

U.S. DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
Robert M. White, Administrator

National Marine Fisheries Service
Robert W. Schoning, Director



Marine Fisheries Review is published monthly by NMFS Scientific Publications Staff, Room 450, 1107 N.E. 45th St., Seattle, WA 98105.

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

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

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director, Office of Management and Budget, through May 31, 1978.

Editor: J. D. Harrell
Managing Editor: W. Hobart

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Price \$1.10 (single copy). Subscription price: \$12.75 a year, \$15.95 a year for foreign mailing. Controlled circulation postage paid at Tacoma, Wash.

Marine Fisheries Review

Vol. 39, No. 4
April 1977

CONTENTS

Articles

- 1 Past, Present, and Future Uses of Minced Fish
Frederick J. King
- 5 Effects of Cadmium, Mercury, and Silver on Marine Animals
Anthony Calabrese, Frederick P. Thurberg, and Edith Gould
- 12 Fishery Engineering Advancements: A 5-Year SEFC Progress Report
Thomas M. Vanselow

Departments

- 25 NOAA/NMFS Developments
- 30 Foreign Fishery Developments
- 36 Fishery Notes
- 38 Publications
- 40 In Brief. . . .