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**U. S. DEPARTMENT OF COMMERCE**

CHARLES SAWYER, Secretary

**BUREAU OF THE CENSUS**

ROY V. PEEL, Director (Appointed March 9, 1950)

J. C. CAPT, Director (Retired August 17, 1949)

**CENSUS OF MANUFACTURES: 1947**

**PRODUCT SUPPLEMENT**

Quantity and Value of Shipments and/or  
Production for More Than 6,000  
Products Manufactured by  
United States Industry



Prepared under the supervision of

**MAXWELL R. CONKLIN**

Chief, Industry Division

UNITED STATES  
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WASHINGTON : 1950

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Bureau of the Census

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## ACKNOWLEDGMENTS

The Census of Manufactures is a large-scale enterprise requiring for its successful completion the cooperation of many thousands of individuals and organizations. In determining the information to be collected and in designing the report forms the Bureau of the Census obtained the advice of many Government agencies; in particular, the Bureau of the Budget, the Department of Agriculture, the Bureau of Mines, the Bureau of Labor Statistics, and the Office of Domestic Commerce of the Department of Commerce. In developing the content of the product sections of the individual industry reports, nearly all trade associations and many individual manufacturers contributed generously of their time and counsel.

The primary responsibility for the 1947 Census of Manufactures was centered in the Industry Division of the Bureau of the Census. Other divisions of the Bureau, particularly those dealing with field activities and machine tabulation operations, also had important functions in particular phases of the Census.

In addition to the Bureau staff members shown above, special recognition should be given to the contribution of a number of persons. In the Economic Planning Section of the Industry Division, Pamela Brown and Irvin Strauss assisted in the preparation of instructions for reporting manufacturers and field enumerators, in the development of specifications for reviewing the general sections of the reports, and in the compilation of historical series; Murray D. Dessel assisted in the selection of metropolitan areas, developed the methods used for avoiding the disclosure of operations of individual companies, and directed the application of these methods. Carl W. Anderson was responsible for developing specifications for machine tabulation. In the Sampling Techniques Section Leon Gilford assisted in the conduct of spot sampling tests of the adequacy of the original mailing list and of the effectiveness of editing and other procedures, and in the design of a national area sample to provide a quantitative measurement of the completeness of the Census of Manufactures.

In the Operations Section of the Industry Division, Francis H. Wilmer was responsible for the preparation of the list of manufacturers and for the mailing and check-in of report forms and other materials; Robert W. DePuy, for the clerical operations of coding and editing report forms and for the statistical review of tabulations; Charles G. Parsons, for the preparation of the procedures used in clerical operations; and Andrew J. Danton, for the preparation of manuscript for printing.

In the commodity sections of the Industry Division, a large staff of specialists was responsible for developing the report forms for the various industries, for reviewing problem reports and tabulations for the industry volume, and for preparing the text accompanying that volume. The names of these persons are shown in the appropriate reports for groups of related industries which were published separately.

In addition, it is appropriate to mention four members of the Industry Division staff who played an important part in the Census of Manufactures but who transferred from the Bureau before the completion of the Census: William H. Mautz, Assistant Chief of the Division until May 1948; Albert A. Eisenstat, Chief of the Industrial Census Staff until September 1947; Frank A. Hanna, Special Assistant to the Chief of the Division until September 1948; and Nicholas Yaworski, Chief of the Minerals Section until July 1948.

In the Field Division, Jack B. Robertson and John M. Bell, both Assistant Chiefs, assisted in laying out and directing the field work for the Census of Manufactures. George K. Klink was primarily responsible for field operations for the eastern sawmill industry which was conducted entirely by field enumeration; and Charles F. Haas, for liaison work between the Industry Division and the Field Division on the Census of Manufactures as a whole.

Lancelot W. Armstrong of the Machine Tabulation Division contributed in an outstanding manner, both in adapting the complex Census of Manufactures report forms to machine tabulation techniques and in supervising the tabulating operations.

In the Administrative Services Division, Franklin L. Thatcher and William L. Vaughn arranged for the printing and publishing of the Census of Manufactures by the Government Printing Office.

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## PRODUCT SUPPLEMENT

This volume assembles all the product statistics published in the more than 100 product tables of *Volume II—Statistics by Industry*. It presents in convenient reference form the 1947 and comparative 1939 statistics for approximately 6,500 products manufactured by United States industry.

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