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

> FISH AND WILDLIFE SERVICE CLARENCE F. PAUTZKE, COMMISSIONER

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



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

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

Address correspondence and requests to the: Chief, Fishery Market News Service, U.S. Bureau of Commercial Fisheries, 1815 North Fort Myer Drive, Room 510, Arlington, Va. 22209.

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.

# CONTENTS

COVER: Typical Mexican shrimp fishing vessels tied up at the dock in Mexico's west coast port of Mazatlan. That Mexican port, located in the State of Sinaloa, claims to be the shrimp capital of the world. In 1963, about 62 million pounds of shrimp were landed at Mazatlan, accounting for 26.5 percent of the Mexican shrimp catch for that year.

## Page

- . .Experimental Trawling for High-Seas Salmon, by Charles J. Hunter
- 10 . .Estimating Residual Shell in Shucked Soft-Shell Clams (Mya arenaria L.), by Baruch Rosen and Janice Freeman

I Page

#### Page

<ul> <li>TRENDS AND DEVELOPMENTS: Alaska:</li> <li>14 Foreign Fishing Activities off Alaska</li> <li>14 Gear-Marking Devices Tested</li> <li>14 Gear-Marking Devices Tested</li> <li>14 Shrimp Survey Off Southeastern Alaska</li> <li>15 Herring Fishery, 1964 California:</li> <li>15 Dungeness Crab Catch Forecast, 1964/65 Season</li> <li>CansShipments for Fishery Products:</li> <li>15 January-October 1964 and January-September 1964</li> <li>Canned Fishery Products:</li> <li>16 Canners Convention Met in San Francisco, January 22-27, 1965</li> <li>Central Pacific Fisheries Investigations:</li> <li>16 Skipjack Tuna Biological Studies Continued</li> <li>17 Trade Wind Zone Oceanographic Studies Continued</li> <li>Clams:</li> <li>18 Progress Report of 1964 Surf Clam Survey off Atlantic Coast Crab:</li> </ul>	<ul> <li>TRENDS AND DEVELOPMENTS (C Federal Purchases of Fishery Presson</li> <li>Department of Defense Purchase November 1964</li> <li>Great Lakes Fisheries Exploration Development:</li> <li>Lake Superior Trawling Studies Gulf Fisheries Explorations and C ment:</li> <li>Shrimp Gear Studies Continued Gulf Fishery Investigations:</li> <li>Shrimp Distribution Studies Gulf of Mexico:</li> <li>Fishery Landings, 1963</li> <li>Industrial Fishery Products:</li> <li>Fish Meal and Fish Solubles Finm mand in Animal Feed Industry U. S. Fish Meal, Oil, and Soluble</li> <li>Production by Areas, November Maine Sardines:</li> <li>Industry Hopes to Sell to the Phil Navigation;</li> </ul>
off Atlantic Coast Crab:	28 Industry Hopes to Sell to the Phil
21 Chesapeake Bay Winter Catch May be Af- fected by Unusually Warm Weather	28 Offshore Light Towers Part of U Guard Modernization program
fected by Unusually Warm Weather Contents contin	Guard Modernization program

-	1	TRENDS AND DEVELOPMENTS (Contd.):
		Federal Purchases of Fishery Products:
21	•••	Department of Defense Purchases, January- November 1964
		Great Lakes Fisheries Explorations and Gear Development:
22		
		Gulf Fisheries Explorations and Gear Develop- ment:
25		Shrimp Gear Studies Continued
		Gulf Fishery Investigations:
25		
		Gulf of Mexico:
26		Fishery Landings, 1963
		Industrial Fishery Products:
27	• •	mand in Animal Feed Industry
		U. S. Fish Meal, Oil, and Solubles;
27		Production by Areas, November 1964
		Maine Sardines:
27		Canned stocks, November 1, 1964
28	• •	Industry Hopes to Sell to the Philippines Navigation:
8		Offshore Light Towers Part of U.S. Coset

## COMMERCIAL FISHERIES REVIEW

Vol. 27, No. 2

## CONTENTS (CONTINUED)

Page		Page	
	TRENDS AND DEVELOPMENTS (Contd.):	F	FOREIGN:
	New England Fisheries:		International:
29 .			Fish Oil:
20 .	Forecast for 1965	48	World Exports, January-June 1963-64
		10	Fishing Vessels:
	North Atlantic:	10	International Meeting on Wooden Fishing
30 .	. Foreign Fishing Activities off Coast, Novem-	48	
	ber-December 1964		Vessel Design and Construction
	North Atlantic Fisheries Explorations and		European Economic Community:
	Gear Development:	49	Fishery Policy Decision Made by Commis-
31	. Tuna and Swordfish Distribution Studies in	Com and	sion
01 .	Western North Atlantic Continued	44m 11 2.58	Great Lakes Fishery Commission:
	North Atlantic Fisheries Investigations:	50	Extension of Sea Lamprey Controls Ap-
	North Atlantic Fisheries investigations.		
34 .	. Sea Herring Population Survey Continued	North Soll	proved
35 .	. Larval Herring Distribution in Gulf of Maine		King Crab:
	Studied	51	Alaskan Fishery Given Protection by New
35 .	. Continental Shelf Waters Surveyed		United States-Soviet Agreement
	North Pacific Fisheries Explorations and	51	Japan-United States Agreement on Fishing
	Gear Development:		in Eastern Bering Sea
35	. Experimental Fishing with Pelagic Trawl		Organization for Economic Cooperation and
26	Hake Population Survey and Pelagic Trawi	the second second	Development:
50 .		52	Fisheries Committee Meets
	Tests Continued	54	
	Oceanography:		International Convention for the Northwest
37 .	. Underwater Camera System Developed for	ALL DELET	Atlantic Fisheries:
	Work at Great Depths	52	Portugal Ratifies Protocol Concerning Harp
	Salmon:		and Hood Seals
37	. U. S. Pacific Coast Canned Stocks, Decem-		Fish Meal:
	ber 1, 1964	52	Production and Exports for Selected Coun-
	. Seattle, Wash., to Have New \$2 Million Can-	02	tries, January-September 1963-1964
00 .			
	ned Salmon Warehouse		Canada:
38 .	. Interior Department Classifies Atlantic		British Columbia Canned Salmon Pack, 1964
	Salmon as "Endangered" Species	53	British Columbia Herring Fishery Labor
	Shellfish:	and the second	Dispute Settled
39	. Health Protection of U. S. Shellfish Consum-	53	Expanded Fishery Products Inspection Pro-
	ers Emphasized at National Shellfish Sani-		gram Planned
	tation Meeting	E 2	Canary Islands:
	Shrimp:		Fish Meal Plants Restart Processing
39 .	. United States Consumption at Record High		Cape Verde Islands:
	Level	54	Long-Liners Fish out of Cape Verde Islands
	South Atlantic States:	In IS granters	Tuna Base
40 .	. Fishery Landings, 1963	a state of the	Denmark:
	Specifications:	54	Fisheries TrendsExports, Landings, and
41	. Federal Specifications for Chilled and Fro-		ProcessingJanuary-September 1964
	zen Fish	50	Average Prices for Fisheries Landings High-
	United States Fisheries:	50	er in January-June 1964
41 .	. Commercial Fishery Landings, 1964	58	Rinsing Water Purification Process Found
	U. S. Fishing Vessels:		Profitable in Filleting Plant
43 .	. First Application Under New Fishing Fleet	In section of the	Faroe Islands:
	Improvement Act	59	Fisheries Trends, November 1964
	U. S. Foreign Trade:		French Somaliland:
43	. Airborne Imports of Fishery Products, Au-		Tuna Explorations in the Gulf of Aden
10 8		00	Ghana:
4.4	gust-September 1964	60	
44 .	. Imports of Canned Tuna Under Quota	60	Japanese Complete Second Stern Trawler for
44 .			Ghana
	1964		Greece:
44 .	. Fishery Products, 1963	60	Offshore Fishing Fleet, 1963
	Vessels:		Haiti:
45	. New Oceanographic Research Vessel David	60	Construction of New Fish Processing Plant
	Starr Jordan Launched		Completed
			Iceland:
45	Virginia: Marino Solonoo Training Program for Teach-	60	
45 .	0 0	60	Exports of Fishery Products, January-Sep-
	ers and Students		tember 1964
	Whales:	61	Fishery Landings by Principal Species, Jan-
46	. Pacific Coast Catch, 1964		uary-July 1964
	Wholesale Prices:	61	Utilization of Fishery Landings, January-
46	. Wholesale Prices for Edible Fish and Shell-		July 1964
	fish, December 1964		Indonesia:
		61	Japanese-Indonesia Shrimp Fishing Venture
		1	superiose indonesia sin mip risining venture

Contents continued page III.

II

# CONTENTS (CONTINUED)

### | Page

Page		Page
	FOREIGN (Contd.): Japan:	FOREIGN (Contd.): Japan (Contd.):
61 .	• Export Validations of Frozen Tuna and Tuna Loins to United States, January-October	71 Canned Hake Marketing Project Postponed 71 Soviets Fishing Saury off Northeastern
$\begin{array}{c} 62\\62\end{array}$	. Prices Drop for Atlantic Frozen Albacore	Japan 71 Firm Building New Freezer Factoryship- Mothership
63 ,	Tuna in December 1964 . Cost of Shipping Indian Ocean Frozen Tuna to Puerto Rico	Republic of Korea: 72 Offshore Fishing Fleet Expanded 72 Training Program for Fishermen Sponsored
63.	. New Tuna Purse-Seine Operation off Africa Observed by Fishing Company Officials	by United Nations Special Fund Mexico:
63.	. Tuna Purse-Seine Fleet Reports Poor Fish- ing off West Africa	73 Expanded Freezing and Distribution Center for Fishery Products Opens New Markets
63 . 64 .		74 New Port Facility at Alvarado (Veracruz) Completed Norway:
64 .		75 Fisheries Trends, November 1964 76 Exports of Canned Fishery Products, Janu-
64 .		ary-June 1964
64. 64.		76 Salmon Season Good 77 Fish Meal Industry Trends, 1964
64 .		Peru:
	age	77 Fish Meal and Oil Industry Trends and Out-
65 . 65 .		look, October 1964
65 .		Poland: 78 Fisheries Trends, September 1964
	Suspended	78 New Factory-Trawler Launched at Gdansk
65 .	Tuna Export Agreement	78 Size of Fishing Fleet, 1961-1963 and Esti- mates for 1964
66 .		South-West Africa:
66 .	in United States . Canned Tuna Market Survey Conducted in U. S. Cities	79 Pilchard and Anchovy Fishery Trends, Sep- tember 1964 Sweden:
66 .		80 Shrimp Industry Trends U.S.S.R.:
67 .	tol Bay in 1965	80 New Freezer-Trawlers for Soviets Built in Denmark
67 .	Japanese Feel Soviets May Start Mothership- Type Salmon Fishery in North Pacific	West Africa: 81 Canned Sardine Industry Outlook
67 .	. Licensing of Vessels for Northeastern Pa- cific Trawl Fishery to be Studied	<ul> <li>81 Canned Sardine Industry Outlook</li> <li>82 Fish Meal and Oil Industry Outlook and General Fisheries Situation</li> </ul>
68 .		FEDERAL ACTIONS:
<b>C D</b>	in 1965	Department of Health, Education, and Welfare:
68.	. Bottomfish Mothership Association Submits Recommendations on North Pacific-Bering Sea Fishery	Food and Drug Administration: 85 Tentative Order Establishing Definitions
68 .	. Bering Sea Fishery Operations, December 1964	and Standards of Identity for Frozen Breaded Shrimp Department of the Interior:
69 .	. Trawl Operations in Northwest Atlantic	Fish and Wildlife Service:
69.	. New Stern Trawler Scheduled to Fish in At- lantic Ocean	91 Subsidy Application Under Fishing Fleet Improvement Act of 1964
69 . 69		91 Hearing on Application Under Fishing Fleet
69.	<ul> <li>Canned Salmon Exports Down in 1964</li> <li>Salted Salmon, and Herring and Salmon Roe</li> </ul>	Improvement Act of 1964
	Prices	Department of the Treasury: 91 Changes in Antidumping Regulations An-
70.	Herring	nounced Bureau of Customs:
70.		94 Ruling on Foreign Fishery Landings in
70. $70$ .		U.S. Ports
70 .	<ul> <li>Korean Fishery Products to be Imported</li> <li>Shortage in Okinawan Labor Force for Use on Japanese Fishing Vessels</li> </ul>	White House: 95 New International Regulations for Preventing
71 .	. New Stern Trawler Launched	Collisions at Sea 95 Eighty-Ninth Congress (First Session)
71 .	<ul> <li>Bottomfish Resources in Waters off Austra- lia to be Surveyed</li> </ul>	RECENT FISHERY PUBLICATIONS: 98 Fish and Wildlife Service Publications
71 .	. Fishery Representatives Tour Communist	99 Miscellaneous Publications
	China	