

LIST OF PUBLICATIONS
ISSUED BY THE BUREAU OF MINES
FROM JULY 1, 1910, TO JANUARY 1, 1960

With Subject and Author Index

By

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INTRODUCTION

IN THE HALF-CENTURY that has passed since the Bureau of Mines was established in July 1910, the research and technologic investigations conducted by the Bureau's scientists, engineers, and other personnel have helped significantly in improving health and safety in the mineral industries and have contributed substantially in conserving the Nation's mineral resources through improved techniques in the mining, treatment, and use of mineral commodities.

From Bureau laboratories have come new materials for industry and better methods of extracting and processing minerals and mineral fuels. Bureau safety investigations—complemented by equipment testing and by programs of mine inspection and education—have brought about safer and more healthful working conditions.

Resource studies by the Bureau have formed the basis for a fuller understanding of America's mineral heritage. The statistical data and economic information provided by the Bureau have enabled the Government and others to plan more effectively for industrial progress and for national defense.

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In its early days, the Bureau of Mines concerned itself principally with coal and coal mining. Bureau employees directed their efforts mainly toward reducing coal-mine accidents and disasters which had taken tremendous tolls in life each year. With the cooperation of State agencies and of mine management and labor, health and safety in the mineral industries have been markedly improved. Consolidation of these gains and ultimate achievement of the safest working conditions possible wherever men mine and process minerals are still primary objectives of the Bureau.

Also of major importance are the many and varied scientific investigations the Bureau conducts to advance technology.

At research centers and field installations in every region of the United States, the Bureau's scientists and engineers are carrying on studies involving virtually all mineral commodities, including mineral fuels, to further the prudent use of the Nation's mineral resources.

As these studies are completed, the Bureau makes public its findings as promptly as possible. Generally, the Bureau reports in its own series of publications or, occasionally, in publications issued by a cooperating organization.

Frequently, however, to disseminate information more rapidly or to reach potential users of the material more directly, it relies upon scientific, technical, and trade journals, convention proceedings, books, and other outside publications.

In this year of its 50th anniversary, the Bureau is issuing two comprehensive indexes—a "List of Journal Articles by Bureau of Mines Authors, Published July 1, 1910, to January 1, 1960,"² and this volume which lists the Bureau's own publications over the same 50-year period along with certain reports of Bureau findings that were published by cooperating organizations. Also included in this catalog are documents called *Schedules*, which are printed in the Federal Register.

To make this list of the Bureau's publications as useful as possible, the thousands of items it contains are presented chronologically within each class, or series, of reports. Discontinued series and individual reports that were out of print when this catalog went to press are included, and their status is indicated, because they may still be found in various libraries even though they no longer are available from the Bureau of Mines or from the Superintendent of Documents.

Omitted numbers within a series are those of publications whose contents have been incorporated in other Bureau reports. Because some series of Bureau reports contain both free and sales publications, and because the cost of sales publications varies, prices are indicated in the individual listings of all publications for which charges are made. Each item in this list of Bureau publications has been entered in subject and author indexes at the back of the volume. The subject index has been carefully cross-referenced to make easier the finding of a particular item.

The following series or types of publications are listed in this volume (discontinued series are indicated by an asterisk):

Bulletins describe major Bureau investigations or studies that are considered to have permanent value. Usually a Bulletin describes research that has been completed, but it may cover a significant phase of a continuing long-range project.

**Technical Papers* have been incorporated in the Bulletin series.

**Economic Papers* also have been discontinued and absorbed into the Bulletin series.

**Miners' Circulars*, discontinued except for a few issues that are being revised, consist primarily of safety publications for miners and mine supervisors. The circulars describe meth-

ods of preventing accidents and give instructions concerning safe use of equipment and materials, first-aid and mine rescue procedures, and health protection. Technical information, formerly included in this series, now is presented in Bulletins.

Reports of Investigations comprise the largest single class of Bureau publications, reflecting efforts to get technological and other information to the mineral industries and to interested segments of the general public as quickly as possible. Reports of Investigations discuss significant research developments of current interest. They frequently are supplemented by later publications in this same series as work on a problem progresses and, ultimately, may be presented as a completed project in a Bulletin.

Information Circulars are digests, reviews, abstracts, and discussions of activities and developments in all phases of the mineral industries. Although they may contain references to Bureau research, they are intended primarily as general treatises on particular minerals, specific mineralized areas, methods and practices at representative mines and plants, economic developments, or industrial health and safety programs. Resource studies and materials surveys also are covered in this series of publications.

Cooperative Publications are reports usually published by organizations other than the Bureau of Mines, which describe work performed cooperatively by the Bureau on subjects of mutual importance and interest. Monographs, which usually describe research related to the production, distribution, or utilization of mineral fuels, are typical cooperative publications. Although listed among reports issued by the Bureau, some are issued by other publishers.

Minerals Yearbooks are definitive statistical and economic works—presently issued in three annual volumes—comprising reviews of the mineral industries in the United States and in many foreign countries. Yearbooks present official Government statistics on production and distribution of metals, minerals, and mineral fuels. Written in an interpretive manner, they include factual accounts of economic and technologic developments and trends. Separate chapters of the latest Yearbook can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., at the prices indicated.

**Mineral Resources* were predecessors of the Minerals Yearbook. They were issued from 1924 through 1931, and contain information similar to that now presented in the Yearbooks.

Handbooks are special manuals issued as guides to practices recommended by the Bureau in promoting safety and efficiency in

²This publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D.C.

the mineral industries and in the use of mineral products.

Annual Reports of the Director describe progress made during each fiscal year in all phases of Bureau of Mines activity.

Schedules describe procedures and methods employed and fees charged by the Bureau for analyzing coal and for testing mining equipment and accessories to determine permissibility for safe use by the mineral and allied industries.

Periodical Reports—issued on a weekly, monthly, quarterly, annual, or semiannual

basis—convey current-statistical and economic data for a variety of minerals and mineral fuels, both in the United States and abroad. This series also includes timely reports on developments in many industrial health and safety programs. Information is preliminary and later is incorporated into *Minerals Yearbooks*.

Earlier comprehensive lists of Bureau publications and several reports, pamphlets, charts, maps, and similar documents not included in regular Bureau series are listed under the heading "Miscellaneous" on page 352.