UNITED STATES
DEPARTMENT OF THE INTERIOR

FRED A. SEATON, SECRETARY

FISH AND WILDLIFE SERVICE ARNIE J. SUOMELA, COMMISSIONER

DONALD L. MCKERNAN, DIRECTOR

DIVISION OF INDUSTRIAL RESEARCH
AND SERVICES

HAROLD E. CROWTHER, CHIEF



A review of developments and news of the fishery industries prepared in the BUREAU OF COMMERCIAL FISHERIES.

Joseph Pileggi, Editor H. M. Bearse, Assistant Editor

Mailed free to members of the fishery and allied industries. Address correspondence and requests to the: Chief, Branch of Market News, Bureau of Commercial Fisheries, U. S. Department of the Interior, Washington 25, D. C.

Publication of material from sources outside the Bureau is not an endorsement. The Bureau is not responsible for the accuracy of facts, views, or opinions contained in material from outside sources.

Although the contents of the publication have not been copyrighted and may be reprinted freely, reference to the source is appreciated.

The printing of this publication has been approved by the Director of the Bureau of the Budget, May 21, 1957.

CONTENTS

COVER: Fish oil research in U. S. Bureau of Commercial Fisheries technological and university research laboratories has led to the isolation of important chemical compounds for use as raw materials in the manufacture of industrial and pharmaceutical products. As production of these materials gains momentum, new and expanding markets for fish oils are opened.

	Page
The Nonsaponifiable Fraction of Menhaden Oil, William A. Mosher, Wiley H. Daniels, Jack R. Celeste, and William H. Kelley	1
Experimental Studies to Extend Uses of Fish Oils in the Leather Industry: Part 1 - Experiments with Menhaden Oil, by Victor Mattei and W. T. Roddy	7
Significance of Ultraviolet Absorption Data of Fish-Oil Fatty Acids, by Edward H. Gruger, Jr.	12
Variation in Physical and Chemical Characteristics of Herring, Menhaden, Salmon, and Tuna Oils, by Raymond O. Simmons	15
Chemical and Nutritional Studies on Fish Oils, by O. S. Privett, J. R. Chipault, H. Schlenk, and W. O. Lundberg	18
Fish-Oil Research at the Seattle Fishery Technological Laboratory, by Phillip A. Hart	23
Progress on Studies in Utilization of Fish-Oil Derivatives in Ore Flotation by S. R. B. Cooke	23
Review of Progress on Oxidative Deterioration of Fish and Fishery Products, by Maurice E. Stansby and W. D. Brown	24
Review of Basic Research on Oxidative Enzymes in Fish Tissue, by W. Duane Brown, Michael R. Gumbmann, A. L. Tappel, and M. E. Stansby	28