



### UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census Washington, D.C. 20233

NONRESPONSE AT THE CENSUS BUREAU: INDUSTRY DIVISION

Ву

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### NONRESPONSE AT THE CENSUS BUREAU: INDUSTRY DIVISION

### INTRODUCTION

At the U.S. Bureau of the Census, a serious issue common to all surveys is the problem of nonresponse. Despite the fact that, in most cases, our surveys are mandatory and a response is required by law, the problem of nonresponse exists and the number of nonrespondents has remained relatively constant or increased over recent years. This presents a serious problem in that the reliability and accuracy of published statistics depends on the success of our efforts to reduce nonresponse rates. Higher response rates require fewer estimations for delinquent establishments and yield more reliable estimates as a whole.

The personnel and time required to carry out response improvement procedures becomes an integral part of our operations to produce reliable reports. Preventive measures are taken to reduce nonresponse before questionnaires are ever sent out. Tabulations are produced at regular intervals, sometimes as often as weekly, in order to have up-to-date information available on our response rates. Follow-up operations are performed on a strictly scheduled basis in order to best solicit response from nonreporters. These efforts notwithstanding, the failure of panel members to respond to Census Bureau questionnaires has been the cause of discontinued collection of certain data items, and in some cases, discontinuation of complete surveys.

There are several reasons consistently cited by nonreporters in explanation of their lack of willingness to respond to Census Bureau survey questionnaires. Obviously, mandatory surveys elicit higher response rates than do voluntary surveys, and a survey being voluntary is one of the major reasons for respondent delinquency. Many establishments are part of companies that have a corporate policy of not responding to voluntary government surveys. Sometimes respondents do not associate with all data items on our questionnaires. Cost is another factor. Establishments cite staff depletion or lack of staff time for their existing workers to fill out the forms properly and in a timely manner. Efforts are being made by establishments in this case to reduce the government paperwork burden for their companies, as information requested on Census Bureau surveys is but a small portion of their total amount of government reporting.

### IMPROVING RESPONSE RATES

At the Census Bureau, a wide variety of techniques are used to help prevent nonresponse or to increase response rates. Most of these are used for all or nearly all of our surveys with the main difference being the amount of resources allocated to each survey or the specifics of the technique.

1. Work with respondents and data users--In depth analysis of the need and reportability of data items on each form are performed. Consultations both in and outside the Government help determine the justification for the

collection of data items chosen. Trade associations and respondents advice is sought on the classification of product and material details and the feasibility of reporting special items or modified questions.

- Questionnaire design—The layout and design of the questionnaires are considered for ease of respondent reporting. Data items are grouped in convenient sequences with brief and clearly—stated instructions for the respondent. In some cases, questionnaires are tailored for a single industry or small group of industries so different forms of the question—naire exist for the same survey. Another questionnaire design technique is to use short forms that require smaller firms to answer only the most important items.
- 3. Sample design--Samples are selected such that smaller establishments are rotated out of panels every five years. If more than one subsample is drawn from a primary panel, attempts are made to not include the same smaller firms in more than one subsample.
- 4. Administrative records—To save the very small firms from having to fill out a survey form, a few data items are taken from tax and social security records. This helps keep response rates higher because the very small firms are poor respondents, and it is not cost effective to use very many resources to get these companies to report.
- 5. Mandatory authority—The Census Bureau has mandatory authority for all surveys conducted annually or less frequently. Reporting is required for only a few surveys conducted monthly or quarterly. Also, mandatory authority cannot be used for surveys we conduct but which are sponsored by another agency or by a trade association. If a survey is mandatory, that is clearly stated in the instructions and any correspondence. However, many respondents have learned over the years that we do not prosecute nonrespondents as the law allows.
- 6. Confidentiality of data--All survey forms and any correspondence clearly state that the data being collected can be seen only by sworn Census Bureau agents and used only for statistical purposes. We believe our record of not disclosing the data for any one respondent is very important and guard it carefully.
- 7. Prior information—A variety of information is provided to respondents either before or at the time the survey is mailed. For some surveys, brochures are mailed explaining the survey and its importance. Early mailings of a copy of the questionnaires are used for selected large companies as well as companies that have reported late in prior years. This makes them aware of any record-keeping practices they need to change as well as any scheduling of staff time needed to complete the questionnaire. Companies are also asked to furnish the name of a primary contact.

- 8. Due dates for response--Every attempt is made to allow as much time as possible for the response. While due dates are included on the forms, an extension of time is allowed for annual reports and for the once-in-five years census reports. Thus, respondents have as long as 5 or 6 months to complete these reports. This allows respondents to complete their tax reports before having to work on our survey form.
- Follow-up activities--Measures taken to solicit response from delinquent establishments following mailout are performed on a scheduled basis and are equally as exhaustive as the preventive measures taken prior to mailout. Like the preventive measures, there is a limit to their success. Due dates are specified on all surveys, and establishments not responding within the specified number of days are sent a follow-up letter requesting a reply. This action is repeated twice more at predetermined intervals for annual surveys if a response is still not received. The tone of each letter is slightly stronger with subsequent mailings. Nonrespondent establishments receive different letters depending on their size, with stronger efforts extended toward collecting data from the large companies. The tone of the letters also varies according to the status of the survey. For partial nonrespondents, certain important items being blank on a returned form automatically elicit a follow-up letter that repeats that part of the questionnaire. A telephone follow-up is the last effort made to collect the data. Efforts are again aimed primarily at the larger establishments. Many times, however, telephone follow-ups have minimal success in that few establishments are able to answer questions on economic data over the telephone with no prior notice.
- 10. Company visits—The Census Bureau staff visits large, chronic nonrespondents to try and get them to become regular reporters. This is an expensive follow-up technique and is only undertaken for companies vital to the reliability of our published statistics.

### SURVEY PROGRAMS

There are five major program divisions for the surveys within the Industry Division. They are as follows:

1. The most important survey performed annually within the Industry Division is the annual survey of manufactures (ASM). This survey is performed every year with the exception of years ending in 2 and 7, for which the census of minerals and manufactures is conducted. The aim of the ASM is to provide an annual comprehensive statistical profile of the manufacturing sector. Manufacturing activity is characterized by large-scale operations, and while there are many small manufacturing plants, the larger operations account for the major part of the total output of

goods. The manufacturing industries are defined in terms of specific groups of related products made of similar materials and by similar processes. For every plant with one or more employees, data is obtained either directly from the respondent by questionnaires or indirectly from other Federal Government sources. General statistic data at the plant level is aggregated by industry, area, and employment size of establishment and produced in report form. New probability samples for the ASM are chosen every 5 years using the census of manufactures as a sampling frame.

Response to the ASM is mandatory and required by law. A great amount of effort is used to keep ASM response rates as high as possible. Advance letters announcing the survey are sent, as well as informational brochures describing the purpose of the survey, confidentiality, and how the data will be used (see Attachment A). Response rates for the ASM are calculated as a percent of reported data with value of shipments being the key data item used. The more traditional response rates, percentage of mailed cases returning a form, are also calculated. Recent ASM response rates are shown in Attachment B.

The most important survey conducted is the census of manufactures and mineral industries. This is conducted every 5 years and provides the basic data necessary for decision making by the private economy as well as all levels of government. Published census data becomes the foundation of the estimates which will be made by many trade associations and the benchmarks for key Government series such as gross national product (GNP) and industrial production. These reports are the basis on which many Federal policy decisions concerning the business community will be made. The census and the ASM are similar in that they collect much of the same information and are faced with the same types of nonresponse problems. The census, however, collects much greater product and materials data detail.

Response to the Census is mandatory and required by law, but again, much time and effort are expended in keeping response rates as high as possible. A company presidents' letter signed by the Secretary of Commerce is sent to large companies in order to elicit cooperation. Advance informational pamphlets are sent (Attachments C, D, and E), as well as booklets to assist accountants in preparing clients reports, which are mailed in cooperation with accounting professional societies (Attachment F). Early mailings of questionnaires are sent to companies with a history of late reporting in prior years. Response rates are calculated as a percent of reported data, using value of shipments as the key data item. The percentage of mailed cases actually returning a form is also measured. Recent response rates for the census are shown in Attachment B. Scheduled follow-up dates upon which reminder notices were sent to nonrespondents during the 1982 census are shown in Attachment G.

3. The third program of surveys is a set of 105 annual, quarterly, and monthly surveys classified as Current Industrail Reports (CIR). These surveys concentrate on measuring production and/or shipments of products in the durable and nondurable goods areas. These surveys, while important, are smaller in scale than the census and ASM operations and often rely on the data and information acquired from these operations as a frame. The CIRs use both universe and probability samples, but most panels are selected using a cutoff sample. Some monthly surveys have corresponding annual surveys whose panels serve as their sampling frame. For monthly or quarterly surveys not having a corresponding annual survey, an annual counterpart survey is conducted. Since they are annual, response to the counterpart surveys can be required by law, with their main purpose being to collect annual information from monthly and quarterly problem reporters. Of the 105 CIR surveys, 61 are mandatory; of these, 54 are annual surveys, 3 are quarterly, 4 are monthly.

Some of the CIR surveys are sponsored by industry trade associations. For these surveys, staff of the Census Bureau frequently form a close working relationship with trade association members to develop question-naire content and to elicit response. For the annual surveys, scheduled mail follow-ups are sent, followed by telephone follow-ups if the additional mailings fail to get a response. Due to timing, the follow-up operations for the monthly surveys are done almost exclusively by telephone.

The same procedure could be used to estimate response rates for the CIR surveys as is used for the ASM and census, but this would require the selection of a proxy item to be used as a measure of response for each survey. Since the CIR surveys collect mostly product detail and therefore no single item is reported by all respondents, the use of a proxy variable has not been implemented. Rather, response rates for CIR surveys are calculated using the percentage of mailed cases actually returning a form. The Census Bureau is now seeking additional mandatory authority for three quarterly apparel surveys and for our monthly and quarterly textile surveys because of the increasing import penetration in these industries. A comparison of mandatory and voluntary survey response rates for the 1983 annual and monthly CIRs is shown in Attachment H.

4. The Manufactures' Shipments, Inventories, and Orders (M3) survey is the most important single monthly survey conducted in Industry Division. Responses to this survey are elicited from major divisions of companies rather than from establishments. The M3 is used for monitoring the manufacturing sector of the economy, both at the all manufacturing level and for specific industries. This survey is one of the Federal Governments principal economic indicator surveys in that it provides important economic indicators of changes or expected changes in the level of manufacturing. The data are used by several government agencies in analyzing economic conditions, forecasting future trends, and determining current economic policy, as well as to provide important components of the GNP estimates. They are also widely used by businesses and the academia in production planning and market analysis.

This survey particularly has had problems maintaining reporting levels in recent years. The M3 panel consists basically of any companies willing to report, all of which are panel members of the ASM. This survey has very little representation of medium or small-sized companies and therefore is used to make estimates based essentially on month-tomonth changes reported by large companies. A special group of large companies have been categorized as "must" cases. These are cases where one or two reports make up a major portion of an estimate. This survey will not be published until data is reported or estimated for these companies. Follow-up efforts have heightened recently for this survey because of its importance. Intensive telephone follow-ups are conducted every month, and the number of visits to companies by Census Bureau employees to improve response has increased as well. A problem unique to the M3 survey exists in that advance estimates for durable goods are published around the 20th of the following month, causing many respondents to be rushed to get their data together.

Response rates for the M3 survey are calculated based on the percent of reported data with value of shipments as the key data item. For each month, response is measured as a coverage estimate which is the ratio of the reporting companies' value of shipments to that month's universe estimate as estimated from the ASM. Monthly M3 estimates are prepared using the month-to-month percentage changes of the reporting companies to bring forward prior month total estimates. (These level estimates are benchmarked annually to the ASM.) Response rates for total manufacturing industries have traditionally been around 50 percent over recent years, with rates varying within the durable and nondurable goods areas due to differences in divisional reporting by large complex companies. While several attempts have been made to make this survey mandatory, it remains a voluntary survey.

5. The final program of surveys is a set of four surveys designated as the special surveys. These surveys provide measures in several important areas of our Nation's economy: plant capacity utilization, pollution abatement activities, shipments to Federal Government agencies, and industrial research and development. These surveys use probability samples with value of shipments as the key data item. The Census and the ASM panels are used as sampling frames, with new samples being chosen at 5-year intervals. Response to all of these surveys is mandatory and required by law. Follow-up procedures consist of scheduled mailings of reminder notices, followed by telephone follow-ups if the additional mailings fail to get a response. Response rates are calculated using the percentage of mailed cases that return a form. Recent response rates for the special surveys are shown in Attachment I.

### DIRECTIONS IN THE FUTURE

While there are many preventive measures and post-mailout operations carried out to reduce nonresponse at the Census Bureau, quantitative studies taken to evaluate the effects of our efforts have been rare. Upon introduction of the shortened version of the standard questionnaires, a one-year evaluation was done on their effect on response rates. This study yielded no conclusive evidence that the short forms reduced nonresponse, although they did reduce respondent reporting burden. Further research in this vein is planned for the future.

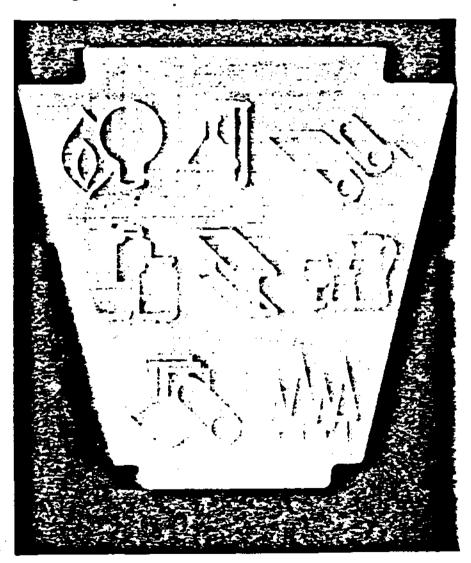
One suggestion to improve response rates as well as to reduce the reporting burden is the use of computer tape or floppy disks by respondents to provide the data we request. For establishments with the facilities having the proper data formats, this concept would save much staff time. Two major difficulties with this approach are the requirements on data formats needed by the Census Bureau for our programs, that is, data in census years are not identical to those in ASM years, and the burden on the company of trying to comply to the different format requirements of different government agencies.

One area presently being considered is the Computer Assisted Telephone Interview (CATI) system, where data are collected by an operator over the telephone and entered as the respondent answers each question. We plan to experiment with this technique to see if it can help improve response rates as well as the timeliness of response.

While a wide variety of procedures have been described here, the Census Bureau is continually working to discover new and more efficient methods of improving response rates. Of the methods described here, while some are more effective than others, they do not cover the entire scope of possible efforts that could be put forth to reduce nonresponse. We at the Census Bureau are looking forward to discussions on successful techniques used in other countries to improve response rates.

Attachments

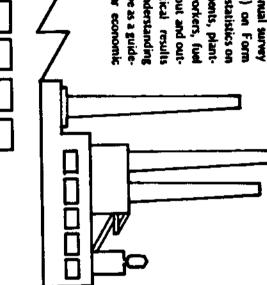
### MANUFACTURES Keystone of Our Economy



U.S. Department of Commerce
BUREAU OF THE CENSUS



usage, and other key input and outvalue of product shipments, plantof manufactures (ASM) on Form put data. The statistical results hours of production workers, fuel MA-100, Requested are statistics on Census conducts the annual survey of the economy and serve as a guide contribute to our understanding post for evaluating our economic Each year the Bureau of the



### Why Collect Data Manufacturing Sectors 9 Fe

of the United States economy. of our Nation's output, manunomy to its current industrial mag-Historically, it moved our country facturing remains the largest sector forward from an agricultural eco-Accounting for some 25 percent

about 20 percent of our labor force and its impact is felt throughout Today, manufacturing employs

> consumers of both electrical energy produced by our mining and farmalso major purchasers of the goods a crucial part in the energy crisis and fuels, manufacturers also play ing communities. As substantial the economy. Manufacturers are faced today.

obtained periodically. tailed information about the strucdetected, it is important that deeconomic influences are to be ture of the manufacturing sector be if significant changes in these

## from the Data Collected?

productivity, capital expenditures, changes in the geographic distribution of industry, company sizes, survey results are used in studying and others use economic statistics tions, universities, research groups, in local areas. For example, the ness trends, and studying trends in market analysis, forecasting busi-Manufacturers, financial institu-

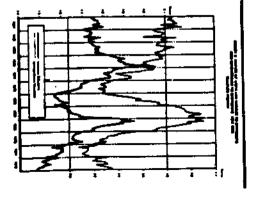


are used extensively as input into key measures of our economy and survey of manufactures also provide cerned with monitoring various ecobasis for actions by those concompiled also help to provide the Product (GNP) and the Index of broad indicators of economic activity such as the Gross National nomic programs, such as the Council Industrial Production. The statistics The data compiled in the annual

> eral Reserve Board. of Economic Advisers and the Fed-

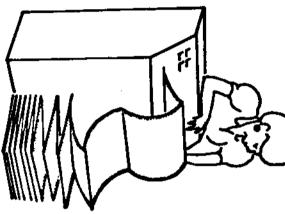
cern to him or her, such as: might well find in the ASM data the answers to questions of con-The individual businessperson

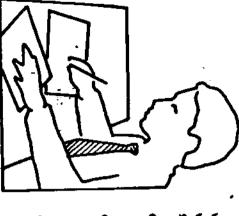
- How does my business compare with the average?
- What is my share of the market?
- How has it changed since last year? Where should I locate a new
- plant or warehouse? Am I manufacturing the right
- How can I estimate my production requirements? goods?
- Is business in my geographical
- area growing or declining?



## What About the Burden of Paperwork?

The forms are reviewed by the Office of Management and Budget (OMB), with the assistance of the Business Advisory Council on Federal Reports to assure the need and continued reportability for each item. The reports are approved by OMB only after they have also determined that the information requested does not duplicate data available elsewhere and is available in the records of most business firms.





In recognition of the paperwork burden faced by the individual businessperson, the following steps have been taken:

- Short forms are sent to selected small manufacturers (reduced number of questions)
- The survey sample is changed every 5 years, thereby reducing the burden on smaller individual companies.
- As the survey is a probability sample, only 1 in 7 manufacturers are asked to report.

## Will My Small Business Really Contribute Anything Significant to the Results?

YES. As your report represents the activity of many other small businesses, we need your report to provide a picture of small business activity.

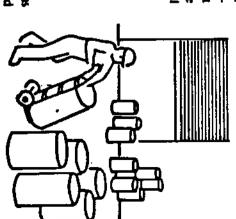
Despite the review procedure mentioned above, we find that some firms do not maintain records in the way the ASM form requests the data. The Bureau of the Census does not expect small business to keep special records just to compile census forms; therefore, the reporting instructions recommend the use of estimates. Most managers of small businesses find that they can prepare estimates that are reliable enough for use in statistical summaries.

## In What Form are the Census Results Made Available?

The results will be released as computer tapes, microfiche, and

printed reports. The results are generally made available within 12 months of the survey year. The tabulations provided are by geographic areas, industries, the United States as a whole, and by States, counties, metropolitan areas, and cities.

The tabulations will include statistics on various products, materials, energy consumed, inventories, assets, and capital expenditures in manufacturing. In addition, there will be a report on industry operating ratios such as output perhour.



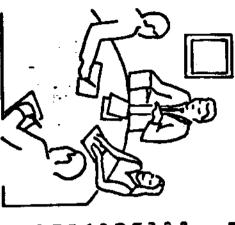
### Where Can I Get Census Publications?

**REQUESTS FOR DATA ON:** 

Computer tape-Data User Services

Division

entitled to free copies of the pubents to the survey questionaire are Washington, D.C., 20233. Respond-Section, Bureau of the Census, through the Subscriber Services Survey of Manufactures will be sold Bureau's regional offices. Reports cated in major cities throughout merce District Offices which are lothrough U.S. Department of Comare also kept for research and rethe United States and Census lications. They will also be available large public libraries. ference at university, college, and Publications from the Annua



Notice of Washington, D.C. 20233 QUESTIONS REGARDING FORM, Bureau of the Census **SEND REQUEST TO:** Micrefiche-Subscriber Services or call our industry Division in please write to the above address assistance or have any questions. INSTRUCTIONS, ETC: number (301) 763-2510 or (301) ₩ashington, 763-7304. Section If you need any additional D.C., lelephone

### Data User Services

A Data User Program has been established in each of our regional offices to provide you with information about Census Data that may be of use in your business or profession. Listed opposite are the names of Census representatives whom you may contact if you would like to use this service. In addition, the Department of Commerce has offices in most major cities across the country. The staff in these offices can provide similar assistance.

### Census Representatives

## Bureau of the Census Regional Offices

Larry Harike (Seattle) 915 Second Ave., Rm. 312 206/442-7800 Seattle, Washington 98174	Dave Lewis (Philadelphia) William J. Green Jr. Federal Bidg.  Room 9244 215/597-8314 600 Arch Street Philadelphia, Pennsylvania 15106	jeflery Hall (New York)  26 Federal Plaza 212/264-4730  New York, New York 10007	E.J. (Bud) Steinfeld (Los Angeles) 11777 San Vicente Blvd., Rm. 810 213/824-7596 Los Angeles, California 90049	Kenneth Wright (Kansas City) 1 Gateway Center 816/374-4601 4th and State Streets Kansas City, Kansas 66101	Timothy Jones (Detrok)  Old Fed. Bldg. & U.S. Courthouse 313/226-7742  Detroit, Michigan 48226	Jerry O'Donnell (Denver) . 575 Union Boulevard 303/234-5825 P.O. Box 25207 Denver, Colorado 80225	Valerie McFarland (Dalias) 1100 Commerce Street, Rm.3C54 214/767-0628 Dalias, Texas 75242	Stephen Laue (Chicago)  St East Jackson Boulevard  112/353-0980  Chicago, 18imois 60604	Larry McNutt (Charlotte) 230 South Tryon St., Suite 800 T04/371-6142 Charlotte, North Carolina 28207	Judith Cohen (Boston) 441 Stuart Street, 10th Floor 617/223-0668 Boston, Massachusetts 02116	Wayne Wall (Adamia) 1365 Peachtree Stree 404/181-2279 Atlanta, Georgia 301
e., Rm. 312 gion 98174	n jr. Federal Bidg. 1 ennsylvania 19106	Bidg., Rm. 37-130 a V York 10007	nte Bivd., Rm. 810 pifornia 90049	er Freets Insas 66101	L U.S. Courthouse etre St., Rm. 565 in 48226	evard to 80225	: Street, Rm.3C54 242	Suite 1304 Boulevard 60604	n St., Suite 800 Carolina 28202	r, 10th Floor usetts 02116	1365 Peachtree Street, N.E., Rm. 625 Atlanta, Georgia 30309

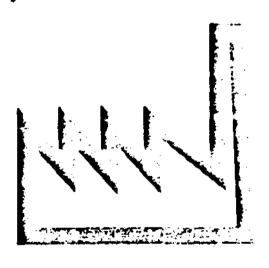
Annual Survey of Manufactures Response Rates; Census Response Rates

	Percent of Mailed Panel Received*	Percent of Total Value of Shipments
1976 ASM	N/A	95.3
1977 Census	80.2	94.9
1978 ASM	82.3	91.7
1979 ASM	84.3	94.0
1980 ASM	84.5	93.5
1981 ASM	86.4	96.0
1982 Census	82.8	94.5
1983 ASM	84.8	94.6

<sup>\*</sup>ASM figures shown are at the time of survey closeout. Report forms received after closeout increased the final response rates to over 90 percent.



### What is the Census of Manufactures?



EC-B-5





## What is the Census of Manufactures?

It is the collection and publication of basic facts about manufacturers in the United States. These facts provide a picture of this segment of the economy as well as contribute to an overall view of the Nation's economic well-being.

The Census of Manufactures is taken once every 5 years. It is the only source of information that includes all establishments producing manufactured goods in the United States. Facts about manufacturers are published for over 5,000 geographic areas, and over 13,000 different types of products.

This census is being taken in 1983 covering all operations during 1982.

## Why is it important?

Often, the source of information upon which important decisions are based is not apparent, but virtually every recognized economic series on the manufacturing industry uses census data.

Many organizations rely on the facts published in the census in advising the business community and in making policy decisions. Some of these are . . .

local chambers of commerce trade associations wholesalers market research firms Federal, State, and local governments

Information about what is happening in manufacturing is published for:

- Employment, payroll, and receipts by variable levels of industry classification, and by size of establishment.
- Quantities and value of products shipped and selected materials purchased.
- City, county, State, metropolitan area, and national measures for analysis of market structure change, trends, and market potential.

## Where do I fit in?

If you are in the manufacturing industry, your firm is being asked to fill out this census form.

Filing your firm's report by the February 15, 1983, due date will help keep costs down and prevent unnecessary reminders being sent to you. If the report cannot be completed by this date, please request an extension of time by writing:

Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47134

Please include your Census File Number (CFN) in any correspondence with the Census Bureau. Your Census File Number is shown on the address label on the report form.

Please do not hesitate to contact the Census Bureau if you have any questions concerning your census report.

### Are estimates acceptable?

Yes. You may estimate the numbers where the questions asked are in a different format than your firm's records.

## How were the questions derived?

The report form you have received is the result of extensive consultation with . . .

- business, trade, and professional associations representing every type of manufacturing activity
- individual business firms which supply and use the data
- local, State, and Federal agencies

A review of proposed questions was made by the Business Advisory Council on Federal Reports, which is made up of representatives from each major field of business. Proposed questions were supplied to the Congress for their review.

Final approval was obtained from the Office of Management and Budget, which is responsible for ensuring that the data requested were not available from other Federal sources.



### is it mandatory? is it confidential?

Your response to this census is required by law (title 13, United States Code). This same law guarantees that the information furnished is kept confidential.

Your firm's report is used solely for developing summary statistics and cannot be used for purposes of taxation, investigation, or regulation.

### When and where can I get copies of the results of the Census?

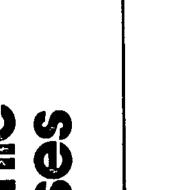
Results will begin to be published in the fall of 1983. Over 1,200 reports covering this and other 1982 censuses will be sold through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. They can also be reviewed and ordered in any of the Department of Commerce District Offices or the Census Bureau's regional offices which are located in major cities throughout the United States.

Publications are kept for research and reference at university, college, and large public libraries.





A Preview of the of the Market Market



Census of Manufactures

Census of Mineral Industries Census of Construction industries

Census of Retail Trade

Census of Wholesale Trade

Census of Service Industries

Special Census Programs:

Enterprise Statistics

Transportation Surveys

Minority-Owned Business Enterprises Women-Owned Businesses

Census of Outlying Areas

U.S. Department of Commerce BUREAU OF THE CENSUS

This booklet provides a preview of the 1982 Economic. Censuses, which will be conducted early in 1983 covering economic activities for 1982. It briefly describes their background, uses and legal authority; gives a brief description of their scope and the data which will be made available; summarizes major changes from the 1977 censuses; and provides a preliminary indication of the approximate schedule for release of the census results.

### BACKGROUND

program, in 1972; and womention was first included with the and mineral industries. Transportaservice industries, manufactures, retail and wholesale trades, selected that year, the censuses covered consuses was begun for 1954. In grated program of economic first included in 1933. An inteof construction, and retail and collected in 1840; the first censuser lation. Minerals data were first included with the census of popu-States was conducted as part of the economic census of the United vasses of the Nation's industrial comprehensive and periodic canowned businesses in 1977. the minority-owned businesses industries were added for 1967; wholesale trades were taken in inquiries on manufacturing were and business activities. The first 1929; and service industries were The economic censuses constitute 1963 censuses; the construction 1810 decennial census, when

In planning the 1982 Economic Censuses, the Census Bureau consulted with trade, business, and professional associations; individual business firms; unions; census advisory committees; government agencies; and others regarding

questions to be asked and desired formats for publishing results. The Businesk Advisory Council on Federal Reports, comprised of representatives of each major field of business activity, reviewed the proposed questions; and the Census Bureau closely screened the questions to eliminate any not clearly in the public interest.

## LEGAL AUTHORITY AND CONFIDENTIALITY

of confidentiality to the file copy confidentiality of information retained by the respondent, of a census questionnaire that is used for the purposes of taxation, specifies penalties for noncompliinvestigation, or regulation. The ual census questionmaires cannot be specific individual or firm. Individdata are published that could revea tion by the Census Bureau. No ance and for disclosure of informareported to it. The law also Census Bureau to maintain the Census law imposes a joint obliga-States Code, sections 131, 191, and law also affords the full protection the identity or activities of any tion on tirms to respond and on the years ending in "2" and "7." The taken at 5-year intervals covering 224, which requires that they be by law under title 13 of the United The economic censuses are required

### **PURPOSES AND USES**

The economic censuses are a major source of facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public.

## FOR THE GOVERNMENT They provide an important of the framework.

- They provide an important part of the framework for such composite measures as the gross national product, inputoutput measures, indexes of industrial production, and indexes measuring productivity and price levels.
- Information taken from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring shortterm economic conditions.
- State and local governments use census data to assess business activities occurring within their jurisdictions.

## IN THE PRIVATE SECTOR

- Companies use the data to forecast general economic conditions and sales; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products.
- Trade and professional associations use the information to study trends which may affect their industry.
- Business magazines use census statistics to provide technical background for articles.
- University and college professors apply census data in their teaching and research.

## SCOPE AND CONTENT

Except for the major difference cited on page 7, the scope of the 1982 Economic Censuses is substantially similar to that of the 1977 Censuses. Tables 1 and 2 summarize the economic areas covered, which include over 7 million establishments, and the content of each census.

## **CLASSIFICATION SYSTEM**

each activity is treated as a sepament, as defined for census pur-Statistics for the economic censuses signicant. of the individual activities is records are available and if the size rate establishment if separate is conducted at a single tocation, goods, or performs services. When unit at a single geographic location poses, is a business or industrial publication primarily in terms of more than one economic activity which produces or distributes the "establishment." An establish are collected and summarized for

nomic censuses are tabulated on the of transportation, data for the ecoand 4-digit detailed industries. groups, 3-digit industry subgroups and retail trade), 2-digit major divisions (such as manufacturing activities in which they are engaged of establishments by the type of system is used in the classification under the auspices of the Office of Classification (SIC) system, defined basis of the Standard Industrial mic activities into broad industrial Management and Budget. The SIC Except for portions of the census The SIC divides the Nation's econo

In some instances, more detailed classification has been devised for census purposes so that additional industries, kinds of business or it specific products can be identified within the SIC categories. In addition, the Census Bureau has developed a system of classifying manufactured products into approximately 1,600 5-digit product classes and about 13,500 7-digit products consistent with the SIC system.

Together with the complementary 1982 Census of Agriculture, which with the gonducted concurrently, with censules will cover over 800 of the approximately 1,000 industries within the SIC system.

# SIC COVERAGE IN THE 1982 ECONOMIC CENSUSES

excludes 805, 821, 822, 863, 865, 866, and 88  Not covered; parts included in the 1982 Census of Governments  Not covered	91 thru 97	5
Not covered except for 6552, which is in the Cansus of Construction Industries Consus of Service Industries	60 thru 67	Finance, insurance, and rest estate
Census of Wholesale Trade Census of Retail Trade	50 thru 51	Wholesele trade
Not covered except for special transportation surveys, and 422 and 4722 which are included in the Cansus of Service Industries	40 thru 49	Transportation, communication utilities
Census of Manufactures	20 thru 39	Manufacturing
Census of Construction Industries	16 thru 17	Construction
Census of Mineral Industries	10 thru 14	Mining
Not covered; parts included in the Census of Agriculture	01, 02, 07, 08, 09	Agriculture, forestry, fishing, hunting, and trapping.
1982 Economic Censuses	SIC Range	Economic Araes

W GEOGRAPHIC AREAS

AVAILABLE

In general, the most detaile

will be published at the Na

ual firms and to reduce overall retail centers, will be available from detail, including data for major disclosing information for individsmaller areas in order to avoid fewer statistics appearing for detail will vary by census, with cal areas. The level of geographic for states, and many will be shown most statistics will be available level. In addition to National data, will be published at the National In general, the most detailed data publishing costs. The maximum and standard metropolitan statistifor cities and other places, counties,

the census of retail trade, which covers almost 2 million establish ments. Data for selected small areas not included in the printed reports will be available on microfiche.

### INFORMATION THAT WILL BE PROVIDED

Data items from the component censuses and special surveys will vary significantly with the characteristics of the industries. However a number of key measures, such as sales (receipts or value of shipments), employment, and payroll, are almost universal.

### Table 2 THE BASIC CENSUSES

and voluntary	All employees, first quarter	PAYROLLS All employees, entire year	Production (construction) worker hours	Employment size of firms	Employment size of establishments,	Production (construction) workers	All employees	Concentration by major firms	Single-unit and multi-unit firms	Firms	Establishments by legal form of organization	Establishments with payroll	All establishments	NUMBER OF ESTABLISHMENTS AND FIRMS	Major data itums
×	×	×	L	×	×		×	×	×	×	×	×	×		Retail trade
×	×	×		×	×		×	<u> </u> ×	×	×	×	×			Wholesale trade
×	×	×	L	×	×		×	<u> ×</u>	×	×	×	×	×		Service industries
×	××	×	×		×	×	×	<b>1</b>				×	×		Construction industries
×	<b>X</b> .	×	×		×	×	×	1×	×	×	×	×		_	Manufactures
×	×	×	×		×	×	×	1	×	×	×	×			Mineral industries

By size of firm	By size of establishments	By class of _ustomer	By product or line	Establishments with payroll	All establishments	SALES RECEIPTS, OR VALUE OF SHIPMENTS	Major deta Home
×	×	×	×	×	×		Retail trade
×	×	×	×	×	_		Wholesale trade
×	×	_	_	×	×		Service industries
	×			_	×		Construction industries

OTHER Value added	Beginning of 1982	DEPRECIABLE ASSETS, GROSS VALUE BUILDINGS/EQUIPMENT) Beginning of 1982	CAPITAL EXPENDITURES Total	COPERATING EXPENSES  Cost of materials, etc. Specific materials consumed (quantity and cost) Cost of fuels. Electric energy consumed (quantity and cost). Contract work. Products bought and sold Advertising. Rental payments, total. Buildings and structures Machinery and equipment Communication services Purchased repairs
×××	××	××××	××××	xxxxxx x x
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×× ××	××	××××	××××	**** *****

### **PROGRAMS** SPECIAL CENSUS

common ownership or control in ment data records from the basic controlling firms. Data on sepacharacteristics of the owning or censuses are regrouped under in the basic censuses are also ments of multiunit firms covered order to show various economic included.

Manufacture

Mineral industries

Truck Inventory and Use

cial trucks.

 Commodity Transportation Survey -

manufactures. shipments originated by characteristics of commodity

## **BUSINESS ENTERPRISES**

tion on sales, employment, payroll, persons of Spanish origin, Asian businesses owned by Blacks, industry and geographic area on and legal form of organization, by Basic statistics including informaother minorities. Americans, American Indians, and

and legal form of organization, by tion on sales, employment, payroll, Basic statistics including informaindustry and gengraphic area on businesses owned by women.

rately reported auxiliary establish A program in which the establish

## TRANSPORTATION SURVEYS

××

××

Information on the physical Survey -

32 million private and commeruse of the Nation's more than characteristics and operational

Statistics on the volume and

## SURVEY OF MINORITY-OWNED

### SURVEY OF WOMEN-OWNED BUSINESSES

## **ENTERPRISE STATISTICS**

### FOR 1982?

essing techniques, and budgetary stantially similar to those for While the censuses will be subprogram and coverage to reflect being made to the publication resources. 1977, a number of changes are

## PUBLICATION DIFFERENCES

 Preliminary Industry Reports of retail trade, wholesale trade, geographic areas or in subject only in reports for specific industry statistics were available reports for selected industries. and service industries. In 1977 will be issued from the censuses

 Earlier Release of Census processing techniques, more publication of census results forms for small firms will permiized by industry, and short extensive use of forms special-Results - Improvements in data for the 1977 censuses. from 2 to 6 months earlier than

- Puerto Rico
- Virgin Islands
- ueng.

not mineral industries) similar to trade, selected service industries, Statistics on retail and wholesale States in the basic censuses. those provided for the United manufactures, construction (but Northern Mariana Islands

users, improvements in data proc the most important needs of data

## **COVERAGE DIFFERENCES**

:

- The Census of Service Industries colleges and universities, labor mentary and secondary schools, will not include hospitals, ele-E ON unions, and political organiza-
- The National Travel Survey, part of the 1977 Census of Transporfor 1982. tation, will not be conducted
- The Commodity Transportation year later than the basic Consuses. Survey will be conducted one

### **PUBLICATIONS**

- Printed Reports
- Microfiche
- Computer Tapes

Censuses will be released in printed reports, on microfiche, and on com-

The results of the 1982 Economic

prior to the final reports. After the

××

×

××

some of these series, preliminary reports are issued several months

subjects, and special reports. For industries, geographic areas, usually consist of separate series for individual economic censuses puter tapes. Printed reports for the

> usually combine made available o detail than the p data series, whi addition, a num on public-use co summary statist on microfiche. material will also Under present p previously in the material and gra may contain add In many instance reissued in hard have been published, they

and public-use

final separate soft cover reports

Estimated time of first publication in period

_					ich provide more reports, are on both microfiche computer tapes.	pans, me published to be made available Most of these same tics will be available computer tapes. In the published	aphics not published re individual reports.	d cover volumes, ices, these volumes ditional explanatory	roft cover reports bished, they are red, assembled, and
SPECIAL CENSUS PROGRAMS Enterprise Statistics.  Truck Inventory and Use. Commodity Transportation Survey Industry Reports.  Commodity Transportation Survey Geographic Area Reports Outlying Areas.  Minority-Dwined Business Enterprises.	MINERAL INDUSTRIES Preliminary Inclustry Preliminary Summary Final Industry Geographic Area Subject	MANUFACTURES Preliminary Invostry Preliminary Geographic Area Preliminary Summary Final Industry Final Geographic Area Subject	CONSTRUCTION INDUSTRIES Preliminary Industry Preliminary Summary Final Industry Geographic Area Special	WHOLESALE TRADE Preliminary Industry	SERVICE INDUSTRIES Preliminary Industry Geographic Area Subject	RETAIL TRADE Proliminary Inclustry Geographic Area Major Retail Centors Subject Merchandese Line Sales		Series	Table 3 PRELIMINARY PUBLICATION SCHEDULE
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	× .	××	×			×	Early 1984	meted	HE
•	×	×	×	×	×	×	Mid 1984	Estimated time of publication in se	<u> </u>

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×

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1984

1985

××

× ×

### ON THE CENSUSES MORE INFORMATION

the availability of census results and and other data products. how to obtain published reports the censuses and inform users of information about the content of which will provide more detailed There are a number of sources

 Mini-Guide to the 1982 reports. A similar mini-guide to and related surveys and special each of the economic censuses and publications available for mation on the scope, coverage, the 1977 Economic Censuses classification system, data items, refruse in the summer of 1983, Economic Censuses will provide more detailed infor-This publication, scheduled for

conferences and workshops, desproviding answers to user quescribing major new data releases their data products, announcing A monthly publication reporting Washington, D. C. 20402.) Government Printing Office, Superintendent of Documents, tions. (\$20 per year from the and reference materials, and plans for upcoming censuses and

 Monthly Product catalog numbers, Census notapublications, microfiche, and prices. Each announcement also tions, tile order numbers, and Entries include GPO stock or during the previous month. computer tapes — made available hundreds of new products — A monthly listing of the Announcement ncludes order forms. (Free)

### Additional information is available TO OBTAIN INFORMATION

Washington, D.C. 20233. from the Bureau of the Census,

 For general information about contact tional publications described the censuses or the informa-

Data Users Services (301) 763 - 4100

 For detailed information about grams, contact the contents or publications from specific censuses or pro-

Business Division (301) 763-7039 Service Industries (301) 763-7038 (301) 763-5281 Wholesale Trade Retail Trade

**Industry Division** Manufactures Nondurable Goods Industries Ourable Goods Industries (301) 763-7304 (301) 763-2510

Data User News –

is currently available.

Construction Statistics Division (301) 763-5938 Construction Industries (301) 763-5435

Mineral Industries

Economit Surveys Division Enterprise Statistics Outlying Areas (301) 763-1804 (301) 763-7086 ransportation

Women-Dwned Businesses (301) 763,-,7086 Minority-Owned Business (301) 763-7778 **|301| 763-7086** Enterprises

> cerning the uses of census data. help in answering questions conoffices in the following large cities. ists in these offices are of particular The Information Services Special-In addition, the Bureau has regiona

NE., Room 625 (404) 881-2271 Atlanta, GA 30309 1365 Peachtree Street

(617) 223-2327 441 Stuart Street, Boston, MA 02116 10th Floor

Suite 800 Charlotte, NC 28202 (704), 371 - 6142230 South Tryon Street,

55 East Jackson Blvd., Suite 1304 Chicago, IL 60604 (312) 353-6251

(214) 767-0621 Room 3C54 Dallas, TX 75242 1100 Commerce Street,

P.O. Box 25207 575 Union Blvd., (303) 234-3924 Denver, CO 80226

> U.S. Courthouse, Detroit, MI 48226 (313) 226-7742 Room 565, Federal Building & 231 West Lafayette

4th and State Streets One Gateway Center Kansas City, KS 66101 **(816) 374–4601)** 

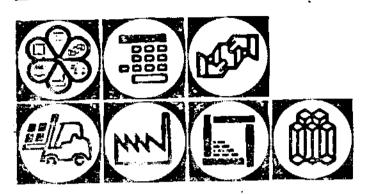
(213) 824-7317 11777 San Vicente Blvd., Los Angeles, CA 90049 Room 810

Federal Office Building, (212) 264-3860 Room 37-130, New York, NY 10278 26 Federal Plaza

600 Arch Street, Federal Bidg., Philadelphia, PA 19106 Room 9244 William J. Green, Jr., (215) **597–4920** 

North (206) 442-7800 Lake Union Building, Seattle, WA 98109 1700 Westlake Avenue,

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### Advance Information to Assist Your Company in Preparing for These Censuses

U.S. Department of Commerce BUREAU OF CENSUS

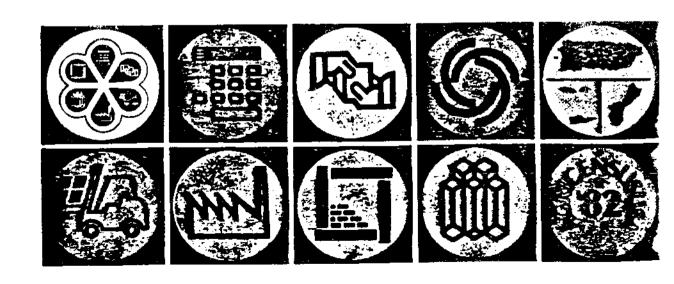
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### 1932 Censuses

EC-26

### Internation to Assist Accountants in Preparing for the 1982 Economic and Agriculture Censuses



of price Courses report farms. It is mailed to respondents at the other forms are decidoped so that implies a complete these questionais.

See estimates if necessary — we know the many of your clients will ask you detine the forms. Hany accordants will also receive census forms.

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and the calendar year?

. and a restrict the new fine sief questions?

This is the company to the design the Lie problems that generate these questions.

ાર્પેદ્વારા માં આવા માના વર્ષો કર્યા હતા છે. તે પોતાલ you have to દુ કરાઈ on sompleting these questionnairs. We have in neroic in table of contents to help you find the appropriate sections.

We would file at the rise of the years work over the years in completing census report forms. Your conscientious effect have reclared the problems we face in processing the completed reports. Your cooperation has been invaluable in developing the statistical measures of the changes occurring in the economy. We also thank the NSPA and the AICPA for their effort in helping as simplify the report forms and so prepare this booklet in order to reduce the paperwork burden of these censuses.

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	IV.	TIME CARMING DECREES,		. •

### 1982 ECONOMIC CENSUSE - FOLLOWUP DATES

	COU			MONTH Y YEAR	APPROXIMATE QUANTITY
				Decemb e	3,000,000
$k_{\rm total}$	.*	⊹ಕ್		February/ 1952	7,300,000
	Turk Comments	· · · · · · · · · · · · · · · · · · ·		March 1	200,000
BRIGHT.	ារីតែមានផ្	-		March/April 1983	700,000
्रेट अफ				April/M. 1583	115,000
है।इंस <sup>१</sup> ०	**Sup			Apr 11/May 1983	450,000
s. C	- 15			May 198.	382,000
£0	the sp	·	•	June 1983	12,000

Part and as hobruary 15, 1983

### 1983 ANNUAL CIR RESPONSE FATES (Percent)

	C PATORY	VOLUNTARY
AT 1st FOLLON-UP	23	14.2
AT 2nd FOLLOW-UP - T	5₹ . Ú	33.5
AT 3rd FOULT UP	AMP	44.9
FINAL	75.3	58.9
G SURVEYS AUTIVE ESTABS	54 30 <b>,29</b> 0	9 3,262

### 1983 MONTHLY CIR RESPONSE RATES (Percent)

	WDATURY	VOLUNTAR'
PRIOR TO 10:LOW-UP FINAL	36.8 92.3	52.8 80.8
SURVEYS	3	23

### 1983 QUARTERLY CIR RESPONSE RATES (Percent)

### (ALL ARE VOLUNTARY)

	AVERAGE	<u>HIGH</u>	LOW
PRIOR TO FOLLOW-UP FINAL	14.3 66.8	28 84	7 54
# SURVEYS	11		

Attachment I

### SPECIAL SURVEYS - HISTORICAL RESPO

rcent)

· ·	MQ-C1: Plant Capacity Utilization	MA-200: Polition Abatewent	MA-175: Shapments to prismal Gov't succes
1978	93.7	·5	.6
1979	<b>9</b> 6.0	57.0	
1980	87.0	93.3	
1981	90.0	88	, d
1982	90.4	<b>9</b> 9.0	₹5.9
1983	91.7	£5.5	-9.1
1984	91.9	87.6	ಎ <b>. 5</b>