JOHN L. FARLEY, DIRECTOR



MMERCIAL FISHERIES REVIE



Page

Page

36

38

40

40

41

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

A. W. Anderson, Editor

J. Pileggi, Associate Editor H. M. Bearse, Assistant Editor

Mailed free to members of the fishery and allied industries. Address correspondence and requests to the: Director, Fish and Wildlife Service, U.S. Department of the Interior, Washington 25, D.C.

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 contained in material from outside sources.

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

The printing of this publication has been approved by the Director of the Bureau of the Budget. August 2, 1955. (8/31/57)

CONTENTS

COVER: Depicts the third and last (king salmon) of three stamps issued this year to emphasize the importance of fish and wildlife conservation in America. This king salmon stamp, reproduced from a drawing by Bob Hines, artist of the U.S. Fish and Wildlife Service, was released at Seattle, Wash., on November 9, 1956. This marks the first time that United States stamps have been issued to call attention to the country's important fish and wildlife resources. (See pp. 32 & 33 of this issue.)

Development of Markets for Underutilized Lake Erie Correlation of pH and Quality of Shucked Southern Oys	FishP sters, by	rogress Report, by Ernie D. Premetz
RESEARCH IN SERVICE LABORATORIES: Cold Storage Life of Fresh-Water Fish-No. 3 (Lake Herring, Northern Pike, and Whitefish) Cold-Storage Studies on Gulf of Mexico Yellowfin Tuna Fungicidal Properties of Modified Unsaturated Fish Oils North Atlantic Shrimp Keeping Quality in Cold	Page 16 16 18 19	TRENDS AND DEVELOPMENTS (Contd.): Federal Purchases of Fishery Products: Portions Included in Fresh or Frozen Fish Federal Specification Fresh and Frozen Fishery Products Purchased by the Department of Defense, August 1956 Fish and Wildlife Motif on United States Postage Stamps Fish and Wildlife Service:
Storage Technical Note No. 34 - Growth Characteristics of the Pink Yeast That Causes Discoloration of Oysters TRENDS AND DEVELOPMENTS: California:	20 21 24	Research Helps Bring Top-Quality Fish Closer to Consumer's Table "Fish Parade" Promotion by Industry Backed by Interior Department Florida:
1956/57 Sardine Season off to a Good Start Periodic Flights to Study Pelagic Fish Distribution (Airplane Spotting Flight 56-7) Survey by N. B. Scofield to Assess Relative Abun-	24 24	Airboat Gill-Netting
dance of Sardines (Cruise 56-S-4) Yellowfin and Skipjack Tuna Tagged and Measured by Clipper Elsinore (Cruise 56-C-4) Canned Fish Consumer Preference Study:	25 26	Walleye in Lake Huron (Cruise 5) Lake Huron Investigations Continued by M/V Cisco (Cruise 6) Market for Frozen Foods Increases 50 Percent
Tuna Most Popular Canned Fish	27	in Year North Atlantic Fisheries Exploration and Gear Research:
Canned Sardines Purchased Two or More Cans at a Time Deveined Canned Shrimp Preferred by Con- sumers	28 29	Deep-Water Trawling For Ocean Perch by M/V Delaware (Cruise 26) North Atlantic Fisheries Investigations: Two-Year-Olds Predominate in Red Hake Popula-
CansShipments for Fishery Products, January- July 1956	29 30 30	tion (M/V T-79, Cruise 6) Underwater Television Equipment Tested Under Tow by Vessel T-79 (Cruise 7 and 9) North Atlantic Herring Research: Herring Exploration Along Maine Coast and Bay of Fundy by M/V Metacomet (Cruise 6)

CONTENTS (CONTINUED)

FACTORS TO BE CONSIDERED IN THE FREEZING AND COLD STORAGE OF FISHERY PRODUCTS

Fishery Leaflet 429 (<u>Refrigeration of Fish</u> - <u>Part 3</u>, "Factors to be Considered in the Freezing and Cold Storage of Fishery Products") is one of a series of leaflets on the refrigeration of fish. This leaflet is concerned with the changes which

take place during the freezing and cold storage of fish and with the packaging materials presently in use for fishery products. The effects of temperature changes, freezing rates, freezing methods, icecrystal size, and other factors on the fish meat during freezing are discussed. Changes in texture, color, and flavor of the meat of frozen and stored fishery products as related to the effects of rancidity, desiccation, storage temperature, available oxygen from the air, and presence of other pro-oxidents, etc., are treated in detail. Information on the frozen life of fishery products is



included. The commonly-used protective glazes, films, overwraps, and cartons are discussed and the relative merits of the various types of protective packaging are pointed out.

In addition to Part 3 of this series, Part 4, "Preparation, Freezing and Cold Storage of Fish, Shellfish, and Precooked Fishery Products"--Fishery Leaflet 430--has been released and free copies of both FL. 429 and FL. 430 can be obtained from the Division of Information, U. S. Fish and Wildlife Service, Washington 25, D. C.

To be released in the near future are Part 1, "Cold Storage Design and Refrigeration Equipment," Fishery Leaflet 427; Part 2, "Handling Fresh Fish," Fishery Leaflet 428; Part 5, "Distribution and Marketing of Fishery Products," Fishery Leaflet 431.

 $\triangle \triangle \triangle \triangle \triangle \triangle \triangle$

CONTENTS (CONTINUED)

EODERGY (C1)	Page
FOREIGN (Contd.):	
Japan (Contd.):	
North Pacific Factoryship Salmon Catch for	
the 1956 Season	94
North Pacific Whaling, 1956	95
Report on Tuna Fishing Off Tahiti	95
Salmon Industry of Hokkaido	95
Republic of Korea:	
Market for Marine-Animal Oils	96
Norway:	
Canned Brisling Sardine Exports Lower, Jan	
July 1956	97
Findings in Study of Arctic-Norwegian Cod	97
Foreign Ministry Requests Norway Fishery Pact	
With Russia	98
Pelagic Purse-Seining for Cod Being Tested	98
Plan to Advertise Fresh Fish	99
Pakistan:	
Frozen Fish Exempted From Export Duty	99
Portugal:	
Cod Fishing Fleet Reports Good Catches on New-	
foundland and Greenland Banks	99
Fisheries Trends, June 1956	100
Canned Fish Exports, January-June 1956	100
Canned Fish Pack, JanApril 1956	100
South-West Africa:	
Skipjack Tuna Netted Near Walvis Bay	101
Spain:	
Fisheries Trends, August 1956	101
Sweden:	
Care of Frozen Foods Stressed by Health	
Authorities	102
Imports From the Dollar Area Liberalized	102
Loan Program for Commercial Fishermen	102
New Fish Freezing Facilities Proposed for	
Goteborg	103
Workmen's Compensation Act Covers Fisheries .	104
Turkey:	
Market for Marine Animal Oils	105

FOREIGN (Contd.): Union of South Africa;	Page
Central Sales Organization for Canned Fish Set Up Echo-Sounder in Demand by Fishing Fleet Pilchard-Maasbanker Catch Through June 1956	. 105
Poor Fisheries Trends, August 1956 U. S. S. R.:	
MurmanskA Major Fishing Port United Kingdom:	
Canned Sardine Market	. 110
Increased	. 111
Fish and Wildlife Service: Fisheries Loan Fund Activities Initiated Interior and Small Business Administration	. 112
Cooperate in Granting Fishery Loans Revised Regulations Adopted For New England	. 114
Haddock Fishery Tariff Commission: "Escape Clause" Report on Groundfish Fillets	. 114
Released	. 117
FISHERY INDICATORS:	
Chart 1 - Fishery Landings for Selected States	
Chart 2 - Landings for Selected Fisheries Chart 3 - Cold Storage Holdings and Freezings	. 120
of Fishery Products	. 121
Chart 4 - Receipts and Cold-Storage Holdings of	
Fishery Products at Principal Distribution Centers Chart 5 - Fish Meal and Oil Production - U. S.	122
and Alaska	. 122
Chart 6 - Canned Packs of Selected Fishery Products	
Chart 7 - U.S. Fishery Products Imports	
RECENT FISHERY PUBLICATIONS:	
Fish and Wildlife Service Publications	125
MISCELLARIEOUS PUDIFICATIONS	. 121