Mining Machinery and Equipment Manufacturing

1997

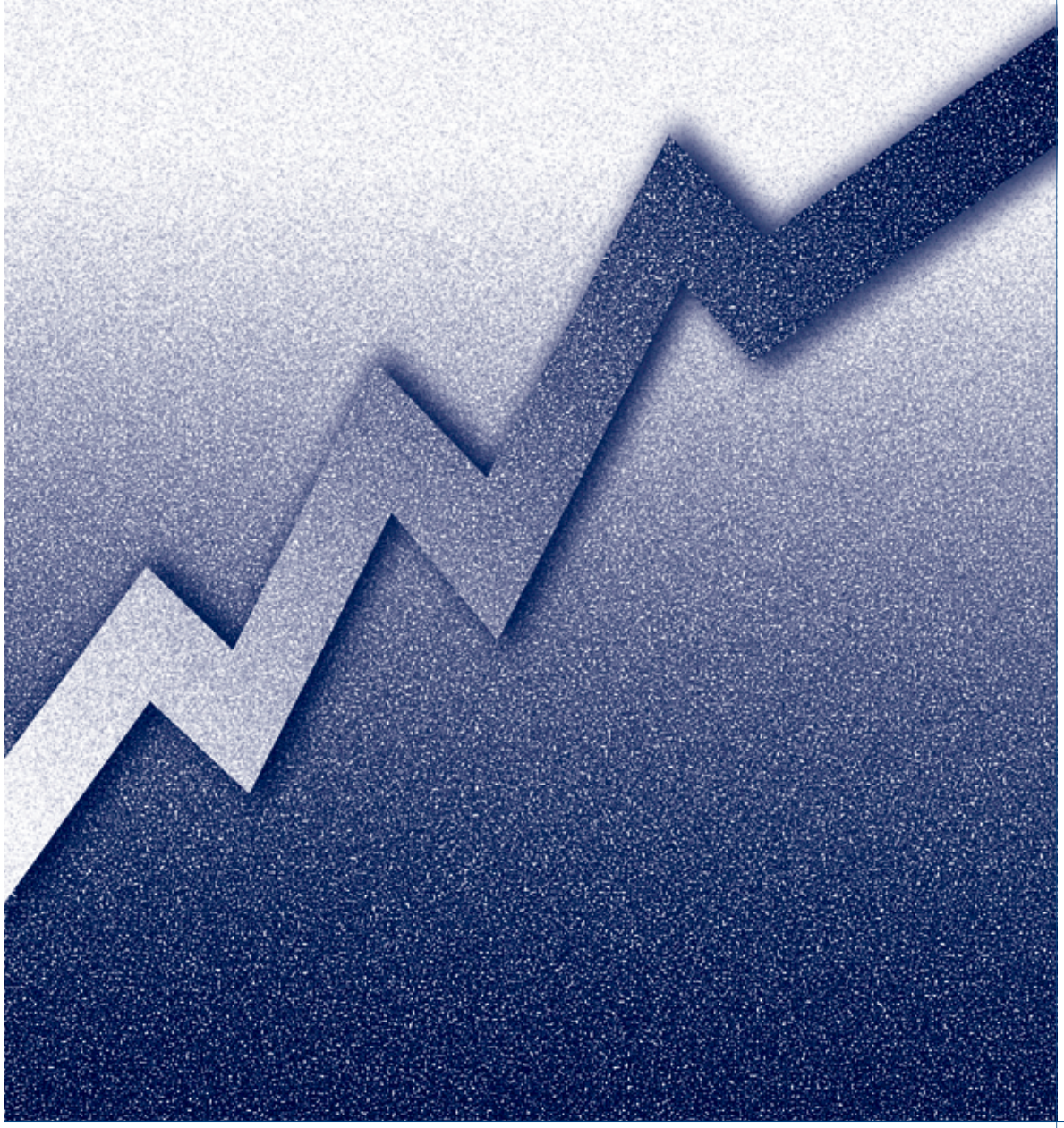
Issued November 1999

EC97M-3331D

1997 Economic Census

Manufacturing

Industry Series



USCENSUSBUREAU

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

ACKNOWLEDGMENTS

The staff of the Manufacturing and Construction Division prepared this report. **Judy M. Dodds,** Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination. **Kenneth Hansen,** Chief, Manufactured Durables Branch, assisted by **Mike Brown, Renee Coley, Raphael Corrado,** and **Milbren Thomas,** Section Chiefs, **Michael Zampogna,** Former Chief, Manufactured Nondurables Branch, assisted by **Allen Foreman, Robert Miller, Robert Reinard,** and **Nat Shelton,** Section Chiefs, and **Tom Lee, Robert Rosati,** and **Tom Flood,** Special Assistants, performed the planning and implementation. **Stephanie Angel, Brian Appert, Stanis Batton, Carol Beasley, Chris Blackburn, Larry Blumberg, Vera Harris-Bourne, Brenda Campbell, Suzanne Conard, Vance Davis, Mary Ellickson, Matt Gaines, Merry Glascoe, Kay Hanks, Karen Harshbarger, Nancy Higgins, James Hinckley, Walter Hunter, Jim Jamski, Evelyn Jordan, Robert Lee, John Linehan, Paul Marck, Keith McKenzie, Philippe Morris, Joanna Nguyen, Betty Pannell, Joyce Pomeroy, Venita Powell, Cynthia Ramsey, Chris Savage, Aronda Stovall, Sue Sundermann, Thanos Theodoropoulos, Dora Thomas, Ann Truffa, Ronanne Vinson, Keeley Voor, Denneth Wallace, Tempie Whittington, Lissene Witt,** and **Mike Yamaner** provided primary staff assistance.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole,** Chief, Manufacturing Programs Methodology Branch, and **Robert Struble,** Section Chief, provided the mathematical and statistical techniques as well as the coverage operations. **Jeffrey Dalzell** and **Cathy Ritenour** provided primary staff assistance.

Mendel D. Gayle, Chief, Forms, Publications, and Customer Services Branch, assisted by **Julius Smith Jr.** and **Baruti Taylor,** Section Chiefs, performed overall coordination of the publication process. **Kim Credito, Patrick Duck, Chip Murph, Wanda Sledd,** and **Veronica White** provided primary staff assistance.

The Economic Planning and Coordination Division, **Lawrence A. Blum,** Assistant Chief for Collection Activities and **Shirin A. Ahmed,** Assistant Chief for Post-Collection Processing, assisted by **Dennis Shoemaker,** Chief, Post-Collection Census Processing Branch, **Brandy Yarbrough,** Section Chief, **Sheila Proudfoot, Richard Williamson, Andrew W. Hait,** and **Jennifer E. Lins,** was responsible for developing the systems and procedures for data collection, editing, review, correction and dissemination

The staff of the National Processing Center, **Judith N. Petty,** Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler Jr.,** Chief, developed and coordinated the computer processing systems. **Martin S. Harahush,** Assistant Chief for Quinquennial Programs, assisted by **Barbara Lambert** and **Christina Arledge** were responsible for design and implementation of the computer systems. **Gary T. Sheridan,** Chief, Manufacturing and Construction Branch, **Lori A. Guido** and **Roy A. Smith**, Section Chiefs, supervised the preparation of the computer programs.

Computer Services Division, **Debra Williams,** Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom,** Chief, performed planning, design, composition, editorial review, and printing planning and procurement for publications, Internet products, and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Mining Machinery and Equipment Manufacturing 1997

Issued November 1999

EC97M-3331D

1997 Economic Census

Manufacturing

Industry Series

U.S. Department of Commerce
William M. Daley,
Secretary

Robert L. Mallett,
Deputy Secretary

Economics and Statistics Administration
Robert J. Shapiro,
Under Secretary for Economic Affairs

U.S. CENSUS BUREAU
Kenneth Prewitt,
Director

Economics and Statistics Administration

Robert J. Shapiro,
Under Secretary
for Economic Affairs

U.S. CENSUS BUREAU

Kenneth Prewitt,
Director

William G. Barron,
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

William G. Bostic Jr.,
Chief, Manufacturing
and Construction Division

CONTENTS

-- Not applicable for this report.

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

- Policymaking agencies of the Federal Government use the data to monitor economic activity and assess the effectiveness of policies.
- 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, which allows them to 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.

ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Foodservices
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

RELATIONSHIP TO SIC

While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from Internal Revenue Service tax forms is used as a basis for coding.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

All results of the 1997 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

Special Tabulations

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries 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) that govern 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 of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

Manufacturing and Construction Division	301-457-4673
Service Sector Statistics Division	301-457-2668

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components 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 the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some covering service trades in 1933. Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

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 range of industries covered in the economic censuses expanded between 1967 and 1992. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity.

Printed statistical reports from the 1992 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 reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

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 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census data:

A	Standard error of 100 percent or more.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.
N	Not available or not comparable.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.
V	Represents less than 50 vehicles or .05 percent.
X	Not applicable.
Y	Disclosure withheld because of insufficient coverage of merchandise lines.
Z	Less than half the unit shown.
a	0 to 19 employees.
b	20 to 99 employees.
c	100 to 249 employees.
e	250 to 499 employees.
f	500 to 999 employees.
g	1,000 to 2,499 employees.
h	2,500 to 4,999 employees.
i	5,000 to 9,999 employees.
j	10,000 to 24,999 employees.
k	25,000 to 49,999 employees.
l	50,000 to 99,999 employees.
m	100,000 employees or more.
p	10 to 19 percent estimated.
q	20 to 29 percent estimated.
r	Revised.
s	Sampling error exceeds 40 percent.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
(CC)	Consolidated city.
(IC)	Independent city.

This page is intentionally blank.

Manufacturing

SCOPE

The 1997 Economic Census – Manufacturing covers all manufacturing establishments with one or more paid employees. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and typically use power-driven machines and materials-handling equipment. Also included in the manufacturing sector are some establishments that make products by hand, like custom tailors and the makers of custom draperies. While manufacturers typically do not sell to the public, some establishments like bakeries and candy stores that make products on the premises may be included.

While logging and publishing are no longer in the scope of manufacturing, data for these industries are included in the manufacturing industry reports, but are not included in the manufacturing state, summary, and other reports.

GENERAL

This report, from the 1997 Economic Census – Manufacturing, is one of a series of 480 industry reports and 51 geographic area reports, each of which provides statistics for individual industries or states, respectively. Seven of the industry reports are for industries no longer in the manufacturing sector but are included with manufacturing for the 1997 census year. Also included for this sector are General, Product, and Materials Consumed Summary reports, a special report on Concentration Ratios in Manufacturing, and data files on Location of Manufacturing Plants.

Each industry report presents data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in Appendix B. These reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, capital expenditures, etc. Explanations of these and other terms may be found in Appendix A. The industry reports also include data for states with 100 employees or more in the industry.

State reports, which include the District of Columbia, present similar statistics at the "all manufacturing" level for each state and its metropolitan areas (MAs) with 250 employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

The General Summary report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.

The Products and Materials Consumed reports summarize the products and materials data published in the industry reports. The Product Summary report also includes data from the Current Industrial Reports (CIR) and a special table with data for products that are primary to more than one industry, which are not in the industry reports.

The Concentration Ratios report publishes data on the percentage of value of shipments accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Hirschmann-Herfindahl Indexes for each industry.

The Location of Manufacturing data files contain statistics on the number of establishments for the three- and six-digit NAICS industry by state, county, place, and ZIP Code by employment-size of the establishment.

GEOGRAPHIC AREAS COVERED

Statistics at the six-digit NAICS industry level are shown for states and the District of Columbia in both the state and industry reports for cells with 100 employees or more.

The state reports also include data at the "all manufacturing" level for a variety of geographies that meet the employment criteria.

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the

component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

The state reports include data for counties with 500 employees or more. These are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Maryland, Missouri, Nevada, and Virginia have one or more places that are independent of county organizations. These places are treated as counties and places. The counties and places are defined as of January 1, 1997.

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, semi-independent municipalities, special economic urban areas (SEUAs), or other place equivalents.

The state reports also include data for consolidated cities with 500 employees or more. Consolidated cities are made up of separately incorporated municipalities.

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) has had a major impact on the comparability of data between the 1992 and 1997 censuses. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past. If industries are not comparable between the two censuses, historic data are not shown. When applicable, Appendix G shows the product class and product comparability between the two systems.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing.

Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

DISCLOSURE

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

The disclosure analysis for the industry statistics files 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 capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 58,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data.

In addition to the ASM, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

Table 1. **Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997**

[NAICS codes appear in bold type. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS or SIC code	Industry	Companies[1]	All establishments[2]	All employees		Production workers			Value added by manufacture ($1,000)	Cost of materials ($1,000)	Value of shipments ($1,000)	Total capital expenditures ($1,000)
				Number	Payroll ($1,000)	Number	Hours (1,000)	Wages ($1,000)				
333131	**Mining machinery & equipment mfg**	**263**	**291**	**13 224**	**475 112**	**8 905**	**18 479**	**265 746**	**1 345 661**	**1 325 875**	**2 641 739**	**62 405**
353200	Mining machinery	N	291	13 224	475 112	8 905	18 479	265 746	1 345 661	1 325 875	2 641 739	62 405

[1]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
[2]Includes establishments with payroll at any time during the year.

Table 2. **Industry Statistics for Selected States: 1997**

[States that are disclosures or with less than 100 employees are not shown. For explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E[1]	All establishments		All employees		Production workers			Value added by manufacture ($1,000)	Cost of materials ($1,000)	Value of shipments ($1,000)	Total capital expenditures ($1,000)
		Total	With 20 employees or more	Number	Payroll ($1,000)	Number	Hours (1,000)	Wages ($1,000)				
333131, MINING MACHINERY & EQUIPMENT MFG												
United States	**2**	**291**	**129**	**13 224**	**475 112**	**8 905**	**18 479**	**265 746**	**1 345 661**	**1 325 875**	**2 641 739**	**62 405**
Alabama	2	4	2	112	3 305	76	174	1 859	6 759	6 993	13 739	352
California	2	14	6	312	10 185	194	360	5 519	24 101	38 330	62 605	611
Illinois	–	18	8	662	23 558	482	880	15 299	90 708	46 943	130 236	2 657
Ohio	4	15	8	582	19 846	442	889	13 164	66 106	43 779	110 490	2 062
Pennsylvania	3	27	16	2 821	111 992	1 673	3 585	56 276	308 715	407 771	703 377	13 355
Texas	–	17	5	474	18 940	314	595	7 525	49 554	33 868	82 019	2 240
West Virginia	4	38	19	1 235	49 113	916	1 941	28 593	112 822	114 204	223 394	5 082

* Hawaii has no incorporated places in the sense of functioning governmental units; however, in agreement with Hawaiian law, the Bureau of the Census reports data for census designated places (CDPs) which have been designated as place equivalents. Those CDPs, only for the state of Hawaii, with 2,500 or more population are recognized.

[1]Some payroll and sales data for 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 statistics 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 where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Table 3. **Detailed Statistics by Industry: 1997**

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

Item	Value
333131, MINING MACHINERY & EQUIPMENT MFG	
Companies[1] ..... number..	263
All establishments ..... number..	291
Establishments with 1 to 19 employees ..... number..	162
Establishments with 20 to 99 employees ..... number..	95
Establishments with 100 employees or more ..... number..	34
All employees ..... number..	13 224
Total compensation[2] ..... $1,000..	601 656
Annual payroll ..... $1,000..	475 112
Total fringe benefits ..... $1,000..	126 544
Production workers, average for year ..... number..	8 905
Production workers on March 12 ..... number..	8 795
Production workers on May 12 ..... number..	8 936
Production workers on August 12 ..... number..	8 899
Production workers on November 12 ..... number..	8 990
Production-worker hours ..... 1,000..	18 479
Production-worker wages ..... $1,000..	265 746
Total cost of materials ..... $1,000..	1 325 875
Cost of materials, parts, containers, etc., consumed ..... $1,000..	1 114 221
Cost of resales ..... $1,000..	151 168
Cost of fuels ..... $1,000..	6 520
Cost of purchased electricity ..... $1,000..	15 792
Cost of contract work ..... $1,000..	38 174
Quantity of electricity purchased for heat and power ..... 1,000 kWh..	268 836
Quantity of electricity generated less sold for heat and power ... 1,000 kWh..	–
Total value of shipments ..... $1,000..	2 641 739
Primary products value of shipments ..... $1,000..	2 099 730
Secondary products value of shipments ..... $1,000..	271 625
Total miscellaneous receipts ..... $1,000..	270 384
Value of resales ..... $1,000..	214 849
Contract receipts ..... $1,000..	2 624
Other miscellaneous receipts ..... $1,000..	52 911
Primary products specialization ratio ..... percent..	88
Value of primary products shipments made in all industries ..... $1,000..	2 965 584
Value of primary products shipments made in this industry ..... $1,000..	2 099 730
Value of primary products shipments made in other industries ..... $1,000..	865 854
Coverage ratio ..... percent..	70

Item	Value
333131, MINING MACHINERY & EQUIPMENT MFG —Con.	
Value added ..... $1,000..	1 345 661
Total inventories, beginning of year ..... $1,000..	559 054
Finished goods inventories, beginning of year ..... $1,000..	305 268
Work-in-process inventories, beginning of year ..... $1,000..	117 859
Materials and supplies inventories, beginning of year ..... $1,000..	135 927
Total inventories, end of year ..... $1,000..	584 442
Finished goods inventories, end of year ..... $1,000..	326 427
Work-in-process inventories, end of year ..... $1,000..	126 497
Materials and supplies inventories, end of year ..... $1,000..	131 518
Gross book value of total assets at beginning of year ..... $1,000..	633 099
Total capital expenditures (new and used) ..... $1,000..	62 405
Capital expenditures for buildings and other structures (new and used) ..... $1,000..	11 257
Capital expenditures for machinery and equipment (new and used) ..... $1,000..	51 148
Total retirements[2] ..... $1,000..	17 415
Gross book value of total assets at end of year ..... $1,000..	678 089
Total depreciation during year[2] ..... $1,000..	42 198
Total rental payments[2] ..... $1,000..	15 151
Buildings and other structures rental payments[2] ..... $1,000..	5 545
Machinery and equipment rental payments[2] ..... $1,000..	9 606
Cost of purchased services for the repair of buildings and other structures[3] ..... $1,000..	1 660
Response coverage ratio[4] ..... percent..	77
Cost of purchased services for the repair of machinery and equipment[3] ..... $1,000..	10 676
Response coverage ratio[4] ..... percent..	77
Cost of purchased communications services[3] ..... $1,000..	4 123
Response coverage ratio[4] ..... percent..	77
Cost of purchased legal services[3] ..... $1,000..	2 389
Response coverage ratio[4] ..... percent..	77
Cost of purchased accounting and bookkeeping services[3] ..... $1,000..	1 636
Response coverage ratio[4] ..... percent..	77
Cost of purchased advertising services[3] ..... $1,000..	3 275
Response coverage ratio[4] ..... percent..	77
Cost of purchased software and other data processing services[3] ..... $1,000..	3 553
Response coverage ratio[4] ..... percent..	77
Cost of purchased refuse removal (including hazardous waste) services[3] ..... $1,000..	1 057
Response coverage ratio[4] ..... percent..	77

[1]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
[2]These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table.
[3]Based on ASM sample data.
[4]A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies.

Table 4. **Industry Statistics by Employment Size: 1997**

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

Employment size class	E[1]	All establishments		All employees		Production workers			Value added by manufacture ($1,000)	Cost of materials ($1,000)	Value of shipments ($1,000)	Total capital expenditures ($1,000)
		Total	With 20 employees or more	Number	Payroll ($1,000)	Number	Hours (1,000)	Wages ($1,000)				
333131, MINING MACHINERY & EQUIPMENT MFG												
All establishments	**2**	**291**	**129**	**13 224**	**475 112**	**8 905**	**18 479**	**265 746**	**1 345 661**	**1 325 875**	**2 641 739**	**62 405**
Establishments with 1 to 4 employees	9	76	–	171	4 387	130	211	3 050	13 133	13 786	26 815	1 163
Establishments with 5 to 9 employees	6	40	–	272	8 942	203	367	5 319	23 055	20 534	43 262	1 179
Establishments with 10 to 19 employees	2	46	–	652	18 672	465	852	11 028	46 077	46 285	92 344	2 483
Establishments with 20 to 49 employees	2	63	63	1 982	62 670	1 394	2 993	36 562	142 428	156 719	296 421	7 514
Establishments with 50 to 99 employees	1	32	32	2 254	76 374	1 450	3 029	40 095	178 425	188 092	364 276	6 157
Establishments with 100 to 249 employees	2	25	25	3 735	130 708	2 588	5 268	74 350	359 705	331 582	688 822	18 897
Establishments with 250 to 499 employees	–	7	7	D	D	D	D	D	D	D	D	D
Establishments with 500 to 999 employees	–	1	1	D	D	D	D	D	D	D	D	D
Establishments with 1,000 to 2,499 employees	9	1	1	D	D	D	D	D	D	D	D	D
Establishments with 2,500 employees or more	–	–	–	–	–	–	–	–	–	–	–	–
Administrative records[2]	9	99	–	429	10 531	332	498	7 319	30 364	33 304	63 440	1 288

[1]Some payroll and sales data for 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 statistics 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 where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

[2]Some payroll and sales data for 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 statistics for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry Statistics by Industry and Primary Product Class Specialization: 1997**

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

NAICS industry or product class code	Industry or primary product class	All establishments	All employees		Production workers			Value added by manufacture ($1,000)	Cost of materials ($1,000)	Value of shipments ($1,000)	Total capital expenditures ($1,000)
			Number	Payroll ($1,000)	Number	Hours (1,000)	Wages ($1,000)				
333131	**Mining machinery & equipment mfg**	**291**	**13 224**	**475 112**	**8 905**	**18 479**	**265 746**	**1 345 661**	**1 325 875**	**2 641 739**	**62 405**
3331311	Underground mining machinery (except parts sold separately)	41	4 078	155 915	2 639	5 487	83 647	311 892	506 420	817 229	19 608
3331313	Mineral processing and beneficiation machinery (except parts sold separately)	8	705	26 445	499	1 131	15 450	55 709	41 333	96 682	2 305
3331315	Crushing, pulverizing, and screening machinery (excluding portable combination plants), except parts sold separately	22	2 407	95 536	1 576	3 404	54 143	339 437	246 603	569 817	12 262
3331317	Drills and other mining machinery, nec (except parts sold separately)	15	1 151	38 338	785	1 694	24 579	150 244	139 681	283 079	4 769
3331319	Parts and attachments for mining machinery and equipment (sold separately)	72	3 763	129 522	2 528	5 347	67 705	401 322	290 808	686 613	19 658

Table 6a. **Products Statistics: 1997 and 1992**

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

NAICS product code	Product	1997				1992			
		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value ($1,000)			Quantity	Value ($1,000)
333131	**Mining machinery**	**N**	**X**	**X**	**2 965 584**	**N**	**X**	**X**	**1 416 930**
3331311	Underground mining machinery (except parts sold separately) @	N	X	X	680 836	N	X	X	328 496
33313110	Underground mining machinery (except parts sold separately)	N	X	X	680 836	N	X	X	N
3331311000	Underground mining machinery (except parts sold separately)	40	X	X	680 836	36	X	X	328 496
3331313	Mineral processing and beneficiation machinery (except parts sold separately)	N	X	X	633 663	N	X	X	76 609
33313131	Mineral processing and beneficiation machinery (except parts sold separately)	N	X	X	633 663	N	X	X	N
3331313100	Mineral processing and beneficiation machinery (except parts sold separately)	14	X	X	633 663	28	X	X	76 609
3331315	Crushing, pulverizing, and screening machinery (excluding portable combination plants), except parts sold separately @	N	X	X	482 132	N	X	X	191 005
33313150	Crushing, pulverizing, and screening machinery (excluding portable combination plants), except parts sold separately	N	X	X	482 132	N	X	X	N
3331315000	Crushing, pulverizing, and screening machinery (excluding portable combination plants), except parts sold separately	37	X	X	482 132	42	X	X	191 005
3331317	Drills and other mining machinery, nec (except parts sold separately) @	N	X	X	236 906	N	X	X	142 190
33313170	Drills and other mining machinery, nec (except parts sold separately)	N	X	X	236 906	N	X	X	N
3331317000	Drills and other mining machinery, nec (except parts sold separately)	22	X	X	236 906	28	X	X	142 190
3331319	Parts and attachments for mining machinery and equipment (sold separately)	N	X	X	786 398	N	X	X	609 572
33313191	Mining drill bits with working part of sintered metal carbide or cermets, and base metal thereof	N	X	X	322 366	N	X	X	N
3331319101	Percussion rock mining drill bits, with working part of sintered metal carbide or cermets, and base metal parts thereof	10	X	X	40 412	N	X	X	N
3331319106	Rock mining drill bits other than percussion, with working part of sintered metal carbide or cermets, and base metal parts thereof	15	X	X	239 764	12	X	X	94 204
3331319111	Other mining drill bits with working part of sintered metal carbide or cermets, and base metal thereof	11	X	X	42 190	15	X	X	70 986
33313192	Drill bits not having a working part of sintered metal carbide or cermets, and base metal parts thereof	N	X	X	8 758	N	X	X	N
3331319216	Drill bits not having a working part of sintered metal carbide or cermets, and base metal parts thereof	4	X	X	8 758	N	X	X	N
33313193	Parts and attachments for mining machinery and equipment (except drill bits) for underground mining vehicles	N	X	X	68 058	N	X	X	N
3331319321	Parts and attachments for mining machinery and equipment (except drill bits) for underground mining vehicles	31	X	X	68 058	N	X	X	N
33313194	Parts and attachments for mining machinery and equipment (except drill bits) for minerals crushing, grinding, sorting, separating, or washing machines	N	X	X	164 088	N	X	X	N
3331319426	Parts and attachments for mining machinery and equipment (except drill bits) for minerals crushing, grinding, sorting, separating, or washing machines	26	X	X	164 088	N	X	X	N
33313195	Parts and attachments for mining machinery and equipment (except drill bits) for lifting, handling, loading, or unloading machinery for underground mines	N	X	X	22 521	N	X	X	N
3331319531	Parts and attachments for mining machinery and equipment (except drill bits) for lifting, handling, loading, or unloading machinery for underground mines	6	X	X	22 521	N	X	X	N

See footnotes at end of table.

Table 6a. **Products Statistics: 1997 and 1992**—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 meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS product code	Product	1997				1992			
		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value ($1,000)			Quantity	Value ($1,000)
333131	**Mining machinery**—Con.								
3331319	Parts and attachments for mining machinery and equipment (sold separately)—Con.								
33313196	Parts and attachments for mining machinery and equipment (except drill bits) for boring or sinking machinery other than coal or rock cutters and tunneling machinery	N	X	X	7 260	N	X	X	N
3331319636	Parts and attachments for mining machinery and equipment (except drill bits) for boring or sinking machinery other than coal or rock cutters and tunneling machinery	5	X	X	7 260	N	X	X	N
33313197	Parts and attachments for mining machinery and equipment (except drill bits) for other mining machinery, nec	N	X	X	141 560	N	X	X	N
3331319744	Parts and attachments for mining machinery and equipment (except drill bits) for other mining machinery, nec	38	X	X	141 560	N	X	X	N
3331319Y	Parts and attachments for mining machinery and equipment (sold separately), nsk	N	X	X	51 787	N	X	X	N
3331319YWV	Parts and attachments for mining machinery and equipment (sold separately), nsk	N	X	X	51 787	N	X	X	46 202
333131W	Mining machinery, nsk, total	N	X	X	145 649	N	X	X	69 058
333131WY	Mining machinery, nsk, total	N	X	X	145 649	N	X	X	N
333131WYWW	Mining machinery, nsk for nonadministrative-record establishments	N	X	X	82 837	N	X	X	21 880
333131WYWY	Mining machinery, nsk, for administrative-record establishments	N	X	X	62 812	N	X	X	47 178

Additional information is available for this item; see Appendix F.
@ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.
$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Note: For 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: [p] 10 to 19 percent estimated; [q] 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Table 6b. **Product Class Shipments for Selected States: 1997 and 1992**

[Product classes covered are those that are economically significant and whose production is 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 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class code	Product class and geographic area	Value of product shipments ($1,000)	
		1997	1992
3331311	**UNDERGROUND MINING MACHINERY (EXCEPT PARTS SOLD SEPARATELY) @**		
	United States	**680 836**	**328 496**
	Michigan	23 013	N
	Virginia	91 060	52 633
	West Virginia	53 813	49 207
3331313	**MINERAL PROCESSING AND BENEFICIATION MACHINERY (EXCEPT PARTS SOLD SEPARATELY)**		
	United States	**633 663**	**76 609**
3331315	**CRUSHING, PULVERIZING, AND SCREENING MACHINERY (EXCLUDING PORTABLE COMBINATION PLANTS), EXCEPT PARTS SOLD SEPARATELY @**		
	United States	**482 132**	**191 005**
	Ohio	13 680	N
	Wisconsin	105 766	37 469
3331317	**DRILLS AND OTHER MINING MACHINERY, NEC (EXCEPT PARTS SOLD SEPARATELY) @**		
	United States	**236 906**	**142 190**

See footnotes at end of table.

Table 6b. **Product Class Shipments for Selected States: 1997 and 1992**—Con.

[Product classes covered are those that are economically significant and whose production is 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 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class code	Product class and geographic area	Value of product shipments ($1,000)	
		1997	1992
3331319	**PARTS AND ATTACHMENTS FOR MINING MACHINERY AND EQUIPMENT (SOLD SEPARATELY)**		
	United States	**786 398**	**609 572**
	California	14 086	8 380
	Illinois	46 829	13 748
	Indiana	7 071	12 751
	Kentucky	37 963	32 053
	Michigan	25 751	10 294
	Missouri	14 531	16 358
	Ohio	81 342	40 134
	Pennsylvania	47 124	63 305
	Texas	65 256	54 951
	Virginia	82 449	79 065
	West Virginia	25 132	21 334
	Wisconsin	86 747	60 869

Additional information is available for this item; see Appendix F.
@ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.
$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Table 7. **Materials Consumed by Kind: 1997 and 1992**

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

NAICS material code	Material consumed	1997		1992	
		Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)
333131	**MINING MACHINERY & EQUIPMENT MFG**				
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	14 049	X	10 971
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	43 836	X	14 462
33291203	Fluid power hose or tube fittings and assemblies (hydraulic and pneumatic)	X	4 974	X	6 087
33291207	Fluid power valves (hydraulic and pneumatic)	X	17 797	X	9 070
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	16 301	X	7 129
33200099	Fabricated structural metal products (except forgings)	X	109 488	X	27 655
33290009	Fabricated metal wire products (including wire rope, cable, springs, etc.)	X	19 092	X	8 598
332000AC	Metal stampings	X	844	X	N
33200065	All other fabricated metal products (except forgings)	X	13 653	X	N
33210001	Forgings	X	70 537	X	N
33151001	Iron and steel castings (rough and semifinished)	X	109 041	X	53 842
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	D	X	N
33120007	Steel bars, bar shapes, and plates (except castings, forgings, and fabricated metal products)	X	91 720	X	52 287
33120017	Steel sheet and strip, including tin plate	X	30 054	X	7 749
33120019	Steel structural shapes and sheet piling (except castings, forgings, and fabricated metal products)	X	22 254	X	4 887
33120091	All other steel shapes and forms (except castings, forgings, and fabricated metal products)	X	D	X	7 234
331000AJ	Nonferrous shapes and forms (except castings, forgings, and fabricated metal products)	X	1 133	X	N
33361809	Engines (diesel, semidiesel, gasoline, and other carburetor)	X	25 308	X	N
33531201	Electric motors and generators	X	57 535	X	N
33299105	Ball bearings (mounted or unmounted)	X	5 879	X	6 991
33299103	Roller bearings (mounted or unmounted)	X	17 296	X	12 523
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	45 338	X	27 963
32621001	Tires and inner tubes	X	3 688	X	N
32622001	Rubber and plastics hose and belting	X	6 598	X	5 636
32610007	Fabricated plastics products (except gaskets, hoses, and belting)	X	10 101	X	2 589
32551003	Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products	X	7 398	X	2 067
001900B1	Electrical transmission, distribution, and control equipment	X	18 456	X	N
00970099	All other materials and components, parts, containers, and supplies	X	158 456	X	N
00971000	Materials, ingredients, containers, and supplies, n.s.k.	X	161 706	X	116 165

Additional information is available for this item; see Appendix F.

Note: For 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: [p] 10 to 19 percent estimated; [q] 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Appendix A. Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

Respondents were asked to report their beginning-of-year and 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). Beginning 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.

Inventory Data by Stage of Fabrication

Total inventories and three detailed components (1) finished goods, (2) work-in-process, and (3) materials, supplies, fuels, etc., were collected.

When using inventory data by stage of fabrication for "all industries" and at the three-digit subsector 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 an 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 all publication levels.

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.

Included in this item are:

1. Cost of parts, components, containers, etc.—Includes 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. Cost of products bought and sold in the same condition.
3. Cost of fuels consumed for heat and power—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.
4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was 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.
5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

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. If less than $25,000 of a listed material was consumed by an establishment, the cost data could be reported in the "Cost of all other materials...," Census material code 00970099. Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the "Materials not specified by kind," Census materials code 00971000.

Duplication in Cost of Materials and Value of Shipment

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 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.

COST OF PURCHASED SERVICES

Annual Survey of Manufactures (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 reflects the costs paid directly by the establishment and excludes 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. 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 was capitalized is considered capital expenditures and is, 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.

Response Coverage Ratio

A response coverage ratio is a measure of the extent to which respondents report for an item. The estimate is made by calculating the ratio value of the weighted total employment data for all the ASM establishments that report the item to the weighted total employment data for all ASM establishments classified in an industry (reporters and non-reporters).

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.

EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The “all employees” number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production Workers

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

All Other Employees

This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It

includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, 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 utilized as a separate work force.

FRINGE BENEFITS

Fringe benefits 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.

GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. 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 capital expenditures, less retirements, equaled assets at the end of the year.

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.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. 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' total supplemental labor costs (those required by Federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

PRODUCT CODES AND CLASSES OF PRODUCTS

NAICS United States industries are identified by a six-digit code, in contrast to the four-digit SIC code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each

product or service is assigned a ten-digit code. The product coding structure represents an extension by the Census Bureau of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

NAICS level	NAICS code	Description
Industry	33461	Manufacturing and reproduction of magnetic and optical media
U.S. industry.	334612	Reproduction of software
Product class	3346120	Prerecorded compact disc (except software), tape, and record reproducing
BLS link code.	3346120X	
Product code	3346120XXX	

As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1997 census program, information was collected on the output of almost 10,000 individual product items.

In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products (ten-digit codes), and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

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 1992 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 (quantity produced and consumed) 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.

PRIMARY PRODUCT CLASS CODE

This file presents selected statistics for establishments according to their degree of specialization in products primary to their industry. This field contains either the six-digit North American Industrial Classification System (NAICS) industry code corresponding to all establishments in the industry, or the seven-digit NAICS product class code for all establishments within the industry that are specialized in a particular product class. Product class specialization is determined by evaluating the ratio of the largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment.

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.

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. 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.

RENTAL PAYMENTS

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

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

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

RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. 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.

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used 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.

Totals for expenditures include the costs of assets 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 land and cost of maintenance and repairs charged as current operating expenses.

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. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

VALUE ADDED

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, 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.

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 sold without further processing. Included are all items made by or for the establishments from material 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.

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment's value of product shipments:

1. Reported contract work—Receipts for work or services that a plant performed for others on their materials.
2. Value of resales—Sales of products brought and sold without further manufacture, processing, or assembly.
3. Other miscellaneous receipts—Such as repair work, installation, sales of scrap, etc.

Industry primary product value of shipments represents one of the three components of value of shipments. These components are:

1. Primary products value of shipments.
2. Secondary product value of shipments.
3. Total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio. The term "Value of primary products shipments made in this industry" is used in this publication and refers to the same data.

Duplication in Cost of Materials and Value of Shipment

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.

Specialization and Coverage Ratios

These items are not collected on the report forms but are derived from the data shown in Table 3. 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 5 and data on product shipments shown in Tables 6a and 6b.

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.

Appendix B.
NAICS Codes, Titles, and Descriptions

333131 MINING MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

Appendix C. Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. 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 (ASM). 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.

   Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that 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" (nsk) categories.

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

   Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, 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 appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as "All other" industries within the given subsector.

   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 establishments covered in the mail canvass were divided into three groups:

   a. ASM sample establishments.

      This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers 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. For more information, see the Description of the ASM Survey Sample.

In an economic census 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 additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 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 perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

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

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 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing 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 includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

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

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no "resistance rules" or "frozen industries."

In ASM years, establishments included in the ASM sample with certainty weights 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. 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 some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

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

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. 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 1997, 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.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least $500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

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

The particular sample selected for the ASM is one of many 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 theoretically comparable, complete-coverage values.

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

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

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

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

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

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during 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 moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, 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 the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E.
Metropolitan Areas

Not applicable for this report.

Appendix F.
Footnotes for Products Statistics and Materials Consumed by Kind

Part 1. **Products Statistics (Tables 6a and 6b)**

NAICS product code	Footnote
@3331311	For additional detail, see Current Industrial Report MA333F, Mining Machinery.
@3331315	For additional detail, see Current Industrial Report MA333F, Mining Machinery.
@3331317	For additional detail, see Current Industrial Report MA333F, Mining Machinery.

Part 2. **Materials Consumed by Kind (Table 7)**

Not applicable.

Appendix G. Comparability of Product Classes and Product Codes: 1997 to 1992

1997 published	1997 collected	1992 published
3331111	35231	35231
3331111000	3523100	3523100
3331113	35232 pt	35232 pt
3331113000	3523200 pt	3523200 pt
3331117	35233	35233
3331117000	3523300	3523300
3331119	35235	35235
3331119000	3523500	3523500
333111A	35236	35236
333111A000	3523600	3523600
333111C	35239	35239
333111C110	3523926	3523926
333111C220 pt	3523931	3523931
333111C220 pt	3523953	3523953
333111CYWV	3523900	3523900
333111E	3523C	3523C
333111E000	3523C00	3523C00
333111G	3523E pt	3523E pt
333111G000 pt	3523E00 pt	3523E00 pt
333111G000 pt	3523E89	3523E00 pt
333111J	3523F	3523F
333111J000	3523F00	3523F00
333111W	35230 pt	35230 pt
333111WYWW	3523000 pt	3523000 pt
333111WYWY	3523002 pt	3523002 pt
3331121	35241 pt	35241 pt
3331121000 pt	3524100 pt	3524100 pt
3331121000 pt	3524109	3524100 pt
3331123	35244	35244
3331123000	3524400	3524400
3331127	35246	35246
3331127000	3524600	3524600
333112W	35240 pt	35240 pt
333112WYWW	3524000 pt	3524000 pt
333112WYWY	3524002 pt	3524002 pt
3331201 pt	35315 pt	3531A
3331201 pt	35315 pt	3531B
3331201 pt	35314	3531C
3331201 pt	35311	3531E
3331201 pt	35312	3531F
3331201 pt	35316 pt	3531G pt
3331201 pt	35313	3531G pt
3331201 pt	3531G	3531G pt
3331201 pt	35317	3531N pt
3331201 pt	35316 pt	3531P pt
3331201110	3531100	3531E00
3331201220	3531200	3531F00
3331201330	3531300	3531G00 pt
3331201440	3531400	3531C00
3331201550 pt	3531500 pt	3531A00
3331201550 pt	3531500 pt	3531B00
3331201660 pt	3531600 pt	3531G00 pt
3331201660 pt	3531600 pt	3531P20
3331201770	3531700 pt	3531N00 pt
3331201YWV pt	3531G00	3531G00 pt
3331201YWV pt	3531700 pt	3531N00 pt
3331201YWV pt	3531600 pt	3531P00 pt
3331208	35318	3531P pt
3331208110	3531807	3531P70
3331208115	3531823	3531P85
3331208126	3531826	3531P06
3331208127	3531827	3531P07
3331208135	3531835	3531P11
3331208144	3531843	3531P25
3331208148	3531847	3531P22
3331208152	3531845	3531P24
3331208156	3531849	3531P27
3331208199 pt	3531899 pt	3531P74
3331208199 pt	3531899 pt	3531P77
3331208199 pt	3531899 pt	3531P82
3331208199 pt	3531899 pt	3531P97
3331208YWV	3531800	3531P00 pt
3331209	35319	3531M pt
3331209111	3531910	3531M03
3331209245	3531945	3531M01
3331209352	3531920	3531M05
3331209353	3531930	3531M07 pt
3331209366 pt	3531960 pt	3531M07 pt
3331209366 pt	3531960 pt	3531M21 pt
3331209377	3531970	3531M08 pt
3331209388	3531980	3531M21 pt
3331209YWV	3531900	3531M00 pt
333120W	35310 pt	35310 pt
333120WYWW	3531000 pt	3531000 pt
333120WYWY	3531002 pt	3531002 pt
3331311	35325	35325
3331311000	3532500	3532500
3331313	35326	35326
3331313100	3532600	3532600
3331315	35327	35327
3331315000	3532700	3532700
3331317	35328	35328
3331317000	3532800	3532800
3331319	35329	35329
3331319101	3532923	3532931 pt
3331319106	3532925	3532935
3331319111	3532927	3532942
3331319216	3532929	3532931 pt
3331319321	3532961	3532972 pt
3331319426	3532963	3532972 pt
3331319531	3532965	3532972 pt
3331319636	3532967	3532972 pt
3331319744	3532969	3532972 pt
3331319YWV	3532900	3532900
333131W	35320	35320
333131WYWW	3532000	3532000
333131WYWY	3532002	3532002
3331321	35337	35337
3331321101 pt	3533710 pt	3533711
3331321101 pt	3533710 pt	3533712
3331321101 pt	3533710 pt	3533714
3331321106	3533715	3533715
3331321111	3533716	3533716
3331321116	3533717	3533717
3331321122	3533721	3533721
3331321126	3533722	3533722
3331321131	3533723	3533723
3331321136 pt	3533730 pt	3533728
3331321136 pt	3533730 pt	3533732
3331321146	3533745	3533745
3331321151	3533747	3533747
3331321156	3533748	3533748
3331321166 pt	3533759 pt	3533744
3331321166 pt	3533759 pt	3533759
3331321271	3533761	3533761
3331321YWV	3533700	3533700
3331323	35338	35338
3331323101	3533831	3533831
3331323106	3533851	3533851
3331323111	3533855	3533855
3331323122	3533898	3533898
3331323226	3533899	3533899
3331323YWV	3533800	3533800
3331325	35339	35339
3331325101	3533912	3533912
3331325106	3533913	3533913
3331325111	3533914	3533914
3331325116	3533919	3533919
3331325121	3533921	3533921
3331325126	3533953	3533953
3331325133	3533955	3533955
3331325136	3533957	3533957
3331325141	3533961	3533961
3331325146	3533965	3533965
3331325151	3533971	3533971
3331325199	3533998	3533998
3331325256	3533982	3533982
3331325YWV	3533900	3533900
3331327	3533A	3533A
3331327101	3533A10	3533A10
3331327210	3533A78	3533A78
3331327YWV	3533A00	3533A00
3331329	3533B	3533B
3331329101	3533B21	3533B21
3331329106	3533B32	3533B32
3331329111	3533B34	3533B34
3331329YWV	3533B00	3533B00
333132W	35330	35330
333132WYWW	3533000	3533000
333132WYWY	3533002	3533002
3332103	35533	35533
3332103101	3553311	3553311
3332103106	3553313	3553313
3332103111	3553314	3553315 pt
3332103116	3553316	3553315 pt
3332103121	3553317	3553315 pt
3332103126	3553318	3553315 pt
3332103231	3553319	3553319
3332103236	3553321	3553321
3332103241	3553323	3553323
3332103246	3553325	3553325
3332103251	3553327	3553327
3332103256	3553329	3553329
3332103261	3553333	3553333
3332103266	3553334	3553334
3332103271	3553335	3553335
3332103276	3553337	3553337
3332103279	3553339	3553338 pt
3332103283	3553341	3553338 pt
3332103287	3553343	3553338 pt
3332103291	3553349	3553338 pt
3332103396	3553387	3553387
3332103YWV	3553300	3553300
3332105	35534	35534
3332105101	3553411	3553411
3332105211	3553412	3553412
3332105221	3553415	3553413 pt
3332105231	3553417	3553413 pt
3332105241	3553419	3553413 pt
3332105251	3553421	3553413 pt
3332105YWV	3553400	3553400
333210W	35530	35530
333210WYWW	3553000	3553000
333210WYWY	3553002	3553002
3332201	35593	35593
3332201106	3559303	3559303
3332201111	3559305	3559305
3332201116	3559307	3559307
3332201121	3559309	3559309
3332201201	3559301	3559301
3332201226	3559311	3559311
3332201231	3559313	3559313
3332201236	3559315	3559315
3332201341	3559317	3559317
3332201346	3559319	3559319
3332201351	3559321	3559321
3332201356	3559323	3559323
3332201361	3559324	3559325 pt
3332201366	3559326	3559325 pt
3332201371	3559328	3559325 pt
3332201476	3559342	3559341 pt
3332201481	3559344	3559341 pt
3332201486	3559346	3559341 pt
3332201YWV	3559300	3559300
3332203	35594	35594
3332203101	3559401	3559401
3332203106	3559403	3559403
3332203111	3559405	3559405
3332203116	3559407	3559407
3332203121	3559416	3559416
3332203226	3559425	3559425
3332203YWV	3559400	3559400
333220W	35590 pt	35590 pt
333220WYWW	3559000 pt	3559000 pt
333220WYWY	3559002 pt	3559002 pt
3332911	35543	35543
3332911101	3554317	3554301 pt
3332911106	3554319	3554301 pt
3332911111	3554302	3554302
3332911116	3554303	3554303
3332911121	3554304	3554304
3332911126	3554305	3554305
3332911131	3554309	3554309
3332911236	3554327	3554311 pt
3332911241	3554329	3554311 pt
3332911346	3554312	3554312
3332911351	3554313	3554313
3332911361	3554315	3554315
3332911456	3554314	3554314
3332911566	3554321	3554321
3332911571	3554322	3554322
3332911576	3554323	3554323
3332911581	3554324	3554324
3332911586	3554325	3554325
3332911591	3554337	3554326 pt

1997 published	1997 collected	1992 published
3332911596	3554339	3554326 pt
3332911YWV	3554300	3554300
3332913	35544	35544
3332913101	3554401	3554401
3332913211	3554402	3554402
3332913321	3554403	3554403
3332913431	3554404	3554404
3332913541	3554405	3554405
3332913YWV	3554400	3554400
333291W	35540	35540
333291WYWW	3554000	3554000
333291WYWY	3554002	3554002
3332921 pt	35521	35521
3332921 pt	36992 pt	36992 pt
3332921101	3552115	3552115
3332921103	3552125	3552125
3332921106 pt	3552159 pt	3552136
3332921106 pt	3552159 pt	3552138
3332921106 pt	3552159 pt	3552139
3332921106 pt	3552159 pt	3552157 pt
3332921111	3552151	3552151
3332921116	3552153	3552153
3332921121	3552155	3552157 pt
3332921131	3552167	3552167
3332921136	3552171	3552171
3332921241	3552173	3552181 pt
3332921246	3552175	3552181 pt
3332921351	3552177	3552182 pt
3332921356	3552178	3552182 pt
3332921461	3699241	3699200 pt
3332921462	3552183	3552183
3332921476	3552187	3552187
3332921566	3552184	3552186 pt
3332921571	3552185	3552186 pt
3332921681	3552190	3552198 pt
3332921686	3552193	3552198 pt
3332921691	3552199	3552198 pt
3332921YWV pt	3552100	3552100
3332921YWV pt	3699200 pt	3699200 pt
3332923	35522	35522
3332923101	3552205	3552211 pt
3332923106	3552207	3552211 pt
3332923111	3552209	3552211 pt
3332923216	3552222	3552222
3332923321	3552223	3552231 pt
3332923331	3552225	3552231 pt
3332923336	3552227	3552231 pt
3332923341	3552228	3552231 pt
3332923346	3552229	3552231 pt
3332923451	3552235	3552243 pt
3332923456	3552239	3552243 pt
3332923561	3552281	3552245 pt
3332923566	3552287	3552245 pt
3332923671	3552283	3552274 pt
3332923681	3552285	3552274 pt
3332923791	3552289	3552279
3332923YWV	3552200	3552200
333292W pt	35520	35520
333292W pt	36990 pt	36990 pt
333292WYWW pt	3552000	3552000
333292WYWW pt	3699000 pt	3699000 pt
333292WYWY pt	3552002	3552002
333292WYWY pt	3699002 pt	3699002 pt
3332931	35551	35551
3332931101	3555101	3555101
3332931111	3555103	3555103
3332931221	3555132	3555132
3332931331	3555133	3555133
3332931351	3555136	3555136
3332931441	3555135	3555135
3332931YWV	3555100	3555100
3332933 pt	35552	35552
3332933 pt	36992 pt	36992 pt
3332933101	3555203	3555203
3332933111	3555205	3555205
3332933221	3555211	3555209 pt
3332933231	3555213	3555209 pt
3332933241	3555215	3555209 pt
3332933251	3699243	3699200 pt
3332933261	3555219	3555209 pt
3332933YWV pt	3555200	3555200
3332933YWV pt	3699200 pt	3699200 pt
3332935	35553	35553
3332935101	3555305	3555300 pt
3332935151	3555309	3555300 pt
3332935YWV	3555300	3555300 pt
3332937	35556	35556
3332937101	3555661	3555661
3332937111	3555666	3555666
3332937121	3555667	3555667
3332937131	3555671	3555671
3332937141	3555673	3555673
3332937151	3555679	3555679
3332937YWV	3555600	3555600
3332939 pt	35558	35558
3332939 pt	36992 pt	36992 pt
3332939101	3555801	3555801
3332939111	3555815	3555811 pt
3332939121 pt	3555819 pt	3555803
3332939121 pt	3555819 pt	3555811 pt
3332939131	3699245	3699200 pt
3332939132	3555871	3555869 pt
3332939141	3555879	3555869 pt
3332939251	3555883	3555883
3332939361	3555885	3555885
3332939471	3555887	3555887
3332939581	3555891	3555891
3332939686	3555893	3555893
3332939791	3555899	3555899
3332939YWV pt	3555800	3555800
3332939YWV pt	3699200 pt	3699200 pt
333293W pt	35550	35550
333293W pt	36990 pt	36990 pt
333293WYWW pt	3555000	3555000
333293WYWW pt	3699000 pt	3699000 pt
333293WYWY pt	3555002	3555002
333293WYWY pt	3699002 pt	3699002 pt
3332941	35561	35561
3332941101	3556104	3556118 pt
3332941102	3556107	3556118 pt
3332941103	3556111	3556118 pt
3332941131	3556115	3556118 pt
3332941141 pt	3556117 pt	3556105
3332941141 pt	3556117 pt	3556106
3332941141 pt	3556117 pt	3556109
3332941141 pt	3556117 pt	3556118 pt
3332941171	3556121	3556121
3332941YWV	3556100	3556100
3332943	35562	35562
3332943111	3556211	3556211
3332943221	3556221	3556221
3332943331	3556231	3556231
3332943441	3556241	3556241
3332943551	3556251	3556251
3332943661	3556265	3556265
3332943671	3556273	3556273
3332943681	3556275	3556289 pt
3332943691	3556291	3556289 pt
3332943YWV	3556200	3556200
3332945	35563	35563
3332945101	3556304	3556304
3332945111	3556327	3556312
3332945116	3556309	3556319 pt
3332945121	3556313	3556319 pt
3332945131	3556315	3556319 pt
3332945135	3556329	3556319 pt
3332945141	3556331	3556319 pt
3332945151	3556333	3556319 pt
3332945161	3556339	3556319 pt
3332945206	3556305	3556305
3332945208	3556317	3556311
3332945371	3556340	3556321 pt
3332945376	3556341	3556321 pt
3332945381	3556343	3556321 pt
3332945386	3556345	3556321 pt
3332945391	3556347	3556321 pt
3332945YWV	3556300	3556300
333294W	35560	35560
333294WYWW	3556000	3556000
333294WYWY	3556002	3556002
3332950 pt	35590 pt	35590 pt
3332950 pt	35596	35596
3332950106	3559615	3559615
3332950211	3559617	3559617
3332950326	3559623	3559623
3332950401 pt	3559602 pt	3559601
3332950401 pt	3559602 pt	3559603
3332950401 pt	3559602 pt	3559605
3332950401 pt	3559602 pt	3559607
3332950401 pt	3559602 pt	3559609
3332950401 pt	3559602 pt	3559611
3332950401 pt	3559602 pt	3559613
3332950416	3559619	3559619
3332950421	3559621	3559621
3332950431	3559625	3559625
3332950436	3559627	3559627
3332950441 pt	3559630 pt	3559629
3332950441 pt	3559630 pt	3559631
3332950446	3559653	3559633 pt
3332950451	3559655	3559633 pt
3332950456	3559657	3559633 pt
3332950461	3559659	3559633 pt
3332950466 pt	3559636 pt	3559635
3332950466 pt	3559636 pt	3559637
3332950471	3559639	3559639
3332950476	3559641	3559641
3332950581 pt	3559646 pt	3559645
3332950581 pt	3559646 pt	3559647
3332950586 pt	3559648 pt	3559643
3332950586 pt	3559648 pt	3559649
3332950591	3559661	3559651 pt
3332950596	3559663	3559651 pt
33329505A1	3559665	3559651 pt
33329505A6	3559667	3559651 pt
33329505B1	3559669	3559651 pt
33329505B6	3559671	3559651 pt
3332950YWW pt	3559000 pt	3559000 pt
3332950YWW pt	3559600	3559600
3332950YWY	3559002 pt	3559002 pt
3332981	35591	35591
3332981121	3559109	3559109
3332981201	3559101	3559101
3332981206	3559103	3559103
3332981211	3559105	3559105
3332981216	3559107	3559107
3332981226	3559111	3559111
3332981331	3559113	3559113
3332981336	3559115	3559115
3332981YWV	3559100	3559100
3332983	35592	35592
3332983101	3559201	3559201
3332983106 pt	3559203 pt	3559204
3332983106 pt	3559203 pt	3559215 pt
3332983111	3559211	3559211
3332983116	3559207	3559207
3332983121	3559213	3559215 pt
3332983226	3559216	3559219 pt
3332983231	3559218	3559219 pt
3332983YWV	3559200	3559200
3332985	35595	35595
3332985106	3559503	3559503
3332985201	3559501	3559501
3332985211	3559505	3559505
3332985316	3559509	3559509
3332985YWV	3559500	3559500
3332987 pt	35598	35598
3332987 pt	36395 pt	36395 pt
3332987101	3559802	3559801 pt
3332987106	3559804	3559801 pt
3332987111	3559806	3559801 pt
3332987121	3559805	3559805
3332987131	3559809	3559809
3332987141	3559813	3559813
3332987146	3559815	3559815
3332987151	3559817	3559817
3332987156	3559819	3559819
3332987161	3559822	3559822
3332987171	3559827	3559827
3332987181	3559831	3559831
3332987186	3559835	3559835
3332987196	3559839	3559839
33329871B6	3559853	3559853
33329871C6	3559858	3559858
33329871G6	3559875	3559878 pt
33329871H1	3559877	3559878 pt
33329871H6	3559879	3559878 pt
33329871J1	3559881	3559878 pt
33329871K1	3559885	3559884 pt
33329871K6 pt	3559886 pt	3559884 pt
33329871K6 pt	3559886 pt	3559888
33329871M1 pt	3559887 pt	3559884 pt
33329871M1 pt	3559887 pt	3559889 pt
33329871M6 pt	3559892 pt	3559884 pt
33329871M6 pt	3559892 pt	3559889 pt
33329871N1 pt	3559893 pt	3559884 pt
33329871N1 pt	3559893 pt	3559890
33329871N6	3559891	3559891
33329871P1	3559896	3559896
33329871R1	3639515	3639510 pt
33329871R6	3639523	3639520 pt
3332987216	3559803	3559803
3332987226	3559807	3559807
3332987236	3559811	3559811
3332987266	3559825	3559825
3332987276	3559829	3559829
3332987291	3559836	3559836
33329872A1	3559841	3559841
33329872B1	3559845	3559845
33329872C1	3559855	3559855
33329872D6	3559863	3559863
33329872F6	3559871	3559871
33329872J6	3559883	3559878 pt
33329872P6	3559897	3559897
33329873D1	3559861	3559861
33329873E1	3559865	3559865
33329873E6	3559867	3559867
33329873F1	3559869	3559869
33329873G1	3559874	3559874
33329874A6	3559843	3559843
33329875R1 pt	3559899 pt	3559848
33329875R1 pt	3559899 pt	3559851
33329875R1 pt	3559899 pt	3559898
3332987YWV pt	3559800	3559800
3332987YWV pt	3639500 pt	3639500 pt
333298W pt	35590 pt	35590 pt
333298W pt	36390 pt	36390 pt
333298WYWW pt	3559000 pt	3559000 pt
333298WYWW pt	3639000 pt	3639000 pt
333298WYWY pt	3559002 pt	3559002 pt
333298WYWY pt	3639002 pt	3639002 pt
3333111	35811	35811
3333111000	3581100	3581100

1997 published	1997 collected	1992 published
3333112	35812	35812
3333112155	3581255	3581251 pt
3333112159	3581259	3581251 pt
3333112269	3581269	3581269
3333112YWV	3581200	3581200
333311W	35810	35810
333311WYWW	3581000	3581000
333311WYWY	3581002	3581002
3333120	35820	35820
3333120101 pt	3582013 pt	3582011
3333120101 pt	3582013 pt	3582012
3333120211	3582017	3582017
3333120231	3582021	3582018 pt
3333120241	3582025	3582018 pt
3333120351	3582027	3582027
3333120361	3582028	3582029 pt
3333120366	3582030	3582029 pt
3333120471	3582031	3582031
3333120491	3582091	3582091
3333120577	3582041	3582039 pt
3333120581	3582045	3582039 pt
3333120586	3582049	3582039 pt
3333120YWW	3582000	3582000
3333120YWY	3582002	3582002
3333131	35792	35792
3333131000	3579200	3579200
3333134	35784 pt	35784 pt
3333134000	3578410	3578400 pt
3333137	35793	35793
3333137000	3579300	3579300
333313A	35795	35795
333313A000	3579500	3579500
333313D	35799 pt	35799 pt
333313D000	3579910	3579900 pt
333313G	35789 pt	35789 pt
333313G000 pt	3578910	3578900 pt
333313G000 pt	3578900 pt	3578900 pt
333313J	3579A pt	3579A pt
333313J000	3579A10	3579A00 pt
333313W pt	35780 pt	35780 pt
333313W pt	35790 pt	35790 pt
333313WYWW pt	3578000 pt	3578000 pt
333313WYWW pt	3579000 pt	3579000 pt
333313WYWY pt	3578002 pt	3578002 pt
333313WYWY pt	3579002 pt	3579002 pt
3333141 pt	36992 pt	36992 pt
3333141 pt	38271	38271
3333141000 pt	3699221	3699200 pt
3333141000 pt	3827100	3827100
3333143	38274	38274
3333143110	3827410	3827410
3333143230	3827420	3827420
3333143YWV	3827400	3827400
333314W pt	36990 pt	36990 pt
333314W pt	38270	38270
333314WYWW pt	3699000 pt	3699000 pt
333314WYWW pt	3827000	3827000
333314WYWY pt	3699002 pt	3699002 pt
333314WYWY pt	3827002	3827002
3333151 pt	36992 pt	36992 pt
3333151 pt	38611	38611
3333151101 pt	3861131 pt	3861111
3333151101 pt	3861131 pt	3861121
3333151101 pt	3861131 pt	3861132
3333151206	3861167	3861167
3333151311	3861173	3861173
3333151416	3861181	3861181
3333151521 pt	3699251	3699200 pt
3333151521 pt	3861197	3861197
3333151YWV pt	3699200 pt	3699200 pt
3333151YWV pt	3861100	3861100
3333153	38612	38612
3333153100	3861200	3861200
3333155	38614	38614
3333155101	3861406	3861406
3333155106	3861403	3861403
3333155111	3861404	3861404
3333155116	3861405	3861405
3333155221	3861421	3861421
3333155YWV	3861400	3861400
3333157	38613	38613
3333157101 pt	3861332 pt	3861311
3333157101 pt	3861332 pt	3861321
3333157206	3861352	3861352
3333157311	3861397	3861397
3333157YWV	3861300	3861300
333315W pt	36990 pt	36990 pt
333315W pt	38610 pt	38610 pt
333315WYWW pt	3699000 pt	3699000 pt
333315WYWW pt	3861000 pt	3861000 pt
333315WYWY pt	3699002 pt	3699002 pt
333315WYWY pt	3861002 pt	3861002 pt
3333191	35891	35891
3333191111	3589111	3589111
3333191116	3589113	3589113
3333191121	3589130	3589130
3333191131	3589131	3589131
3333191241	3589161	3589161
3333191251	3589163	3589163
3333191261	3589167	3589167
3333191271	3589170	3589170
3333191281	3589181	3589181
3333191391	3589185	3589185
3333191YWV	3589100	3589100
3333193	35893	35893
3333193101	3589301	3589301
3333193111	3589302	3589302
3333193221	3589307	3589307
3333193YWV	3589300	3589300
3333195	35597	35597
3333195101	3559701	3559701
3333195106	3559702	3559702
3333195111	3559703	3559703
3333195116	3559704	3559704
3333195121	3559705	3559705
3333195126	3559709	3559709
3333195231	3559711	3559711
3333195YWV	3559700	3559700
3333197	36991	36991
3333197000	3699100	3699100
3333199 pt	35892	35892
3333199 pt	35994 pt	35994 pt
3333199101	3589201	3589201
3333199106	3589202	3589202
3333199111	3589222	3589222
3333199116	3589226	3589226
3333199146	3589273	3589273
3333199151	3589275	3589275
3333199161	3589285	3589281 pt
3333199166	3589287	3589281 pt
3333199171	3589288	3589281 pt
3333199174	3589289	3589281 pt
3333199178	3589282	3589282
3333199182	3589283	3589283
3333199186	3589284	3589284
3333199189	3589286	3589286
3333199194	3589291	3589296 pt
3333199196	3589295	3589296 pt
3333199221	3589227	3589227
3333199236	3589245	3589245
3333199256	3589276	3589276
3333199299	3589297	3589297
3333199301	3599431	3599431
3333199326	3589242	3589242
3333199331	3589243	3589243
3333199341	3589246	3589246
3333199YWV pt	3589200	3589200
3333199YWY pt	3599400 pt	3599400 pt
333319W pt	35590 pt	35590 pt
333319W pt	35890	35890
333319W pt	35990 pt	35990 pt
333319W pt	36990 pt	36990 pt
333319WYWW pt	3559000 pt	3559000 pt
333319WYWW pt	3589000	3589000
333319WYWW pt	3599000 pt	3599000 pt
333319WYWW pt	3699000 pt	3699000 pt
333319WYWY pt	3559002 pt	3559002 pt
333319WYWY pt	3589002	3589002
333319WYWY pt	3599002 pt	3599002 pt
333319WYWY pt	3699002 pt	3699002 pt
3334111	35646	35646
3334111110	3564611	3564611
3334111165	3564621	3564621
3334111YWV	3564600	3564600
3334113	35645	35645
3334113103	3564543	3564543
3334113207	3564531	3564531
3334113211	3564541	3564541
3334113231	3564546	3564546
3334113355	3564547	3564547
3334113YWV	3564500	3564500
333411W	35640 pt	35640 pt
333411WYWW	3564000 pt	3564000 pt
333411WYWY	3564002 pt	3564002 pt
3334120 pt	35640 pt	35640 pt
3334120 pt	35643	35643
3334120 pt	35644	35644
3334120101	3564441	3564441
3334120104	3564443	3564443
3334120107	3564445	3564445
3334120217	3564317	3564317
3334120219	3564319	3564319
3334120221	3564321	3564321
3334120324	3564324	3564324
3334120327	3564327	3564327
3334120329	3564329	3564329
3334120344 pt	3564344 pt	3564331
3334120344 pt	3564344 pt	3564339
3334120463	3564413	3564413
3334120465	3564415	3564415
3334120573	3564433	3564433
3334120575	3564435	3564435
3334120688 pt	3564438 pt	3564437
3334120688 pt	3564438 pt	3564439
3334120YWW pt	3564000 pt	3564000 pt
3334120YWW pt	3564300	3564300
3334120YWW pt	3564400	3564400
3334120YWY	3564002 pt	3564002 pt
3334141	34333	34333
3334141101	3433321	3433321
3334141106	3433335	3433335
3334141111	3433365	3433365
3334141116	3433377	3433377
3334141YWV	3433300	3433300
3334143	34334	34334
3334143101	3433411	3433410 pt
3334143106	3433413	3433410 pt
3334143111	3433415	3433410 pt
3334143116	3433417	3433410 pt
3334143121	3433419	3433410 pt
3334143126	3433421	3433410 pt
3334143131	3433422	3433422
3334143136	3433430	3433430
3334143141	3433440	3433440
3334143146	3433462	3433462
3334143151	3433474	3433474
3334143YWV	3433400	3433400
3334145	34335	34335
3334145101	3433512	3433512
3334145111	3433520	3433520
3334145YWV	3433500	3433500
3334147	34338	34338
3334147101	3433820	3433820
3334147106	3433830	3433830
3334147111	3433832	3433832
3334147116	3433838	3433838
3334147121	3433854	3433854
3334147126	3433888	3433888
3334147YWV	3433800	3433800
3334149 pt	34339	34339
3334149 pt	36345 pt	36345 pt
3334149 pt	36349 pt	36349 pt
3334149101 pt	3433901 pt	3433906
3334149101 pt	3433901 pt	3433908
3334149101 pt	3433901 pt	3433911
3334149101 pt	3433901 pt	3433913
3334149101 pt	3433901 pt	3433915
3334149106	3433985	3433985
3334149111	3433916	3433916
3334149116	3433918	3433918
3334149121	3433919	3433919
3334149126	3433960	3433960
3334149131	3433971	3433971
3334149136	3433975	3433975
3334149140	3634520	3634500 pt
3334149150	3634930	3634920 pt
3334149151 pt	3433989 pt	3433945
3334149151 pt	3433989 pt	3433950
3334149151 pt	3433989 pt	3433961
3334149151 pt	3433989 pt	3433999
3334149YWV pt	3433900	3433900
3334149YWV pt	3634500	3634500 pt
3334149YWV pt	3634900 pt	3634900 pt
333414W pt	34330	34330
333414W pt	36340 pt	36340 pt
333414WYWW pt	3433000	3433000
333414WYWW pt	3634000 pt	3634000 pt
333414WYWY pt	3433002	3433002
333414WYWY pt	3634002 pt	3634002 pt
3334151 pt	34432 pt	34432 pt
3334151 pt	35851	35851 pt
3334151000 pt	3443297	3443298 pt
3334151000 pt	3585100	3585100 pt
3334153	35853	35853
3334153101	3585312	3585312
3334153106	3585315	3585315
3334153111	3585318	3585318
3334153116	3585322	3585322
3334153121	3585323	3585323
3334153126	3585328	3585328
3334153131	3585332	3585332
3334153136	3585335	3585335
3334153141	3585337	3585337
3334153146	3585343	3585343
3334153151	3585352	3585352
3334153156	3585357	3585357
3334153191	3585398	3585398
3334153YWV	3585300	3585300
3334155	35855	35855
3334155000	3585500	3585500
3334156	35856	35856
3334156000	3585600	3585600

1997 published	1997 collected	1992 published
3334159	35859	35859
3334159101	3585901	3585901
3334159111	3585902	3585902
3334159121	3585903	3585903
3334159131	3585911	3585906 pt
3334159141	3585915	3585906 pt
3334159YWV	3585900	3585900
333415A	3585A	35854 pt
333415A000	3585A00	3585400 pt
333415C	3585C	3585C
333415C000	3585C00	3585C00
333415D	3585D	3585D
333415D101	3585D10	3585D10
333415D111	3585D20	3585D20
333415D121	3585D30	3585D30
333415D131	3585D40	3585D40
333415D141	3585D50	3585D50
333415D151	3585D60	3585D60
333415D161	3585D73	3585D70 pt
333415D171	3585D75	3585D70 pt
333415D181	3585D80	3585D80
333415DYWV	3585D00	3585D00
333415E	3585E	35852 pt
333415E000	3585E00	3585200 pt
333415F	3585F	35852 pt
333415F000	3585F00	3585200 pt
333415G	3585G	35852 pt
333415G000	3585G00	3585200 pt
333415W pt	34430 pt	34430 pt
333415W pt	35850 pt	35850 pt
333415WYWW pt	3443000 pt	3443000 pt
333415WYWW pt	3585000 pt	3585000 pt
333415WYWY pt	3443002 pt	3443002 pt
333415WYWY pt	3585002 pt	3585002 pt
3335110 pt	35440 pt	35440 pt
3335110 pt	35442	35442
3335110101	3544203	3544203
3335110106	3544205	3544205
3335110211	3544207	3544207
3335110216	3544209	3544209
3335110221	3544214	3544214
3335110226	3544221	3544221
3335110231	3544225	3544225
3335110236	3544241	3544241
3335110241	3544242	3544242
3335110246	3544245	3544245
3335110251	3544247	3544247
3335110261	3544255	3544255
3335110266	3544259	3544259
3335110276	3544264	3544263 pt
3335110281	3544265	3544263 pt
3335110286	3544267	3544267
3335110356	3544251	3544251
3335110YWW pt	3544000 pt	3544000 pt
3335110YWW pt	3544200	3544200
3335110YWY	3544002 pt	3544002 pt
3335121 pt	35413	35413
3335121 pt	36992 pt	36992 pt
3335121100 pt	3541300	3541300
3335121100 pt	3699233	3699200 pt
3335121YWV	3699200 pt	3699200 pt
3335122	35414	35414
3335122000	3541400	3541400
3335123	35415	35415
3335123000	3541500	3541500
3335124	35416	35416
3335124000	3541600	3541600
3335125	35418	35418
3335125101	3541811	3541811
3335125106	3541831	3541831
3335125111	3541851	3541851
3335125116	3541871	3541871
3335125199	3541891	3541891
3335125YWV	3541800	3541800
3335126	35419	35419
3335126101	3541911	3541911
3335126106	3541941	3541941
3335126YWV	3541900	3541900
3335127	3541A	3541A
3335127000	3541A00	3541A00
3335128	3541B	3541B
3335128000	3541B00	3541B00
3335129	3541C	3541C
3335129000	3541C00	3541C00
333512A pt	3541D	3541D
333512A pt	36992 pt	36992 pt
333512A100 pt	3541D00	3541D00
333512A100 pt	3699231	3699200 pt
333512AYWV	3699200 pt	3699200 pt
333512W pt	35410	35410
333512W pt	36990 pt	36990 pt
333512WYWW pt	3541000	3541000
333512WYWW pt	3699000 pt	3699000 pt
333512WYWY pt	3541002	3541002
333512WYWY pt	3699002 pt	3699002 pt
3335131	35421	35421
3335131000	3542100	3542100
3335133	35422	35422
3335133000	3542200	3542200
3335135	35423	35423
3335135000	3542300	3542300
3335137	35424	35424
3335137101	3542409	3542411 pt
3335137111	3542410	3542411 pt
3335137116	3542475	3542475
3335137YWV	3542400	3542400
333513W	35420	35420
333513WYWW	3542000	3542000
333513WYWY	3542002	3542002
3335140 pt	35440 pt	35440 pt
3335140 pt	35441	35441
3335140101	3544113	3544113
3335140103	3544115	3544115
3335140106	3544114	3544117 pt
3335140109	3544116	3544117 pt
3335140112	3544118	3544118
3335140215	3544119	3544119
3335140318	3544121	3544121
3335140321	3544122	3544122
3335140326	3544124	3544124
3335140332	3544126	3544126
3335140423	3544123	3544123
3335140429	3544125	3544125
3335140535	3544127	3544127
3335140538	3544128	3544128
3335140541	3544133	3544133
3335140543	3544135	3544135
3335140546	3544142	3544142
3335140549	3544143	3544143
3335140652	3544144	3544144
3335140655	3544145	3544145
3335140658	3544146	3544146
3335140661	3544147	3544147
3335140663	3544148	3544148
3335140666	3544173	3544173
3335140769	3544175	3544175
3335140772	3544177	3544177
3335140775	3544178	3544178
3335140878	3544183	3544183
3335140981	3544189	3544189
3335140YWW pt	3544000 pt	3544000 pt
3335140YWW pt	3544100	3544100
3335140YWY	3544002 pt	3544002 pt
3335151	35451	35451
3335151102	3545114	3545114
3335151124	3545132	3545132
3335151126	3545136	3545136
3335151128	3545142	3545142
3335151132	3545147	3545147
3335151148	3545167	3545167
3335151152	3545172	3545172
3335151188	3545198	3545198
3335151204	3545115	3545115
3335151206	3545121	3545121
3335151308	3545122	3545122
3335151312	3545124	3545124
3335151314	3545125	3545125
3335151316	3545126	3545126
3335151318	3545127	3545127
3335151322	3545129	3545129
3335151434	3545151	3545151
3335151436	3545152	3545152
3335151438	3545153	3545153
3335151442	3545154	3545154
3335151444	3545162	3545162
3335151446	3545164	3545164
3335151554	3545173	3545173
3335151558	3545175	3545175
3335151562	3545179	3545179
3335151564	3545181	3545181
3335151568	3545186	3545186
3335151572	3545187	3545187
3335151574	3545189	3545189
3335151576	3545192	3545192
3335151578	3545194	3545194
3335151582	3545195	3545195
3335151584	3545196	3545196
3335151586	3545197	3545197
3335151592	3545199	3545199
3335151656	3545174	3545174
3335151766	3545183	3545183
3335151YWV	3545100	3545100
3335153	35454	35454
3335153101	3545412	3545412
3335153106	3545414	3545414
3335153111	3545417	3545417
3335153116	3545431	3545431
3335153121	3545437	3545437
3335153126	3545438	3545438
3335153131	3545441	3545441
3335153136	3545443	3545443
3335153146	3545446	3545445 pt
3335153152	3545447	3545445 pt
3335153154	3545457	3545459 pt
3335153156	3545451	3545451
3335153166	3545458	3545459 pt
3335153176	3545498	3545498
3335153YWV	3545400	3545400
333515W	35450 pt	35450 pt
333515WYWW	3545000 pt	3545000 pt
333515WYWY	3545002 pt	3545002 pt
3335161	35471	35471
3335161101 pt	3547115 pt	3547111
3335161101 pt	3547115 pt	3547113
3335161101 pt	3547115 pt	3547117
3335161191	3547118	3547118
3335161YWV	3547100	3547100
3335163	35472	35472
3335163101	3547221	3547221
3335163106	3547223	3547223
3335163191 pt	3547226 pt	3547227
3335163191 pt	3547226 pt	3547228
3335163YWV	3547200	3547200
3335165	35473	35473
3335165101	3547335	3547335
3335165106 pt	3547345 pt	3547341
3335165106 pt	3547345 pt	3547343
3335165106 pt	3547345 pt	3547347
3335165111	3547349	3547349
3335165116	3547351	3547351
3335165121	3547352	3547352
3335165YWV	3547300	3547300
333516W	35470	35470
333516WYWW	3547000	3547000
333516WYWY	3547002	3547002
3335181	35492	35492
3335181101	3549211	3549211
3335181206	3549215	3549215
3335181311	3549217	3549217
3335181416	3549213	3549213
3335181521	3549218	3549218
3335181YWV	3549200	3549200
3335183	35495	35495
3335183101	3549501	3549501
3335183106	3549502	3549502
3335183111	3549503	3549503
3335183116	3549543	3549543
3335183121	3549545	3549545
3335183126	3549592	3549592
3335183131	3549595	3549595
3335183YWV	3549500	3549500
333518W	35490	35490
333518WYWW	3549000	3549000
333518WYWY	3549002	3549002
3336110	35110	35110
3336110101	3511005	3511005
3336110211	3511011	3511011
3336110706	3511009	3511009
3336110741	3511071	3511071
3336110746	3511072	3511072
3336110761	3511081	3511081
3336110766	3511083	3511083
3336110776	3511095	3511095
3336110836	3511061	3511061
3336110856	3511079	3511079
3336110871	3511091	3511091
3336110951	3511075	3511075
3336110YWW	3511000	3511000
3336110YWY	3511002	3511002
3336123	35663	35660 pt
3336123111 pt	3566311 pt	3566041 pt
3336123111 pt	3566311 pt	3566042 pt
3336123113 pt	3566313 pt	3566041 pt
3336123113 pt	3566313 pt	3566042 pt
3336123116 pt	3566316 pt	3566041 pt
3336123116 pt	3566316 pt	3566043
3336123118 pt	3566318 pt	3566041 pt
3336123118 pt	3566318 pt	3566044
3336123125 pt	3566325 pt	3566041 pt
3336123125 pt	3566325 pt	3566045
3336123135 pt	3566335 pt	3566041 pt
3336123135 pt	3566335 pt	3566046 pt
3336123146 pt	3566346 pt	3566041 pt
3336123146 pt	3566346 pt	3566046 pt
3336123153	3566353	3566041 pt
3336123155	3566355	3566041 pt
3336123157	3566357	3566041 pt
3336123YWV	3566300	3566000 pt
3336127	35667	35660 pt
3336127114	3566714	3566024 pt
3336127116	3566716	3566024 pt
3336127118 pt	3566718 pt	3566017 pt
3336127118 pt	3566718 pt	3566018 pt
3336127121 pt	3566721 pt	3566017 pt
3336127121 pt	3566721 pt	3566018 pt
3336127121 pt	3566721 pt	3566024 pt
3336127225	3566725	3566034
3336127226	3566726	3566037
3336127329	3566729	3566051 pt

1997 published	1997 collected	1992 published
3336127437	3566737	3566051 pt
3336127438	3566738	3566051 pt
3336127441	3566741	3566051 pt
3336127443	3566743	3566051 pt
3336127445	3566745	3566051 pt
3336127447	3566747	3566051 pt
3336127447G	3566748	3566051 pt
3336127447R	3566749	3566051 pt
3336127553 pt	3566753 pt	3566025 pt
3336127553 pt	3566753 pt	3566029 pt
3336127555	3566755	3566029 pt
3336127559 pt	3566759 pt	3566025 pt
3336127559 pt	3566759 pt	3566029 pt
3336127666 pt	3566766 pt	3566021
3336127666 pt	3566766 pt	3566051 pt
3336127771 pt	3566771 pt	3566028 pt
3336127771 pt	3566771 pt	3566051 pt
3336127773 pt	3566773 pt	3566027 pt
3336127773 pt	3566773 pt	3566051 pt
3336127776 pt	3566776 pt	3566027 pt
3336127776 pt	3566776 pt	3566028 pt
3336127879	3566779	3566051 pt
3336127983	3566783	3566011
3336127A88	3566788	3566051 pt
3336127B99 pt	3566799 pt	3566047
3336127B99 pt	3566799 pt	3566049
3336127B99 pt	3566799 pt	3566051 pt
3336127YWV	3566700	3566000 pt
333612W	35660	35660 pt
333612WYWW	3566000	3566000 pt
333612WYWY	3566002	3566002
3336131	35681	35681
3336131112	3568112	3568112
3336131151	3568151	3568151
3336131YWV	3568100	3568100
3336133	35683	35683
3336133111	3568311	3568311
3336133213	3568313	3568313
3336133219	3568319	3568319
3336133327	3568320	3568320
3336133329	3568323	3568323
3336133444	3568333	3568333
3336133545	3568335	3568335
3336133648	3568361	3568361
3336133649	3568365	3568365
3336133756	3568325	3568325
3336133763	3568344	3568344
3336133767	3568351	3568351
3336133788 pt	3568377 pt	3568394
3336133788 pt	3568377 pt	3568396
3336133792 pt	3568383 pt	3568326
3336133792 pt	3568383 pt	3568328
3336133792 pt	3568383 pt	3568330
3336133792 pt	3568383 pt	3568389
3336133798 pt	3568395 pt	3568391
3336133798 pt	3568395 pt	3568399
3336133YWV	3568300	3568300
333613W	35680	35680
333613WYWW	3568000	3568000
333613WYWY	3568002	3568002
3336181	35191	35191
3336181000	3519100	3519100
3336183	35193	35193
3336183000	3519300	3519300
3336185	35194	35194
3336185000	3519400	3519400
3336187 pt	35195	35195
3336187 pt	3699A pt	3699A pt
3336187100 pt	3519500	3519500
3336187100 pt	3699A07	3699A07
3336189	35196	35196
3336189000	3519600	3519600
333618A	35197	35197
333618A101	3519721	3519721
333618A106	3519751	3519751
333618AYWV	3519700	3519700
333618F	35199 pt	35199 pt
333618F101	3519901	3519901
333618F106	3519908	3519908
333618F111	3519909	3519909
333618F116	3519921	3519921
333618F121	3519924	3519924
333618F126	3519925	3519925
333618F131	3519933	3519933
333618F136	3519927	3519927
333618F141	3519931	3519931
333618F146	3519932	3519932
333618F151	3519935	3519935
333618F156	3519939	3519939
333618F161	3519949	3519949
333618F166	3519963	3519963
333618F171	3519967	3519967
333618F176	3519971	3519971
333618F186	3519983	3519983
333618F196	3519991	3519991
333618F199	3519999	3519999
333618F281	3519975	3519975
333618FYWV	3519900 pt	3519900 pt
333618W pt	35190 pt	35190 pt
333618W pt	36990 pt	36990 pt
333618WYWW pt	3519000 pt	3519000 pt
333618WYWW pt	3699000 pt	3699000 pt
333618WYWY pt	3519002 pt	3519002 pt
333618WYWY pt	3699002 pt	3699002 pt
3339111 pt	35612	35611
3339111 pt	35613	35613
3339111 pt	3561K	35615 pt
3339111 pt	35618	35615 pt
3339111 pt	35617	35615 pt
3339111 pt	35614	35615 pt
3339111110	3561300	3561300
3339111220	3561400	3561530
3339111330	3561700	3561510
3339111440	3561200	3561100
3339111590	3561800	3561520
3339111YWV	3561K00	3561500
3339115 pt	35619	35616
3339115 pt	37431 pt	37431 pt
3339115105	3743107	3743103 pt
3339115133	3561900 pt	3561600 pt
3339115YWV pt	3561900 pt	3561600 pt
3339115YWV pt	3743100 pt	3743100 pt
3339111W pt	35610	35610
3339111W pt	37430 pt	37430 pt
3339111WYWW pt	3561000	3561000
3339111WYWW pt	3743000 pt	3743000 pt
3339111WYWY pt	3561002	3561002
3339111WYWY pt	3743002 pt	3743002 pt
3339121 pt	3563K	35631 pt
3339121 pt	35633	35631 pt
3339121 pt	35634	35631 pt
3339121110	3563300	3563130
3339121220	3563400	3563120
3339121YWV	3563K00	3563100
3339125	35636	35632
3339125100	3563600	3563200
3339127	35637	35635
3339127131	3563731	3563531
3339127151	3563751	3563551
3339127199	3563799	3563500 pt
3339127YWV	3563700	3563500 pt
333912W	35630	35630
333912WYWW	3563000	3563000
333912WYWY	3563002	3563002
3339130	35860	35860
3339130113	3586013	3586013
3339130114	3586014	3586014
3339130223	3586015	3586015
3339130224	3586016	3586016
3339130355 pt	3586055 pt	3586031
3339130355 pt	3586055 pt	3586051
3339130355 pt	3586055 pt	3586089
3339130391	3586091	3586091
3339130YWW	3586000	3586000
3339130YWY	3586002	3586002
3339211	35341	35341
3339211101	3534105	3534105
3339211106	3534107	3534107
3339211211	3534112	3534112
3339211316	3534113	3534113
3339211321	3534115	3534115
3339211326	3534131	3534131
3339211331	3534151	3534151
3339211336	3534196	3534196
3339211YWV	3534100	3534100
3339213	35342	35342
3339213101	3534201	3534200 pt
3339213106	3534202	3534200 pt
3339213YWV	3534200	3534200 pt
333921W	35340	35340
333921WYWW	3534000	3534000
333921WYWY	3534002	3534002
3339221	35353	35353
3339221101	3535309	3535309
3339221106	3535313	3535313
3339221311	3535314	3535314
3339221416	3535317	3535317
3339221421	3535301	3535321 pt
3339221426	3535302	3535321 pt
3339221431	3535303	3535323 pt
3339221436	3535304	3535323 pt
3339221441	3535335	3535335
3339221446	3535337	3535337
3339221451	3535341	3535341
3339221456	3535307	3535347 pt
3339221461	3535308	3535347 pt
3339221YWV	3535300	3535300
3339223	35354	35354
3339223100	3535400	3535400
3339227 pt	35232 pt	35232 pt
3339227 pt	35355	35355
3339227101	3535505	3535505
3339227206	3535509	3535509
3339227211	3535511	3535511
3339227221	3535519	3535519
3339227226	3535523	3535523
3339227231	3535527	3535527
3339227236	3535512	3535531 pt
3339227241	3535513	3535531 pt
3339227251	3523271	3523200 pt
3339227261	3535541	3535541
3339227276	3535551	3535551
3339227281	3535555	3535555
3339227316	3535515	3535515
3339227466	3535543	3535543
3339227471	3535545	3535545
3339227YWV pt	3523200 pt	3523200 pt
3339227YWV pt	3535500	3535500
3339229	35356	35356
3339229101	3535611	3535611
3339229106	3535625	3535625
3339229211	3535637	3535637
3339229YWV	3535600	3535600
333922W pt	35230 pt	35230 pt
333922W pt	35350	35350
333922WYWW pt	3523000 pt	3523000 pt
333922WYWW pt	3535000	3535000
333922WYWY pt	3523002 pt	3523002 pt
333922WYWY pt	3535002	3535002
3339231	35363	35363
3339231101	3536301	3536301
3339231106	3536302	3536302
3339231111	3536303	3536303
3339231116	3536313	3536313
3339231121	3536314	3536315
3339231131	3536316	3536316
3339231141	3536332	3536332
3339231146	3536334	3536334
3339231151	3536338	3536339
3339231261	3536345	3536345
3339231YWV	3536300	3536300
3339233	35364	35364
3339233101	3536401	3536401
3339233111	3536403	3536403
3339233116	3536404	3536404
3339233121	3536405	3536405
3339233131	3536407	3536406 pt
3339233136	3536408	3536406 pt
3339233141	3536415	3536417 pt
3339233156	3536452	3536452
3339233206	3536402	3536402
3339233346	3536416	3536417 pt
3339233361	3536454	3536454
3339233YWV	3536400	3536400
3339237 pt	3531W pt	3531M pt
3339237 pt	3531W pt	3531N pt
3339237 pt	3531W pt	3531P pt
3339237110	3531W30	3531P90
3339237230	3531W42	3531N00 pt
3339237353	3531W53	3531P53
3339237355	3531W55	3531P55
3339237361	3531W61	3531P61
3339237493	3531W70	3531M08 pt
3339237495	3531W80	3531M21 pt
3339237YWV pt	3531W00 pt	3531M00 pt
3339237YWV pt	3531W00 pt	3531N00 pt
3339237YWV pt	3531W00 pt	3531P00 pt
333923W pt	35310 pt	35310 pt
333923W pt	35360	35360
333923WYWW pt	3531000 pt	3531000 pt
333923WYWW pt	3536000	3536000
333923WYWY pt	3531002 pt	3531002 pt
333923WYWY pt	3536002	3536002
3339241	35373 pt	35373 pt
3339241101	3537301	3537301
3339241104	3537302	3537302
3339241208	3537303	3537303
3339241212	3537304	3537304
3339241216	3537306	3537306
3339241321	3537307	3537307
3339241424	3537308	3537308
3339241528	3537309	3537309
3339241532	3537311	3537311
3339241536	3537312	3537312
3339241541	3537315	3537315
3339241544	3537316	3537316
3339241548	3537317	3537317
3339241552	3537318	3537318
3339241556	3537319	3537319
3339241661	3537321	3537321
3339241664	3537325	3537325
3339241668	3537326	3537326
3339241672	3537328	3537328
3339241676	3537329	3537329
3339241681	3537332	3537332
3339241684	3537335	3537335
3339241688	3537336	3537339 pt
3339241692	3537337	3537339 pt
3339241696	3537338	3537339 pt
3339241YWV	3537300 pt	3537300 pt

1997 published	1997 collected	1992 published
3339243	35374	35374
3339243101	3537412	3537411
3339243106	3537413	3537418 pt
3339243111	3537414	3537418 pt
3339243YWV	3537400	3537400
333924W	35370 pt	35370 pt
333924WYWW	3537000 pt	3537000 pt
333924WYWY	3537002 pt	3537002 pt
3339911	35462	35462
3339911101	3546237	3546237
3339911106	3546238	3546238
3339911111	3546241	3546241
3339911116	3546242	3546242
3339911121	3546244	3546244
3339911126	3546245	3546245
3339911131	3546248	3546248
3339911136	3546249	3546249
3339911141	3546251	3546251
3339911146 pt	3546262 pt	3546261
3339911146 pt	3546262 pt	3546279 pt
3339911151 pt	3546273 pt	3546271
3339911151 pt	3546273 pt	3546272
3339911156	3546278	3546279 pt
3339911YWV	3546200	3546200
3339913	35463	35463
3339913101	3546301	3546301
3339913106	3546311	3546311
3339913111	3546317	3546319 pt
3339913116	3546318	3546319 pt
3339913YWV	3546300	3546300
3339917	35464	35464
3339917101	3546401	3546401
3339917106	3546405	3546405
3339917111 pt	3546406 pt	3546409
3339917111 pt	3546406 pt	3546415
3339917116	3546418	3546419 pt
3339917121	3546420	3546419 pt
3339917126	3546421	3546421
3339917YWV	3546400	3546400
3339919	35465	35465
3339919101 pt	3546510 pt	3546502
3339919101 pt	3546510 pt	3546505
3339919101 pt	3546510 pt	3546507
3339919101 pt	3546510 pt	3546509
3339919104	3546511	3546511
3339919108	3546512	3546512
3339919112	3546513	3546513
3339919116	3546514	3546514
3339919121	3546515	3546515
3339919124	3546516	3546516
3339919128	3546517	3546517
3339919132	3546521	3546521
3339919136	3546522	3546522
3339919141	3546523	3546523
3339919144	3546524	3546524
3339919148	3546525	3546525
3339919152	3546527	3546527
3339919156	3546528	3546528
3339919161	3546529	3546529
3339919164	3546531	3546531
3339919168	3546533	3546533
3339919172	3546536	3546536
3339919176	3546537	3546537
3339919181	3546538	3546538
3339919184	3546539	3546539
3339919188	3546541	3546541
3339919192	3546543	3546543
3339919YWV	3546500	3546500
333991W	35460	35460
333991WYWW	3546000	3546000
333991WYWY	3546002	3546002
3339921	35481 pt	35481 pt
3339921101	3548103	3548103
3339921106	3548101	3548104 pt
3339921111	3548102	3548104 pt
3339921126	3548107	3548107
3339921131	3548108	3548108
3339921136	3548109	3548109
3339921141	3548111	3548111
3339921146	3548112	3548112
3339921151	3548114	3548114
3339921156	3548115	3548115
3339921161	3548118	3548119
3339921YWV	3548100 pt	3548100 pt
3339923	35482	35482
3339923101	3548203	3548203
3339923106	3548204	3548204
3339923111	3548205	3548205
3339923116	3548206	3548206
3339923121	3548209	3548209
3339923126	3548211	3548211
3339923131	3548212	3548212
3339923136	3548213	3548213
3339923141	3548214	3548214
3339923146	3548217	3548217
3339923151	3548218	3548218
3339923YWV	3548200	3548200
3339927	35483	35483
3339927101	3548305	3548305
3339927106	3548306	3548306
3339927111	3548307	3548307
3339927116	3548308	3548308
3339927121	3548309	3548309
3339927126	3548311	3548311
3339927131	3548319	3548319
3339927YWV	3548300	3548300
3339929	35484	35484
3339929101	3548401	3548401
3339929106	3548402	3548402
3339929111	3548403	3548403
3339929116	3548404	3548404
3339929121	3548405	3548405
3339929126	3548409	3548409
3339929YWV	3548400	3548400
333992A pt	35485	35485
333992A pt	36992 pt	36992 pt
333992A101	3548501	3548501
333992A111	3548513	3548505
333992A116	3699291	3699200 pt
333992A121	3548515	3548504 pt
333992A126	3548516	3548504 pt
333992A131	3548514	3548503
333992A141	3548507	3548507
333992A146	3548509	3548509
333992AYWV pt	3548500	3548500
333992AYWV pt	3699200 pt	3699200 pt
333992W pt	35480 pt	35480 pt
333992W pt	36990 pt	36990 pt
333992WYWW pt	3548000 pt	3548000 pt
333992WYWW pt	3699000 pt	3699000 pt
333992WYWY pt	3548002 pt	3548002 pt
333992WYWY pt	3699002 pt	3699002 pt
3339931	35651	35651
3339931103	3565123	3565123
3339931207	3565125	3565125
3339931311	3565103	3565103
3339931315	3565131	3565131
3339931319	3565104	3565104
3339931321	3565105	3565105
3339931426	3565152	3565152
3339931433	3565122	3565122
3339931437	3565151	3565151
3339931544	3565133	3565133
3339931545	3565135	3565135
3339931651	3565145	3565145
3339931755	3565137	3565137
3339931859	3565141	3565141
3339931963	3565143	3565143
3339931A67	3565118	3565118
3339931A71	3565149	3565149
3339931B75	3565127	3565127
3339931B79	3565128	3565128
3339931B83	3565153	3565153
3339931C99	3565159	3565159
3339931YWV	3565100	3565100
3339935	35652	35652
3339935100	3565200	3565200
333993W	35650	35650
333993WYWW	3565000	3565000
333993WYWY	3565002	3565002
3339940 pt	35670 pt	35670
3339940 pt	35670 pt	35671
3339940 pt	35670 pt	35674
3339940 pt	35670 pt	35675
3339940 pt	35670 pt	35676
3339940103	3567003	3567602
3339940106 pt	3567006 pt	3567601 pt
3339940106 pt	3567006 pt	3567609 pt
3339940106 pt	3567006 pt	3567615 pt
3339940109 pt	3567009 pt	3567601 pt
3339940109 pt	3567009 pt	3567609 pt
3339940109 pt	3567009 pt	3567615 pt
3339940214	3567014	3567621
3339940323 pt	3567040 pt	3567401
3339940323 pt	3567040 pt	3567402
3339940323 pt	3567040 pt	3567403
3339940323 pt	3567040 pt	3567404
3339940429 pt	3567042 pt	3567111 pt
3339940429 pt	3567042 pt	3567121 pt
3339940429 pt	3567042 pt	3567129 pt
3339940431 pt	3567044 pt	3567111 pt
3339940431 pt	3567044 pt	3567121 pt
3339940431 pt	3567044 pt	3567129 pt
3339940431 pt	3567044 pt	3567143 pt
3339940535	3567047	3567121 pt
3339940639 pt	3567050 pt	3567129 pt
3339940639 pt	3567050 pt	3567143 pt
3339940653 pt	3567053 pt	3567111 pt
3339940653 pt	3567053 pt	3567129 pt
3339940653 pt	3567053 pt	3567143 pt
3339940759	3567059	3567512 pt
3339940871	3567071	3567501
3339940875 pt	3567075 pt	3567502
3339940875 pt	3567075 pt	3567503
3339940979 pt	3567079 pt	3567511
3339940979 pt	3567079 pt	3567512 pt
3339940YWW pt	3567000 pt	3567000
3339940YWW pt	3567000 pt	3567100
3339940YWW pt	3567000 pt	3567400
3339940YWW pt	3567000 pt	3567500
3339940YWW pt	3567000 pt	3567600
3339940YWY	3567002	3567002
3339951	35934	35934
3339951100	3593400	3593400
3339953	35935	35935
3339953100	3593500	3593500
3339955	35939	35939
3339955100	3593900	3593900
3339957 pt	35932	35932
3339957 pt	37284 pt	37284 pt
3339957100 pt	3593200	3593200
3339957100 pt	3728400 pt	3728400 pt
3339957100 pt	3728409 pt	3728473 pt
3339957100 pt	3728409 pt	3728475 pt
3339957100 pt	3728409 pt	3728483 pt
3339957100 pt	3728409 pt	3728485 pt
333995W pt	35930	35930
333995W pt	37280 pt	37280 pt
333995WYWW pt	3593000	3593000
333995WYWW pt	3728000 pt	3728000 pt
333995WYWY pt	3593002	3593002
333995WYWY pt	3728002 pt	3728002 pt
3339961	35943	35943
3339961100	3594300	3594300
3339963	35944	35944
3339963100	3594400	3594400
3339965	35945	35945
3339965100	3594500	3594500
3339967 pt	35946	35946
3339967 pt	37284 pt	37284 pt
3339967100 pt	3594600	3594600
3339967100 pt	3728400 pt	3728400 pt
3339967100 pt	3728405 pt	3728473 pt
3339967100 pt	3728405 pt	3728475 pt
3339969 pt	35949	35949
3339969 pt	37284 pt	37284 pt
3339969100 pt	3594900	3594900
3339969100 pt	3728400 pt	3728400 pt
3339969100 pt	3728407 pt	3728473 pt
3339969100 pt	3728407 pt	3728475 pt
333996W pt	35940	35940
333996W pt	37280 pt	37280 pt
333996WYWW pt	3594000	3594000
333996WYWW pt	3728000 pt	3728000 pt
333996WYWY pt	3594002	3594002
333996WYWY pt	3728002 pt	3728002 pt
3339971	35961	35961
3339971101	3596101	3596101
3339971103	3596103	3596103
3339971205	3596105	3596105
3339971207	3596107	3596107
3339971209 pt	3596110 pt	3596109
3339971209 pt	3596110 pt	3596111
3339971211	3596113	3596113
3339971215	3596117	3596117
3339971313	3596115	3596115
3339971YWV	3596100	3596100
3339973	35962	35962
3339973101	3596201	3596201
3339973103 pt	3596209 pt	3596203
3339973103 pt	3596209 pt	3596205
3339973103 pt	3596209 pt	3596207
3339973105	3596212	3596212
3339973107	3596214	3596214
3339973109	3596221	3596221
3339973YWV	3596200	3596200
3339975	35963	35963
3339975101	3596301	3596301
3339975103	3596303	3596303
3339975105	3596305	3596305
3339975107	3596309	3596309
3339975YWV	3596300	3596300
333997W	35960	35960
333997WYWW	3596000	3596000
333997WYWY	3596002	3596002
3339991	35693	35693
3339991104	3569304	3569304
3339991108 pt	3569308 pt	3569305
3339991108 pt	3569308 pt	3569306
3339991111	3569311	3569311
3339991212	3569312	3569312
3339991389 pt	3569389 pt	3569300 pt
3339991389 pt	3569389 pt	3569309
3339991YWV	3569300	3569300 pt
3339993	35694	35694
3339993000	3569400	3569400
3339994	35695	35695
3339994000	3569500	3569500
3339996	35696	35696
3339996000	3569600	3569600

1997 published	1997 collected	1992 published
3339998	35699	35699
3339998109	3569909	3569909
3339998218	3569903	3569903
3339998321	3569921	3569921
3339998425	3569905	3569905
3339998436	3569915	3569915
3339998446	3569946	3569947 pt
3339998451	3569950	3569951 pt
3339998556	3569901	3569901
3339998661	3569911	3569911
3339998763	3569923	3569923
3339998870 pt	3569945 pt	3569941
3339998870 pt	3569945 pt	3569942
3339998870 pt	3569945 pt	3569943
3339998870 pt	3569945 pt	3569944
3339998880	3569907	3569913 pt
3339998983	3569908	3569913 pt
3339998986	3569917	3569917
3339998989	3569927	3569927
3339998991	3569931	3569931
3339998995 pt	3569948 pt	3569925
3339998995 pt	3569948 pt	3569947 pt
3339998996	3569952	3569951 pt
3339998YWV	3569900	3569900
3339999	35994 pt	35994 pt
3339999100 pt	3599400 pt	3599400 pt
3339999100 pt	3599498	3599498
333999W pt	35690	35690
333999W pt	35990 pt	35990 pt
333999WYWW pt	3569000	3569000
333999WYWW pt	3599000 pt	3599000 pt
333999WYWW pt	3599098	3599000 pt
333999WYWY pt	3569002	3569002
333999WYWY pt	3599002 pt	3599002 pt