UNITED STATES DEPARTMENT OF THE INTERIOR STEWART L. UDALL, SECRETARY

FISH AND WILDLIFE SERVICE

BUREAU OF COMMERCIAL FISHERIES DONALD L. MCKERNAN, DIRECTOR DIVISION OF RESOURCE DEVELOPMENT RALPH C. BAKER, CHIEF

CLARENCE F. PAUTZKE, COMMISSIONER



COMMERCIAL FISHERIES REVIEW



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

Joseph Pileggi, Editor* G. A. Albano, ** H. M. Bearse, and H. Beasley, Assistant Editors

(*On special assignment for 7 months. **Acting Editor)

Address correspondence and requests to the: Chief, Fishery Market News Service, U.S. Bureau of Commercial Fisheries, Wyatt Bldg., Suite 611, 777 14th Street, NW., Washington 5, 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.

Use of funds for printing this publication has been approved by the Director of the Bureau of the Budget, May 1, 1963.

5/31/68

CONTENTS

COVER: The best way of overcoming the general lack of protein in the diets of the Far Eastern populations is by increasing the production and consumption of fish. The Food and Agriculture Organization of the United Nations sent an expert in fish culture to Thailand to train and assist Thai technicians in improving and developing the fresh fish resources of their country. This photograph shows cast net fishing in the Chao Phya River. This method of fishing, although picturesque, is not efficient by modern standards.

Page

1 . .Bottom Fish Survey Off the Oregon Coast, April-June 1961, by C. R. Hitz and D. L. Alverson 8 . Accuracy of the Official Method for Determining Breading Percentages of Frozen Raw Breaded Shrimp,

- by Mary E. Ambrose and Charles F. Lee
- 14 . . The Line-Trawl Fishery for Cod and Haddock at Chatham, Massachusetts, by Albert C. Jensen and Robert K. Brigham

	σ	

Tage	Page
TENDS AND DEVELOPMENTS:	TRENDS AND DEVELOPMENTS (Contd.):
Alaska: 20 Japanese Fishermen Not Extradited for	Alaska Fisheries Exploration and Gear Re- search:
Violation of Fishing Regulations	22 Shrimp and Scallop Studies Planned
	California:
Gulf of Alaska 20 Expansion of Russian and Japanese King	22 New Director Appointed for Institute of Marine Resources
21 Crab Fishing Into Gulf of Alaska Predicted Japanese Firm Shows Interest in Purchasing	22 CansShipments for Fishery Products, Jan- uary-February 1963
Alaska Salmon	Central Pacific Fisheries Investigations:
²¹ Vessels Prepare for Early Halibut Fishing	22 Predictions on Abundance of Summer Skip- jack Tuna in Hawaiian Waters
Social	Federal Purchases of Fishery Products:
²¹ . Chignik River Red Salmon Forecast for 1963	23 Department of Defense Purchases, January
Alaska Fisheries Investigations: ²¹ . Pink Salmon Spawning Channel at Olsen Bay	1963 Fish Meal:
To Be Improved	24 Corn-Cottonseed Rations for Pigs Improved
 Winter Pink and Chum Salmon Egg Survivals Encouraging 	24 Corn consister nations for Figs improved

COMMERCIAL FISHERIES REVIEW

CONTENTS (CONTINUED)

Pa	ige				Pa
			Г	'RENDS AND DEVELOPMENTS (Contd.): Fish Oils:	
-2	24	•	•	Mono- and Di-Nitrates Derivatives May Have Industrial Uses	4
5	24			Fur Seals: Prices for Alaska Skins at Spring 1963 Auc-	4
-		•	•	tion Set Another Record	4
				Great Lakes:	4
2	25	•	•	Public Hearing on Results of Studies in	
				Lake Superior Groundfish:	4
5	25			Forecast of Abundance on New England Fish-	4
		•		ing Banks in 1963	
				Gulf Exploratory Fishery Program:	4
2	25			Northeast Coast of South America Surveyed	
				for Shrimp and Bottomfish	41
5	27			Gulf Fishery Investigations: Shrimp Fishery Program	
	29			Estuarine Program	5
	30			Industrial Fishery Program	10
2	30			Behavior Program	5
	31			Special Reports	5
	31		•	Contract Research	5
	31	•	•	Shrimp Distribution Studies	
ł	33			Hawaii: Fish and Shellfish Landings, 1961-1962	5
	33		1	Skipjack Tuna Landings, January-March 1963	0.
				Industrial Fishery Products:	
-	33			U.S. Production, 1962	5
	34	*	•	U.S. Fish Meal and Solubles, Production and	
				Imports, January-February 1963	
	34			U. S. Fish Meal, Oil, and Solubles: Production, February 1963	5
	35	1	*	Major Indicators for U.S. Supply, March	0.
		•	•	1963	
				Irradiation Preservation:	5
	35	•	•	Radiation Pasteurization of King Crab Meat	
				Reduces Bacterial Population	-
1	35			Maine Sardines: Canned Stocks, April 1, 1963	5
	50	*	1	Michigan:	
1	36			Great Lakes Landings Drop Sharply in 1962	
				National Fisheries Institute:	5
	36			Experiments Indicate Fish Diet Improves	_
				Health	5
				North Atlantic Fisheries Exploration and Gear Research	
	37			Electronic Trawl-Net Measuring and Tele-	5
				metering System Tested and Evaluated	
	38			Tuna Stocks Off U.S. Atlantic Coast Sur-	
				veyed	5
	20			North Pacific Exploratory Fishery Program: Distribution and Abundance of Adult Hake	
	38	•	*	Off Southern California and Northern	
				Mexico Studied	5
				Oceanography:	
	40			Instrumentation, Facilities and Equipment	5
				Discussed at ICO Meeting	
	10			Oysters: Elevide Dvill Stepped by Treated Sand	5
	40	*	*	Florida Drill Stopped by Treated Sand South Atlantic Exploratory Fishery Program:	5
	41			Availability of Calico Scallops Off Georgia	
			-	and Florida Coasts Resurveyed	6
				South Carolina:	
	41		•	Fisheries Biological Research Progress, January-March 1963	6
				datuary - warch 1905	

Deres			
Page		r	TRENDS AND DEVELOPMENTS (Contd.):
43			Tuna: New England Purse-Seine Fishery Takes Leap Forward in 1962, by John J. O'Bru
15			United States Fisheries:
45		•	Canned Fishery Products, 1962
45	٠	٠	Fish Sticks and Portions Production, 196
46		•	Packaged Fishery Products Production, 12 U.S. Fishing Vessels:
47	•	•	Another Large Steel Trawler Added to Econ Fleet
47	•	•	Bottom Fishing Vessels Urged To Compl With International Regulations
48	•	•	Documentations Issued and Cancelled, Mih 1963
48			New Research Vessel for North Atlantic
			Fisheries Investigations Commissioned U.S. Foreign Trade:
50			Airborne Imports of Fishery Products, October 1962
51			Edible Fishery Products, February 1963
51	*	1	Export Credit Insurance, First Quarter 13
52		•	Imports of Fish Meal Up Sharply in Marc
00			1963 Washington:
52			Salmon Catches by Sports Fishermen Go
54	•	•	in 1962
5.0			Wholesale Prices:
53	*	•	Edible Fish and Shellfish, April 1963
		1	FOREIGN:
			International:
			Fish Meal:
55	*	*	Production and Exports for Selected Cor
			tries, January 1963
5.5			Food and Agriculture Organization:
55	•	•	Fisheries Included in Agenda of World
			Food Congress
55			Inter-American Tropical Tuna Commissi Lower Quota for Yellowfin Tuna Caught
			Eastern Pacific Proposed
			International Cooperative Investigation of
			the Tropical Atlantic:
56			Guinean Trawling Survey
			North Pacific Fisheries Convention:
56			Japanese Views on Revision of Convent
			International North Pacific Fisheries Co
			mission:
57		•	Japan Gains New Halibut and Herring
			ing Grounds in Eastern Pacific
			Northwest Atlantic Fisheries Commissio
58	*	•	Bottomfish Spawning and Development i North Atlantic To Be Studied
			International Northwest Pacific Fisherie
			Commission:
58			Japan and U. S. S. R. Reach Agreement
50	•		Northwest Pacific Salmon Catch Quota
58			Swedish-Norwegian Shrimp Fishing Agree
			ment Extended Through 1964
			Europe:
59			West European Fishery Conference to Nt
			in Esbjerg
			Aden Protectorate

- Aden Protectorate: 50 .. Mukalla is Center of Fisheries Developm's Angola: 50 .. Fisheries Trends in Mocamedes Area, 19

Contents continued page III.

II

COMMERCIAL FISHERIES REVIEW

CONTENTS (CONTINUED)

rge			Page		
rge	I	FOREIGN (Contd.):			FOREIGN (Contd.):
		Australia:			India (Contd.):
ō1		Oceanographic Data Center To Be Established Brazil:	72	• •	U.S. Firm to Survey Fishery Resources for Investment Opportunity
21		New Fishery Cooperative Formed in Parana			Iran:
	• •	State Canada:	73		Fisheries Development Projects Ireland:
14		D 111-1 C-1 - his Adapte Depalutions on Ton	73		Development of Fishing Industry Planned
0.1	•••	ritorial Waters and Fisheries Convention			Italy:
		Amendments	13	• •	Fishery Landings, January-September, 1962
62	• •	Fisheries Problems of Maritime Provinces Discussed at Meeting	74		Japan: Atlantic Ocean Trawl Fishery Trends, April
62	• •	Approval of Japanese Halibut Fishing in Eastern Bering Sea Delayed	74		1963 Exports of Tuna Canned in Oil and Specialty
63		Processed Scallop Products Subject to Com-	75		Products, FY 1962
		pulsory Government Inspection	10	• •	Exports of Canned Tuna in Oil Increasing
		Imports of Octopus for Halibut Bait Increase	75	• •	
54		Lobster Open Season Postponed in Two Areas			States, by Regional Destinations, 1958-1962
		Due To Ice Floes	75		
	• •	cord for 1962/63 Season	76		Sluggish in Late April 1963
65		Production, Utilization, and Foreign Trade	76		
		in Marine Oils, 1962			Fiscal Years 1963 and 1964
56		Fresh-Water Fish Used in Making Fishery	76		
		Products Specialties Ceylon:	77	• •	Operators of Tuna Motherships with Portable Catcher Vessels Form Association
66		Import Licenses for Fishery Products Re-	77		Tuna Mothership to be Converted for North
		quired			Atlantic Trawling
		Chile:	77	• •	Tuna Mothership to Fish Off Mexican Coast
		Fisheries Potential Studied by Norwegian Mission	77	• •	Second Tuna Seiner Equipped with Power Block
\$7		Fisheries Trends, April 1963	77		
57		Fish Meal and Oil Industry Trends, 1962 Whaling Industry Trends, 1962	78	• •	Exports of Canned Fishery Products, Jan- uary-October 1962
		Cuba: Fishery Trainees Sent to Soviet Union	78		Export Targets for Frozen and Canned Fish-
10	•••	Ecuador:	79		ery Products, FY 1963 Increase of Exports of Canned Shrimp Pro-
68		Permit Granted to Foreign Freezership To			posed in FY 1963
		Purchase Fish Faroe Islands:	79	• •	Fisheries Laboratories and Educational Institutions
68		Fisheries Trends, April 1963	81		Fish-Meal Factoryship to Operate in Bering
		France:			Sea
10	•••	Import Licenses May Not Be Issued for Fro-	81		
		zen Tuna in 1963	81	• •	Imports of Soviet-Produced Herring Increased
59		French Guiana: Two United States Firms Expand Shrimp	81	• •	Permission Sought to Fish Experimentally for King Crab in Gulf of Alaska
		Operations	81		New Marine Resources Protection Associa-
69		German Federal Republic: Fish Meal and Marine Oil Industry Trends,	82		tion Salmon Fishermen's Association to Send
10		1962	0.0		Mission to United States and Canada
	• •		82	• •	New Sponge Suppliers Sought
11		Ghana: Territorial Waters Extension Debated	82	• •	Vessels Assigned for Research on Salmon and King Crab
		Greece:	82		Joint Sales Group Considered for Marketing
11		Active Sponge Fishery Expected in 1963			Whale Oil
11					Republic of Korea:
		Guinea:	82		Fisheries Trends, March 1963
71	• •	Joint Fishing Venture with Japanese Pro-			Latvia:
		posed Iceland:	83		Whale Meat Used for Making Sausages
12			0.0		Mexico: Reio California Londinga of Spiny Lobatora
12		Fillets to the Soviet Union	83	• •	Baja California Landings of Spiny Lobsters, 1962/63 Season
	• •				Mozambique:
12		India: Imports of Marine Oils, 1961-1962	83	• •	Imports of Fishery Products, 1961-1962
		1			

Contents continued on page IV.

une 1963

COMMERCIAL FISHERIES REVIEW

I G G G I

(三並)日 出 二 出

CONTENTS (CONTINUED)

 Page FOREIGN (Contd.): Netherlands: 3 . Antarctic Whaling Results, 1962/63 Seas Nigeria: 3 . Imports of Certain Fishery Products, 19 and January-October 1962 84 . Market for Canned Fish Norway: 84 . Fishery Products Exports World's Seco Highest in 1961 84 . Fishery Trends, April 1963 85 . Production from 1962/63 Antarctic Wha Season Sharply Lower 85 . Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 . Licenses Granted to Import Tuna Vesse from Japan Panama: 85 . Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 . Fish Meal and Oil Industry Trends, 1963 88 . Proposed Taxes on Fish Meal Exports F vised 88 . U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 . Canned Fish Exports, 1962 89 . Canned Fish Industry Concerned Over F Common Market Tariffs 89 . Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 . Walvis Bay Pilchard Fishery Trends, Jacabased South-West Africa: 90 . Walvis Bay Pilchard Fishery Trends, Jacabased Sweden: 90 . Fish Meal and Marine Oil Industry Trends, Jacabased Sweden: 90 . Fish Meal and Marine Oil Industry Trends, Jacabased Sweden: 	1
 83 Antarctic Whaling Results, 1962/63 Seas Nigeria: 83 Imports of Certain Fishery Products, 19 and January-October 1962 84 Market for Canned Fish Norway: 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1965 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Pack, 1962 90 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased 90 Fish Meal and Marine Oil Industry Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 Nigeria: 83 Imports of Certain Fishery Products, 19 and January-October 1962 84 Market for Canned Fish Norway: 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Pack, 1962 90 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased 90 Fish Meal and Marine Oil Industry Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 83 Imports of Certain Fishery Products, 19 and January-October 1962 84 Market for Canned Fish Norway: 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased 90 Walvis Bay Pilchard Fishery Trends, Jaury 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	son
and January-October 1962 84 Market for Canned Fish Norway: 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny-Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends	161
 84 Market for Canned Fish Norway: 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 99 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	101
 Norway: 84 Fishery Products Exports World's Second Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Whate Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny-Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Industry Concerned Over Factory Trade with Soviet Bloc in 1962 South Africa Republic: 90 Fish Meal and Marine Oil Industry Trends, Jacobased 	
 84 Fishery Products Exports World's Seco Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 Proposed Taxes on Fish Meal Exports F vised 88 Canned Fish Exports, 1962 99 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Fish Meal and Marine Oil Industry Trends, Ja- uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 Highest in 1961 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	nd
 84 Fishery Trends, April 1963 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance 0kinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	IIG
 85 Production from 1962/63 Antarctic Wha Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
Season Sharply Lower 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports H vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over H Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	ling
 85 Whale Oil Production (Antarctic) Sold in Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny-Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	ung
Advance Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports H vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over H Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	
Okinawa: 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	
 85 Licenses Granted to Import Tuna Vesse from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports Fished 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over Ficonmon Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
from Japan Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	ls
 Panama: 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 85 Spiny Lobster Exploratory Fishing Proj Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	A. 1993 19
Continued Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports F vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	ect
 Peru: 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports Fish Vised 88 U.S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 86 Fish Meal and Oil Industry Trends, 1963 88 Proposed Taxes on Fish Meal Exports Fish Vised 88 U. S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over Fishery Trade with Soviet Bloc in 1962 89 Fishery Trade with Soviet Bloc in 1962 89 Power Blocks for Lampara Seining Purchased 80 Walvis Bay Pilchard Fishery Trends, Jauary 1963 80 Fish Meal and Marine Oil Industry Trends 	
 88 Proposed Taxes on Fish Meal Exports I vised 88 U. S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over For Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	2
vised 88 U. S. Vessel Purchased for Tuna-Cannin Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	Re-
Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	
Factoryship Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	g
 Portugal: 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over For Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
 89 Canned Fish Exports, 1962 89 Canned Fish Pack, 1962 89 Canned Fish Industry Concerned Over For Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jacuary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	1.1.1.1.1.1.1.1.1.1
 89 Canned Fish Industry Concerned Over F Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
Common Market Tariffs 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	
 89 Fishery Trade with Soviet Bloc in 1962 South Africa Republic: 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jacuary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
South Africa Republic: 90 Power Blocks for Lampara Seining Pur chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	1
 90 Power Blocks for Lampara Seining Purchased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	
chased South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	1
South-West Africa: 90 Walvis Bay Pilchard Fishery Trends, Ja uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Tren	
 90 Walvis Bay Pilchard Fishery Trends, Jauary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trends 	1
uary 1963 Sweden: 90 Fish Meal and Marine Oil Industry Trer	
Sweden: 90 Fish Meal and Marine Oil Industry Trer	an- 1
90 Fish Meal and Marine Oil Industry Tren	
Fiscal Year 1962/63	nds, 1
	1
Thailand:	
92 Imports of Marine Oils, 1961-1962	1
U. S. S. R.:	
92 Bering Sea King-Crab Mothership Fishi	
Fleets, 1963	1
92 Fishing Activities Off Atlantic and Gulf	
Coasts, March-April 1963	

Pag	e
	FOREIGN (Contd.):
	U. S. S. R. (Contd.):
92	Flounder Stocks in Southeastern Bering Sea
	Surveyed
92	Whale Factoryship Fishing in North Pacific
	United Kingdom:
93	Antibiotic Ice Improves Quality of Fish
55	Landed
0.2	Imports of Canned Salmon, 1961-62
93	FEDERAL ACTIONS:
	Department of Commerce:
	Area Redevelopment Administration:
94	Grant Approved for Harbor Improvements
	in New Bedford, Massachusetts
	Small Business Administration:
94	Loans to Fishery Firms
~ -	Department of Health, Education, and Welfare
	Food and Drug Administration:
94	Standards of Identity for Frozen Raw
01	Breaded Shrimp Established
	Department of the Interior:
	Bureau of Indian Affairs:
0.0	
96	Indian Commercial Fishing Regulations in
	Alaska
	Fish and Wildlife Service:
	Bureau of Sport Fisheries and Wildlife:
97	New Pesticide-Wildlife Laboratory Dedi-
	cated
	White House:
98	Office of Special Representative Established
	to Implement Trade Expansion Act of 1962
102	Fighty Fighth Congroups (Fingt Soggion):
	FISHERY INDICATORS.
107	. Chart 1 - Fishery Landings for Selected States (
108	i chart i foner j Danango tor bereete
109	The start a manatings for bereeted a second
109	Chart 3 - Cold-Storage Holdings and Freez-
110	ings of Fishery Products
110	Chart 4 - Receipts and Cold-Storage Holdings
	of Fishery Products at Principal Distribute
	Centers
110	Chart 5 - Fish Meal and Oil Production
111	Chart 6 - Canned Packs of Selected Fishery
	Products
112	(hart / - II S Wichory Products Imports
	RECENT FISHERY PUBLICATIONS:
113	. Fish and Wildlife Service Publications
115	. Miscellaneous Publications
-10	· · Infocentalicous l'ubileations

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. Price 60 cents (single copy). Subscription Price: \$5.50 a year; \$2 additional for foreign mailing.

IV