
20851 48 Other distilled liquors, including rum, gin, and cane neutral spirits gal 5 26.4 104.5 6 23.1 84.2 20851 65 Distillers' dried grains, dark and light, and dried solubles gal 7 33.5 157.0 7 24.9 117.4 20851 00 Distilled liquor, except brandy, n.s.k. tons 14 1 900.8 212.5 12 1 474.8 114.0 20853 00 Distilled liquor, except brandy (NA) (X) 2 584.0 (NA) (X) 2 664.2 20853 11 Unprocessed whiskey mil wine gal 1 23.7 22.2 10 23.3 364.7 20853 13 Blends of whiskey	20851 43	gal Vodka (including original and continuous distillation	3					
20851 65 Distillers' dried grains, dark and light, and dried solubles	20851 48	gal Other distilled liquors, including rum, gin, and cane	5	26.4	104.5	6	23.1	84.2
tons 14 1 900.8 212.5 12 1 474.8 114.0 20851 00 Distilled liquor, except brandy, n.s.k. (NA) (X) 1.0 (NA) (X) 1.5 20853 Bottled liquor, except brandy	20851 65	gal Distillers' dried grains, dark and light, and dried	7	33.5	157.0	7	24.9	117.4
Whiskey: T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T<	20851 00	tons						114.0 1.5
20853 11 Unprócessed whiskeymil wine gal 7 27.4 342.7 10 23.3 364.7 20853 13 Blends of whiskey mil wine gal 11 23.7 222.2 12 18.2 176.6 20853 16 Blends with neutral spiritsmil wine gal 12 8.0 70.4 18 9.3 76.2 20853 16 Other whiskey mil wine gal 16 36.4 419.9 23 47.9 514.7 20853 22 Gin	20853		(NA)	(X)	2 584.0	(NA)	(X)	2 664.8
20853 16 Blends with neutral spiritsmil wine ğal 12 8.0 70.4 18 9.3 76.2 20853 18 Other whiskey		Unprocessed whiskeymil wine gal	7 11					364.7 176.6
20853 25 Cordials, liqueurs	20853 16 20853 18	Blends with neutral spiritsmil wine galmil wine gal	12 16	8.0 36.4	70.4 419.9	18 23	9.3 47.9	76.2 514.7
20853 31 Vodka Vodka 19 81.7 351.7 29 71.0 341.0 20853 35 Rum Rum 11 19 9.9 55.8 18 9.0 55.0 20853 41 Other bottled liquors (excluding bottled in bond) 17 19.8 13.5 20 13.5 119.3 20853 65 Bottled in bond mil wine gal 17 11.8 113.5 20 13.5 119.3 20853 00 Bottled in bond mil wine gal 5 (D) (D) (NA) (NA) 307.2 20850 Distilled and blended liquors, n.s.k. (NA) (X) 1.7 (NA) (X) 130.5	20853 25	Cordials, liqueursmil wine gal	17	39.8	407.5	23	38.5	429.5
20853 41 Other bottled liquors (excluding bottled in bond)mil wine ğal 17 11.8 113.5 20 13.5 119.3 20853 65 Bottled in bondmil wine gal 5 (D) (D) (NA) (NA) 307.2 20853 00 Bottled liquor, except brandy, n.s.k. (NA) (X) 1.7 (NA) (X) 307.2 20850 Distilled and blended liquors, n.s.k.	20853 31	Vodkamil wine gal	19	81.7 *9.9	351.7	29	71.0	341.0 55.6
20850 Distilled and blended liquors, n.s.k	20853 41 20853 65	Other bottled liquors (excluding bottled in bond)mil wine gal	17 5	11.8	113.5	20 (NA)	13.5 (NA)	119.3 307.2
20850 Distilled and blended liquors, n.s.k.			. ,			. ,	(X)	'30.5
20850 02 Distilled and blended liguors, n.s.k. ⁸ (NA) (NA) (X) 2.6 (NA) (X) 12.2	20850 00	Distilled and blended liquors, n.s.k Distilled and blended liquors, n.s.k. ⁷ Distilled and blended liquors, n.s.k. ⁸	(NA)	(X) (X) (X)	25.3	(NA)	(X) (X) (X)	69.0 56.8 12.2

See footnotes at end of table.

20H-18 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

 TIPS [UPF]
 BATCH_1221
 [CASMR,V_HARLEY]
 MCD-SRB
 4/11/95
 11:36 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 12

 TSF:20H_92.DAT;4
 4/11/95
 11:36:37
 4/11/95
 11:34:25
 META:TIPS96-11340739.DAT;1
 4/11/95
 11:36:38

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

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

	Product	Number of companies with shipments of	Product s	hipments ¹	Number of companies	Product s	hipments ¹
code 2086- — E 20863 E	Product	with shipments					
20863 B					with		
20863 B				Value	shipments of		Value
20863 B		\$100,000 or more	Quantity ²	(million dollars)	\$100,000 or more	Quantity ²	(million dollars)
	BOTTLED AND CANNED SOFT DRINKS						
	Total	(NA)	(X)	23 774.3	(NA)	(X)	19 611.7
20863 10	Bottled carbonated soft drinks Bottled carbonated soft drinks in refillable glass	(NA)	(X)	7 456.6	(NA)	(X)	6 396.5
20003 10	bottles: Total mil cases.						
	192 oz case equiv	92	⁹ 189.0	599.0	199	⁹ 302.7	932.2
20863 11	Regular: Drinks containing some real juice mil cases, 192 oz case						
20863 12	equiv Drinks containing kola extract, except those with some real juice mil cases,	(NA)	8.5	(X)	(NA)	8.6	(X)
	192 oz case equiv	(NA)	94.7	(X)	(NA)	148.1	(X)
20863 13	Lemon, lime, and lemon/lime combinations, except those with some real juice mil cases, 192 oz case						
20863 14	equiv Other carbonated flavors, including club soda,	(NA)	(D)	(X)	(NA)	24.0	(X)
	except those with some real juice mil cases, 192 oz case equív	(NA)	(D)	(X)	(NA)	42.7	(X)
20863 15	Diet: Drinks containing some real juice mil cases, 192 oz case						
20863 16	equiv Drinks containing kola extract, except those	(NA)	2.0	(X)	(NA)	5.3	(X)
	with some real juice mil cases, 192 oz case equiv	(NA)	29.8	(X)	(NA)	48.7	(X)
20863 17	Lemon, lime, and lemon/ lime combinations, except those with some real juice mil cases, 192 oz case	~ /			. ,	-	()
20863 18	equiv Other carbonated flavors, including carbonated	(NA)	4.8	(X)	(NA)	6.7	(X)
	waters and club soda, except those with some real juice mil cases, 192 oz case						
	equiv Bottled carbonated soft drinks in nonrefillable glass	(NA)	(D)	(X)	(NA)	12.6	(X)
20863 20	bottles: Total mil cases, 192 oz case						
	equiv Regular:	152	⁹ 600.6	2 145.1	207	⁹ 413.3	1 695.7
20863 21	Drinks containing some real juice mil cases, 192 oz case equiv	(NA)	30.2	(X)	(NA)	24.1	(X)
20863 22	Drinks containing kola extract, except those mil cases,		50.2	(77)	(1177)	27.1	(//)
00000.00	192 oz case equiv	(NA)	(D)	(X)	(NA)	169.1	(X)
20863 23	Lemon, lime, and lemon/lime combinations, except those with some real juice mil cases, 192 oz case						
20863 24	equiv Other carbonated flavors, including club soda,	(NA)	35.2	(X)	(NA)	30.3	(X)
	except those with some real juice mil cases, 192 oz case equiv	(NA)	153.4	(X)	(NA)	85.5	(X)
20863 25	Diet: Drinks containing some real juice mil cases, 192 oz case						
20863 26	Drinks containing kola extract, except those	(NA)	3.3	(X)	(NA)	7.1	(X)
	with some real juice mil cases, 192 oz case equiv	(NA)	58.7	(X)	(NA)	62.2	(X)
20863 27	Lemon, lime, and lemon/ lime combinations, except those with some real juice mil cases,	~ /			. ,		()
20863 28	192 oz case equiv Other carbonated flavors, including carbonated	(NA)	9.4	(X)	(NA)	8.0	(X)
	waters and club soda, except those with some real juice mil cases, 192 oz case						
	Bottled carbonated soft drinks in plastics bottles:	(NA)	135.6	(X)	(NA)	18.9	(X)
20863 30	Total mil cases, 192 oz case equiv	184	⁹ 1 522.7	4 697.6	229	⁹ 1 130.9	3 768.6
20863 31	Regular: Drinks containing some real juice mil cases,						
20863 32	192 oz case equiv Drinks containing kola extract, except those	(NA)	62.0	(X)	(NA)	51.3	(X)
	with some real juice mil cases, 192 oz case equiv	(NA)	(D)	(X)	(NA)	476.1	(X)

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 13 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

BEVERAGES 20H–19

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

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

			1992			1987	
		Number of	Product sl	nipments ¹	Number of	Product sl	nipments ¹
Product code	Product	companies - with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies – with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2086- —	BOTTLED AND CANNED SOFT DRINKS-			,			,
20863	Bottled carbonated soft drinks—Con. Bottled carbonated soft drinks in plastics bottles—						
20863 30	Con. Total—Con.						
20863 33	Regular—Con. Lemon, lime, and lemon/ lime combinations, except those with some real juice mil cases, 192 oz case						
20863 34	equiv Other carbonated flavors, including club soda, except those with some real juice mil cases, 192 oz case	(NA)	(D)	(X)	(NA)	89.7	(X)
20863 35	equiv Diet: Drinks containing some real juice mil cases,	(NA)	329.0	(X)	(NA)	214.0	(X)
20863 36	192 oz case equiv Drinks containing kola extract, except those with some real juice mil cases,	(NA)	24.2	(X)	(NA)	18.6	(X)
20863 37	192 oz case equiv Lemon, lime, and lemon/ lime combinations,	(NA)	282.8	(X)	(NA)	181.5	(X)
20863 38	except those with some real juice mil cases, 192 oz case equiv Other carbonated flavors including carbonated	(NA)	35.5	(X)	(NA)	31.0	(X)
20000 00	waters and club soda, except those with some real juice mil cases, 192 oz case						
20863 00	equiv Bottled carbonated soft drinks, n.s.k	(NA) (NA)	71.5 (X)	(X) 7.7	(NA) (NA)	38.8 (X)	(X)
20864 20864 00	Canned carbonated soft drinks mil cases, Total 192 oz case	(NA)	(X)	9 941.3	(NA)	(X)	7 030.1
20864 11	equiv Regular: Drinks containing some real juice mil cases, 192 oz case	(NA)	⁹ 2 789.4	9 941.3	182	(X)	7 030.1
20864 12	Drinks containing kola extract, except those with some real juice mil cases,	(NA)	104.5	(X)	(NA)	124.8	(X)
20864 13	192 oz case equiv Lemon, lime, and lemon/lime combinations, except those with some real juice mil cases,	(NA)	1 146.8	(X)	(NA)	793.8	(X)
20864 14	except those with some real juice fill cases, 192 oz case equiv Other carbonated flavors, including club soda,	(NA)	218.9	(X)	(NA)	138.5	(X)
	except those with some real juice mil cases, 192 oz case equiv	(NA)	493.2	(X)	(NA)	340.4	(X)
20864 15	Diet: Drinks containing some real juice mil cases, 192 oz case equiv	(NA)	58.4	(X)	(NA)	38.5	(X)
20864 16	Drinks containing kola extract, except those with some real juice mil cases, 192 oz case		539.4		(NA)	386.1	
20864 17	equiv Lemon, lime, and lemon/ lime combinations, except those with some real juice mil cases, 192 oz case	(NA)		(X)			(X)
20864 18	equiv Other carbonated flavors, including carbonated waters and club soda, except those with some real juice mil cases, 192 oz case	(NA)	75.2	(X)	(NA)	43.2	(X)
	equiv	(NA)	149.4	(X)	(NA)	82.7	(X)
20865 20865 01 20865 02 20865 00	Soft drink flavoring syrup sold in bulkmil gal Postmixmil gal Premixmil gal Soft drink flavoring syrup sold in bulk, n.s.kmil gal	(NA) 103 90 (NA)	(X) 354.4 *57.5 (X)	1 052.4 830.7 143.6 78.1	(NA) 175 148 (NA)	(X) 311.1 *91.3 (X)	879.4 648.8 201.0 '29.6
20866	Noncarbonated soft drinks Fruit drinks, cocktails, and ades containing some real	(NA)	(X)	3 899.4	(NA)	(X)	2 426.6
20866 01 20866 02 20866 03	juice: 16.9 oz (1/2 liter) container or lessmil gal Other size containers (cartons, bottles, cans, etc.)mil gal Concentratesmil gal Fruit drinks, cocktails, and ades, containing no real	84 150 26	275.6 *954.4 66.6	585.5 1 912.7 206.1	83 122 24	**183.4 673.9 57.9	464.8 1 247.7 166.1
20866 04 20866 05 20866 06 20866 07	juice: 16.9 oz (1/2 liter) container or lessmil gal Other size containers (cartons, bottles, cans, etc.)mil gal Concentratesmil gal Canned iced tea, with or without flavoringsmil gal	20 23 6 33	51.8 64.8 **3.6 46.7	133.8 211.6 15.6 100.0	- (NA) 6 21	69.1 (S) *13.5	289.0 8.3 43.2

See footnotes at end of table.

20H–20 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 14 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

			1992		1987		
Droduct		Number of Produce Companies		hipments ¹	Number of companies		
Product code	Product	with			with		
		of \$100,000		Value (million	of \$100,000		Value (million
		or more	Quantity ²	dollars)	or more	Quantity ²	dollars)
2086- —	BOTTLED AND CANNED SOFT DRINKS- Con.						
20866	Noncarbonated soft drinks—Con.						
20866 09	Bottled water, processed or pasteurized, except natural spring, artificially carbonated, mineral,						
20866 00	distilled, and sterilemil galmil gal	38 (NA)	**156.6 (X)	193.0 61.2	14 (NA)	*111.5 (X)	173.5 ¹⁰ 34.0
20860	Bottled and canned soft drinks, n.s.k.	(NA)	(X)	1 424.6	(NA)	(X)	2 879.1
20860 00 20860 02	Bottled and canned soft drinks, n.s.k. Bottled and canned soft drinks, n.s.k. ¹¹ Bottled and canned soft drinks, n.s.k. ¹²	(NA) (NA)	(X) (X)	1 358.6 66.0	(NA) (NA)	(X) (X)	2 571.0 308.1
2087- —	FLAVORING EXTRACTS AND SYRUPS, N.E.C.						
	Total	(NA)	(X)	6 784.4	(NA)	(X)	4 925.6
20871	Flavoring extracts, emulsions, and other liquid flavors	(NA)	(X)	513.9	(NA)	(X)	479.3
20871 11	Natural or true: In containers 8 oz or lessmil gal	19	**17.6	105.9	22	(S)	102.6
20871 15 20871 53	In containers more than 8 ozmil gal Imitationmil gal	46 34	54.7 *24.1	202.8 162.3	61 36	68.8 25.5	198.2 158.1
20871 00	Flavoring extracts, emulsions, and other liquid flavors, n.s.k.	(NA)	(X)	43.0	(NA)	(X)	20.5
20872	Liquid beverage bases not for use by soft drink bottlers	(NA)	(X)	158.8	(NA)	(X)	73.4
20872 15 20872 21	Cocktail mixesmil galmil gal	10 15	**9.2 16.0	46.1 90.7	17	*7.9	38.1 27.7
20872 00	Liquid beverage bases not for use by soft drink bottlers, n.s.k.	(NA)	(X)	22.0	(NA)	(X)	7.6
20873	Liquid beverage bases for use by soft drink bottlers	(NA)	(X)	2 969.8	(NA)	(X)	2 186.3
20873 21	For sale to soft drink bottlers: Concentrates with some juice content mil cases,						
20873 23	192 oz case equiv	12	180.6	211.8	11	154.7	176.7
20073 23	192 oz case equiv	13	(D)	(D)	15	3 072.2	1 785.7
20873 25	Syrups mil cases, 192 oz case		(2)	(2)		0 01212	
	For sale to trade or nonbottler distributors:	9	254.9	224.0	5	167.7	124.8
20873 41	Concentrates with some juice content mil cases, 192 oz case				_		
20873 43	equiv Other concentratesOther concentrates	9	5.0	22.1	5	(S)	16.0
20873 45	192 oz case equiv	8	(D)	(D)	4	(D)	(D)
20073 43	192 oz case equiv	16	22.0	42.6	12	27.6	41.6
20873 00	Liquid beverage bases for use by soft drink bottlers, n.s.k.	(NA)	(X)	10.2	(NA)	(X)	(D)
20874	Other flavoring agents (except chocolate syrups)	(NA)	(X)	2 697.0	(NA)	(X)	1 813.7
20874 35	Flavoring powders, tablets, and pastes: Soft drink (effervescent and noneffervescent)mil lb	13	88.7	188.9	16	112.7	444.7
20874 37	Other flavoring powders, tablets, and paste, including dry mix cocktailsmil lb	38	285.6	958.3	25	177.7	376.9
20874 59	Flavoring syrups for fountain, ice cream, and home beverage use, excluding liquid beverage bases and soft drinks in bulkmil gal	24	(D)	(D)	30	166.8	753.2
20874 61	Fruit, crushed or whole, for fountain and ice cream usemil galmil gal	24 15	(D) 23.6	(D) 161.3	18	16.9	112.9
20874 71 20874 81	Food colorings, except synthetic Concentrated fruit juice products (not frozen, not hot	11	(X)	104.4	11	(X)	72.0
20874 00	pack), for fountain usemil galmil gal	8	29.5	60.7	10	12.3	27.0
	n.s.k	(NA)	(X)	(D)	(NA)	(X)	27.0
20870 20870 00	Flavoring extracts and syrups, n.e.c., n.s.k. Flavoring extracts and syrups, n.e.c., n.s.k. ⁷ Flavoring extracts and syrups, n.e.c., n.s.k. ⁶	(NA) (NA)	(X) (X) (X)	445.0 421.2	(NA) (NA)		373.0 215.6
20870 02	Flavoring extracts and syrups, n.e.c., n.s.k. ⁶	(NA)	(X)	23.8	(NA)	(X)	157.4

¹Data reported by all producers, not just those with shipments of \$100,000 or more. ²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S). ³Typically for establishments with 5 employees or more. ⁴Typically for establishments with 5 employees. ⁵For 1992, there were no administrative-record cases for this industry. For 1987, data for this product code are typically for establishments with less than 20 employees. ⁶Data for quantity represent conduction rather than shipments.

⁵For 1992, there were no administrative-record cases for this industry. For 1987, data for this product code are typically for establishments with less than 20 employees.
 ⁶Data for quantity represent production rather than shipments.
 ⁷Typically for establishments with 10 employees or more.
 ⁹Typically for establishments with less than 10 employees.
 ⁹Quantity total product codes 20863 10, 20863 20, 20863 30, and 20863 40 may not equal the summation of subsequent quantity totals 20863 11 to 20863 18, 20863 21 to 20863 28, 20863 31 to 20863 38, and 20864 11 to 20864 18, respectively, because of the small number of establishments providing only overall total quantity, not quantity by flavor.
 ¹⁰For 1987, data for product code 20866 08 were included with product code 20866 00.
 ¹¹Typically for establishments with 15 employees or more.
 ¹²Typically for establishments with 15 employees.

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 15 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

BEVERAGES 20H-21

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

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

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
20821, CANNED BEER AND ALE CASE GOODS			20864, CANNED CARBONATED SOFT DRINKS		
United States	10 636.2	8 212.4	United States	9 941.3	7 178.8
Texas	1 283.3	1 233.6	Alabama	199.6	80.6
Wisconsin	619.2	570.0	Arizona California	225.0 1 272.2	211.3 1 131.1
20822, BOTTLED BEER AND ALE CASE GOODS			Colorado Florida	171.4 634.1	183.1 401.6
United States	4 861.8	4 074.2	Georgia	383.5 517.0	203.1 249.8
New York	471.9	589.6	IndianaIowaIowa	476.4 135.9	260.1 91.8
PennsylvaniaWashington	100.9 60.5	121.8 (NA)	Kansas	209.0	106.3
Wisconsin	307.2	252.6	Kentucky	54.1	43.8
20823, BEER AND ALE IN BARRELS AND KEGS			Louisiana Maryland Massachusetts	179.5 275.5 132.7	114.3 287.8 120.3
United States	1 026.3	722.1	Michigan	210.5	114.1
	107.2	98.3	Minnesota Mississippi	353.3 53.2	(NA) 8.0
New York Oregon	9.1	(NA)	Missouri Nebraska	311.4 86.9	219.5 66.2
PennsylvaniaWashington	19.7 17.0	30.1 (NA)	New Jersey	182.6	118.1
······································		()	New York	401.2	271.2
20824, ALL OTHER MALT BEVERAGES AND			North Carolina Ohio	103.9 397.8	67.5 264.9
BREWING PRODUCTS			Oregon	112.9	41.2
United States		416.5	Pennsylvania	207.1	
Florida New York	31.7 15.3	(NA) 2.8	South Carolina Tennessee	177.0 269.6	165.1 124.0
Ohio	7.8	(NA)	TexasUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtahUtah_Utah	928.3 51.3	612.8 96.5
Pennsylvania Texas	45.9 105.7	(NA) (NA)	Virginia	240.7	126.2
			Washington Wisconsin	209.7 203.9	169.0 (NA)
20851, DISTILLED LIQUOR, EXCEPT BRANDY					
United States	643.6	454.0	20865, SOFT DRINK FLAVORING SYRUP SOLD IN BULK		
Kentucky	109.0	55.4	United States	1 052.4	879.4
20853, BOTTLED LIQUOR, EXCEPT BRANDY			Alabama	14.6	27.5
United States	2 584.0	2 664.8	Arizona	35.8	22.9
			Arkansas California	9.3 125.9	10.4 92.1
Kentucky Maryland	108.8	745.5 (NA)	Colorado	4.3	26.7
Missouri New Jersey	93.6 30.7	(NA) 137.9	Florida	41.0	59.2
			Idaho Illinois	3.3 18.0	(NA) 42.6
20863, BOTTLED CARBONATED SOFT			lowa Kansas	20.6	14.3
DRINKS			Kentucky	7.2	5.8
United States		6 396.5	Louisiana	12.8	8.1
AlabamaArizona		179.8	Maryland Minnesota	19.8 16.3	12.5 (NA)
Arkansas	43.6	71.3	Mississippi	6.6	3.7
California Colorado	712.3	476.2 67.8	Missouri New Jersey	37.4 50.9	36.7 (NA)
Florida	422.8	268.3	New York	23.7	31.3
Georgia	229.2 304.7	214.6 258.9	North Carolina Ohio	33.0 67.8	16.8 29.5
Indiana	135.6	161.1	Oregon	25.7	11.6
lowa	118.1	101.0	Pennsylvania	18.0	28.6
KansasKentucky	110.6 97.4	50.9 92.8	South Carolina Tennessee	16.1 38.8	16.1 10.8
Louisiana	169.1 54.4	145.2 (NA)	Texas Virginia	106.5	73.4 26.5
Maine Maryland	200.3	266.2	Washington	14.5	21.0
Massachusetts		153.1	Wisconsin	16.0	5.2
Michigan Minnesota		291.6 (NA)	20866, NONCARBONATED SOFT DRINKS		
Mississippi	88.0	72.3 187.9	United States	3 899.4	2 426.6
Missouri					
Nebraska New Jersey	22.1 173.2	27.6 174.7	Alabama Arizona	6.7 18.2	8.0 13.4
New York North Carolina	623.0	529.8 237.3	California Colorado	451.9	342.2 (NA)
		368.4	Connecticut	5.6	2.2
Ohio	236.9	500.4			
Ohio Oklahoma	82.8	116.6	Florida	417.3	
OklahomaOregon	82.8 42.0		Georgia	59.2	207.6 22.1 16.1
Oklahoma Oregon Pennsylvania South Carolina	82.8 42.0 366.3 148.2	116.6 28.8 342.3 146.7	Georgia Hawaii Illinois	59.2 28.2 175.4	22.1 16.1 89.3
Oklahoma Oregon Pennsylvania South Carolina Tennessee	82.8 42.0 366.3 148.2 196.8	116.6 28.8 342.3 146.7 151.4	Georgia Hawaii Illinois Indiana	59.2 28.2 175.4 106.9	22.1 16.1 89.3 103.4
Oklahoma Oregon Pennsylvania South Carolina	82.8 42.0 366.3 148.2 196.8 567.5	116.6 28.8 342.3 146.7	Georgia	59.2 28.2 175.4	22.1 16.1 89.3
Oklahoma Oregon Pennsylvania South Carolina Tennessee Texas	82.8 42.0 366.3 148.2 196.8 567.5 30.2 349.4	116.6 28.8 342.3 146.7 151.4 421.7 49.6 235.7	Georgia Hawaii Illinois Indiana Iowa	59.2 28.2 175.4 106.9 3.4	22.1 16.1 89.3 103.4 2.3

See footnotes at end of table.

20H–22 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 16 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
20866, NONCARBONATED SOFT DRINKS- Con.			20872, LIQUID BEVERAGE BASES NOT FOR USE BY SOFT DRINK BOTTLERS-Con.		
Minnesota	4.7	(NA)	United States	158.8	73.4
Mississippi New Jersey New York North Carolina	2.3 501.3 207.0 27.3	`3.1 404.9 69.7 51.3	California New Jersey	7.6 7.6	31.6 2.9
Ohio	77.2	72.1	20873, LIQUID BEVERAGE BASES FOR USE BY SOFT DRINK BOTTLERS		
Oklahoma Pennsylvania	5.1 357.2	2.5 89.5	United States	2 969.8	2 186.3
South Ćarolina Texas Virginia	4.1 224.0 8.7	3.7 180.7 15.4	California Hawaii	295.2 20.4 26.9 15.7	275.8 (NA) (NA) 35.2
20871, FLAVORING EXTRACTS, EMULSIONS, AND OTHER LIQUID FLAVORS			20874, OTHER FLAVORING AGENTS (EXCEPT CHOCOLATE SYRUPS)		
United States	513.9	479.3	United States	2 697.0	1 813.7
California Illinois Louisiana Missouri New Jersey.	51.4 141.7 2.3 29.4 31.3	45.7 111.3 (NA) 21.4 16.3	California Florida Illinois Maryland Missouri	327.1 31.3 538.2 202.6 44.8	263.5 36.2 460.5 (NA) (NA)
New York Pennsylvania	13.2 49.4	37.3 (NA)	New Jersey New York Ohio	168.4 15.9 336.1	95.4 6.8 143.7
20872, LIQUID BEVERAGE BASES NOT FOR USE BY SOFT DRINK BOTTLERS			Pennsylvania Tennessee Wisconsin	31.4 20.3 34.1	14.6 (NA) (NA)

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

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

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

-									
Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2082-	Malt beverages Canned beer and ale case goods Bottled beer and ale case goods Beer and ale in barrels and kegs All other malt beverages and brewing products Malt beverages, n.s.k.	17 301.7	15 886.5	15 111.4	14 195.0	13 692.9	13 521.1	11 105.6	6 612.9
20821		10 636.2	9 935.6	9 430.5	8 717.9	8 302.2	8 212.4	5 984.9	3 548.9
20822		4 861.8	4 442.9	4 343.3	4 288.3	4 169.1	4 074.2	3 964.6	2 263.1
20823		1 026.3	916.4	759.7	739.3	719.4	722.1	686.7	398.1
20824		652.7	551.3	510.5	396.5	404.5	416.5	441.8	379.7
20820		124.7	40.4	67.5	52.9	97.8	95.9	27.6	23.1
2083-	Malt	573.3	616.2	707.0	800.2	617.0	534.3	654.7	488.9
20830	Malt and malt byproducts	573.3	616.2	707.0	800.2	617.0	534.3	654.7	488.9
2084-	Wines, brandy, and brandy spirits	4 050.0	3 466.7	3 504.6	3 300.9	3 522.6	3 162.3	2 719.5	1 357.7
20840	Wines, brandy, and brandy spirits	4 050.0	3 466.7	3 504.6	3 300.9	3 522.6	3 162.3	2 719.5	1 357.7
2085-	Distilled and blended liquors	3 255.4	3 404.3	3 247.8	3 465.3	3 193.9	3 187.8	2 809.3	1 955.0
20851	Distilled liquor, except brandy	643.6	606.0	439.2	453.8	439.6	454.0	345.4	205.7
20853	Bottled liquor, except brandy	2 584.0	2 743.2	2 769.1	2 975.5	2 660.4	2 664.8	2 411.3	1 703.3
20850	Distilled and blended liquors, n.s.k	27.9	55.1	39.4	36.0	93.8	69.0	52.6	46.0
2086-	Bottled and canned soft drinks	23 774.3	23 094.3	21 887.7	20 564.7	21 032.4	19 611.7	14 891.9	8 503.6
20863	Bottled carbonated soft drinks	7 456.6	7 165.6	7 002.8	6 666.3	7 142.0	6 396.5	5 880.0	(NA)
20864	Canned carbonated soft drinks	9 941.3	10 026.7	9 439.7	8 649.9	7 973.5	7 030.1	4 515.2	(NA)
20865	Soft drink flavoring syrup sold in bulk	1 052.4	985.9	962.4	931.1	1 037.8	879.4	517.4	(NA)
20866	Noncarbonated soft drinks	3 899.4	3 332.2	3 049.3	2 618.0	2 636.0	2 426.6	1 085.0	(NA)
20860	Bottled and canned soft drinks, n.s.k.	1 424.6	1 583.8	1 433.5	1 699.3	2 243.0	2 879.1	2 894.3	(NA)
2087-	Flavoring extracts and syrups, n.e.c.	6 784.4	5 712.1	5 558.3	5 161.3	5 212.6	4 925.6	4 455.8	2 620.7
20871	Flavoring extracts, emulsions, and other liquid flavors	513.9	466.6	447.6	457.8	498.0	479.3	346.5	226.4
20872	Liquid beverage bases not for use by soft drink bottlers	158.8	137.4	122.5	106.6	84.0	73.4	177.9	213.0
20873	Liquid beverage bases for use by soft drink bottlers	2 969.8	2 261.2	2 302.4	2 204.0	2 385.2	2 186.3	1 850.5	919.6
20874	Other flavoring agents (except chocolate syrups)	2 697.0	2 542.0	2 388.3	2 110.1	1 861.8	1 813.7	1 758.3	1 062.7
20870	Flavoring extracts and syrups, n.e.c., n.s.k.	445.0	304.8	297.5	282.8	383.6	373.0	322.5	199.0

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

MANUFACTURES—INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 17 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

Table 7. Materials Consumed by Kind: 1992 and 1987

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

	1992			1987		
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
	INDUSTRY 2082, MALT BEVERAGES					
	Materials, ingredients, containers, and supplies	(X)	6 864.3	(X)	6 025.0	
011913 011522	Barley mil bushels	15.5 (D)	69.3 (D)	(D) 13.5	(²) 50.3	
204131	Corn, purchased as grain mil bushels Corn grits	7 043.6	66.Ź	(NA)	(2) (2)	
204132 208301	Corn meal and flakes1,000 cwt Malt1,000 cwt	(D) 50 252.1	(D) 721.1	(NA) 40 612.7	(2) 553.4	
204612	Sweeteners: Dextrose and corn syrup, including corn syrup solids (in				(2)	
204604	terms of dry weight)mil lb High fructose corn syrup (HFCS)(in terms of solids)mil lb	605.4 (D)	68.5 (D)	(NA) (NA)	(2)	
204611 206011	Crystalline fructose (dry fructose)mil lb	(D)	(D)	(NA) (D)	(2) (2) (2) (2) (2) (2)	
286932	Sugar substitutes (mannitol, sorbitol, etc.) 1,000 s tons	· <u> </u>	_	(NA)	(2)	
265001	Containers: Paperboard containers, boxes, and corrugated paperboard		563.5		433.6	
322103 341101	Glass containers, excluding those capitalized Metal cans, can lids and ends		1 470.0 2 815.1	X	1 285.1 2 772.3	
970099	All other materials and components, parts, containers, and	(X)		. , ,		
971000	supplies Materials, ingredients, containers, and supplies, n.s.k. ³	(X)	987.4 55.3	(X) (X)	² 883.2 47.1	
	INDUSTRY 2083, MALT					
	Materials, ingredients, containers, and supplies	(X)	345.5	(X)	328.7	
011913	Barley mil bushels	128.9	326.9	123.3	314.4	
970099	All other materials and components, parts, containers, and supplies	(X)	12.6	(X)	9.2	
971000	Materials, ingredients, containers, and supplies, n.s.k. ³	(X)	6.1	(X)	5.0	
	INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS					
	Materials, ingredients, containers, and supplies	(X)	2 207.3	(X)	1 758.1	
017211	Grapes 1,000 s tons	3 031.0	778.8	2 612.2	493.9	
208401	Purchased wines: For blendingmil wine gal	239.0	352.4	226.1	299.7	
208402 322105	For other purposesmil wine gal Glass containers used for wine and brandy1,000 gross	(S) 11 377.0	13.2 393.4	1.7 15 260.1	5.1 450.3	
265021	Paperboard boxes and containers used for wine and brandy	(X)	36.7	(X)	26.7	
970099	All other materials and components, parts, containers, and supplies	(X)	472.6	(X) (X)	305.9	
971000	Materials, ingredients, containers, and supplies, n.s.k. ³	xx	160.3	×	176.5	
	INDUSTRY 2085, DISTILLED AND BLENDED LIQUORS					
	Materials, ingredients, containers, and supplies	(X)	1 196.1	(X)	'1 201.0	
	Materials used in grain distilling:					
011522 204131	Corn, purchased as grain mil bushels Corn grits1,000 cwt	*18.2	37.3	11.3 (NA)	26.6 (⁴)	
204132 011001	Corn meal and flakes	(D)	(5)	(NA) (NA)	(4) (4) (4)	
208301 244950	Mait1,000 cwt Cooperagemillions	494.3 492.8	8.0 39.1	**519.0 249.1	6.2 19.4	
190017	All other materials, ingredients, and supplies consumed in distilling operations	(X)	⁵ 58.3	(X)	⁴ 6.2	
	Materials used in the processing and bottling of distilled liguors:					
208512	Neutral spirits:	14.7	11.0	19.7	15.4	
208514 208516	Used in the processing of whiskeymil tax gal Used in the processing of vodkamil tax gal Used in the processing of gin	*78.7 31.4	86.3 24.6	68.9 30.0	82.3 23.1	
208518 208513	Used in the processing of other liquor mil tax gal Aged whiskey mil tax gal Paperboard boxes and containers for distilled liquor	23.9 44.4	106.2 154.4	27.4 61.0	117.1 189.2	
265022 308015	Paperboard boxes and containers for distilled liquor	(X) (X)	23.5	(X) (X)	15.0 (⁶)	
322106 970099	Glass containers used for distilled liquor All other materials and components, parts, containers, and	(X)	313.3	(X)	356.1	
	supplies	(X) (X)	291.9		⁶ 307.6	

See footnotes at end of table.

20H-24 BEVERAGES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1221 [CASMR,V_HARLEY] MCD-SRB 4/11/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 18 TSF:20H_92.DAT;4 4/11/95 11:34:25 UTF:20H_93.DAT;8 4/11/95 11:34:25 META:TIPS96-11340739.DAT;1 4/11/95 11:36:38

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

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

		19	92	1987		
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cos (millio dollars	
	INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS					
	Materials, ingredients, containers, and supplies	(X)	14 351.9	(X)	' 11 626 .	
06011	Sweeteners: Sugar, cane and beet (in terms of sugar solids) 1,000 s tons	(S)	26.3	*233.7	75.	
04605	High fructose corn syrup, in terms of solids: Up to 50% fructosemil lb	1 408.3	217.0	_		
04606 00615	50% or more tructosemil lb Other natural sweeteners (dextrose, honey, molasses, blends of corn sweeteners and sugar, etc.) in terms of	6 140.2	962.4		841	
86934	solidsmil lbmil	234.5 *343.0	45.0 25.5	*212.0 *172.8	32 13	
08721	Liquid beverage bases, finished drink basis: Concentrates with some juice content mil cases, 192					
08723	oz case equiv Other concentrates mil cases, 192	391.9	262.3	*389.9	318	
08725	oz case equiv Syrups mil cases, 192	*5 224.1	3 399.9	2 939.9	2 163	
	oz case equiv	(S) ***37.7	705.8	581.2	687.	
03348 90050	Concentrated fruit juicesmil gal_ Plastics wrappings, trays, carriers, etc., including preforms Paperboard containers, boxes, and corrugated paperboard	(X)	270.8 273.6	20.5 (X) (X)	119 182	
65001 08014 22107	Plastics bottles and cans Refillable glass containers with or without paperboard	(X) (X) (X)	361.2 1 153.1	(X)	174 1 074	
22107	wrapping	(X)	72.5	(X)	35	
41101	wrapping or plastics shielding Metal cans, can lids and ends	(X) (X)	717.6 3 342.6	(X) (X)	626 2 560	
70099 71000	All other materials and components, parts, containers, and supplies. Materials, ingredients, containers, and supplies, n.s.k. ³	(X) (X)	1 183.1 1 333.2	(X) (X)	988 1734	
	INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C. Materials, ingredients, containers, and supplies	(X)	1 543.3	(X)	r 1 30 9	
06011	Sweeteners: Sugar, cane and beet (in terms of sugar solids) 1,000 s tons	*146.3	72.6	104.0	54	
04605	High fructose corn syrup, in terms of solids: Up to 50% fructosemil lb	208.9	32.3		210	
04606 00615	50% or more fructosemil lb Other natural sweeteners (dextrose, honey, molasses, blends of corn sweeteners and sugar, etc.) in terms of	(D)	(D)			
36934	solidsmil lb Artificial sweeteners, in terms of solidsmil lb	73.6 2 027.7	9.8 128.1	70.7 1 842.0	9 117	
08721	Liquid beverage bases, finished drink basis: Concentrates with some juice content mil cases, 192 oz case					
08723	equiv Other concentrates mil cases, 192 oz case	6.1	9.4	(S)	21	
8725	equiv_ Syrupsmil cases, 192 oz case	3.1	117.2	(S)	73	
3348	equiv_ Concentrated fruit juicesmil gal_	(D) 4.2	(D) 34.9	7.5 3.3	10 28	
0050 5001	Plastics wrappings, trays, carriers, etc., including preforms Paperboard containers, boxes, and corrugated paperboard	(X) (X) (X)	3.0 57.3	(X) (X)	4	
8014	Plastics bottles and cans Refillable glass containers with or without paperboard		39.0	(X)	18	
2107	unanning.	(X)	1.2	(X)	5	
2107	wrapping Nonrefillable glass containers with or without paperboard	.,				
22107 22108 11101 70099	Mapping	(X) (X)	15.5 17.3	(X) (X)	7 14	

¹For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S). ²For 1987, data for material codes 011913, 204131, 204132, 204611, 204604, 204612, 206011, and 286932 were included with material code 970099. ³Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form. ⁴For 1987, data for material code 204131, 204132, and 011001 were included with material code 190017. ⁵For 1982, data for material code 308015 were included with material code 970099.

MANUFACTURES-INDUSTRY SERIES

Table 8. Employees Engaged in Transportation: 1992

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

		Total		Establishments reporting transportation employees				
SIC code	Industry			Total		Engaged in transportation		
		Employees (1,000)	Payroll (millions)	Employees (1,000)	Payroll (millions)	Employees (1,000)	Payroll (millions)	
2082 2086	Malt beverages Bottled and canned soft drinks	34.5 77.1	1 566.7 2 162.8	.8 41.8	25.3 1 167.9	.4 9.9	44.7 271.6	

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

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

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the *General Summary* and geographic area reports as a separate category.

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

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

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

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

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

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

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

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

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

were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Three basic approaches were utilized to produce these statistics.

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

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

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

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

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

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

where:

- NMc = the census value of new capital expenditures for machinery and equipment
- TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data
- 3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

Appendix B. Annual Survey of Manufactures Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 64,000 manufacturing establishments selected from a total of about 216,000 establishments. These 216,000 establishments represent all manufacturing establishments of multiunit companies and all singleestablishment 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-toyear change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

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

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

The corresponding estimates for the mail and nonmail establishments were added together, along with the baseyear 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, completecoverage values.

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

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

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

- 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 completecoverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

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

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

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

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

Appendix C. Product Code Reference Tables

1992	1987	1992	1987	1992	1987	1992	1987
2011B 17 2011B 59	2011B 99 2011B 99	20382 11 20382 13 20382 15	20382 23 20382 23 20382 23	20450 21 20450 25 20450 25 20450 25	20450 67 20450 72 20450 74	20630 09 20630 12 20630 35	20630 07 20630 07 20630 89
20137 20137 41 20137 41	20135 20135 13 20135 17	20382 19 20382 21 20382 23 20382 37	20382 23 20382 26 20382 26 20382 26 20382 53	20450 86 20450 88 20450 89 20450 92	20450 87 20450 87 20450 87 20450 87 20450 93	20630 76 20630 76 20630 91	20630 75 20630 81 20630 89
013B 17	2013B 19	20382 38 20382 39 20382 43 20382 43	20382 53 20382 53 20382 51	20450 95	20450 93 20461 17	20752 97 20752 97	20752 32 20752 98
013B 18	2013B 19	20382 47 20382 49	20382 51 20382 51 20382 51	20461 18 20461 23	20462 49 20461 19	20791 83 20791 85	20791 81 20791 81
0223 01 0223 02	20223 00 20223 00	20382 49 20382 49 20382 49	20382 53 20382 55 20382 57	20461 25 20461 29 20461 29	20461 31 20461 19 20461 34	20824 11 20840 10	20824 00 20840 00
)224 11)224 13	20224 21 20224 21			20461 29	20461 37	20851 15 20851 15	20851 13 20851 19
0238 01 0238 03	20238 11 20238 11	20415 11 20415 11 20415 13 20415 13 20415 13	20415 51 20415 52 20415 53 20415 54	20462 11 20462 11 20462 13	20462 41 20462 47 20462 41	20853 65 20853 65	20853 63 20853 81
0238 05 0238 07 0238 19	20238 11 20238 11 20238 11 20238 11	20415 15 20415 15 20415 17	20415 56 20415 57 20415 60	20462 13 20462 15 20462 15	20462 47 20462 43 20462 47	20864 00 20922 15	20864 10 20922 21
0321 00 0321 00	20321 11 20321 21	20415 19 20415 21 20415 21 20415 21 20415 25	20415 63 20415 66 20415 67 20415 72	20462 17 20462 17	20462 43 20462 47	20922 15 20922 17 20922 18 20922 19	20922 21 20922 21 20922 22 20922 22
0321 00 0321 00 0321 00 0321 00 0321 00	20321 31 20321 51 20321 71 20321 98	20415 25 20415 86 20415 88 20415 88 20415 89 20415 92	20415 74 20415 87 20415 87 20415 87 20415 87 20415 93	20489 41 2048A 12	20489 00 2048A 13	20923 21 20923 21 20923 21 20923 21 20923 23	20923 24 20923 31 20923 33 20923 25
0323 71 0323 71	20323 73 20323 74	20415 95	20415 93	2048A 19	2048A 13	20923 23 20923 26 20923 27 20923 29	20923 35 20923 31 20923 33 20923 33
0324 63 0324 63	20324 61 20324 62	20416 13 20416 13	20416 11 20416 23	20511 21 20511 22 20511 27 20511 29 20511 31	20511 11 20511 11 20511 13 20511 13 20511 15	20925 27 20925 28 20925 29 20925 29 20925 30	20925 31 20925 31 20925 35 20925 32
0331 59 0331 59 0331 59	20331 18 20331 31 20331 97	20431 20431 01 20431 03 20431 05 20431 07 20431 09	20430 20430 11 20430 11 20430 12 20430 12 20430 12 20430 15	20511 31 20511 33 20511 35 20511 37 20511 41 20511 42	20511 15 20511 15 20511 17 20511 17 20511 28 20511 28	20952 00 20952 00 20952 00 20952 00 20952 00	20952 11 20952 14 20952 17 20952 19
0332 98 0332 98 0332 98	20332 58 20332 73 20332 99	20431 09 20431 11 20431 13 20431 16 20431 18 20431 19	20430 15 20430 17 20430 17 20430 17 20430 21 20430 21	20512 30 20512 31	20512 33 20512 33	20980 01 20980 02 20980 03 20980 03 20980 04	20980 21 20980 21 20980 21 20980 21 20980 31
0336 67 0336 67 0336 67	20336 61 20336 63 20336 65	20431 19	20430 21	20512 43 20512 44 20512 50 20512 51	20512 35 20512 35 20512 36 20512 36	20980 05 20980 06 20999 43	20980 31 20980 31 20999 41
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Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1674 [APS_PPGB_C_BROOKS] APS-PPGB 1/ 6/95 8:07 AM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 1 TSF:TIPS92-08064702.DAT;1 1/ 6/95 08:06:54 UTF:TIPS93-08064702.DAT;1 1/ 6/95 08:06:55 META:TIPS96-08064702.DAT;1 1/ 6/95 08:07:40

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2013B 19	2013B 17	20382 51 20382 51 20382 51 20382 51	20382 45 20382 47 20382 49	20450 93 20450 93	20450 92 20450 95	20752 32 20752 98	20752 97 20752 97
2013B 19	2013B 18	20382 53 20382 53 20382 53	20382 37 20382 38 20382 38 20382 39	20461 17 20461 19	20461 18 20461 23	20791 81 20791 81	20791 83 20791 85
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20224 21 20224 21	20224 11 20224 13			20461 37	20461 29	20851 13 20851 19	20851 15 20851 15
20238 11	20238 01	20415 51 20415 52 20415 53	20415 11 20415 11 20415 13	20462 41 20462 41 20462 43	20462 11 20462 13 20462 15	20853 63 20853 81	20853 65 20853 65
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Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

Part 3. Current Industrial Reports by Product Code

[Not applicable for this report]

C-2 APPENDIX C

Publication Program

1992 CENSUS OF MANUFACTURES

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

Preliminary Reports

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

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

Final Reports

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

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

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

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

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

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

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

Reference series—1 report (MC92-R-1)

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

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

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

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

Exports From Manufacturing Establishments (AR92-1)

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

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

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

Electronic Media

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

OTHER ECONOMIC CENSUSES REPORTS

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