
**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE**

**FISHERY STATISTICS
OF THE UNITED STATES
1941**

STATISTICAL DIGEST No. 7

FISHERY STATISTICS of the United States and Alaska are compiled and published annually to make available information on both the biological and the economic aspects of the domestic commercial fisheries.

From the biological standpoint these data are important to sound fishery management in providing detailed information on fluctuations in the commercial catch by species, locality, and year, and on the types of gear and boats operated. They assist conservation agencies so to regulate the commercial fisheries as to produce maximum yields without depletion.

Data on the economic aspects are necessary to persons engaged in the commercial fishery and to governmental agencies concerned with its regulation and protection. Those here given cover the total catch and value by species, the yield and value of manufactured products and byproducts, employment, and related information.

Previous statistical reports on the fishery industries issued under the Department of the Interior were as follows: Administrative Report No. 41, for the fiscal year 1939 (Appendix III to report of Commissioner of Fisheries, 1940); Statistical Digest No. 1, for the calendar year 1939; and Statistical Digest No. 4, for the calendar year 1940. Reports for preceding fiscal years were issued in the Administrative Report series of the former Bureau of Fisheries.

UNITED STATES DEPARTMENT OF THE INTERIOR

Harold L. Ickes, Secretary

FISH AND WILDLIFE SERVICE

Ira N. Gabrielson, Director

Statistical Digest No. 7

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OF THE UNITED STATES
1941**

BY

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FISHERY STATISTICS OF THE UNITED STATES: 1941

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INTRODUCTION

This report contains a review of the fishery statistics for the year 1941, collected by the Division of Fishery Industries during 1942. These include data on the volume of the catch of fishery products and their value, employment in the fisheries, quantity of gear operated, the number of fishing and transporting craft employed in the capture and transporting of fishery products, employment in wholesale and manufacturing establishments, and the volume and value of the production of manufactured fishery products and byproducts.

In addition to the basic statistics on employment, yield, and the production of manufactured fishery products for individual States and various geographical sections, there are included in this report data on imports and exports of fishery commodities; on landings by fishing vessels at certain New England ports and at Seattle, Wash.; on the shad fishery in the Hudson and Potomac Rivers and on the alewife fishery in the Potomac River; a review of the Pacific coast halibut fishery; and a statement on whaling operations by United States firms.

Shortly after our entry into the war, there was demand for detailed information relative to the requirements of the fishing industry for raw materials and manufactured products. In order to obtain this information it was necessary to assign the Division's statistical agents, certain members of Market News, and the Economic and Marketing Section, and the Technological staffs to conduct a nation-wide survey to obtain data on fishermen's requirements of critical materials such as rope, nets, marine hard-

ware, all types of gear, new vessels, replacement motors, fuel, lubricating oil, groceries, and related materials. In all, fourteen members of the Division's staff were employed from two to eight months each in collecting and preparing reports relative to the industry's requirements. These reports have been of great value in determining the industry's needs during the critical war period, and they formed the basis for the priority activities of the Office of the Coordinator of Fisheries.

The assignment of the staff to the requirements survey made it impossible to conduct a general statistical canvass of the fishing industry for 1941 data in all sections of the country. Accordingly, surveys were made in only the Chesapeake Bay, Pacific Coast, and Lake States. In the latter area members of Dr. John Van Oosten's staff in the Division of Fishery Biology assembled the major portion of the catch statistics. Those on the fisheries of Alaska were collected by the Alaska Division of the Service.

The following agents assisted in the various surveys and compilation of the statistical data: R. L. Greer, V. E. Heffelfinger, C. H. Lyles, C. B. Lowden, G. W. Long, C. B. Tendick, and F. M. Wood. These agents and the following members of the Division's staff conducted the survey to obtain data on the fishermen's requirements of raw materials and manufactured products: C. B. Carlson, C. H. Chilton, L. S. Christey, W. H. Dumont, B. E. Lindgren, C. H. Parcels, V. J. Samson, and C. D. Stewart.

In the assembling of data on the fisheries, use was made of all records collected by the various State fishery agencies. In the Great Lakes and Pacific Coast States, these records were such that it was only necessary for the Service personnel to conduct partial surveys. Statistics on the freezings and cold-storage holdings of fishery products were furnished by the Agricultural Marketing Service of the Department of Agriculture.

Grateful acknowledgment is extended to the State and Federal agencies and to the various individuals who cooperated in furnishing portions of the data contained in this volume.

The statistical surveys conducted during 1942 were under the immediate supervision of D. Y. Aska, Associate Statistician, assisted by A. M. Sandberg, Assistant Fisheries Marketing Specialist. The surveys were under the general direction of E. A. Power, Chief, Fishery Statistical Section.

GENERAL REVIEW

Based upon the available statistics for 1941, there was a large increase in the catch of fishery products in the United States and Alaska as compared with that of the preceding year. The combined catch in the areas surveyed in 1941 showed an increase of 22 percent in volume and 33 percent in value as compared with that of 1940. Although the yield of fishery products declined in the Lake States there were substantial increases in the Pacific Coast States, Alaska, and the Chesapeake Bay region. The values received by the fishermen for these catches showed increases in all sections. The total value of the pack of canned fishery products increased 47 percent as compared with that of 1940, that of the byproducts 86 percent, and that of packaged fish 65 percent.

The total catch of fishery products in the United States and Alaska, as based upon surveys for various years amounted to 4,595,368,000 pounds, valued at \$116,679,000. However, it is estimated that if complete data on the 1941 catch had been available for all sections, the total production would have amounted to about 5,000,000,000 pounds, valued at about \$130,000,000.

The production of canned fishery products in the United States and Alaska, during 1941 amounted to 915,365,077 pounds, valued at \$138,684,157; the output of byproducts was valued at \$56,801,074; and the production of frozen fishery products, excluding packaged products, amounted to 106,560,215 pounds, valued at \$8,294,541. Based on the most recent surveys, the production of cured fishery products amounted to 98,473,489 pounds, valued at \$14,773,995, and fresh and frozen packaged fish and shellfish, 290,167,395 pounds, valued at \$42,313,791. It is estimated that about 720,000,000 pounds of fresh fishery products (excluding fresh packaged fish and shellfish), valued at about \$70,560,000, were marketed during 1941. The total market value to domestic primary handlers of all fishery products in 1941 is estimated at \$331,427,558.

New England States.—No survey for the entire catch of fishery products in these States was made for 1941. In 1940, the volume of catch declined slightly as compared with that of 1939, while the value showed a small increase. Landings of fishery products by fishing vessels of 5 net tons and over at Boston and Gloucester, Mass., and Portland, Maine, during 1941 increased 27 percent in volume and 43 percent in value as compared with those for 1940. There were also large increases in the production of canned Maine sardines and of frozen fish.

Middle Atlantic States.—No survey for the catch of fishery products in these States was made for 1941. In 1940, there was an increase in both volume and value of the catch as compared with those of the preceding year. There was a large increase in the production of frozen fish during 1941 and a small increase in the catch of shad in the Hudson River.

Chesapeake Bay States.—In 1941, the catch of fishery products in the Chesapeake Bay States increased in both volume and value as compared with that of the previous year. There was a large increase in the volume and value of menhaden production but a considerable decline in the catch of crabs. The production of shad showed a large increase during 1941.

South Atlantic and Gulf States.—No survey was made of the commercial catch of fishery products in the South Atlantic and Gulf States during 1941. In 1940, there was a slight decrease in the volume but a large increase in value of the catch as compared with that of 1939. There were increases in the production of frozen fish during 1941, but decreases in the packs of canned shrimp and oysters.

Pacific Coast States.—The value of the commercial catch of fishery products in the Pacific Coast States during 1941 surpassed that of any year on record and the volume exceeded that of any previous year except 1936. The production of canned salmon and sardines increased during 1941 while the packs of tuna and mack-

erel decreased. The production of frozen fish increased slightly during the year as compared with that of 1940.

Great Lakes States.—In 1941, the commercial catch of fishery products in the Lake States was about equal to that of 1940. The production of frozen fish in this area increased slightly.

Mississippi River and Tributaries.—The most recent complete statistics of the catch in the Mississippi River and its tributaries are those for 1931. As compared with the catch of 1922, when the most recent preceding survey was made, there was a decrease, caused principally by a smaller yield of fresh-water mussels. The production of fresh-water mussel-shell buttons increased during 1941, as compared with that of 1940.

Alaska.—The catch of fishery products in Alaska in 1941 increased in both volume and value as compared with that of 1940. The production of frozen, cured, and canned fishery products, and byproducts increased. Greater catches of herring and of all species of salmon except chum were reported.

Fisheries of the United States and Alaska

SUMMARY OF CATCH: BY SECTIONS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Product	New England, 1940, area XXII		Middle Atlantic, 1940, area XXIII		Chesapeake, 1941, area XXIII		South Atlantic and Gulf, 1940, areas XXIV and XXV		Pacific, 1941	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Fish	576,092	14,197	324,775	3,827	259,554	3,022	367,771	5,802	1,778,773	37,738
Shellfish, etc.	49,962	6,297	30,778	3,824	68,601	6,099	207,762	8,843	34,088	2,604
Whale products									495	20
Total	626,054	20,494	355,553	7,651	328,155	9,121	575,533	14,645	1,813,356	40,362

Product	Lakes, 1941 ¹		Mississippi River & tributaries, 1931		Alaska, 1941		Total for the various years	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Fish	78,062	6,470	44,062	2,257	733,281	14,891	4,162,370	88,204
Shellfish, etc.	3	(²)	38,321	640	2,988	148	432,503	28,455
Whale products							495	20
Total	78,065	6,470	82,383	2,897	736,269	15,039	4,595,368	116,679

See footnotes at end of table.

NOTE.—The roman numerals appearing under the names of the sections are the numbers given the areas by the North American Council on Fishery Investigations. It should be explained that there are included under the areas, craft whose principal ports are in the respective areas but which may fish elsewhere at times.

Fisheries of the United States and Alaska—Continued

OPERATING UNITS: BY SECTIONS

Item	New England, 1940	Middle Atlantic, 1940	Chesapeake, 1941	South Atlantic and Gulf, 1940	Pacific, 1941
Fishermen:					
On vessels.....	4,974	2,666	1,962	4,522	9,704
On boats and shore.....	13,572	5,071	11,538	23,419	13,178
Total.....	18,546	7,737	13,500	27,941	22,882
Vessels:					
Steam.....	11	12	8		1
Net tonnage.....	1,332	915	360		9
Motor.....	631	370	200	1,089	1,607
Net tonnage.....	19,351	7,668	3,140	12,624	44,201
Sail.....		7	125	56	3
Net tonnage.....		175	1,466	538	1,421
Total vessels.....	642	389	333	1,145	1,611
Total net tonnage.....	20,683	8,758	4,966	13,162	45,631
Boats:					
Motor.....	4,437	1,311	4,673	7,117	5,493
Other.....	4,014	2,629	3,823	7,627	1,199
Accessory boats.....	686	180	78	305	888
Apparatus:					
Haul seines.....	109	188	262	654	179
Purse seines.....	69	56	26	52	550
Stop seines.....	60				
Lampara nets.....					179
Otter trawls.....	493	178	39	3,169	146
Beam trawls.....					26
Paranzella nets.....					8
Gill nets.....	4,867	3,347	8,845	7,417	3,676
Trammel and bar nets.....				680	35
Pound nets, trap nets, and weirs.....	417	416	2,020	2,173	46
Floating traps.....	85				
Stop nets.....		58			
Fyke nets.....	83	1,448	2,661	338	2,267
Bag nets.....	102				7
Other nets ⁴	549	109	655	8,079	889
Hooks, baits, or snoods.....	2,032,228	346,097	1,145,970	1,395,253	1,698,363
Eel pots and traps.....	2,120	3,438	12,499	715	
Brush traps.....				34,600	
Lobster pots and traps.....	328,988	14,461			
Crab, crawfish, and turtle pots and traps.....	6,455	10	9,964	18,373	39,919
Clam dredges.....	122	114		6	
Conch dredges.....		8			
Crab dredges.....		103	134		
Mussel dredges.....		10			
Oyster dredges.....	140	277	484	668	4
Scallop dredges.....	2,877	42		72	
Crab scrapes.....			265		
Tongs, rakes, shovels, hoes, forks, picks, and grabs.....	6,617	3,384	6,463	3,017	3,801
Diving outfits.....				67	8
Other apparatus ⁶	893	16,591	635	11,366	302

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

OPERATING UNITS: BY SECTIONS—Continued

Item	Lakes, 1940	Mississippi River and tributaries, 1931	Alaska, 1941	Total for the various years
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	1,694		³ 10,437	35,959
On boats and shore	3,448	15,884		86,110
Total	5,142	15,884	10,437	122,069
Vessels:				
Steam	30			62
Net tonnage	646			3,262
Motor	469		978	5,344
Net tonnage	5,427		12,770	108,181
Sail				191
Net tonnage				3,600
Total vessels	499		978	5,597
Total net tonnage	6,073		12,770	112,043
Boats:				
Motor	1,186	4,426	1,446	30,089
Other	599	10,120	2,889	32,900
Accessory boats				2,137
Apparatus:				
Haul seines	160	1,013	116	2,690
Parse seines			769	1,522
Stop seines				60
Lampara nets				179
Otter trawls				4,025
Beam trawls			14	40
Paranarella nets				8
Gill nets	106,031	101	4,148	138,432
Trammel and bar nets	75	518		1,308
Pound nets, trap nets, and weirs	8,336	374	389	14,170
Floating traps				85
Stop nets				58
Fyke nets	1,787	32,541		41,125
Bag nets				109
Other nets ⁴			191	10,472
Hooks, baits, or snoods	615,839	2,459,179	(⁵)	9,692,929
Fish wheels			263	263
Eel pots and traps				18,772
Brush traps				34,600
Lobster pots and traps				343,449
Crab, crawfish, and turtle pots and traps	799	456	1,452	77,329
Clam dredges				242
Conch dredges				8
Crab dredges				237
Mussel dredges		440		450
Oyster dredges				1,573
Scallop dredges				2,991
Crab scrapes				265
Tongs, rakes, shovels, hoes, forks, picks, and grabs	13	3,994		27,289
Diving outfits				75
Crowfoot bars	22	4,480		4,502
Other apparatus ⁶		3,781		33,568

¹ Does not include data on the production of mussel shells in the streams tributary to the Great Lakes as data on this catch were not collected.

² Less than 500 dollars.

³ Includes persons in boat and shore fisheries.

⁴ Includes dip, drop, drag, push, and reef nets.

⁵ Number not determined.

⁶ Includes fish, conch, and periwinkle or cockle pots; harpoons, spears, octopus traps, coquina scoops, and hooks.

NOTE.—The South Atlantic and Gulf section includes the fisheries of Lake Okeechobee, Florida.

Fisheries of the United States and Alaska—Continued

CATCH; BY SECTIONS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England, 1940		Middle Atlantic, 1940		Chesapeake, 1941		South Atlantic and Gulf, 1940		Pacific, 1941	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH										
Alewives	3,193	19	221	3	17,012	228	9,116	111		
Amberjack			35	1			10	(?)		
Anchovies	12	(?)	6	(?)					4,105	46
Angelfish			(?)	(?)			2	(?)		
Barracuda							(?)	(?)	4,202	268
Black bass					40	4				
Bluefish	41	5	130	12	38	4	2,439	178		
Blue runner or hardtail							781	12		
Bonito	124	5	1,925	53	200	11	36	1		
Bowfin							(?)	(?)		
Buffalofish							59	3		
Butterfish	2,476	95	8,366	284	2,681	60	64	3		
Cabio or crab eater			(?)	(?)	1	(?)	1	(?)		
Cabrilla										
Carp	36	3	389	25	690	31	438	20	384	22
Catfish and bullheads			134	7	1,003	44	6,486	200	469	12
Cigarfish							6	(?)	177	27
Cod	82,289	2,503	3,638	197	1	(?)			8,364	179
Crappie					1	(?)	742	24		
Crevalle	(?)	(?)	(?)	(?)	1	(?)	239	3		
Croaker	813	19	5,181	97	32,840	685	4,421	90		
Cunner	62	2	3	(?)						
Cusk	7,967	205	(?)	(?)						
Dolphin					(?)	(?)	(?)	(?)		
Drum:										
Black			4	(?)	52	1	858	38		
Red or redfish			3	(?)	43	1	1,595	98		
Eels:										
Common	274	24	588	55	306	25	82	4		
Conger	105	1	33	1	10	(?)				
Flounders	57,572	1,928	14,362	687	946	75	1,065	83	19,774	667
Flyingfish									38	1
Frigate mackerel			72	1						
Garfish							4	(?)		
Gizzard shad					130	3	12	(?)		
Goosefish	21	(?)	22	1						
Groupers			1	(?)			5,184	206	278	18
Grunts							24	1		
Haddock	141,193	4,601	7,743	323						
Hake	14,322	296	295	8	92	1			15	(?)
Halibut	1,129	147	25	3					30,829	2,950
Hardheads									2	(?)
Harvestfish or "starfish"					68	1	435	13		
Herring, sea	44,053	408	1,925	16	1	(?)			1,019	15
Hickory shad	26	(?)	4	(?)	196	4	371	13		
Hogchoker					2	(?)				
Horse mackerel									2,069	34
Jewfish							138	4		
John Dory	1	(?)								
Kingfish (California)									325	10
Kingfish or "king mackerel"			4	1			3,478	156		
King whiting or "kingfish"	8	(?)	146	6	52	2	1,427	42		
Lamprey	(?)	(?)								
Launce	163	7								
Lingcod									5,805	230
Mackerel	35,970	767	4,070	146	643	31			78,167	1,010
Menhaden	88	1	245,369	842	182,223	954	250,077	823		
Minnows	76	11								
Mojarra							395	7		
Mullet			23	1	130	4	37,078	1,378	1	(?)
Muttonfish							404	23		
Paddlefish or spoonbill cat							11	1		
Perch									134	8
Permit							22	(?)		
Pigfish					3	(?)	87	3		
Pike or pickerel			(?)	(?)	56	8	(?)	(?)		
Pilchard or sardine									1,328,378	9,657
Pinfish or sailors choice							130	3		
Pollock	37,333	691	194	4						
Pompano							563	137	5	1
Ratfish									1,520	6

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England, 1940		Middle Atlantic, 1940		Chesapeake, 1941		South Atlantic and Gulf, 1940		Pacific, 1941	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued										
Rock bass									142	11
Rockfishes									6,223	243
Rosefish	85,142	1,271	64	1						
Rudderfish			(?)	(?)						
Sablefish									3,573	275
Salmon:										
Atlantic	2	1								
Blueback, red, or sockeye									12,795	1,666
Chinook or king									32,360	3,089
Chum or keta									15,130	856
Humpback or pink									11,629	537
Silver or coho									14,542	1,250
Sand perch			4	(?)	7	1				
Sculpin									95	9
Scup or porgy	10,843	264	5,777	123	2,632	62	92	3		
Sea bass	3,302	145	2,890	151	441	22	421	20		
Sea bass, black (California)									410	32
Sea bass, white (California)									911	94
Sea catfish							377	7		
Sea robin	142	2	162	2	14	(?)				
Shad	573	22	4,788	337	2,660	243	1,344	189	1,075	48
Sharks, including grayfish	802	24	83	1	11	1	4,260	25	39,962	4,561
Sheepshead:										
Fresh-water							18	1		
Salt-water							629	20	49	2
Silversides			162	2						
Skates	176	2	193	2	3	(?)			1,227	6
Skipper or "billfish"	(?)	(?)								
Smeit	562	46							3,861	184
Snapper:										
Lane							10	1		
Mangrove							205	9		
Red			10	1			6,524	577		
Snook or sergeantfish							470	25		
Spadefish							6	(?)		
Spanish mackerel			(?)	(?)	24	3	6,451	321	4	(?)
Splittail									20	1
Spot			228	5	1,958	55	5,449	86		
Squawfish									1	(?)
Squeteague or "sea trout:"										
Gray	154	11	4,791	187	8,451	200	3,630	182		
Spotted					118	10	6,312	512		
White							218	9		
Squirrel hake			301	2	5	(?)				
Steelhead trout									2,782	211
Striped bass	147	19	382	54	2,089	185	540	59	65	3
Sturgeon	8	1	16	2	13	2	12	1	96	5
Suckers	79	3	42	2	8	(?)	3	(?)		
Sunfish			1	(?)	10	(?)	2,105	63		
Swellfish			19	1	13	(?)				
Swordfish	1,337	230	92	19					917	146
Tautog	157	7	67	3	3	(?)				
Tenpounder							227	5		
Thimble-eyed mackerel	63	1	637	8	3	(?)				
Tilefish	9	(?)	583	35						
Toadfish					(?)	(?)				
Tomcod	20	1	2	(?)	10	(?)				
Triggerfish							6	(?)		
Tripletail							5	(?)		
Tuna and tunalike fishes:										
Albacore									11,932	1,712
Bluefin	1,121	39	34	1					9,519	581
Bonito									10,827	459
Skipjack									25,585	1,362
Yellowfin									76,702	4,851
Whitebait			25	1					131	10
Whitefish, common									37	2
White perch	4	(?)	77	4	977	41	108	4		
Whiting	40,869	336	8,388	108	410	6				
Wolfish	1,233	34		(?)						

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England, 1940		Middle Atlantic, 1940		Chesapeake, 1941		South Atlantic and Gulf, 1940		Pacific, 1941	
	Quantity	Value	Quantity ⁷	Value ¹	Quantity ²³⁴	Value ¹⁴	Quantity ⁹	Value ^(?)	Quantity	Value
FISH—continued										
Yellow perch.....										
Yellowtail:										
Atlantic.....							60	5		
Pacific.....									9,831	383
Miscellaneous.....									279	8
Total.....	576,092	14,197	324,775	3,827	259,554	3,022	367,771	5,802	1,778,773	37,733
SHELLFISH, ETC.										
Crabs:										
Hard.....	2,415	54	1,144	42	27,692	863	33,321	529	16,214	1,007
King or "horseshoe".....			1,704	4						
Rock.....	4	(?)								
Soft and peelers.....	1	(?)	78	24	2,546	325	543	83		
Stone.....							62	13		
Crabfish.....									52	8
Lobster:										
Common.....	11,165	2,001	595	130	1	(?)				
Spiny.....							463	32	1,306	202
Shrimp.....	9	(?)	5	1			150,541	5,893	985	23
Sand shrimp.....			156	52						
Abalone.....									200	59
Clams:										
Coquina.....							15	(?)		
Hard.....	4,453	584	5,207	823	1,674	364	1,241	113	364	55
Pismo.....									45	9
Razor.....	342	11	1	(?)					534	70
Soft.....	15,383	1,160	1,217	84					21	3
Surf.....			1,233	55					44	4
Conchs.....	425	8	270	10	47	1	25	1		
Mussels, sea.....	18	1	263	14	914	46				
Octopus.....							(?)	(?)	63	4
Oysters, market:										
Eastern, public.....	204	30	1,169	137	22,381	2,887	15,109	930		
Eastern, private.....	5,787	1,021	12,815	2,045	13,058	1,607	5,841	333	18	9
Pacific.....									12,313	944
Western.....									260	165
Periwinkles and cockles.....	88	6								
Scallops:										
Bay.....	1,131	382	19	8			163	21	27	7
Sea.....	5,391	800	2,252	331						
Squid.....	1,752	21	2,620	51	283	4	4	(?)	1,640	35
Sea urchins.....	102	1								
Terrapin.....					5	2	2	(?)		
Turtles.....	(?)	(?)	18	1			189	7		
Sea weed:										
Irish moss.....	596	59								
Other.....	137	1								
Sponges.....							243	888		
Bloodworms and sandworms.....	559	157	12	12						
Trepang.....									3	(?)
Total.....	49,962	6,297	30,778	3,824	68,601	6,099	207,762	8,843	34,089	2,604
WHALE PRODUCTS⁹										
Oil, whale.....									264	16
Other whale products.....									231	4
Total.....									495	20
Grand total.....	626,054	20,494	355,553	7,651	328,155	9,121	575,533	14,645	1,813,357	40,362

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes, 1941		Mississippi River & tributaries, 1931		Alaska, 1941		Total for the various years	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued							20,542	361
Alewives							65	1
Amberjack							4,123	46
Anchovies							2	(?)
Angelfish							4,303	268
Barracuda							84	6
Black bass			14	2			2,648	199
Bluefish							3,384	340
Blue pike	3,384	350					781	12
Blue runner or hardtail							2,285	70
Bonito							431	9
Bowfin	3	0	428	9			18,831	690
Buffalo fish			15,752	687			660	23
Burbot	650	23					13,387	442
Butterfish							2	(?)
Cabio or crab eater							284	22
Cabrilla							19,390	700
Carp	5,376	154	11,892	455			19,427	1,266
Catfish and bullheads	1,350	112	10,267	478			2,273	396
Chub	2,277	386					6	(?)
Cigarfish							120	20
Ciaco	12	20					94,376	2,580
Cod					294	1	794	27
Crappie			41	3			239	3
Crescent							43,255	891
Croaker							65	2
Cunner							7,967	206
Cusk							3	(?)
Dolly Varden trout					3	(?)	(?)	(?)
Dolphin								
Drum:								
Black							914	39
Red or redfish							1,641	99
Eels:								
Common			7	1			1,257	109
Conger							145	2
Flounders					153	5	93,872	3,445
Flyingfish							38	1
Frigate mackerel							72	1
Garfish			73	1			77	1
Gizzard shad							142	3
Goldfish	159	5					159	5
Goosefish							43	1
Groupers							5,463	224
Grunts							24	1
Haddock							148,936	4,924
Hake							14,724	305
Halibut					21,190	1,628	53,163	4,728
Hardheads							2	(?)
Harvestfish or "starfish"							508	14
Herring:								
Lake	22,700	773					22,700	773
Sea					163,467	535	210,465	974
Hickory shad							597	17
Hogchoker							2	(?)
Horse mackerel							2,069	34
Jewfish							138	4
John Dory							1	(?)
Kingfish (California)							325	10
Kingfish or "king mackerel"							3,512	157
King whiting or "kingfish"							1,633	50
Lake trout	10,534	1,504					10,534	1,804
Lamprey							(?)	(?)
Launce							163	7
Lingcod					216	9	6,021	239
Mackerel							118,850	1,954
Menhaden							677,757	2,630
Minnows	(?)		1	(?)			77	11
Mojarra							395	7
Mooneye	20	1	3	(?)			23	1
Mullet							37,232	1,385
Muttonfish							404	23
Paddlefish or spoonbill cat			952	43			963	44
Perch							134	8
Permit							22	(?)
Pigfish							90	3

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

CATCH: By sections—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes, 1941		Mississippi River & tributaries, 1931		Alaska, 1941		Total for the various years	
	Quantity 165	Value 10	Quantity 5	Value (?)	Quantity	Value	Quantity	Value
FISH—continued								
Pike or pickerel							226	18
Pilchard or sardine							1,328,378	9,657
Pinfish or sailors choice							130	3
Pollock							37,527	695
Pompano							568	138
Quillback			268	11			268	11
Ratfish							1,520	6
Rock bass	24	1					166	12
Rockfishes					401	6	6,624	249
Rosefish							85,206	1,272
Rudderfish							(?)	(?)
Sablefish					4,071	81	7,644	356
Salmon:								
Atlantic							2	1
Blueback, red, or sockeye					107,614	2,764	120,409	4,430
Chinook or king					22,525	870	54,885	3,939
Chum or keta					57,013	921	72,143	1,777
Humpback or pink					321,150	7,182	332,779	7,719
Silver or coho					34,722	872	49,264	2,122
Sand perch							11	1
Sauger	844	77	2	1			846	78
Sculpin							95	9
Scup or porgy							19,344	452
Sea bass							7,054	338
Sea bass black (California)							410	32
Sea bass, white (California)							911	94
Sea catfish							377	7
Sea robin							318	4
Shad							10,440	839
Sharks, including grayfish						482	17	45,600
Sheepshead:								
Fresh-water	3,701	92	3,905	143			7,624	236
Salt-water							678	22
Silversides							162	2
Skates							1,599	10
Skipper or "billfish"							(?)	(?)
Smelt	4,795	179					9,218	409
Snapper:								
Lane							10	1
Mangrove							205	9
Red							6,534	578
Snook or sergeantfish							470	25
Spadefish							6	(?)
Spanish mackerel							6,479	324
Splittail							20	1
Spot							7,635	146
Squawfish							1	(?)
Squeefague or "sea trout:"								
Gray							17,026	580
Spotted							6,430	522
White							218	9
Squirrel hake							306	2
Steelhead trout							2,782	211
Striped bass							3,223	320
Sturgeon	21	9					166	20
Sturgeon, shovelnose			87	8			87	8
Suckers	4,253	143	315	13			4,700	161
Sunfish	30	2	22	1			2,168	66
Swellfish							32	1
Swordfish							2,346	395
Tautog							227	10
Tenpounder							227	5
Thimble-eyed mackerel							703	9
Tilefish							592	35
Toadfish							1	(?)
Tomcod							32	1
Triggerfish							6	(?)
Tripletail							5	(?)
Tulibeas	472	45					472	45
Tuna and tunalike fishes:								
Albacore							11,932	1,712
Bluefin							10,674	621
Bonito							10,827	459
Skipjack							25,585	1,362
Yellowfin							76,702	4,851

See footnotes at end of table.

Fisheries of the United States and Alaska—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes, 1941		Mississippi River & tributaries, 1931		Alaska, 1941		Total for the various years	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued								
Whitebait.....							156	11
White bass.....	459	36	3	(?)			462	36
Whitefish:								
Common.....	4,693	901					4,730	903
Menominee.....	129	10					129	10
White perch.....							1,166	49
Whiting.....							49,667	450
Wolfish.....							1,242	34
Yellow perch.....	6,716	645					6,966	660
Yellow pike.....	5,181	692	5	1			5,186	693
Yellowtail:								
Atlantic.....							60	5
Pacific.....							9,831	383
Miscellaneous.....							279	8
Total.....	78,062	6,470	44,062	2,257	733,281	14,891	4,162,370	88,204
SHELLFISH, ETC.								
Crabs:								
Hard.....					746	16	81,532	2,511
King (Pacific coast).....					50	1	50	1
King or "horseshoe".....							1,704	4
Rock.....							4	(?)
Soft and peelers.....							3,168	432
Stone.....							62	13
Crawfish.....	3	(?)	29	(?)			84	8
Lobster:								
Common.....							11,761	2,131
Spiny.....							1,769	234
Shrimp.....			49	4	1,641	82	153,230	6,003
Sand shrimp.....							156	52
Abalone.....							200	59
Clams:								
Coquina.....							15	(?)
Hard.....					37	2	12,976	1,941
Pismo.....							45	9
Razor.....					512	47	1,389	128
Soft.....							16,621	1,247
Surf.....							1,277	59
Conchs.....							767	20
Mussels, sea.....							1,195	61
Mussel shells.....	(*)	(*)	37,255	422			* 37,255	422
Octopus.....							63	4
Oysters, market:								
Eastern, public.....							38,863	3,984
Eastern, private.....							37,519	5,015
Pacific.....					1	(?)	12,314	944
Western.....							260	165
Periwinkles and cockles.....							88	6
Scallops:								
Bay.....							1,340	418
Sea.....							7,643	1,131
Squid.....							6,299	111
Sea urchins.....							102	1
Terrapin.....			19	(?)			26	2
Turtles.....			94	3			301	11
Frogs.....			875	131			875	131
Sea weed:								
Irish moss.....							596	59
Other.....							137	1
Sponges.....							243	888
Pearls and slugs.....				80				80
Bloodworms and sandworms.....							571	169
Trepang.....							3	(?)
Total.....	3	(?)	38,321	640	2,937	148	432,503	28,455
WHALE PRODUCTS⁹								
Oil, whale.....							264	16
Other whale products.....							231	4
Total.....							495	20
Grand total.....	78,065	6,470	82,383	2,897	736,268	15,039	4,595,368	116,679

¹ Less than 500 pounds or dollars.⁸ Data on the production of mussel shells in streams tributary to the Great Lakes were not collected for 1941. During 1940, production amounted to 209,500 pounds, valued at \$2,210.⁹ The weight of whales caught was not determined; therefore, the weight of manufactured products is shown.

Fisheries of the United States and Alaska—Continued

CATCH: BY STATES¹

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

States	Marine and coastal rivers		Mississippi River and tributaries		Lakes		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama.....	11,344	562	1,822	33			13,166	595
Arkansas.....			15,732	411			15,732	411
California.....	1,524,378	22,390					1,524,378	22,390
Connecticut.....	14,180	1,060					14,180	1,060
Delaware.....	103,017	475					103,017	475
Florida.....	184,814	4,942			2,678	63	187,492	5,005
Georgia.....	12,672	381					12,672	381
Illinois.....			14,263	367	1,555	242	15,818	609
Indiana.....			7,718	157	286	41	8,004	198
Iowa.....			7,778	302			7,778	302
Kansas.....			455	17			455	17
Kentucky.....			1,622	61			1,622	61
Louisiana.....	126,627	4,951	19,214	995			145,841	5,946
Maine.....	88,088	2,606					88,088	2,606
Maryland.....	47,475	3,379					47,475	3,379
Massachusetts.....	510,938	15,756					510,938	15,756
Michigan.....					28,118	2,362	28,118	2,362
Minnesota.....			3,498	138	7,851	362	11,349	500
Mississippi.....	38,002	623	2,650	123			40,652	746
Missouri.....			928	77			928	77
Nebraska.....			145	16			145	16
New Hampshire.....	788	105					788	105
New Jersey.....	160,554	2,957					160,554	2,957
New York.....	91,959	4,216			1,100	136	93,059	4,352
North Carolina.....	170,581	1,865					170,581	1,865
Ohio.....			185	7	18,642	1,483	18,827	1,490
Oklahoma.....			40	4			40	4
Oregon.....	91,725	5,350					91,725	5,350
Pennsylvania.....	23	2			1,794	267	1,817	269
Rhode Island.....	12,060	966					12,060	966
South Carolina.....	9,446	266					9,446	266
South Dakota.....			114	11			114	11
Tennessee.....			3,435	104			3,435	104
Texas.....	19,369	993	139	6			19,508	999
Virginia.....	280,680	5,742					280,680	5,742
Washington.....	197,253	12,622					197,253	12,622
Wisconsin.....			2,645	68	18,719	1,578	21,364	1,646
Alaska.....	736,269	15,039					736,269	15,039
Total.....	4,432,242	107,248	82,383	2,897	80,743	6,534	4,595,368	116,679

¹ The catch for "Marine and coastal rivers" is for 1941 except in the New England, Middle Atlantic, and South Atlantic and Gulf States which is for 1940. The catch for "Mississippi River and tributaries" is for 1931. The "Lakes" catch is for 1941 for States bordering on Lakes Ontario, Erie, Huron, Michigan, Superior, Rainy Lake, Namakan Lake, and Lake of the Woods but for 1940 for Lake Okechobee.

SEED OYSTER FISHERY

Item	New England, 1940	Middle Atlantic, 1940	Chesapeake, 1941	Total
OPERATING UNITS				
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	188	944	78	1,210
On boats and shore:				
Regular.....	24	117	690	831
Casual.....	26	37	124	187
Total.....	238	1,098	892	2,228
Vessels:				
Steam.....	4			4
Net tonnage.....	576			576
Motor.....	21	84	26	131
Net tonnage.....	446	1,832	141	2,419
Sail.....	12	13		25
Net tonnage.....	81	465		546
Total vessels.....	37	97	26	160
Total net tonnage.....	1,103	2,297	141	3,541

Fisheries of the United States and Alaska—Continued

SEED OYSTER FISHERY—Continued

Item	New England, 1940		Middle Atlantic, 1940		Chesapeake, 1941		Total	
	Number		Number		Number		Number	
OPERATING UNITS—continued								
Boats:								
Motor.....	11		128		297		436	
Other.....	35		24		43		102	
Apparatus:								
Dredges.....	130		194				324	
Yards at mouth.....	152		237				389	
Tongs.....	42		153		716		911	
Rakes.....			1				1	
CATCH								
Oysters, seed:	<i>Bushels</i>	<i>Value</i>	<i>Bushels</i>	<i>Value</i>	<i>Bushels</i>	<i>Value</i>	<i>Bushels</i>	<i>Value</i>
Public, spring.....	11,295	\$8,650	836,857	\$329,196	630,550	\$134,250	1,478,702	\$472,096
Public, fall.....	29,966	19,387	1,653	714	610,377	132,972	641,996	153,073
Private, spring.....	241,621	238,789	44,050	54,330			285,671	293,119
Private, fall.....	102,843	99,055	14,630	14,750			117,473	113,805
Total.....	385,725	365,881	897,190	398,990	1,240,927	267,222	2,523,842	1,032,093

NOTE.—Of the total number of persons fishing for seed oysters, 1,891 are listed among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 1 steam vessel, 74 motor vessels, 379 motor boats, 70 other boats, 171 dredges, and 502 tongs.

Yield of the fisheries of the United States: By gear

Gear	New England, 1940		Middle Atlantic, 1940		Chesapeake, 1941	
	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
Purse seines.....	27,142,500	\$559,200	240,998,800	\$864,984	180,148,400	\$943,961
Haul seines.....	882,100	31,539	1,939,500	103,870	9,276,300	251,226
Stop seines.....	15,836,600	158,820				
Gill nets.....	16,271,500	381,749	5,594,400	316,874	2,387,700	151,589
Lines.....	57,560,800	1,932,368	3,008,600	160,889	19,835,800	641,458
Pound nets.....	22,491,300	318,093	38,611,700	874,445	52,160,200	1,168,545
Floating traps.....	8,864,300	172,815				
Other traps.....	38,200	2,149	96,900	9,630		
Weirs.....	21,287,800	184,903	340,000	989		
Stop nets.....			169,900	12,122		
Fyke nets.....	76,100	4,712	362,100	21,577	1,739,000	118,957
Dip nets.....	5,986,900	90,243	83,100	22,373	641,700	103,707
Bag, drag, and push nets.....	147,100	14,735	150,000	50,000		
Otter trawls.....	400,057,800	10,158,905	36,177,400	1,410,523	14,098,000	410,176
Pots.....	13,807,400	2,071,342	2,408,500	232,583	6,419,400	203,622
Harpoons.....	1,689,800	239,400	92,200	18,561		
Spears.....	36,100	4,323	184,200	18,520		
Scrapes, crab.....					1,225,500	122,547
Dredges.....	12,485,800	2,093,536	17,743,000	2,498,985	12,296,100	1,380,242
Tongs.....	1,912,000	362,666	5,210,600	771,433	23,226,800	3,079,033
Rakes.....	3,013,800	380,814	1,312,600	186,392	2,410,900	267,162
Forks.....	118,600	26,736	12,000	12,410		
Hoes.....	16,157,900	1,298,872	780,400	47,357		
By hand.....	189,700	5,813	266,600	16,440	2,289,400	278,578
Total.....	626,054,100	20,493,733	355,552,800	7,650,957	328,155,200	9,120,803

Yield of the fisheries of the United States: By gear—Continued

Gear	South Atlantic and Gulf, 1940		Pacific, 1941		Lakes, 1941	
	Pounds	Value	Pounds	Value	Pounds	Value
Purse seines	249,057,900	\$810,863	1,264,621,700	\$12,159,004		
Haul seines	25,661,500	894,261	5,691,800	410,536	6,047,700	\$205,403
Gill nets	45,976,600	2,003,318	¹ 42,377,400	¹ 3,542,573	40,349,400	3,613,780
Trammel nets	6,985,300	399,748			115,900	2,923
Lines	54,827,700	1,740,025	250,688,600	17,437,901	1,383,900	234,287
Pound nets	11,362,000	316,874	1,760,800	133,082	6,412,600	490,680
Other traps	85,400	13,237	17,367,900	1,201,347	21,013,100	1,727,788
Weirs			34,000	1,180		
Fyke nets	1,044,500	26,250	202,300	28,512	2,739,700	195,195
Dip nets	1,143,600	55,000	6,429,900	453,006		
Cast nets	290,100	10,640				
Bag, drag, and push nets			730,300	13,795		
Reef nets			1,717,500	164,836		
Lampara and ring nets			156,682,900	1,653,882		
Paranzella nets			² 7,338,000	² 400,811		
Otter trawls	151,828,500	5,933,833	42,226,000	1,262,558		
Beam trawls			277,400	14,644		
Pots	4,108,500	111,526			3,000	224
Harpoons			1,410,100	165,606		
Spears	410,500	35,188				
Dredges	³ 13,796,400	³ 786,195				
Tongs	5,643,400	455,986	⁴ 12,592,200	⁴ 1,117,708		
Rakes	555,100	53,643				
Shovels			1,007,100	141,030		
Grabs	2,090,600	80,256				
Hooks	178,600	131,115				
Diving apparatus, abalone and sponge	202,800	765,783	200,500	59,731		
By hand	284,400	21,254				
Total	575,533,400	14,644,895	1,813,356,400	40,361,742	78,065,300	6,470,290

Gear	Mississippi River and tributaries, 1931		Total for the various years	
	Pounds	Value	Pounds	Value
Purse seines			1,961,989,300	\$15,338,012
Haul seines	13,739,657	\$574,541	63,238,557	2,471,381
Stop seines			15,836,600	158,820
Gill nets	166,598	6,547	153,123,598	10,016,330
Trammel nets	1,134,206	75,615	8,235,406	475,291
Lines	10,140,037	772,245	397,445,437	22,919,173
Pound nets	224,275	9,541	133,022,875	3,311,260
Floating traps			8,864,300	172,815
Other traps			38,601,500	2,954,151
Weirs			21,661,800	187,072
Stop nets			169,900	12,122
Fyke nets	18,507,204	797,130	24,670,904	1,192,333
Dip nets	30,045	3,307	14,325,245	727,636
Cast nets			290,100	10,640
Bag, drag, and push nets			1,027,400	78,530
Reef nets			1,717,500	164,836
Lampara and ring nets			156,682,900	1,653,882
Paranzella nets			7,338,000	400,811
Otter trawls			644,387,700	19,175,995
Beam trawls			277,400	14,644
Pots	310,455	26,277	27,057,555	2,645,574
Harpoons			3,192,100	423,567
Spears	2,250	270	633,050	55,301
Scrapes, crab			1,225,500	122,547
Dredges	3,699,100	40,958	60,020,400	6,799,916
Tongs	1,601,876	21,091	50,186,876	5,807,917
Crowfoot bars	20,893,550	265,443	20,893,550	265,443
Rakes	370,130	4,029	7,662,530	892,040
Shovels			1,007,100	141,030
Forks	4,812,737	76,214	4,943,337	115,360
Hoes			16,935,300	1,346,229
Grabs	873,099	130,621	2,963,699	210,877
Hooks			178,600	131,115
Diving apparatus, abalone and sponge			403,300	525,514
By hand	5,877,304	93,528	8,907,404	415,613
Total	82,382,523	2,897,357	3,859,099,723	101,639,777

¹ Includes the catch by trammel nets.

² Includes a small catch by otter trawls.

³ Includes the catch by coquina scoops.

⁴ The catch by rakes, dredges and by hand is included with tongs.

Industries related to the fisheries of the United States and Alaska

Item	New England, 1940	Middle Atlantic, 1940	Chesapeake, 1940	South Atlantic and Gulf, 1940
Transporting:				
Persons engaged:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	186	187	1,023	390
On boats.....		48		287
Total.....	186	215	1,023	677
Vessels:				
Motor.....	84	40	544	159
Net tonnage.....	1,189	796	5,512	1,495
Sail.....				26
Net tonnage.....				251
Total vessels.....	84	40	544	185
Total net tonnage.....	1,189	796	5,512	1,746
Boats.....		32		148
Wholesale and manufacturing:				
Establishments.....	398	339	525	776
Persons engaged:				
Proprietors.....	439	192	508	820
Salaried employees.....	913	856	378	543
Wage earners:				
Average for season.....	11,298	4,832	11,445	17,563
Average for year.....	5,444	3,673	4,550	5,197
Salaries and wages paid.....	\$7,547,395	\$6,736,554	\$3,552,827	\$3,814,342
Manufactured products.....	\$42,758,433	\$17,875,878	\$12,685,840	\$16,295,802
Fishermen's manufactured products:				
Persons engaged.....	2,949	287	108	680
Products.....	\$1,356,815	\$513,165	\$13,306	\$109,845

Item	Pacific, 1940	Lakes, 1940	Mississippi River and tributaries, 1931	Alaska, 1941	Total for various years
Transporting:					
Persons engaged:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	141	33	29	¹ 1,800	3,769
On boats.....				(¹)	335
Total.....	141	33	29	1,800	4,104
Vessels:					
Motor.....	58	11	8	389	1,293
Net tonnage.....	1,089	101	104	12,656	22,942
Sail.....					26
Net tonnage.....					251
Total vessels.....	58	11	8	389	1,319
Total net tonnage.....	1,089	101	104	12,656	23,193
Boats.....				² 628	808
Wholesale and manufacturing:					
Establishments.....	351	221	217	237	3,064
Persons engaged:					
Proprietors.....	357	151	204		
Salaried employees.....	1,320	508	355		
Wage earners:				14,787	91,547
Average for season.....	17,432	2,371	4,275		
Average for year.....	6,191	1,296	3,483	(³)	(³)
Salaries and wages paid.....	\$11,449,359	\$2,842,680	\$3,080,430	(³)	(³)
Manufactured products.....	\$90,080,984	\$4,414,713	\$2,792,934	\$60,896,974	\$247,801,558
Fishermen's manufactured products:					
Persons engaged.....	222	189	216	(³)	(³)
Products.....	\$192,948	\$148,968	\$8,751	(³)	(³)

¹ Persons employed on boats have been included with those employed on vessels.

² Includes scows, houseboats, pile drivers, etc.

³ Statistics not available.

⁴ Includes data for 1941 on canned products, byproducts, and packaged fish.

NOTE.—Of the total number of persons engaged in the preparation of fishermen's manufactured products 4,100 have also been included as fishermen and 1,486 of the persons shown on transporting craft have likewise been included as fishermen.

MANUFACTURED FISHERY PRODUCTS

The output of manufactured fishery products (canned, cured, packaged, and byproducts) in the United States and Alaska during the most recent years for which data are available was valued at \$252,578,131. Of this amount, canned products accounted for 55 percent; byproducts, 22 percent; fresh and frozen packaged products, 17 percent; and cured products, 6 percent.

As general statistical surveys were conducted in only the Chesapeake, Lakes, and Pacific States and Alaska for 1941, the following compilation of manufactured fishery products is composite, based on the most recent statistics available. The years covered by the data are indicated by footnotes.

Manufactured fishery products of the United States and Alaska¹

Item	Quantity	Value
Alewives:		
Salted: ²		
Round.....	pounds..... 899,400	\$15,939
Corned.....	do..... 5,871,550	132,266
Pickled.....	do..... ³ 4,931,500	³ 179,219
Spiced.....	do..... 3,778,499	379,110
Tight-pack cut.....	do..... 280,100	12,698
Corned, with roe.....	do..... 62,700	3,874
Roe.....	do..... 1,200	204
Canned.....	standard cases..... 42,156	153,269
Roe, canned.....	do..... 48,182	338,160
Dry scrap.....	tons..... 1,054	51,751
Oil.....	gallons..... 37,807	13,217
Amberjack, smoked ²	pounds..... 500	65
Barracuda, fresh filets.....	do..... 1,260,000	201,600
Bluefish, smoked ²	do..... 300	45
Blue marlin, smoked ²	do..... 66	66
Blue pike:		
Fresh filets.....	do..... 1,073,473	305,983
Frozen filets.....	do..... 212,996	60,483
Buffalofish, smoked ⁴	do..... 350,700	74,445
Butterfish, smoked ⁴	do..... 480,700	112,350
Cabrilla, fresh filets.....	do..... 120,000	21,600
Carp, smoked ⁴	do..... 172,917	50,187
Catfish and bullheads, smoked ²	do..... 7,800	1,560
Chub, cisco, and tullibee, smoked ⁴	do..... 5,326,872	1,628,429
Cod:		
Fresh filets.....	do..... 9,355,914	1,432,071
Frozen filets and steaks.....	do..... 7,181,220	972,809
Fresh sticks.....	do..... 253,000	30,256
Smoked filets ²	do..... 516,180	63,776
Salted:		
Green ⁵	do..... ³ 3,588,577	³ 152,383
Dry ⁵	do..... 2,715,509	231,175
Boneless and absolutely boneless ³	do..... 8,574,007	1,387,954
Tongues ²	do..... 44,395	4,763
Stockfish.....	do..... 11,839	992
Oil:		
Cod.....	gallons..... 4,516	2,998
Cod-liver.....	do..... 325,078	482,892
Croaker, fresh filets.....	pounds..... 296,628	38,470
Cusk:		
Fresh filets.....	do..... 859,719	124,634
Frozen filets.....	do..... 310,590	37,375
Fresh sticks.....	do..... 533,000	70,600
Smoked filets ²	do..... 402,599	32,177
Eels:		
Smoked ⁴	do..... 225,355	61,539
Salted ²	do..... 122,620	10,551
Flounders:		
Fresh filets.....	do..... 16,123,793	2,458,066
Frozen filets.....	do..... 4,271,240	698,142
Fresh steaks.....	do..... 60,000	15,000
Smoked ²	do..... 1,800	290
Groupers:		
Fresh filets.....	do..... 232,210	42,349
Fresh steaks.....	do..... 344,667	75,297

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska—Continued

Item	Quantity	Value	
Haddock:			
Fresh filets	pounds	19,109,829	\$3,000,262
Frozen filets	do	27,631,071	3,820,723
Fresh sticks	do	171,000	26,960
Salted, dry ²	do	12,715	602
Smoked: ²			
Whole	do	29,200	5,808
Filets	do	293,165	48,968
Finnan haddock	do	577,611	66,837
Hake:			
Fresh filets	do	741,334	94,530
Frozen filets	do	146,480	15,287
Fresh sticks	do	580,484	68,558
Salted: ¹			
Green	do	³ 902,015	⁵ 30,271
Dry	do	393,165	11,388
Boneless and absolutely boneless	do	960,345	80,718
Smoked filets ²	do	39,400	1,227
Halibut:			
Frozen filets	do	35,385	10,944
Frozen steaks	do	1,008,447	217,521
Liver oil	gallons	20,445	699,491
Herring, lake:			
Fresh filets	pounds	29,341	3,469
Frozen filets	do	94,140	10,767
Salted ²	do	5,036,574	158,988
Smoked ²	do	1,082,397	135,262
Herring, sea:			
Salted:			
Scotch cure	do	³ 1,955,912	⁵ 114,999
Brine salted ²	do	421,700	15,424
Dry salted	do	155,125	4,675
Pickled in vinegar ²	do	1,895,425	90,799
Pickled (for bait)	do	18,750	262
Roused	do	216,600	8,062
Spiced ²	do	1,637,869	173,251
Smoked: ²			
Bloaters:			
Hard	do	623,642	78,582
Soft	do	8,066	403
Unclassified	do	193,806	26,639
Boneless	do	2,018,330	210,540
Lengthwise	do	68,517	3,862
Medium scaled	do	171,320	9,909
Kippered	do	489,500	52,113
Unclassified, whole	do	52,500	5,725
Canned:			
Herring	standard cases	9,223	50,342
Sardines	do	3,131,076	12,474,991
Meal	tons	12,520	847,116
Oil	gallons	3,041,315	1,563,545
Hogchoker, salted ²	pounds	3,000	140
King whiting, fresh filets	do	35,000	4,500
Lake trout:			
Fresh filets	do	81,650	25,441
Smoked ⁴	do	887,271	273,277
Salted ²	do	27,000	2,100
Lingcod:			
Fresh filets	do	539,989	65,451
Frozen filets	do	147,617	20,023
Mackerel:			
Fresh filets	do	230,787	38,176
Frozen filets	do	1,006,189	132,620
Smoked ²	do	64,200	13,050
Salted: ²			
Split	do	498,100	27,369
Filets	do	1,660,000	108,300
Canned	standard cases	935,001	3,503,718
Liver oil	gallons	4,384	68,171
Menhaden:			
Scrap:			
Acid	tons	11,029	242,792
Dry	do	53,978	2,972,883
Meal	do	21,338	1,035,472
Oil	gallons	6,034,050	2,829,441
Mullet:			
Salted ²	pounds	1,749,500	116,165
Roe, salted ²	do	81,300	18,400
Smoked ²	do	33,100	6,765

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska—Continued

Item	Quantity	Value
Paddlefish or spoonbill cat:		
Smoked ⁴	pounds..... 147,500	\$60,850
Roe, salted ⁶	do..... 1,595	812
Pilchard:		
Canned.....	standard cases..... 4,928,857	17,370,674
Fillets, canned.....	do..... 78,297	721,199
Meal.....	tons..... 97,979	5,942,272
Oil.....	gallons..... 18,125,147	9,879,290
Pollock:		
Fresh fillets.....	pounds..... 1,894,566	210,918
Frozen fillets.....	do..... 11,998,670	1,144,662
Salted: ²		
Green.....	do..... ³ 188,872	³ 5,775
Dry.....	do..... 257,735	11,748
Rockfishes:		
Fresh fillets.....	do..... 1,033,397	170,371
Frozen fillets.....	do..... 154,688	23,057
Rosefish:		
Fresh fillets.....	do..... 547,896	76,398
Frozen fillets.....	do..... 41,269,512	4,731,914
Sablefish:		
Frozen fillets.....	do..... 28,595	3,961
Kippered ²	do..... 613,869	117,971
Salted ²	do..... ³ 191,231	³ 10,242
Smoked ⁴	do..... 561,995	158,414
Sailfish, smoked ²	do..... 10,200	2,142
Salmon:		
Frozen steaks.....	do..... 475,956	104,190
Dried.....	do..... 1,109,952	44,346
Salted:		
Dry.....	do..... 128,632	7,356
Hard ⁵	do..... 328,100	43,556
Mild-cured ⁵	do..... ³ 12,395,308	³ 2,292,157
Eggs for caviar ²	do..... 291,518	26,856
Smoked ⁴	do..... 8,423,486	2,842,132
Kippered ²	do..... 2,543,104	721,048
Canned:		
Blueback, red, or sockeye.....	standard cases..... 1,308,715	18,282,596
Chinook or king.....	do..... 363,152	4,934,899
Chum or keta.....	do..... 860,309	5,764,903
Humpback or pink.....	do..... 4,809,258	33,398,420
Silver or coho.....	do..... 457,549	4,662,416
Steelhead trout.....	do..... 32,646	473,634
Caviar.....	do..... 3,062	61,455
Eggs for bait.....	do..... 3,474	65,556
Meal.....	tons..... 1,892	99,198
Oil:		
Body:		
Industrial.....	gallons..... 171,076	90,649
Edible.....	do..... 32,301	46,058
Egg.....	do..... 4,099	614
Sauger:		
Fresh fillets.....	pounds..... 1,958,909	528,625
Frozen fillets.....	do..... 962,034	236,512
Scup, fresh fillets.....	do..... 15,500	2,565
Sea bass:		
Fresh fillets (Atlantic).....	do..... 50,000	8,900
Fresh fillets (white, Pacific).....	do..... 235,000	63,450
Fresh steaks (black, Pacific).....	do..... 228,000	45,600
Sea catfish, fresh pan-dressed.....	do..... 20,000	1,400
Shad:		
Smoked ²	do..... 127,400	25,344
Canned.....	standard cases..... 4,563	30,447
Roe, canned.....	do..... 1,734	59,754
Sharks, including grayfish:		
Fresh fillets.....	pounds..... 190,191	25,966
Meal.....	tons..... 581	30,727
Oil:		
Body.....	gallons..... 34,528	14,779
Liver.....	do..... 607,939	9,201,668
Snapper, red:		
Fresh fillets.....	pounds..... 36,915	13,966
Fresh steaks.....	do..... 63,127	15,083
Spanish mackerel, fresh fillets.....	do..... 6,250	1,683
Spot, salted ².....	do..... 385,400	23,890
Squeteague or "sea trout," fresh fillets.....	do..... 382,000	57,620
Sturgeon, smoked ⁴.....	do..... 713,633	457,245
Suckers, smoked ².....	do..... 2,000	150
Swordfish, fresh steaks.....	do..... 64,000	20,480
Totuava, fresh steaks.....	do..... 912,000	255,360

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska—Continued

Item	Quantity	Value
Tuna and tunalike fishes:		
Canned:		
Albacore.....	standard cases	307,788
Bluefin.....	do	170,734
Bonito.....	do	223,676
Striped.....	do	456,194
"Tonno".....	do	97,094
Yellowfin.....	do	1,525,112
Yellowtail.....	do	150,983
Liver oil.....	gallons	166,062
Wahoo, smoked ¹	pounds	300
White bass, fresh fillets.....	do	22,355
Whitefish:		
Fresh fillets.....	do	109,603
Smoked ¹	do	2,641,069
Caviar, canned.....	standard cases	1,802
Whiting:		
Fresh fillets.....	pounds	96,613
Frozen fillets.....	do	5,451,784
Fresh pan-dressed.....	do	24,630
Frozen pan-dressed.....	do	15,905,274
Fresh, split "butterfly".....	do	140,550
Frozen, split "butterfly".....	do	2,400,200
Wolfish:		
Fresh fillets.....	do	21,193
Frozen fillets.....	do	99,278
Yellow perch:		
Fresh fillets.....	do	639,336
Frozen fillets.....	do	164,430
Smoked ²	do	600
Yellow pike:		
Fresh fillets.....	do	530,382
Frozen fillets.....	do	145,812
Smoked ²	do	600
Crabs, hard:		
Meat, packaged, fresh-cooked ²	do	8,690,773
Canned.....	standard cases	30,099
Dry scrap.....	tons	1,530
Crab, king, "horseshoe," meal.....	do	63
Lobsters, common, meat, packaged, fresh-cooked ²	pounds	279,750
Shrimp:		
Frozen packaged ³	do	14,548,509
Cooked and peeled ³	do	1,513,698
Sun-dried ²	do	2,069,122
Canned.....	standard cases	784,209
Soup, canned.....	do	3,808
Smoked ²	pounds	500
Bran or meal.....	tons	1,929
Abalone steaks ²	pounds	333,991
Clams, hard:		
Fresh-shucked ²	gallons	175,495
Canned:		
Whole.....	standard cases	14,647
Mincéd.....	do	17,656
Chowder.....	do	584,587
Juice, broth, soup, and cocktail.....	do	19,138
Shell products:		
Poultry feed.....	tons	2,029
Lime.....	do	1,469
Clams, razor:		
Fresh-shucked ²	gallons	29,450
Canned:		
Whole.....	standard cases	4,759
Mincéd.....	do	35,433
Juice.....	do	100
Clams, soft:		
Fresh-shucked ²	gallons	886,999
Soused (pickled) ²	do	75
Canned:		
Whole.....	standard cases	97,460
Chowder.....	do	134,669
Juice, broth, soup, and cocktail.....	do	18,894
Steamed ²	pounds	117,074
Marine-shell products:		
Buttons.....	gross	7,424,796
Novelties.....	do	899,363
Mussel-shell, fresh-water, products:		
Buttons.....	gross	10,020,499
Novelties.....	do	17,000
Poultry-feed.....	tons	3,409
Lime.....	do	2,129
Mussels, sea, steamed and shucked ²	pounds	901,978

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska—Continued

Item	Quantity	Value
Oysters:		
Eastern:		
Fresh-shucked ¹	gallons..... 6,530,323	\$8,753,591
Canned.....	standard cases 434,797	2,281,095
Soup, canned.....	do..... 3,514	20,432
Pacific:		
Fresh-shucked ¹	gallons..... 478,484	599,050
Canned.....	standard cases 178,445	716,019
Western or native, fresh-shucked ²	gallons..... 28,167	215,796
Smoked, canned.....	standard cases 1,206	31,290
Shell products:		
Poultry feed.....	tons..... 308,805	1,472,133
Lime and dust.....	do..... 115,481	408,582
Lime, burned.....	do..... 10,623	74,066
Scallops:		
Bay, fresh-shucked ³	gallons..... 154,130	493,574
Sea, fresh-shucked ³	do..... 926,174	1,181,019
Turtle products, canned.....	standard cases 11,298	123,952
Terrapin products, canned.....	do 77	4,802
Alligator hides⁴.....	pounds 88,356	7,363
Whale products:		
Oil:		
Sperm.....	gallons..... 1,338	724
Whale.....	do 32,720	15,183
Meal (bone).....	tons..... 9	283
Unclassified products:		
Fillets:		
Fresh.....	pounds 7 50,700	7 13,487
Frozen.....	do 8 97,050	8 22,494
Pan-dressed fish, fresh.....	do 9 54,466	9 6,939
Other packaged:		
Fresh ⁵	do 10 162,605	10 39,014
Frozen.....	do 11 280,270	11 39,330
Salted, including spiced and dried ⁶	do 12 2,096,050	12 185,534
Smoked ⁴	do 13 530,248	13 55,018
Canned:		
Fish for cat and dog food.....	standard cases 1,009,515	2,624,487
Fish cakes, balls, etc.....	do 128,841	889,046
Fish flakes.....	do 34,693	371,699
Fish paste.....	do 4 1 1	166,343
Crab and shrimp gumbo.....	do 3,590	3,590
Crayfish bisque.....	do 1,315	16,989
Shellfish bouillon.....	do 222	1,878
Shellfish paste.....	do 250	8,536
Miscellaneous fish and fish roe.....	do 14 35,930	14 411,349
Miscellaneous shellfish products.....	do 15 14,285	15 123,880
Scrap, miscellaneous.....	tons 16 1,187	16 49,372
Meal:		
Fur seal.....	do 373	23,865
Tuna and mackerel.....	do 8,693	484,886
Groundfish.....	do 8,803	533,683
Miscellaneous.....	do 17 13,887	17 695,570
Oil:		
Fur seal.....	gallons 54,610	33,640
Tuna and mackerel.....	do 250,517	100,048
Miscellaneous liver.....	do 18 109,384	18 2,505,246
Miscellaneous body.....	do 19 226,352	19 132,440
Glue.....	do 372,455	750,362
Seaweed products.....	tons 19,688	1,843,612
Other byproducts.....		278,886
Total fresh and frozen packaged products.....	pounds 290,167,395	42,313,791
Total cured products.....	do 98,473,489	14,773,995
Total canned products.....	do 915,365,077	138,684,157
Total byproducts.....		56,806,188
Grand total.....		252,578,131

¹ Data are for 1941 unless otherwise indicated.

² Data are for 1940.

³ This is usually an intermediate product and although shown in the total, may also be shown in its final stage of processing elsewhere in the table.

⁴ Data are for 1940 and 1931.

⁵ Data are for 1940 and 1941.

⁶ Data are for 1931.

⁷ Includes fresh fillets of red drum, pike or pickerel, sea robin, striped bass, suckers, snook or sergeantfish, tullibee, and triggerfish.

⁸ Includes frozen fillets of grouper, lake trout, salmon, shark, red snapper, and whitefish.

⁹ Includes fresh pan-dressed butterfish, croakers, red drum, flounders, scup, sea bass (Atlantic), Spanish mackerel, and squeteagues.

¹⁰ Includes fresh steaks of halibut and triggerfish; fresh sticks of pollock; and fresh-packaged sea crawfish meat.

Manufactured fishery products of the United States and Alaska—Continued

¹¹ Includes frozen steaks of cod, cusk, pollock, red snapper, swordfish, bluefin tuna, and wolf-fish; frozen sticks of cusk and hake; and frozen pan-dressed flounders.

¹² Includes salted blue-runner, cusk, haddock, hake, pollock, menhaden roe, squeteagues, salmon bellies, and sturgeon roe; dry-salted barracuda, bonito, cusk, mackerel, pilchards, sea bass (black, Pacific), and yellowtail tuna; dry-salted fillets of jewfish and tuna; salted boneless and absolutely boneless cusk and haddock; green-salted cusk and haddock; brine-salted mackerel and fillets of mackerel; and a small quantity of pickled tongues and sounds.

¹³ Includes smoked alewives, barracuda, cod, cusk, halibut, king mackerel, lingcod, mooneye, pollock, sheephead, thimble-eyed mackerel, tuna, whitefish (Menominee), and whiting; smoked fillets of alewife, mackerel, and salmon; smoked boneless cod; and kippered sturgeon and albacore tuna.

¹⁴ Includes canned cod, rockfishes, sturgeon, sturgeon caviar, tuna roe, salted mackerel, smoked salmon and tuna, kippered herring and "sardines," kippered sturgeon, pickled eels, cod salad, haddock finnan haddie, haddock chowder, menhaden roe, salmon salad, fish dinners, fish chowder, deep sea roe, seaburgers, and rat-poison bait.

¹⁵ Includes canned deviled and smoked hard crabs, soft crabs, deviled shrimp, shrimp salad, abalone, sea-mussels, Eastern oyster-stew, squid, and shellfish newberg.

¹⁶ Includes sea herring, king crab, and miscellaneous dry-scrap and miscellaneous green-scrap.

¹⁷ Includes rosefish, hard crab, soft clam, and miscellaneous meals.

¹⁸ Includes burbot, flounder, sablefish, swordfish, and miscellaneous fish liver-oils.

¹⁹ Includes blackfish, rosefish, turtle, and miscellaneous fish oils.

²⁰ Includes sea herring pomace, dried shark-fins and skins, mussel-shell stucco and chips, isinglass, pearl essence, and novelties other than shell.

NOTE.—Some of the above products have been manufactured from raw products imported from another country; therefore, they cannot be correlated directly with the catch within the United States and Alaska.

CANNED FISHERY PRODUCTS AND BYPRODUCTS TRADE

The output of canned fishery products and byproducts in the United States and Alaska in 1941 was valued at \$195,485,231. Of this total, canned products accounted for \$138,684,157 and byproducts, \$56,801,074, an increase of 47 percent in the value of canned products and 86 percent in the value of byproducts compared with the respective values of the same groups of commodities for the previous year.

Fishery products were canned at 400 establishments in the United States and Alaska during 1941. The combined output of these canneries amounted to 23,555,321 standard cases. The net weight of the products canned amounted to 915,365,077 pounds.

Canned fishery products and byproducts were prepared in 27 States and Alaska during 1941. California ranked first in the value of products, accounting for 34 percent of the total, and Alaska second, with 30 percent.

Canned fishery products and byproducts of the United States and Alaska, 1941

SUMMARY OF PRODUCTION: BY COMMODITIES

Product	Number of plants	Standard cases	Pounds	Value
Canned products:				
Salmon:				
United States.....	28	899,589	43,180,272	\$11,199,317
Alaska.....	109	6,932,040	332,737,920	56,217,601
Sardines:				
Maine and New Hampshire.....	29	3,131,276	78,281,900	12,475,991
California and Oregon.....	40	5,007,154	240,343,392	18,091,873
Tuna and tunalike fishes.....	28	2,931,581	61,563,201	19,397,887
Mackerel.....	37	935,001	44,880,048	3,503,718
Alewives.....	9	42,156	2,023,488	153,269
Alewife roe.....	24	48,182	2,312,736	338,160
Shad.....	7	4,563	219,024	30,447
Shad roe.....	8	1,734	83,232	59,754
Cat and dog food.....	11	1,009,515	48,456,720	2,624,487
Fish cakes, balls, etc.....	6	128,841	6,184,368	889,046
Fish flakes.....	3	34,661	1,663,728	371,699
Fish paste.....	6	4,169	200,112	166,343
Herring, sea.....	5	15,117	725,616	114,967
Smoked salmon.....	1	25	1,200	600
Miscellaneous fish.....	12	11,086	532,128	131,971
Salmon eggs (for bait).....	6	3,474	166,752	65,556
Salmon roe and caviar (for food).....	4	3,062	146,976	61,455
Whitefish caviar.....	4	1,802	86,496	79,504
Miscellaneous roe and caviar.....	5	18,486	887,328	211,085
Cann products.....	54	927,343	25,270,965	3,711,029
Oysters.....	48	613,242	9,198,630	2,997,114
Shrimp.....	50	784,209	13,273,112	4,882,544
Crabs.....	28	30,099	1,173,861	547,617
Crab and shrimp gumbo.....	3	600	28,800	3,590
Smoked oysters.....	7	1,206	57,888	31,290
Oyster soup.....	4	3,514	168,672	20,432
Shrimp soup.....	3	3,808	182,784	23,706
Crayfish soup.....	3	1,415	67,920	16,989
Shellfish bouillon.....	4	222	10,656	1,878
Shellfish paste.....	3	250	12,000	8,536
Terrapin products.....	3	77	3,696	4,802
Turtle products.....	6	11,298	542,304	123,952
Miscellaneous shellfish, etc.....	10	14,524	697,152	125,948
Total.....	² 400	23,555,321	915,365,077	138,684,157
Byproducts:				
Oyster and marine clam-shell products.....		tons.....	438,407	\$1,985,253
Fresh-water mussel-shell products.....				3,037,350
Marine pearl-shell products.....				6,236,714
Scrap, etc.....		tons.....	68,971	3,358,948
Meal.....		do.....	167,873	9,736,625
Marine-animal oils:				
Body.....		gallons.....	28,045,869	14,719,628
Liver.....		do.....	1,237,758	14,874,586
Liquid glue.....		do.....	372,455	750,362
Seaweed products.....		tons.....	19,688	1,843,612
Miscellaneous byproducts.....				257,996
Total.....				56,801,074
Grand total.....				195,485,231

¹ "Cut out" or "drained" weights of can contents are included for whole and minced clams, and the gross can contents for other clam products.

² Exclusive of duplication.

*Canned fishery products and byproducts of the United States and Alaska,
1941—Continued*

VALUE OF PRODUCTION: BY STATES

State	Canned products	Byproducts	Total
Maine.....	\$14,139,060	¹ \$636,157	\$14,775,217
New Hampshire.....			
Massachusetts.....	2,096,805	3,855,679	5,952,484
Rhode Island.....			
Connecticut.....		1,241,980	1,241,980
New York.....	427,589	1,914,116	2,341,705
New Jersey.....		4,328,309	
Pennsylvania.....	1,666,706	349,328	6,344,343
Delaware.....		1,373,209	1,373,209
Maryland.....	1,055,795	1,559,417	2,615,212
Virginia.....	163,295	2,329,848	2,493,143
North Carolina.....	116,644		
South Carolina.....	650,580	1,502,393	2,269,617
Georgia.....	394,593		394,593
Florida.....	238,002	1,226,708	1,464,710
Alabama.....			
Mississippi.....	2,730,037	340,410	3,070,447
Louisiana.....	3,316,868	548,790	3,865,658
Texas, Illinois, Missouri, Minnesota and Wisconsin.....	503,832	269,016	777,848
Iowa.....		2,491,456	2,491,456
Washington.....	7,130,960	3,093,325	10,224,285
Oregon.....	7,764,434	583,455	8,347,889
California.....	39,830,950	26,698,137	66,529,087
Alaska.....	56,453,007	2,459,341	58,912,348
Total.....	138,684,157	56,801,074	195,485,231

¹ Includes Maine only.

PACK OF CANNED SALMON: STANDARD CASES

Product	Alaska							
	Southeastern		Central		Western		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Chinook or king:								
1-pound tall.....	1,804	\$21,079	22,848	\$239,126	2,870	\$34,444	27,522	\$294,649
1-pound flat.....			1,947	29,243	3,094	43,560	5,041	72,803
½-pound flat.....			9,772	143,923			9,772	143,923
Total.....	1,804	21,079	34,567	412,292	5,964	78,004	42,335	511,375
Blueback, red, or sock-eye:								
1-pound tall.....	103,174	1,321,208	348,696	4,427,475	613,390	8,153,989	1,065,260	13,902,672
1-pound flat.....	3,973	57,211	22,256	307,331			26,229	364,542
½-pound flat.....	29,862	488,327	37,027	595,500			66,889	1,083,827
4-pound.....	850	10,649	5,650	69,952			6,500	80,601
Total.....	137,859	1,877,395	413,629	5,400,258	613,390	8,153,989	1,164,878	15,431,642
Silver or coho:								
1-pound tall.....	190,664	1,851,324	154,611	1,437,091	3,436	34,360	348,711	3,322,775
1-pound flat.....				1,669			1,669	18,699
½-pound flat.....	2,875	36,488	3,023	32,284			5,898	68,772
4-pound.....	432	4,259	3,269	31,873			3,701	36,132
Total.....	193,971	1,892,071	162,572	1,519,947	3,436	34,360	359,979	3,446,378
Humpback or pink:								
1-pound tall.....	3,592,365	24,798,935	986,667	6,668,274	104	691	4,579,136	31,467,900
½-pound flat.....	39,746	366,688	11,068	92,117			50,814	458,805
4-pound.....	8,650	60,550	16,183	113,281			24,833	173,831
Total.....	3,640,761	25,226,173	1,013,918	6,873,672	104	691	4,654,783	32,100,536
Chum or keta:								
1-pound tall.....	315,685	2,091,576	331,038	2,195,099	55,854	379,785	702,577	4,666,460
½-pound flat.....	3,157	28,449	2,093	17,603			5,250	46,052
4-pound.....	1,096	7,449	1,142	7,709			2,238	15,158
Total.....	319,938	2,127,474	334,273	2,220,411	55,854	379,785	710,065	4,727,670
Grand total.....	4,294,333	31,144,192	1,958,959	16,426,580	678,748	8,646,829	6,932,040	56,217,601

Canned fishery products and byproducts of the United States and Alaska,
1941—Continued

PACK OF CANNED SALMON: STANDARD CASES—Continued

Product	United States						Grand total, United States and Alaska	
	Washington		Oregon		Total		Cases	Value
	Cases	Value	Cases	Value	Cases	Value		
Chinook or king:								
1-pound tall.....	18,548	\$154,174	26,393	\$190,028	44,941	\$344,202	72,463	\$638,851
1-pound flat.....	9,560	124,770	58,112	647,528	67,672	772,298	72,713	845,101
½-pound oval.....			277	7,756	277	7,756	277	7,756
½-pound flat.....	65,429	1,011,488	127,118	2,028,548	192,547	3,040,036	202,319	3,183,959
¼-pound flat.....	1,006	15,423	14,374	243,809	15,380	259,232	15,380	259,232
Total.....	94,543	1,305,855	226,274	3,117,669	320,817	4,423,524	363,152	4,934,899
Blueback, red, or sock- eye:								
1-pound tall.....	2,385	38,160			2,385	38,160	1,067,645	13,940,832
1-pound flat.....	22,516	391,778			22,516	391,778	48,745	756,320
½-pound flat.....	86,971	1,741,358	22,723	472,638	109,694	2,213,996	176,583	3,297,823
¼-pound flat.....	2,121	47,510	7,121	159,510	9,242	207,020	9,242	207,020
4-pound.....							6,500	80,801
Total.....	113,993	2,218,806	29,844	632,148	143,837	2,850,954	1,308,715	18,282,596
Silver or coho:								
1-pound tall.....	16,941	169,410	1,168	11,680	18,109	181,090	366,820	3,503,865
1-pound flat.....	14,900	172,840	4,918	57,049	19,818	229,889	21,487	248,588
½-pound oval.....			379	6,822	379	6,822	379	6,822
½-pound flat.....	19,047	243,802	14,166	179,325	33,213	423,127	39,111	491,899
¼-pound flat.....	3,551	51,135	22,497	323,957	26,048	375,092	26,048	375,092
4-pound.....	3	18			3	18	3,704	36,150
Total.....	54,442	637,205	43,128	578,833	97,570	1,216,038	457,549	4,662,416
Humpback or pink:								
1-pound tall.....	110,369	772,583			110,369	772,583	4,689,505	32,240,483
1-pound flat.....	1,541	11,712			1,541	11,712	1,541	11,712
½-pound flat.....	42,565	413,589			42,565	413,589	93,379	872,394
4-pound.....							24,833	173,831
Total.....	154,475	1,197,884			154,475	1,197,884	4,809,258	33,298,420
Chum or keta:								
1-pound tall.....	58,999	397,876	77,230	523,264	136,229	921,140	838,806	5,587,600
1-pound flat.....	10	74	507	4,056	517	4,130	517	4,130
½-pound flat.....	7,271	63,985	4,160	36,608	11,431	100,593	16,681	146,645
4-pound.....	2,067	11,370			2,067	11,370	4,305	26,528
Total.....	68,347	473,305	81,897	563,928	150,244	1,037,233	860,309	5,764,903
Steelhead:								
1-pound tall.....	273	3,003	316	3,476	589	6,479	589	6,479
1-pound flat.....	1,169	14,028	3,180	38,160	4,349	52,188	4,349	52,188
½-pound oval.....			2,763	55,260	2,763	55,260	2,763	55,260
½-pound flat.....	5,989	81,450	10,412	141,603	16,401	225,053	16,401	223,053
¼-pound flat.....	2,255	36,080	6,289	100,624	8,544	136,704	8,544	136,704
Total.....	9,686	134,561	22,960	339,123	32,646	473,684	32,646	473,684
Grand total.....	495,486	5,967,616	404,103	5,231,701	899,589	11,199,317	7,831,629	67,416,918

NOTE.—“Standard cases” represents the various-sized cases converted to the equivalent of forty-eight 1-pound cans to the case. Salmon were canned at 20 plants in Washington, 8 in Oregon, and 109 in Alaska.

*Canned fishery products and byproducts of the United States and Alaska,
1941—Continued*

PACK OF CANNED ALEWIVES AND ALEWIFE ROE: ACTUAL CASES—Continued

Product and size	Cases	Value
Alewives:		
14-ounce (24 cans)	¹ 87,895	¹ \$141,632
15-ounce (24 cans)	6,206	9,408
17-ounce (24 cans)	1,492	2,229
Total		153,269
Alewife roe:		
8-ounce (48 cans)	36,603	152,268
17-ounce (24 cans)	² 56,243	² 185,892
Total		338,160
Grand Total		491,429

¹ Includes a pack of 28-ounce cans, 24 to the case; 16-ounce cans, 48 to the case; and 106-ounce cans, 6 to the case, which have been converted to the equivalent of 14-ounce cans, 24 to the case.

² Includes a small pack of 9-ounce cans, 24 to the case, which have been converted to the equivalent of 17-ounce cans, 24 to the case.

PACK OF CANNED OYSTERS ¹

STATE	Standard Cases		SIZE	Actual Cases	
	Cases	Value		Cases	Value
North Carolina and Georgia	12,483	\$61,694			
South Carolina	84,413	464,069			
Florida and Alabama	28,304	152,612	4-ounce (48 cans)	29,112	\$133,620
Mississippi	225,599	1,295,158	5-ounce (48 cans)	485,154	2,434,098
Louisiana	83,998	397,562	5-ounce (48 cans)	56,099	350,473
Washington	167,524	679,451	10-ounce (24 cans)	15,040	78,923
Oregon	10,921	45,568			
Total	613,242	2,997,114	Total		2,997,114

¹ The pack of oyster stew, oyster soup, and smoked oysters has not been included with the pack of oysters but has been shown under "Pack of Miscellaneous Canned Fishery Products."

NOTE.—"Standard cases" represents the various sized cases converted to the equivalent of 48 5-ounce cans to the case. Oysters were canned at 1 plant in North Carolina, 3 in South Carolina, 2 in Georgia, 2 in Florida, 2 in Alabama, 14 in Mississippi, 12 in Louisiana, 9 in Washington, and 3 in Oregon.

PACK OF CANNED CRABS ¹

STATE	Standard Cases		SIZE	Actual Cases	
	Cases	Value		Cases	Value
Maine	3,858	\$85,348			
Virginia, South Carolina and Louisiana	7,389	150,397			
Washington	6,616	105,598	8-ounce cans (48 to case)	54,749	\$499,422
Oregon	6,673	105,043	16-ounce cans (48 to case)	1,655	30,058
Alaska	5,563	101,231	20-ounce cans (24 to case)	1,710	18,137
Total	30,099	547,617	Total		547,617

¹ The pack of canned soft-shell crabs, smoked crab meat, and deviled crabs has not been included with the pack of crabs, but has been shown under the "Pack of Miscellaneous Canned Fishery Products."

NOTE.—"Standard cases" represents the various sized cases converted to the equivalent of forty-eight 16 ounce cans to the case, each can containing 13 ounces of meat. Eight ounce cans contain 6½ ounces of crab meat; and No. 2 or twenty-ounce cans, 16 ounces. Crabs were packed in 4 plants in Maine, 1 in Virginia, South Carolina and Louisiana, 5 in Washington, 6 in Oregon, and 10 in Alaska.

Canned fishery products and byproducts of the United States and Alaska, 1941—Continued

PACK OF CANNED CLAMS AND CLAM PRODUCTS: STANDARD CASES

Product and State	Whole		Minced		Chowder		Juice, broth, soup, and cocktail		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Soft clams:										
Maine, Massachusetts, and New Jersey.....	¹ 97,460	¹ \$403,921			² 134,669	² \$454,614	³ 18,894	³ \$47,695	251,023	\$906,230
Hard clams:										
Massachusetts, Rhode Island and Pennsylvania.....					183,947	736,998			183,947	736,998
New York, North Carolina, Florida, Illinois and California.....	4,563	31,719	⁴ 9,836	⁴ \$71,113	⁵ 82,309	⁵ 310,671	⁶ 15,056	⁶ 60,118	111,764	473,621
New Jersey.....			(⁴)	(⁴)	292,084	1,111,220	(⁶)	(⁶)	292,084	1,111,220
Maryland.....					26,247	89,086			26,247	89,086
Washington.....	10,084	46,733	7,820	39,868	(⁵)	(⁵)	4,082	8,918	21,986	95,519
Total.....	14,647	78,452	17,656	110,981	584,587	2,247,975	19,138	69,036	636,028	2,506,444
Razor clams:										
Washington and Oregon.....	2,664	21,619	19,339	143,637			100	500	22,103	165,756
Alaska.....	2,095	13,689	16,094	118,910					18,189	132,599
Total.....	4,759	35,308	35,433	262,547			100	500	40,292	298,355
Grand total.....	116,866	517,681	53,089	373,528	719,256	2,702,589	38,132	117,231	927,343	3,711,029

PACK OF CANNED CLAMS AND CLAM PRODUCTS: ACTUAL CASES

Product and size	Whole		Minced		Chowder		Juice, broth, soup and cocktail		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Soft clams:										
No. 1 (48 cans).....	76,382	\$314,598			22,340	\$90,520	4,106	\$14,513	102,828	\$419,631
1-pound (48 cans).....	4,114	28,494			14,600	60,325			18,714	88,819
No. 2 (24 cans).....	14,496	860,829					5,311	8,095	19,807	68,924
No. 2½ (24 cans).....					9 62,790	9 292,688			62,790	292,688
No. 10 (6 cans).....	(8)	(5)			3,297	11,081	(9)	(10)	3,297	11,081
Other sizes (standard cases).....							9,477	25,087	9,477	25,087
Total.....		403,921				454,614		47,695		906,230
Hard clams:										
½-pound (48 cases).....	288	1,222	8,670	\$34,663			(10)	(10)	8,958	35,885
No. 1 (48 cans).....	1,358	11,315	1,944	13,876	410,431	1,587,246	2,105	9,159	415,538	1,621,596
1-pound (48 cans).....	1,599	12,458			70,623	441,512	715	4,670	72,937	458,640
No. 2 (24 cans).....	3,667	20,037	2,310	18,119	1,189	2,990	2,154	7,699	9,320	48,845
No. 5 (12 cans).....					12,785	52,991	(10)	(10)	12,785	52,991
No. 10 (6 cans).....	4,320	22,422	4,960	41,914	10,052	46,060	4,649	15,735	23,981	126,131
Other sizes (standard cases).....	1,218	10,998	318	2,400	30,532	117,176	7,808	31,773	39,876	162,356
Total.....		78,452		110,981		2,247,975		69,036		2,506,444
Razor clams:										
½-pound (48 cans).....	39	253	25,312	149,191					25,351	149,444
No. 1 (48 cans).....	3,024	24,697	14,772	110,540			100	500	17,896	135,737
1-pound (48 cans).....	322	4,361	12	120					334	4,481
No. 2 (24 cans).....	55	478	385	2,655					440	3,133
2-pound (24 cans).....	195	1,150							195	1,150
4-pound (12 cans).....	514	4,369							514	4,369
No. 10 (8 cans).....			4	41					4	41
Total.....		35,308		262,547				500		298,355
Grand total.....		517,681		373,528		2,702,589		117,231		3,711,029

¹ Packed in Maine and New Jersey.² Packed in Maine and Massachusetts.³ Packed in Maine.⁴ A small pack of minced clams in New Jersey has been included with the New York, North Carolina, and Florida production.⁵ A small pack of chowder in Washington has been included with the New York, Florida, and Illinois production.⁶ A small pack of broth in New Jersey and coquina broth in Florida has been included with the New York, North Carolina, and Florida production.⁷ Includes a small production of ½-pound cans, 48 to the case which has been converted to the equivalent of 1-pound can, 48 to the case.⁸ A small production of No. 10 cans, 6 to the case has been converted to the equivalent of No. 2 cans, 24 to the case.⁹ Includes a small production of No. 3 cans, 24 to the case which has been converted to the equivalent No. 2½ cans, 24 to the case.¹⁰ The production of this item has been included with "Other sizes" (standard cases).

NOTE.—"Standard cases" represents the various sized cases converted to the equivalent of 48 No. 1 cans. Soft clam products were canned at 15 plants in Maine, 3 in Massachusetts, and 1 in New Jersey; hard clam products, at 1 plant in Massachusetts, 1 in Rhode Island, 2 in New York, 3 in New Jersey, 1 in Pennsylvania, 4 in Maryland, 1 in North Carolina, 1 in Florida, 5 in Washington, 1 in California, and 1 in Illinois; razor clam products, 4 plants in Washington, 1 in Oregon, and 10 in Alaska; and coquina clam broth at 1 plant in Florida.

*Canned fishery products and byproducts of the United States and Alaska,
1941—Continued*

PACK OF CANNED SHRIMP: STANDARD CASES

State	Dry pack (in tins)		Wet pack (in tins)		Wet pack (in glass)		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Maine and Florida.....	¹ 4,436	¹ \$29,966	² 9,584	² \$55,900	(³)	(³)	14,020	\$85,866
Georgia.....	2,611	15,076	52,810	308,661	³ 8,993	³ \$81,344	64,414	405,081
Alabama and Texas.....	(¹)	(¹)	82,237	481,603	(⁴)	(⁴)	82,237	481,603
Mississippi.....	25,666	158,691	142,987	886,769			168,653	1,045,460
Louisiana.....	80,297	501,468	370,980	2,330,175	⁴ 3,510	⁴ 31,915	454,787	2,863,558
Alaska.....	98	976					98	976
Total.....	113,108	706,177	658,598	4,063,108	12,503	113,259	784,209	4,882,544

PACK OF CANNED SHRIMP: ACTUAL CASES

Container and size	Cases	Value
In tins, dry:		
4-ounce (48 cans).....	9,932	\$47,536
5-ounce (48 cans).....	104,790	656,107
8½-ounce (24 cans).....	453	2,534
In tins, wet:		
4-ounce (48 cans).....	⁵ 5,954	⁵ 36,913
5¾-ounce (48 cans).....	636,946	3,933,921
9¾-ounce (24 cans).....	2,580	14,267
32-ounce (12 cans).....	11,015	78,007
In glass, wet:		
5¾-ounce (24 jars).....	19,294	86,954
9¾-ounce (24 jars).....	⁶ 3,368	⁶ 26,305
Total.....		4,882,544

¹ The pack of dry shrimp in tins, produced in Texas, has been included with the Maine and Florida production.

² Includes the pack of shrimp in Florida only.

³ The pack of wet shrimp in glass produced in Florida has been included with the Georgia production.

⁴ The pack of wet shrimp in glass produced in Texas, has been included with the Louisiana production.

⁵ Includes a small pack of 2½-ounce cans, 48 to the case, which has been converted to the equivalent of 4-ounce cans, 48 to the case.

⁶ Includes the packs of 2½-ounce jars, 48 to the case; 4-ounce jars, 24 to the case; and 6-ounce jars, 24 to the case, which have been converted to the equivalent of 9¾-ounce jars, 24 to the case.

NOTE.—“Standard cases” represents the various sized cases converted to the equivalent of forty-eight 5-ounce cans to the case in the dry pack and forty-eight 5¾-ounce cans to the case in the wet pack. Shrimp were canned at 3 plants in Georgia, 1 in Maine, 3 in Florida, 2 in Alabama, 13 in Mississippi, 25 in Louisiana, 2 in Texas and 1 in Alaska. The pack of shrimp soup, shrimp salad, and deviled shrimp is not included in the above data, but is shown in the table “Pack of Miscellaneous Canned Fishery Products.”

Canned fishery products and byproducts of the United States and Alaska, 1941—Continued

PACK OF MISCELLANEOUS CANNED FISHERY PRODUCTS: STANDARD CASES

Product	Atlantic and Gulf Coasts ¹		Pacific Coast (including Alaska)		Total	
	Cases	Value	Cases	Value	Cases	Value
Cat and dog food	399,061	\$956,310	610,454	\$1,668,177	1,009,515	\$2,624,487
Fish cakes, balls, etc.	² 128,841	² 889,046	(²)	(²)	128,841	889,046
Fish flakes ³	34,661	371,699			34,661	371,699
Fish paste	⁴ 4,169	⁴ 166,343	(⁴)	(⁴)	4,169	166,343
Herring, sea	15,117	114,967			15,117	114,967
Smoked salmon			25	600	25	600
Shad	(⁵)	(⁵)	⁶ 4,563	⁶ 30,447	4,563	30,447
Miscellaneous fish ⁶	9,059	111,049	1,997	20,922	11,086	131,971
Shad roe	(⁷)	(⁷)	⁸ 1,734	⁸ 59,754	1,734	59,754
Salmon eggs (for bait)			3,474	65,556	3,474	65,556
Salmon roe and caviar (for food)	3,062	61,455			3,062	61,455
Whitefish caviar	1,802	79,504			1,802	79,504
Miscellaneous roe and caviar	⁷ 18,486	⁷ 211,085	(⁷)	(⁷)	18,486	211,085
Crab and shrimp gumbo	600	3,590			600	3,590
Smoked oysters	(⁹)	(⁹)	¹⁰ 1,206	¹⁰ 31,290	1,206	31,290
Oyster soup	3,514	20,432			3,514	20,432
Shrimp soup	3,808	23,706			3,808	23,706
Crayfish soup	1,415	16,989			1,415	16,989
Shellfish bouillon	222	1,878			222	1,878
Shellfish paste	⁹ 250	⁹ 8,536	(⁹)	(⁹)	250	8,536
Terrapin products	77	4,802			77	4,802
Turtle products	11,298	123,952			11,298	123,952
Miscellaneous shellfish, etc	¹⁰ 14,524	¹⁰ 125,948	(¹⁰)	(¹⁰)	14,524	125,948
Total	649,996	3,291,291	623,453	1,876,746	1,273,449	5,168,037

¹ Includes the production of whitefish caviar by one firm in Wisconsin.

² A small pack of codfish balls by one firm in Washington has been included with the production of fish cakes, balls, etc. on the east coast.

³ Tuna flakes are not included in this table, but are included in the table for canned tuna and tunalike fishes.

⁴ A small pack of fish paste by one firm in California has been included with the production on the east coast.

⁵ A small pack of shad and shad roe by one firm in Maryland has been included with the production of these items on the west coast.

⁶ Includes cod, cod salad, pickled eels, salted mackerel, salmon salad, finnan haddie, fish chowder, fish dinners, and rat poison bait on the east coast, and rockfishes, smoked tuna, and kippered sturgeon on the west coast.

⁷ A small pack of tuna and sturgeon roe on the west coast has been included with the production of menhaden, sturgeon, and deep sea roe on the east coast.

⁸ A small pack of smoked oysters by one firm in Louisiana has been included with the production on the west coast.

⁹ A small pack of shellfish paste by one firm in Washington has been included with the production on the east coast.

¹⁰ The pack of smoked crab meat, abalone, and squid on the west coast has been included with the production of soft-shelled crab, deviled crab, oyster stew, shrimp salad, deviled shrimp, pickled mussels, shellfish newberg, and seaburger on the east coast.

NOTE.—"Standard cases" represents the various sized cases converted to the equivalent of forty-eight 1-pound cans to the case. Cat and dog food was canned at 11 plants; fish cakes, balls, etc., at 6 plants; fish flakes, at 3 plants; fish paste, at 6 plants; sea herring, at 5 plants; smoked salmon, at 1 plant; shad, at 7 plants; miscellaneous fish at 12 plants; shad roe, at 8 plants; salmon eggs (for bait), at 6 plants; salmon roe or caviar (for food), at 4 plants; whitefish caviar, at 4 plants; miscellaneous roe and caviar, at 5 plants; crab and shrimp gumbo, at 3 plants; smoked oysters, at 7 plants; oyster soup, at 4 plants; shrimp soup, at 3 plants; crayfish soup, at 3 plants; shellfish bouillon, at 4 plants; shellfish paste, at 3 plants; terrapin products, at 3 plants; turtle products, at 6 plants; and miscellaneous shellfish, at 10 plants.

PRODUCTION OF OYSTER AND MARINE CLAM-SHELL PRODUCTS¹

State	Crushed shell for poultry feed		Shell lime		Total	
	Tons	Value	Tons	Value	Tons	Value
Rhode Island, Connecticut, and North Carolina	2,216	\$27,055	3,468	\$10,074	5,684	\$37,129
New Jersey	6,764	58,874	2,375	8,958	9,139	67,832
Pennsylvania	1,629	17,482	358	1,747	1,987	19,229
Maryland	43,503	278,219	33,886	83,001	77,389	361,220
Virginia	29,311	189,412	35,152	190,875	64,463	380,287
South Carolina, Florida, and Alabama	12,638	60,690	2,681	11,306	15,319	71,996
Mississippi	19,361	92,599	1,363	1,413	20,724	94,012
Louisiana and Texas	169,921	575,668	39,209	130,204	209,130	705,872
Washington and Oregon	10,682	107,927	² 9,081	² 53,955	19,763	161,882
California	14,809	85,794	(²)	(²)	14,809	85,794
Total	310,834	1,493,720	³ 127,573	³ 491,533	438,407	1,985,253

¹ Marine clam-shell products were produced only in Washington.

² The production of shell lime in California is included with the Washington and Oregon production.

³ Includes 10,623 tons of burned lime valued at \$74,066 which was produced in Pennsylvania, Virginia and Louisiana.

NOTE.—Crushed shell products were prepared in 1 plant in Rhode Island, 1 in Connecticut, 6 in New Jersey, 3 in Pennsylvania, 4 in Maryland, 6 in Virginia, 4 in North Carolina, 1 in South Carolina, 1 in Florida, 1 in Alabama, 3 in Mississippi, 1 in Louisiana, 2 in Texas, 8 in Washington, 1 in Oregon, and 3 in California.

Canned fishery products and byproducts of the United States and Alaska,
1941—Continued

PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS

Product	Iowa		New York, Missouri and Wisconsin		Total	
	Quantity	Value	Quantity (¹)	Value (¹)	Quantity	Value
Pearl buttons.....gross..	¹ 10,020,499	¹ \$2,971,547			10,020,499	\$2,971,547
Crushed shell for poultry feed.....tons..	3,248	23,896	161	\$958	3,409	24,854
Lime.....do.....	2,046	6,327	83	302	2,129	6,629
Other products ²		³ 34,320		(³)		34,320
Total.....		3,036,090		1,260		3,037,350

¹ The production of pearl buttons in New York and Missouri has been included with the Iowa production.

² Consists of chips and novelties.

³ The production of novelties in Missouri has been included with the Iowa production.

NOTE.—Mussel shells purchased during the year amounted to 34,762,000 pounds valued at \$410,373. Shells were taken in 14 States in the Mississippi River and the Great Lakes region. The producing States, in the order of their importance were: Tennessee, which contributed 31 percent of the total quantity; Kentucky, 25 percent; Arkansas, 19 percent; Illinois and Indiana, 8 percent each; Iowa, 4 percent; Texas, 2 percent; Wisconsin, 1 percent; and Alabama, Louisiana, Michigan, Minnesota, Mississippi, and Missouri, less than 1 percent each.

PRODUCTION OF MARINE PEARL-SHELL PRODUCTS ¹

Product	Connecticut		New York		New Jersey	
	Gross	Value	Gross	Value	Gross	Value
Pearl buttons.....	1,890,658	\$1,225,980	929,024	\$722,932	2,269,198	\$2,178,353
Novelties ²				(³)		76,938
Total.....		1,225,980		722,932		2,255,291

Product	Florida	Maine, Massachusetts Rhode Island, Penn- sylvania, Maryland and California		Total	
	Value	Gross	Value	Gross	Value
Pearl buttons.....		⁴ 2,335,916	⁴ \$1,210,086	7,424,796	\$5,337,351
Novelties ²	\$148,742		³ 673,683		899,363
Total.....	148,742		1,883,769		6,236,714

¹ Produced principally from imported shells.

² Includes knife handles, handles for manicure sets, dolls, lamps, mounted fish decoys, etc.

³ The production of novelties in New York has been included with those produced in Massachusetts, Rhode Island, Maryland, and California.

⁴ Produced in Maine, Massachusetts, Pennsylvania, and Maryland.

NOTE.—Marine pearl-shell products were manufactured at 1 plant in Maine, 1 in Massachusetts, 1 in Rhode Island, 5 in Connecticut, 6 in New York, 19 in New Jersey, 1 in Pennsylvania, 1 in Maryland, 11 in Florida, and 2 in California.

FISH UTILIZED AND PRODUCTS OF THE MENHADEN INDUSTRY

State	Menhaden utilized	Products						
		Dry scrap and meal		Acidulated scrap		Oil		Total
	Number	Tons	Value	Tons	Value	Gallons	Value	Value
New York, New Jersey, Delaware, and Mississippi.....	474,710,000	29,105	\$1,488,872	(¹)	(¹)	2,860,938	\$1,228,942	\$2,717,814
Virginia.....	278,592,000	20,557	1,093,191			1,350,322	718,944	1,512,135
North Carolina.....	182,672,000	12,796	725,551	6,694	\$154,206	1,333,767	680,310	1,560,067
Florida.....	220,872,000	12,858	700,741	4,335	88,586	489,023	201,245	990,572
Total.....	² 1,156,846,000	³ 75,316	4,008,355	11,029	242,792	6,034,050	2,829,441	7,080,588

¹ The production of acidulated scrap in New York and Delaware has been included with the North Carolina production.

² 775,086,820 pounds.

³ Of this production, 53,978 tons, valued at \$2,972,883 were reported as dry scrap and 21,338 tons, valued at \$1,035,472 as meal.

NOTE.—The menhaden factories were located as follows: 1 in New York, 2 in New Jersey, 2 in Delaware, 8 in Virginia, 10 in North Carolina, 5 in Florida, and 1 in Mississippi.

Canned fishery products and byproducts of the United States and Alaska,
1941—Continued

PRODUCTION OF MISCELLANEOUS BYPRODUCTS

Product	Atlantic and Gulf coasts ¹		Pacific coast (including Alaska)		Total		
	Quantity	Value	Quantity	Value	Quantity	Value	
Dried scrap:							
Alewife	tons	1,054			1,054	\$51,751	
Blue crab	do	1,530			1,530	38,580	
Miscellaneous	do	1,380		(2)	1,380	52,942	
Meal:							
Fur-seal	do		373	\$23,865	373	23,865	
Groundfish, "white fish"	do	8,803	533,683		8,803	533,683	
Herring	do	756	29,275	11,764	817,841	12,520	847,116
Pilchard	do			97,979	5,942,272	97,979	5,942,272
Salmon	do			1,892	99,194	1,892	99,198
Shark	do	(3)	(3)	1,591	130,727	581	20,727
Shrimp	do	1,798	43,533	(4)	(4)	1,798	43,533
Tuna and mackerel	do			8,693	484,896	8,693	484,896
Miscellaneous ⁵	do	13,014	652,924	682	42,929	13,696	695,853
Oil:							
Alewife	gallons	37,807	13,217		37,807	13,217	
Cod	do	4,516	2,998		4,516	2,998	
Cod-liver	do	325,078	482,892	(6)	(6)	325,078	482,892
Fur-seal	do			54,610	33,640	54,610	33,640
Herring	do	149,862	65,778	2,894,453	1,497,767	3,041,315	1,562,545
Pilchard	do			18,125,147	9,789,290	18,125,147	9,879,290
Salmon	do						
Halibut	do			32,310	48,058	32,310	48,058
Industrial	do			171,076	90,649	171,076	90,649
Salmon egg	do			4,099	614	4,099	614
Shark	do			34,528	14,779	34,528	14,779
Shark-liver	do	41,478	1,170,965	566,411	8,030,983	607,889	9,201,648
Tuna-tiver	do	7,258	548,990	158,804	1,365,160	166,062	1,914,150
Tuna and mackerel	do			250,517	100,045	250,517	100,048
Whale:							
Sperm	do			1,338	724	1,338	724
Other	do			32,720	15,183	32,720	15,183
Liver, miscellaneous	do	17,005	1,121,975	117,208	2,150,923	134,213	3,272,898
Miscellaneous	do	226,352	132,440	(7)	(7)	226,352	132,440
Seaweed products	tons			19,688	1,843,612	19,688	1,843,612
Liquid glue	gallons	372,455	750,362	(8)	(8)	372,455	750,362
Miscellaneous byproducts			257,996			257,996	
Total			5,950,021		32,511,148		38,461,169

¹ Includes the production of burbot-liver oil in Minnesota and Wisconsin.

² A small quantity of green scrap produced in California has been included with the production of herring, king crab, and miscellaneous dry scrap, and fish pomace on the east coast.

³ A small quantity of shark meal produced in Florida has been included with the production of shark meal on the west coast.

⁴ A small quantity of shrimp meal produced in California has been included with the production of shrimp meal on the east coast.

⁵ Includes blue crab, clam, rosefish and miscellaneous fish meals on the east coast and whale and miscellaneous fish meals on the west coast.

⁶ A small quantity of cod-liver oil produced in Washington has been included with the production of cod-liver oil on the east coast.

⁷ Includes burbot, halibut, sablefish, mackerel, swordfish, and miscellaneous liver oils on the east coast and flounder, halibut, sablefish, mackerel, and miscellaneous liver oils on the west coast.

⁸ A small quantity of miscellaneous fish oil produced in Oregon has been included with the production of rosefish, blackfish, and turtle oils on the east coast.

⁹ The production of seaweed in Maine has been included with the production of these products on the west coast.

¹⁰ A small quantity of liquid glue produced in California has been included with the production of liquid glue on the east coast.

¹¹ Includes isinglass, pearl essence, shark skins, shark fins, and fish scale novelties.

*Plants engaged in the production of canned fishery products and byproducts,
1941*

BY STATES

State	Canned products	Byproducts	Total exclusive of duplication
	Number	Number	Number
Maine.....	45	27	57
New Hampshire.....	1		1
Massachusetts.....	8	17	22
Rhode Island.....	1	2	3
Connecticut.....		6	6
New York.....	8	10	17
New Jersey.....	3	30	33
Pennsylvania.....	1	5	6
Delaware.....		3	3
Maryland.....	11	6	17
Virginia.....	14	18	29
North Carolina.....	6	15	19
South Carolina.....	4	2	4
Georgia.....	4		4
Florida.....	7	20	27
Alabama.....	2	1	3
Mississippi.....	14	5	19
Louisiana.....	30	34	62
Texas.....	2	2	4
Wisconsin.....	1	2	2
Minnesota.....		1	1
Missouri.....		1	1
Illinois.....	1		1
Iowa.....		14	14
Washington.....	48	19	64
Oregon.....	17	8	22
California.....	49	85	94
Alaska.....	123	14	136
Total.....	400	347	671

Plants engaged in the production of fishery byproducts, 1941

BY COMMODITIES

Product	Atlantic and Gulf Coasts	Pacific Coast and Alaska	Total
	Number	Number	Number
Oyster and marine clam-shell products:			
Crushed shell for poultry feed.....	34	12	46
Shell lime.....	34	10	44
Fresh-water mussel-shell products:			
Pearl buttons.....	14		14
Crushed shell for poultry feed.....	7		7
Lime.....	8		8
Chips and novelties.....	5		5
Marine pearl-shell products:			
Pearl buttons.....	32		32
Novelties.....	20	2	22
Acidulated scrap, menhaden.....	11		11
Dried scrap:			
Alewife.....	5		5
Blue crab.....	4		4
Menhaden.....	26		26
Miscellaneous.....	7	1	8
Meal:			
Fur-seal.....		1	1
Groundfish, "white fish".....	3		3
Herring.....	6	11	17
Menhaden.....	14		14
Pilchard.....		74	74
Salmon.....		7	7
Shark.....	1	4	5
Shrimp.....	34	1	35
Tuna and mackerel.....		21	21
Miscellaneous.....	8	4	12

Plants engaged in the production of fishery byproducts, 1941—Continued
BY COMMODITIES—Continued

Product	Atlantic and Gulf Coasts ¹	Pacific Coast and Alaska	Total
	Number	Number	Number
<i>Out:</i>			
Alewife	5		5
Cod	4		4
Cod-liver	11	1	12
Fur-seal		1	1
Herring	5	11	19
Menhaden	25		25
Pilchard		74	74
Salmon:			
Edible		5	5
Industrial		5	5
Salmon egg		1	1
Shark		4	4
Shark-liver	3	14	17
Tuna-liver	5	8	13
Tuna and mackerel		23	23
Whale			
Sperm		1	1
Other		1	1
Liver miscellaneous	6	9	14
Miscellaneous	4	2	6
Seaweed products	2	4	6
Liquid gel	3	1	4
Miscellaneous byproducts	6		6
Total, exclusive of duplication	221	125	347

¹ Includes firms in the Great Lakes and Mississippi River States which engaged in the production of fresh-water mussel-shell products and burbot-liver oil.

FROZEN FISH TRADE¹

FISH FROZEN

A total of 246,587,652 pounds of fishery products were frozen during 1941 by domestic freezing plants that reported their activities to the government. At the time these products were held in cold storage they were estimated to be valued at \$24,000,000. Compared with the output in 1940 the increase in volume was 26 percent. Seven items accounted for 61 percent of the poundage frozen. These were rosefish fillets, 14 percent of the total; whiting, 13 percent; haddock fillets, 10 percent; shrimp and halibut, each, 8 percent; mackerel, 5 percent; and pollock fillets, 4 percent. Other products frozen in considerable quantity during the year were chinook and silver salmons, croakers, cod fillets, lake herring, and sablefish (black cod).

¹The statistics in this section were furnished by the Agricultural Marketing Service, Department of Agriculture.

Production of frozen fishery products, 1941

BY SPECIES AND MONTHS

Species	Month ending the 15th of—					
	January	February	March	April	May	June
FROZEN FISH AND SHELLFISH						
Salt-water fish:	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Bait and animal food	36,000	11,765	405,804	200,947	618,038	386,041
Bluefish	13,309	4,026	433	997	87,472	12,673
Butterfish	19,751	3,921	50,544	52,650	15,169	562,354
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	168,069	181,704	187,585	214,537	285,905	286,270
Croakers	2,890	17,053	2,782	23,282	686,160	570,688
Eels	2,603	1,810	145	3,837	21,414	26,402
Fillets:						
Cod	70,150	100,800	94,296	361,600	484,555	555,220
Haddock	449,635	1,416,619	1,206,777	1,707,562	2,326,482	2,837,419
Lingcod	4,537	450	2,071	685	1,000	24,132
Pollock	1,317,859	263,266	13,425	158,191	439,395	177,192
Rosefish	1,429,620	1,237,476	1,543,185	2,635,059	3,654,114	3,527,346
Flounders	280,362	263,190	79,693	67,869	150,198	305,044
Halibut				337,048	3,209,424	3,880,456
Herring, sea (including river herring)	108,882	24,540	31,910	236,905	1,093,677	160,256
Mackerel (except Spanish)	18,164	81,615	8,082	18,108	259,834	1,828,151
Mullet	38,020	134,162	163	6,525	23,432	18,378
Sablefish (black cod)	51,020	10,219	42,993	6,817	18,614	42,126
Salmon:						
King or chinook	16,302	28,400	35,376	15,717	57,975	305,805
Silver or coho	86,789	68,836	48,450	35,075	4,163	51,770
Fall and pink	87,093	76,894	62,963	34,780	15,819	32,912
Steelhead trout	38,220	25,813	32,594	7,809	54,239	68,734
Unclassified	15,614	51,622	17,152	103,627	58,182	96,251
Scup (porgies)	1,350	28,820	6,705	2,495	86,075	178,404
Shad and shad roe	3,331	34,624	4,209	75,108	356,881	143,146
Smelts (including lake smelt)	295,294	108,941	76,032	203,605	594,101	52,200
Snapper, red	17,968	18,075	9,469	4,129	27,645	66,130
Swordfish	179,804	49,400	10,363	380	370	46,345
Sea trout (weakfish, gray and spotted)	20,938	13,162	114	9,105	164,317	175,119
Whiting	136,215	157,664	138,798	122,541	688,391	2,859,933
Other salt-water fish	887,710	810,364	314,052	547,959	1,258,182	1,749,600
Total salt-water fish	5,797,499	5,225,231	4,426,165	7,194,949	16,741,223	21,026,497
Fresh-water fish:						
Bait and animal food	6,000	720		300	1,089	37,000
Blue pike and sauger	155,126	74,116	72,826	8,880	383	46,702
Catfish and bullheads	90,910	11,508	3,467	12,934	86,176	47,749
Cisco (Lake Erie)	40,347	17,142	3,435	4,019	7,789	17,594
Chubs	42,793	4,359	9,784	11,503	20,494	46,873
Lake herring	363,456	6,362	8,008		11,667	17,851
Tullibee	22,741	58,883	106,021	18,756	126	
Lake trout	49,831	14,245	11,821	9,331	60,266	54,569
Pike (including pickerel, jacks, and yellow jack)	104,164	80,936	105,545	196,089	69,173	14,983
Sturgeon and spoonbill cat	5,592	85	18,827	9,131	29,534	57,298
Suckers	875	143	2,001	55	18,585	562
Yellow perch	22,172	43,453	55,452	15,179	22,263	15,856
Yellow pike (or wall-eye)	30,727	47,782	94,826	45,919	68,845	3,782
Whitefish	50,171	136,686	245,201	79,747	79,499	31,929
Other fresh-water fish	275,801	293,847	323,071	237,740	454,202	376,093
Total fresh-water fish	1,260,706	790,267	1,060,285	649,583	930,091	768,841
Shellfish:						
Scallops	83,861	54,068	17,835	8,688	147,426	209,384
Shrimp	476,147	1,272,110	294,766	379,453	861,532	2,421,058
Spiny lobster tails	224,080	15,570		226,600		21,300
Squid	37,132	11,591	2,348	17,869	92,664	1,088,335
Other shellfish	197,951	235,386	36,462	90,374	137,003	162,259
Total shellfish	1,019,171	1,588,725	351,411	722,984	1,238,625	3,902,336
Total fish and shellfish	8,077,376	7,604,223	5,837,861	8,567,516	18,909,939	25,697,674

Production of frozen fishery products, 1941—Continued

BY SPECIES AND MONTHS—Continued

Species	Month ending the 15th of—						
	July	August	September	October	November	December	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
FROZEN FISH AND SHELLFISH							
Salt-water fish:							
Bait and animal food	716,796	634,845	472,700	345,559	486,232	148,844	4,463,571
Bluefish	139,851	117,077	35,602	10,806	30,880	3,086	456,212
Butterfish	420,668	244,466	89,332	314,417	211,928	237,712	2,222,812
Cod, haddock, hake, and pollock (except filets of cod, haddock, and pollock)	354,373	236,776	221,910	281,538	513,076	318,197	3,249,940
Croakers	1,072,611	1,909,329	661,992	27,920	188,619	6,344	5,169,670
Eels	18,909	69,948	25,281	34,033	65,527	54,304	324,213
Filets:							
Cod	679,371	389,001	234,419	246,451	1,004,716	373,249	4,593,928
Haddock	3,097,957	3,438,985	3,150,153	2,503,613	897,954	787,409	23,810,565
Lingcod	33,396	2,145	145		7,977	7,265	83,903
Pollock	354,065	102,100	197,308	571,234	2,714,897	3,892,150	10,201,980
Rosefish	3,017,812	3,877,895	3,906,693	3,301,069	3,508,570	1,774,845	33,413,744
Flounders	392,404	339,240	409,865	436,063	223,437	211,535	3,158,900
Halibut	4,850,534	2,086,578	2,504,322	2,255,386			19,103,748
Herring, sea (including river herring)	114,960	75,988	66,864	288,737	306,475	481,075	2,990,269
Mackerel (except Spanish)	525,005	2,485,426	1,760,510	2,522,027	2,954,233	327,228	12,788,383
Mullet	62,825	371,302	296,043	481,550	416,670	709,786	2,558,856
Sablefish (black cod)	101,909	431,440	466,311	1,165,313	828,290	468,187	3,633,239
Salmon:							
King or chinook	672,533	483,522	863,227	996,016	58,561	21,730	3,555,164
Silver or roho	440,412	1,476,264	2,737,189	1,430,000	139,371	90,515	6,608,833
Fall and pink	6,076	129,905	182,038	332,195	3,037,926	127,011	4,125,612
Steelhead trout	580	2,519	833	4,082	2,446	4,287	242,156
Unclassified	121,220	44,997	35,005	51,927	44,768	39,792	682,157
Scup (porgies)	325,995	419,609	157,619	13,482	21,278	4,440	1,246,272
Shad and shad roe	29,884	6,988	1,085	1,717	3,682	4,792	665,447
Smelts (including lake smelt)	44,091	99,784	109,981	69,967	63,476	9,977	1,727,449
Snapper, red	38,801	25,496	14,375	4,921	26,989	90,082	344,080
Swordfish	117,505	497,937	432,312	83,326	4,492	6,031	1,428,265
Sea trout (weakfish, gray and spotted)	255,398	165,068	290,833	191,595	107,340	32,966	1,425,955
Whiting	7,075,839	9,643,787	5,126,675	3,029,253	2,357,940	913,614	32,250,650
Other salt-water fish	2,117,168	1,664,017	1,316,255	1,364,574	2,141,500	1,194,142	15,565,323
Total salt-water fish	27,178,908	31,472,434	25,766,874	22,560,771	22,359,250	12,340,595	202,090,396
Fresh-water fish:							
Bait and animal food	471,000		2,955	9,356	27,091	865,660	1,420,171
Blue pike and sauger	7,486	3,873	12,378	162,157	222,274	15,482	781,683
Catfish and bullheads	36,399	32,617	21,359	11,945	41,249	26,192	421,605
Cisco (Lake Erie)	27,813	11,075	6,585	5,975	3,573	78,772	224,119
Chubs	102,636	202,105	115,899	160,804	50,692	260,476	1,028,218
Lake herring	122,060	14,529	1,957	9,556	445,818	2,634,276	3,635,540
Tullibee	2,989	63,090	19,860	18,422	46,698	105	357,691
Lake trout	107,842	62,666	72,659	135,702	210,958	647,331	1,437,471
Pike (including pickerel, jacks, and yellow jack)	56,106	53,331	70,009	158,951	165,881	152,687	1,227,855
Sturgeon and spoonbill cat	25,762	9,593	90,100	55,078	17,821	9,234	328,055
Suckers	15,484	6,396	4,866	648	9,789	2,942	62,346
Yellow perch	19,630	62,872	41,357	75,037	87,343	43,816	504,430
Yellow pike (or wall-eye)	35,321	19,578	39,829	23,362	45,690	5,370	461,031
Whitefish	145,076	90,196	22,991	59,041	70,879	294,832	1,306,248
Other fresh-water fish	522,412	445,143	345,847	289,546	519,359	530,043	4,613,104
Total fresh-water fish	1,698,016	1,077,064	868,651	1,173,680	1,965,115	5,567,268	17,809,567
Shellfish:							
Scallops	359,476	577,567	355,482	261,385	181,174	139,823	2,396,169
Shrimp	1,315,397	516,454	1,243,736	2,912,331	4,779,607	3,331,212	19,808,803
Spiny lobster tails	1,365	707	2,086	4,349	5,255	5,345	506,657
Squid	162,539	434,594	242,029	136,132	89,386	90,542	2,405,161
Other shellfish	103,442	129,625	82,762	177,092	102,543	121,000	1,575,899
Total shellfish	1,942,219	1,658,947	1,926,095	3,491,289	5,157,965	3,687,922	26,687,689
Total fish and shellfish	30,819,143	34,208,445	28,561,620	27,225,740	29,482,330	21,595,785	246,587,652

Production of frozen fishery products, 1941—Continued

BY GEOGRAPHICAL SECTIONS AND SPECIES¹

(Expressed in thousands of pounds; that is, 000 omitted)

Species	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
FROZEN FISH AND SHELLFISH								
Salt-water fish:								
Bait and animal food.....	1,206	1,029	551				1,678	4,464
Bluefish.....	9	421	8	14	4			456
Butterfish.....	267	1,928	21	7				2,223
Cod, haddock, hake, and pollock (except filets of cod, haddock, and pollock).....	1,601	353	3	15		680	598	3,250
Croakers.....		2,683	2,417	6		64		5,170
Eels.....	96	205	12	11				324
Filets:								
Cod.....	3,795	199	6	107	119	1	367	4,594
Haddock.....	22,392	873	39	387	17	93	10	23,811
Lingcod.....			4				80	84
Pollock.....	9,977	6		199	18	1		10,201
Rosefish.....	32,820	2		591		1		33,414
Flounders.....	1,347	713	91	89	9	113	797	3,159
Halibut.....	99	298	3	367	25	4	18,308	19,104
Herring, sea (including river herring).....	1,191	1,705	1	80			13	2,990
Mackerel (except Spanish).....	9,957	2,727	3	36	6	2	57	12,788
Mullet.....		144	1,948	91		376		2,559
Sablefish (black cod).....		110		35	5		3,483	3,633
Salmon:								
King or chinook.....	1	70		13	6	2	3,463	3,555
Silver or coho.....	38	135	10	174	48	8	6,196	6,609
Fall and pink.....	4	7	2	92	14		4,007	4,126
Steelhead trout.....		22		5			215	242
Unclassified.....	71	24	292	216	8		71	682
Scup (porgies).....	136	869	235	1		5		1,246
Shad and shad roe.....	24	526	11	22		3	79	665
Smelts (including lake smelt).....	143	402	4	989	6	7	176	1,727
Snapper, red.....	1	132	35	122		37	17	344
Swordfish.....	547	169	6	5			701	1,428
Sea trout (weakfish, gray and spotted).....	3	966	306			151		1,428
Whiting.....	27,480	2,975	52	79	414	1,237	14	32,251
Other salt-water fish.....	1,638	3,264	1,499	1,231	37	2,530	5,567	15,566
Total salt-water fish.....	114,843	22,957	7,559	4,984	736	5,115	45,897	202,091
Fresh-water fish:								
Bait and animal food.....			1	129	1,290			1,420
Blue pike and sauger.....		55		725		2		782
Catfish and bullheads.....	31	1	53	101	137	99		422
Cisco (Lake Erie).....	5	199	1	19				224
Chubs.....	53	571		401	3			1,023
Lake herring.....		14		2,726	896			3,636
Tullibee.....		64		166	128			358
Lake trout.....	5	182	18	1,101	119	12		1,437
Pike (including pickerel, jacks, and yellow jack).....		34		1,176	18			1,228
Sturgeon and spoonbill cat.....		291		31	6			328
Suckers.....				62				62
Yellow perch.....		17	10	402	32	43		504
Yellow pike (or wall-eye).....		242		214	5			461
Whitefish.....	6	697	1	591	10	1		1,306
Other fresh-water fish.....	4	399	35	2,190	491	1,494		4,613
Total fresh-water fish.....	104	2,766	119	10,034	3,135	1,651		17,809
Shellfish:								
Scallops.....	1,362	751	26	169	3	13	72	2,396
Shrimp.....	179	2,697	657	1,569	417	12,281	2,004	19,804
Spiny lobster tails.....		452	12	41			2	507
Squid.....	1,217	863	12	1		16	291	2,405
Other shellfish.....	145	406	50	20		104	851	1,576
Total shellfish.....	2,903	5,174	757	1,800	420	12,414	3,220	26,688
Total fish and shellfish.....	117,850	30,897	8,435	16,818	4,291	19,180	49,117	246,588

¹ New England includes the six States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, Arkansas; and Pacific—Washington, Oregon, California, Colorado, and Alaska.

*Production of frozen fishery products, 1941—Continued*By GEOGRAPHICAL SECTIONS AND MONTHS ¹

(Expressed in thousands of pounds; that is, 000 omitted)

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
January	3,623	1,359	105	1,286	336	459	910	8,078
February	3,099	958	305	1,011	57	1,176	998	7,604
March	2,876	597	48	860	13	546	898	5,838
April	5,125	951	139	852	26	464	1,011	8,568
May	7,533	3,173	1,182	1,237	79	1,083	4,623	18,910
June	11,705	3,621	1,027	1,096	321	2,216	5,782	25,698
July	14,814	3,723	1,534	1,121	949	1,274	7,403	30,818
August	21,057	4,284	973	976	157	912	5,849	34,208
September	15,297	2,253	593	680	340	1,636	7,763	28,562
October	12,435	3,200	835	1,274	115	2,412	6,955	27,226
November	12,580	4,262	761	2,174	334	3,899	5,474	29,484
December	7,706	2,516	933	4,251	1,564	3,103	1,521	21,594
Total	117,850	30,897	8,435	16,818	4,291	19,180	49,117	246,588

¹New England includes the six States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; and Pacific—Washington, Oregon, California, Colorado, and Alaska.

HOLDINGS

Monthly holdings of frozen fish and shellfish in 1941 averaged 79,018,000 pounds, an increase of 16 percent as compared with those of the previous year. The holdings during December, which amounted to 117,805,000 pounds, were the largest for any month during the year; while those of April, 35,757,000 pounds, were the smallest. During the last 4 months of the year an average of 110,750,000 pounds of fishery products were in storage, as compared with an average of 94,486,700 pounds for the same period in 1940.

Holdings of frozen fishery products, 1941

BY SPECIES AND MONTHS

Species	Month ending the 15th of—					
	January	February	March	April	May	June
FROZEN FISH AND SHELLFISH	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Salt-water fish:						
Bait and animal food	1,619,236	1,372,111	1,531,475	1,720,304	2,288,503	2,270,089
Bluefish	69,867	39,637	29,004	15,821	85,471	66,086
Butterfish	702,887	560,824	398,242	341,644	277,473	786,628
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	1,133,710	998,719	823,906	680,499	695,164	797,858
Croakers	701,124	490,469	176,877	73,505	802,433	1,355,511
Eels	205,172	211,381	156,599	128,807	150,181	156,415
Fillets:						
Cod	2,620,985	2,020,195	1,340,175	1,201,285	1,741,628	2,156,701
Haddock	5,066,006	4,133,759	2,700,502	2,278,670	3,217,929	4,636,679
Lingcod	16,159	16,983	16,871	2,233	4,653	28,155
Pollock	6,127,560	4,927,413	3,230,537	1,926,343	1,403,499	708,779
Rosefish	1,460,055	866,939	552,005	1,214,620	2,590,688	4,172,646
Flounders	1,143,973	1,069,130	679,277	555,406	522,641	694,000
Halibut	7,607,140	5,697,964	3,547,142	2,429,781	4,944,686	8,398,934
Herring, sea (including river herring)	803,288	635,824	1,162,655	987,644	1,924,400	1,943,893
Mackerel (except Spanish)	6,132,200	4,258,853	2,251,227	876,722	874,043	2,458,639
Mullet	921,923	748,430	206,084	35,276	34,001	45,603
Sablefish (black cod)	2,440,853	2,137,235	1,502,818	1,207,578	817,555	652,271
Salmon:						
King or chinook	2,184,191	1,770,453	1,098,714	794,719	604,584	747,188
Silver or coho	3,794,661	2,723,763	1,180,725	711,767	299,527	192,019
Fall and pink	2,722,265	2,395,247	1,687,652	1,451,660	1,089,906	956,552
Steelhead trout	413,923	360,773	369,322	336,964	245,679	251,579
Unclassified	249,395	224,432	102,211	119,850	141,290	183,916
Scup (porgies)	163,745	154,580	64,085	39,297	94,986	281,547
Shad and shad roe	456,204	483,551	379,096	330,262	601,367	709,285
Smelts (including lake smelt)	1,499,080	1,974,098	2,161,247	1,745,597	2,046,355	1,941,738
Snapper, red	178,824	168,455	98,345	38,835	52,022	109,299
Swordfish	715,492	487,879	254,531	106,043	253,599	249,915
Sea trout (weakfish, gray and spotted)	148,499	107,833	56,565	47,369	171,503	303,601
Whiting	8,662,831	6,273,586	3,198,933	1,207,575	1,206,125	2,415,628
Other salt-water fish	6,808,752	5,994,368	4,352,067	3,622,058	3,864,693	4,800,596
Total salt-water fish	66,770,000	53,304,884	35,308,889	26,228,134	33,046,584	44,469,750
Fresh-water fish:						
Bait and animal food	6,000	6,718	6,043	6,343	7,432	6,880
Blue pike and sauger	607,388	1,218,793	1,834,976	850,750	480,641	261,242
Catfish and bullheads	396,222	300,987	199,654	118,532	183,044	178,068
Cisco (Lake Erie)	227,858	189,863	132,454	80,473	58,784	41,537
Chubs	459,959	604,560	260,185	186,693	169,291	182,313
Lake herring	2,508,537	1,712,424	1,135,413	813,985	724,027	648,840
Tullibee	277,023	304,319	316,776	325,501	312,283	261,722
Lake trout	1,069,940	828,517	577,615	331,587	322,427	287,415
Pike (including pickerel, jacks, and yellow jack)	225,752	243,242	213,481	281,379	277,540	267,466
Sturgeon and spoonbill cat	670,557	642,476	615,034	551,318	427,226	460,503
Suckers	41,476	32,610	21,585	13,580	27,649	25,363
Yellow perch	534,410	500,488	273,373	132,103	161,914	131,297
Yellow pike (or wall-eye)	168,006	246,219	405,063	293,475	278,801	219,345
Whitefish	2,032,791	2,047,923	1,893,954	1,439,529	1,188,789	873,273
Other fresh-water fish	1,658,755	1,318,789	1,517,459	1,198,555	1,465,581	1,606,834
Total fresh-water fish	10,884,674	10,197,928	9,403,065	6,623,803	6,085,429	5,452,098
Shellfish:						
Scallops	1,520,492	1,140,608	651,636	356,280	460,813	651,528
Shrimp	5,807,590	5,186,612	3,182,410	1,479,007	1,395,488	2,543,285
Spiny lobster tails	463,640	353,544	241,738	363,426	231,844	166,706
Squid	646,076	417,269	290,919	111,250	192,962	1,225,045
Other shellfish	787,301	851,706	726,229	594,721	464,652	608,385
Total shellfish	9,225,099	7,954,739	5,092,932	2,904,684	2,745,759	5,194,949
Total fish and shellfish	86,879,773	71,457,551	49,804,886	35,756,621	41,877,772	55,116,797

Holdings of frozen fishery products, 1941—Continued

BY SPECIES AND MONTHS—Continued

Species	Month ending the 15th of—					
	July	August	September	October	November	December
FROZEN FISH AND SHELLFISH						
Salt-water fish:	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Bait and animal food	3,023,214	2,497,089	4,630,011	2,636,036	2,557,843	2,359,378
Bluefish	162,496	210,486	205,474	163,633	155,549	127,607
Butterfish	1,090,127	1,242,703	1,229,640	1,435,169	1,478,675	1,483,993
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	926,680	902,087	919,621	1,118,468	1,153,108	1,325,476
Croakers	2,370,209	4,229,098	4,630,249	4,118,572	3,831,418	3,227,283
Eels	155,698	196,710	195,144	203,604	238,599	410,702
Fillets:						
Cod	2,619,887	2,616,241	2,421,085	2,311,501	3,223,447	3,232,654
Haddock	6,158,654	8,629,794	11,184,103	11,684,000	10,061,209	9,007,340
Lingcod	49,450	35,176	30,221	26,339	31,633	25,481
Pollock	574,412	372,471	235,128	297,436	2,207,867	5,148,436
Rosefish	4,609,502	4,631,377	4,910,995	4,781,200	5,242,923	4,707,499
Flounders	980,793	1,296,203	1,448,162	1,590,166	1,450,756	1,408,122
Halibut	12,598,869	14,156,365	16,054,165	15,449,453	13,278,039	11,154,703
Herring, sea (including river herring)	1,940,477	1,478,327	1,174,491	1,148,255	1,092,147	1,233,098
Mackerel (except Spanish)	2,502,656	4,313,096	4,983,602	6,797,477	8,512,879	7,525,993
Mullet	123,990	502,238	692,595	1,148,107	1,581,861	2,207,483
Sablefish (black cod)	561,988	726,598	788,518	1,498,824	1,911,514	1,929,064
Salmon:						
King or chinook	1,193,176	1,584,395	2,312,351	3,088,236	2,959,327	2,773,906
Silver or coho	501,174	1,980,466	4,307,532	5,281,034	4,642,647	4,186,196
Fall and pink	925,841	980,048	1,221,823	1,456,214	4,388,178	4,096,255
Steelhead trout	101,249	102,328	101,675	101,346	105,245	170,613
Unclassified	271,264	290,536	309,974	294,553	360,083	305,924
Scup (porgies)	624,394	1,103,192	1,184,329	1,083,721	983,842	773,208
Shad and shad roe	695,907	676,182	761,548	721,218	787,124	831,784
Smelts (including lake smelt)	1,880,018	1,875,451	1,788,356	1,629,915	1,448,878	1,254,274
Snapper, red	137,131	150,246	153,147	139,399	157,667	227,717
Swordfish	262,142	733,795	1,174,317	1,075,376	875,325	710,485
Sea trout (weakfish, gray and spotted)	488,973	620,029	875,321	827,189	832,962	636,440
Whiting	7,121,827	13,533,565	14,441,577	13,208,075	12,107,984	10,496,418
Other salt-water fish	6,770,397	7,507,034	7,040,449	7,262,618	8,288,975	8,112,423
Total salt-water fish	61,422,596	79,173,326	90,030,603	92,577,134	95,947,704	91,089,957
Fresh-water fish:						
Bait and animal food	474,646	137,286	82,364	60,387	76,614	917,144
Blue pike and sauger	188,830	85,192	83,207	234,185	480,364	533,994
Catfish and bullheads	192,230	199,123	168,829	169,878	214,541	260,589
Cisco (Lake Erie)	41,736	46,519	50,639	52,408	48,183	119,670
Chubs	264,462	411,799	477,169	590,429	426,626	588,195
Lake herring	653,713	591,880	442,000	366,270	790,909	3,495,006
Tullibee	288,957	337,357	350,293	339,121	337,349	336,612
Lake trout	358,289	398,101	472,763	621,144	814,879	1,288,402
Pike (including pickerel, jacks, and yellow jack)	246,279	220,885	201,959	285,655	339,386	418,875
Sturgeon and spoonbill cat	463,709	446,502	493,145	578,751	565,900	501,589
Suckers	37,754	33,917	29,897	21,197	24,172	13,357
Yellow perch	209,714	320,647	348,119	413,279	510,773	545,234
Yellow pike (or wall-eye)	308,815	216,901	196,858	223,914	235,225	216,396
Whitefish	972,794	1,257,240	1,414,810	1,647,118	1,542,436	1,656,291
Other fresh-water fish	1,755,178	1,902,075	1,987,216	1,825,887	1,893,344	2,144,914
Total fresh-water fish	6,457,106	6,605,424	6,799,268	7,430,623	8,309,701	13,036,268
Shellfish:						
Scallops	903,531	1,278,668	1,502,204	1,570,933	1,483,380	1,443,598
Shrimp	2,750,782	1,482,522	1,800,331	3,854,220	7,277,997	9,721,769
Spiny lobster tails	189,291	441,186	534,398	589,778	543,499	763,437
Squid	1,221,783	1,250,430	1,023,118	930,537	926,033	776,457
Other shellfish	486,430	653,603	501,244	620,391	943,479	973,887
Total shellfish	5,551,817	5,106,409	5,361,295	7,565,859	11,174,388	13,679,148
Total fish and shellfish	73,431,519	90,885,159	102,191,166	107,573,616	115,431,793	117,805,373

*Holdings of frozen fishery products, 1941—Continued*BY GEOGRAPHICAL SECTIONS AND MONTHS¹

(Expressed in thousands of pounds; that is, 000 omitted)

Month ending the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
January.....	25,634	15,535	4,167	15,474	4,358	3,846	17,866	86,880
February.....	19,261	13,178	3,536	14,971	3,785	3,230	13,497	71,458
March.....	12,171	9,641	2,366	11,948	2,772	2,069	8,838	49,805
April.....	8,115	7,477	1,710	8,567	2,033	1,368	6,487	35,757
May.....	9,938	8,698	2,935	7,752	1,744	1,759	9,052	41,878
June.....	15,076	10,535	4,051	7,958	1,872	2,282	13,343	55,117
July.....	20,469	13,607	6,114	9,295	2,951	2,539	18,457	73,432
August.....	28,302	17,311	6,432	10,496	3,784	2,248	22,312	90,885
September.....	30,642	18,164	6,679	12,420	4,412	3,056	26,818	102,191
October.....	30,582	19,872	6,954	13,932	4,334	4,114	27,786	107,574
November.....	31,998	22,978	7,170	15,799	5,076	5,827	26,584	115,432
December.....	30,423	23,383	7,109	20,153	6,599	7,133	23,005	117,805
Average.....	21,885	15,032	4,935	12,397	3,643	3,289	17,837	79,018

¹ New England includes the six States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; and Pacific—Washington, Oregon, California, Colorado, and Alaska.

COLD-STORAGE HOLDINGS OF CURED FISH

During 1941, monthly cold-storage holdings of cured herring averaged 16,218,000 pounds, while those of mild-cured salmon averaged 4,876,000 pounds. This was a decrease of 21 percent in the average holdings of cured herring and 19 percent in average mild-cured salmon stocks as compared with those of the previous year. Stocks of cured herring were largest during June, when they totaled 21,075,556 pounds, while the largest holdings of mild-cured salmon were reported during October, when 8,427,125 pounds were in storage.

Holdings of cured fish, 1941, by species and months

Month ending the 15th of—	Salted			Smoked	Total
	Herring, cured	Salmon, mild-cured	Other		
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
January.....	16,608,612	4,116,389	150,466	274,356	21,149,823
February.....	14,201,040	3,430,484	1,842,605	366,892	19,841,021
March.....	13,541,925	2,775,487	1,291,640	366,744	17,975,796
April.....	16,464,176	2,339,363	2,080,663	426,331	21,310,533
May.....	19,797,793	1,617,185	1,943,952	877,404	24,236,334
June.....	21,075,556	1,887,037	2,067,902	978,108	26,008,603
July.....	19,633,055	4,742,451	1,682,387	1,040,543	27,098,736
August.....	18,547,407	6,726,725	2,343,464	962,345	28,579,941
September.....	17,593,429	7,945,743	2,909,478	884,303	29,332,953
October.....	14,737,849	8,427,125	2,966,585	885,247	27,016,806
November.....	11,978,010	7,573,614	3,147,693	726,257	23,425,574
December.....	10,436,908	6,935,194	1,763,601	697,972	19,833,675

FOREIGN FISHERY TRADE

Foreign trade in fishery products of the United States in 1941 amounted to \$62,988,739, of which \$40,981,039 represents the value of these products imported for consumption and \$22,007,700 the value of exports of domestic fishery products. Compared with the previous year this was an increase of 6 percent in the total trade, and 24 percent in the value of exports. Imports, however, showed a decrease of 2 percent.

Imports consisted of 305,875,419 pounds of edible fishery products, valued at \$28,040,216 and nonedible products valued at \$12,685,963. Fishery exports consisted of 215,990,164 pounds of edible products valued at \$21,479,119 and nonedible products valued at \$528,581.

Import duties levied on fishery products imported during 1941 totaled \$3,888,315, a decline of 19 percent as compared with receipts for the previous year.

Exports of domestic fishery products, 1941¹

Item	Quantity	Value
EDIBLE FISHERY PRODUCTS		
Fish, fresh or frozen:		
Salmon..... pounds..	1,944,914	\$130,476
Other..... do.....	2,438,012	211,486
Total..... do.....	4,382,926	341,962
Fish, salted, pickled, or dry-cured:		
Salmon..... do.....	218,022	51,523
Cod, haddock, hake, pollock, cusk..... do.....	1,441,896	183,748
Other..... do.....	2,366,209	149,266
Total..... do.....	4,026,127	384,537
Fish, canned:		
Salmon..... do.....	48,054,200	6,304,521
Sardines (including pilchards)..... do.....	133,067,944	12,011,315
Other (except shellfish)..... do.....	17,671,607	1,359,860
Total..... do.....	198,793,751	19,675,696
Shellfish, not canned:		
Oysters:		
Fresh, in the shell..... do.....	2,416,952	28,624
Shucked, frozen, or in ice..... do.....	31,368	9,103
Shrimp, fresh, frozen, or in ice..... do.....	252,122	45,452
Shrimp, dried..... do.....	1,078,952	274,870
Total..... do.....	3,779,394	358,049
Shellfish, canned:		
Shrimp..... do.....	670,634	140,810
Other..... do.....	1,094,601	194,087
Total..... do.....	1,765,235	334,897
Other fish and fish products, not elsewhere specified..... do.....	3,242,731	383,978
Total edible products..... do.....	215,990,164	21,479,119
NONEDIBLE FISHERY PRODUCTS		
Marine-animal oils..... do.....	2,600,550	341,224
Fish meal for feed..... tons.....	300	17,784
Furs, fur-seal, dressed or dyed..... number.....	512	19,207
Oyster shells..... tons.....	17,163	150,366
Total nonedible products.....		528,581
Grand total.....		22,007,700

¹ These statistics have been furnished by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

Imports of fishery products entered for consumption, 1941¹

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS		
Fish, fresh or frozen:		
Whole, or beheaded, or eviscerated, or both:		
Fresh water fish:		
Whitefish	13,740,989	\$2,013,730
Yellow pike	8,225,488	871,609
Jacks or grass pike	2,498,273	122,342
Lake trout	3,490,282	557,260
Yellow perch	3,615,242	331,483
Tullibees	1,697,673	118,537
Lake herring and ciscoes	1,191,673	188,572
Chubs	1,819,739	284,682
Mullet (<i>catostomus</i>)	676,608	51,029
Saugers	12,642,045	849,329
Blue pike	1,227,428	136,377
Fresh-water fish, not elsewhere specified	1,206,518	86,196
Eels	740,638	46,160
Salmon	8,052,730	972,052
Cod, haddock, hake, pollock, and cusk:		
Without fins removed	1,321,085	58,467
With fins removed	77,969	6,739
Halibut:		
Fresh	3,111,234	382,256
Frozen	3,127,668	380,437
Mackerel:		
Fresh	112,861	10,219
Frozen	721,191	38,572
Swordfish:		
Fresh	962,924	210,022
Frozen	239,982	39,511
Sturgeon:		
Fresh	151,209	53,240
Frozen	230,647	98,703
Shad	357,876	17,270
Fish not specially provided for	5,756,935	299,803
Whether or not whole:		
Smelts	6,719,977	598,350
Tuna fish	3,316,074	190,755
Sea herring:		
Fresh	64,237,999	663,898
Frozen	3,566,622	108,086
Filleted, skinned, boned, sliced or divided, not specially provided for:		
Cod, haddock, hake, pollock, cusk, and rosefish	9,931,030	963,621
Other	3,720,250	636,988
Total	168,488,859	11,386,295
Fish salted, dried, smoked, pickled or preserved:		
Dried and unsalted, other than cod, haddock, hake, pollock, and cusk but including stockfish	1,373,455	271,853
In oil or in oil and other substances:		
Sardines, valued over 9 cents per pound	² 6,305,207	1,283,134
Anchovies, valued over 9 cents per pound	² 2,104,354	758,076
Tuna fish	3,332,151	653,708
Antipasto, valued over 9 cents per pound	² 64,345	22,674
Other, valued over 9 cents per pound	² 244,041	59,511
Not in oil or in oil and other substances:		
In airtight containers weighing, with contents, not over 15 pounds each:		
Anchovies	836,222	80,780
Salmon	276,791	43,268
Herring, smoked or kippered, or in tomato sauce, in containers weighing, with contents, more than one pound each	² 192,578	31,104
Sardines and other herring	1,313,493	222,174
Fish cakes, balls, and pudding	² 97,338	12,032
Other	486,691	93,611
Pickled or salted:		
Except in oil, etc., and not in airtight containers, weighing, with contents, not over 15 pounds each:		
Salmon	928,848	166,861
Cod, haddock, hake, pollock, and cusk, neither skinned nor boned (except that vertebral column may be removed):		
Containing not more than 43 percent moisture by weight	10,572,378	862,263
Containing more than 43 percent moisture by weight	30,677,445	2,084,889
Cod, haddock, hake, pollock, and cusk, skinned or boned	2,217,808	192,390

See footnotes at end of table.

Imports of fishery products entered for consumption, 1941—Continued

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS—continued		
Fish, salted, dried, smoked, pickled or preserved—continued.		
Pickled or salted—continued.		
Except in oil—continued.		
Herring:		
In containers not airtight, weighing, with contents, not more than 15 pounds each	800	\$45
In bulk or in containers weighing, with contents, more than 15 pounds:		
In containers, containing each not more than 10 pounds of herring	28,803	\$5,971
In containers, containing each more than 10 pounds of herring:		
If known commercially as full herring	9,572,470	372,008
Valued 6 cents or more per pound	3,177,276	282,245
Beheaded or eviscerated, but not further advanced (except fins may be removed)	5,257,143	253,300
If known commercially as split herring	3,544,669	127,037
Other	2,159,584	102,886
Mackerel, in bulk or in containers weighing, with contents, more than 15 pounds each	3,382,720	265,597
Alewives in bulk or in containers weighing, with contents, more than 15 pounds each	21,225	837
Pickled or salted, not specially provided for:		
In bulk, or in containers weighing, with contents, more than 15 pounds each	1,050,372	78,834
In containers not airtight, weighing, with contents, not more than 15 pounds each	78,168	10,822
Smoked or kippered:		
Not in oil, etc., and not in airtight containers, weighing, with contents, 15 pounds or less each:		
Salmon	3,349	1,442
Herring:		
Whole or beheaded:		
Hard, dry-smoked	909,450	40,425
Other	20,336	1,393
Boned, whether or not skinned	402,951	34,583
Eviscerated, split, skinned, or divided (not boned)	1,086,311	113,729
Cod, haddock, hake, pollock, and cusk:		
Whole or beheaded or eviscerated, or both	576,777	66,914
Filletted, skinned, boned, sliced, or divided	2,882,167	346,803
Smoked or kippered, not specially provided for	7,536	1,065
Fish paste and fish sauce	39,856	11,725
Prepared or preserved, not specially provided for:		
In containers weighing, with contents, not more than 15 pounds each, other than cod, haddock, hake, pollock, and cusk	9,456	2,686
In bulk or in containers weighing, with net contents, more than 15 pounds each	153,555	27,479
Total	95,388,419	8,956,155
Caviar and other fish roe:		
Not boiled:		
Sturgeon	13,758	63,711
Fish roe, not specially provided for	2,919	364
Boiled, packed in airtight containers	53,841	5,828
Total	70,518	69,903
Shellfish:		
Crab meat, crab sauce, and crab paste	6,668,861	2,053,054
Oysters, oyster juice, or either in combination with other substances, in airtight containers	220,906	54,471
Razor clams, canned	2,450	277
Clams (except razor clams) and clams in combination with other substances (except clam chowder)	231,451	45,814
Clam chowder, clam juice, and clam juice in combination with other substances	582	50
Lobsters (including spiny lobsters and crawfish):		
Not canned	19,494,049	3,426,164
Canned	1,911,169	831,770
Turtles	900,299	54,145
Crabs, fresh or frozen (not crab meat)	11,437	3,253
Clams, quahogs, not in airtight containers:		
Fresh or frozen	4,250,252	108,431
Prepared or preserved, not specially provided for	635	47
Shrimps and prawns	3,161,832	272,206
Scallops:		
Fresh but not frozen	432,348	97,473
Other	309,097	56,423
Oysters, not in airtight containers:		
Fresh or frozen (except seed oysters)	55,500	6,604
Other	1,283,514	76,272

See footnotes at end of table.

Imports of fishery products entered for consumption, 1941—Continued

Item	Quantity	Value
EDIBLE FISHERY PRODUCTS—Continued		
Shellfish—Continued		
Lobster paste and sauce.....	6,083	\$2,201
Pastes and sauces of shellfish, not specially provided for.....	135,169	13,089
Shellfish, not specially provided for.....	2,851,991	496,119
Total.....	41,927,623	7,597,863
Total edible fishery products.....	305,875,419	28,040,216
NONEDIBLE FISHERY PRODUCTS		
Marine-animal oils:		
Cod oil..... gallons	838,137	463,522
Cod-liver oil..... do	1,695,841	2,945,877
Eulachon oil..... do	2,520	175
Herring oil..... do	653,512	208,324
Shark oil and shark-liver oil, including oil produced from sharks known as dogfish, not specially provided for..... do	367,887	587,374
Seal oil..... do	48,331	14,775
Snd oil..... do	23,338	13,740
Whale oil:		
Sperm:		
Crude..... do	914,523	347,860
Refined, or otherwise processed..... do	7,143	4,333
Whale oil, not specially provided for..... do	55,716	14,966
Fish liver oil, not elsewhere specified..... do	101,467	314,393
Marine-animal and fish oils, not specially provided for..... do	42,641	11,385
Total.....	4,751,056	4,926,724
Pearls and imitation pearls:		
Pearls and parts, not strung or set:		
Natural.....		387,053
Cultured or cultivated.....		469,676
Imitation pearls, half pearls and hollow or filled.....		30,301
Imitation pearl beads:		
Hollow or filled.....		203,231
Solid, except iridescent:		
Valued at not more than ¼ cent per inch..... inches	205,046,273	246,116
Valued at more than ¼ cent and not more than 1 cent per inch..... do	1,099,145	4,158
Total.....		1,340,535
Shells and buttons of pearl or shell:		
Shells, unmanufactured:		
Green snail shell, unmanufactured..... pounds	243,570	37,743
Mother-of-pearl..... do	11,463,612	1,725,921
Tortoise shell, not sawed, cut, flaked, polished, or otherwise manufactured or advanced in value from natural state..... do	906	1,754
Shells, not specially provided for..... do	6,439,678	97,343
Shells and mother-of-pearl, engraved, cut, ornamented, or manufactured:		
Pearl or shell buttons:		
Fresh-water..... gross	92,839	25,913
Ocean..... do	232,152	71,021
Buttons (from Philippine Islands)..... do	769,866	274,301
Total.....		2,341,770
Sponges:		
Sheepswool..... pounds	98,645	408,105
Yellow and grass..... do	59,521	41,516
Velvet..... do	6,177	6,572
Hardhead or reef..... do	3,938	5,672
Other..... do	53,836	56,242
Total.....	222,117	518,107
Agar-agar..... do	597,472	580,643
Ambergris..... do	448	28,598
Cod-liver-oil cake and cod-liver-oil cake meal..... do	486,074	8,711
Cuttlefish bone..... do	91,995	14,499
Goldfish..... number	107,860	762
Aquarium fish, not elsewhere specified.....		2,299
Fish for other than human consumption.....		26,654
Fish sounds..... pounds	88,972	23,096
Fish scrap and fish meal, not fertilizer..... tons	31,298	1,646,429
Fish scrap and fish meal, fertilizer..... do	1,483	61,732

See footnotes at end of table.

Imports of fishery products entered for consumption, 1941—Continued

Item	Quantity	Value
NONEDIBLE FISHERY PRODUCTS—continued		
Isinglass	pounds 19,372	\$10,702
Kelp	do 2,497,800	3,438
Fish skins, raw or salted:		
Shark skins	do 264,641	38,431
Other	do 1,909,830	50,792
Seal skins, raw (not fur skins)	do 616,494	71,374
Spermaceti wax	do 93,060	21,888
Whalebone, manufactures of		2,098
Fish livers	pounds 4,943,666	1,221,841
Total		3,813,687
Total, nonedible fishery products		12,940,823
Grand total		40,981,039

¹ These statistics have been furnished by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

² Including weight of immediate container.

³ Net weight.

FISHERIES OF THE NEW ENGLAND STATES AREA XXII²

The most recent complete fishery statistics for the New England States (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) are those collected for the year 1940. (Statistical Digest No. 4, "Fishery Statistics of the United States, 1940.") In that year the yield of the commercial fisheries amounted to 626,054,100 pounds, valued at \$20,493,733 to the fishermen, representing a decrease of 6 percent in volume but an increase of 5 percent in value as compared with the catch in 1939. A summary of these fisheries for 1940 as well as statistics of the vessel fisheries at the principal New England ports for 1941 appear in the following tables.

² This number was given the area by the North American Council on Fishery Investigations. It should be explained that there are included in the records for this area statistics for craft of which the principal fishing ports are in the area but which at times fish elsewhere. Notable examples are the groundfish fishery in Area XXI and the mackerel and southern trawl fisheries in Area XXIII. It should be observed that data on persons engaged, gear, and craft employed, and catch of the seed-oyster fishery are not included in the statistics of the fishery for market oysters and other species, but are included in a footnote to the table showing the catch of the New England States. A description of the methods of collecting and compiling these statistics are given in the section entitled, "Statistical Survey Procedure," in the latter part of this document.

Fisheries of the New England States, 1940

SUMMARY OF CATCH

Product	Maine		New Hampshire		Massachusetts	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	72,911,100	\$926,834	149,000	\$9,682	486,643,200	\$12,646,202
Shellfish, etc.	15,177,100	1,679,582	639,000	95,522	24,294,400	3,109,555
Total	88,088,200	2,606,416	788,000	105,204	510,937,600	15,755,757

Product	Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	6,701,300	\$227,451	9,687,900	\$386,308	576,092,500	\$14,196,477
Shellfish, etc.	5,358,800	738,701	4,492,300	673,896	49,961,600	6,297,256
Total	12,060,100	966,152	14,180,200	1,060,204	626,054,100	20,493,733

Fisheries of the New England States, 1940—Continued

OPERATING UNITS: BY STATES

Item	Maine	New Hampshire	Massachusetts	Rhode Island	Connecticut	Total
	Number	Number	Number	Number	Number	Number
Fishermen:						
On vessels.....	382		4,090	202	300	4,974
On boats and shore:						
Regular.....	2,935	118	3,673	293	375	7,394
Casual.....	2,679	160	2,579	495	265	6,178
Total.....	5,996	278	10,342	90	940	18,546
Vessels:						
Steam.....			6	2	3	11
Net tonnage.....			928	20	384	1,332
Motor.....	194		401	55	71	631
Net tonnage.....	1,074		16,294	633	1,350	19,351
Total vessels.....	104		407	57	74	642
Total net tonnage.....	1,074		17,222	653	1,734	20,683
Boats:						
Motor.....	2,111	49	1,789	267	221	4,437
Other.....	1,759	60	1,495	385	315	4,014
Accessory boats.....	116		519	44	7	686
Apparatus:						
Purse seines:						
Mackerel.....	18		40			58
Length, yards.....	6,180		19,623			25,803
Other.....	11					11
Length, yards.....	5,450					5,450
Haul seines, common.....	25		8	12	64	109
Length, yards.....	2,460		3,029	2,270	8,765	16,524
Stop seines.....	60					60
Length, yards.....	56,710					56,710
Gill nets:						
Anchor.....	418		948		4	1,370
Square yards.....	136,219		324,540		2,985	463,744
Drift.....	294		3,042		61	3,397
Square yards.....	68,880		858,550		133,235	1,000,665
Stake.....	95				5	100
Square yards.....	7,098				510	7,608
Lines:						
Hand.....	3,198	500	451	166	37	4,352
Hooks.....	3,395	500	698	202	42	4,837
Trawl.....	14,115	120	23,437	44		37,716
Hooks.....	711,530	6,000	1,289,941	19,750		2,027,221
Troll.....			83	87		170
Hooks.....			83	87		170
Pound nets.....			129	22	13	164
Floating traps.....	18		45	22		85
Weirs.....	239	12	2			253
Fyke nets.....	10		10	8	55	83
Dip nets.....	64		367	9	94	534
Bag nets.....	75	27				102
Push nets.....			15			15
Otter trawls, fish.....	52		345	35	61	493
Yards at mouth.....	1,373		10,268	804	1,575	14,020
Box traps.....	13					13
Pots:						
Crab.....	300		5,425	730		6,455
Eel.....	133		665	355	954	2,107
Lobster.....	222,477	4,400	63,915	20,074	18,122	328,988
Periwinkle and cockle.....			64	477		541
Harpoons.....	40		171	42	6	259
Spears.....			80	12	1	93
Dredges:						
Clam.....	26		72	19	5	122
Yards at mouth.....	25		49	24	7	105
Oyster.....			21	24	95	140
Yards at mouth.....			21	52	132	205
Scallop.....	125		2,159	593		2,877
Yards at mouth.....	133		1,926	474		2,533
Tongs:						
Oyster.....			73	8	24	105
Other.....			383	273		656
Rakes:						
Oyster.....				19		19
Other.....			1,183	71	50	1,304
Forks.....			77	1		78
Hoes.....	2,002	98	2,274	38	43	4,455

Fisheries of the New England States, 1940—Continued

CATCH: BY STATES

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH												
Alewives.....	2,260,300	\$14,825			879,000	\$3,784	20,200	\$186	33,900	\$346	3,193,400	\$19,141
Anchovies.....					7,800	121	4,500	45			12,300	166
Bluefish.....					26,000	3,942	15,100	531			41,100	4,473
Bonito.....					26,500	906	97,800	4,588			124,300	5,494
Butterfish.....	68,100	1,675			1,822,800	69,524	486,200	18,359	98,600	5,136	2,475,700	94,694
Carp.....									36,200	2,297	36,200	2,297
Cod.....	3,188,300	71,477	20,000	\$600	78,559,300	2,405,333	464,700	20,998	56,600	4,337	82,288,900	2,502,745
Crevalle.....							200	3			200	3
Croaker.....					813,300	19,713					813,300	19,713
Cunner.....					53,300	1,482	6,400	122	2,200	96	61,900	1,700
Cusk.....	1,566,700	40,184	15,000	350	6,384,500	613,902			300	9	7,966,500	204,445
Eels:												
Common.....	76,800	4,551			105,100	11,053	57,300	5,226	34,700	3,620	273,900	24,480
Conger.....					101,500	1,037	3,800	106			105,300	1,143
Flounders:												
Gray sole.....	595,500	19,464			6,119,400	260,025					6,714,900	279,489
Lemon sole.....	23,500	567			2,727,400	217,406			17,500	1,020	2,768,400	218,993
Yellowtail and dab.....	814,300	12,504			27,770,400	571,792	1,032,400	26,660	3,973,100	117,274	33,590,200	728,230
Blackback.....	142,800	4,706			6,155,900	278,922	444,100	14,672	3,950,100	169,934	10,692,900	468,234
Fluke.....					2,847,400	173,113	258,300	25,013	148,700	16,276	3,254,400	214,402
Unclassified.....	142,400	3,864			408,100	14,704	300	30			550,800	18,598
Goosefish.....					12,500	132			8,800	286	21,300	418
Grayfish.....					574,200	19,413	1,300	13			575,500	19,426
Haddock.....	2,584,900	89,188	20,000	800	138,576,800	4,510,160			12,000	365	141,913,700	4,600,513
Hake.....	6,413,500	81,862	6,000	12	7,980,200	213,239	1,600	24	10,200	414	14,321,500	295,551
Halibut.....	34,500	4,855			1,094,500	142,531					1,129,000	147,386
Herring, sea.....	38,016,800	351,828			5,898,900	54,871	134,900	1,368	1,100	53	44,051,700	408,120
Hickory, shad.....							24,500	395	1,300	41	25,800	436
John Dory.....					900	19					900	19
King whiting or "kingfish".....					800	35	6,800	161	700	50	8,300	246
Lamprey.....									500	15	500	15
Launce.....					162,400	7,305					162,400	7,305
Mackerel.....	1,850,400	24,685			33,482,300	762,173	640,900	15,571	16,000	905	35,969,600	767,334
Menhaden.....					37,400	247	29,400	219	21,200	143	88,000	609
Minnnows.....									76,700	11,028	76,700	11,028
Pollock.....	3,299,600	47,773			33,954,100	640,542	63,200	1,933	16,800	807	37,333,500	691,055
Rosefish.....	7,035,500	85,087			78,106,200	1,136,216					85,141,700	1,271,303
Salmon.....	2,000	593			100	25					2,100	618
Scup or porgy.....					8,958,300	221,882	1,398,700	22,521	485,700	19,753	10,842,700	264,156
Sea bass.....	100	7			3,176,900	134,475	104,700	9,476	20,700	992	3,302,400	144,950
Sea robin.....					20,200	203	115,200	1,140	6,800	239	142,200	1,582
Shad.....	64,700	702			94,700	1,461	54,300	2,003	359,600	18,048	573,300	22,214
Sharks.....	14,100	176			198,200	3,921	10,000	151	4,100	127	226,400	4,375

Skates.....					115,700	\$1,706	40,800	\$207	19,800	\$418	176,300	\$2,331
Skipper or billfish.....					200	9					200	9
Smelt.....	455,500	\$34,373	88,000	\$7,920	17,800	3,284			1,000	40	562,300	45,617
Squeteague or "sea trout," gray.....					108,000	7,625	37,200	2,615	8,500	918	153,700	11,158
Striped bass.....					75,700	10,401	64,000	7,096	7,700	1,384	147,400	18,881
Sturgeon.....	300	23			6,600	501	800	90			7,700	614
Suckers.....	13,200	395							65,300	2,767	78,500	3,162
Swordfish.....	28,400	4,408			1,114,200	191,117	184,600	32,228	10,100	2,335	1,337,300	230,088
Tautog.....					44,800	2,081	102,500	4,147	9,500	632	156,800	6,860
Thimble-eyed mackerel.....							62,700	906			62,700	906
Tilefish.....					8,500	323					8,500	323
Tomcod.....	13,900	383			6,500	65					20,400	448
Tuna.....	122,600	3,035			977,900	35,053	19,800	1,117	600	24	1,120,900	39,229
White perch.....							4,100	176			4,100	176
Whiting.....	4,035,600	23,157			35,953,800	301,164	708,000	7,355	171,500	4,179	40,868,900	335,855
Wolfish.....	46,800	487			1,186,200	33,234					1,233,000	33,721
Total.....	72,911,100	926,834	149,000	9,682	486,643,200	12,646,202	6,701,300	227,451	9,687,900	386,308	576,092,500	14,196,477
SHELLFISH, ETC.												
Crabs:												
Hard ¹	690,200	12,906			1,602,200	37,067	118,200	3,663	4,300	290	2,414,900	53,926
Soft and peelers.....							500	150			500	150
Rock.....									4,000	200	4,000	200
Lobsters.....	7,643,000	1,291,228	235,800	44,802	2,438,500	467,177	372,600	86,494	475,400	110,865	11,165,300	2,000,566
Shrimp.....	6,700	303			2,700	170					9,400	473
Clams:												
Hard, public ²	5,000	425			2,411,100	336,251	1,537,000	197,308	59,000	9,734	4,012,100	543,718
Hard, private ²							441,000	40,003			441,000	40,003
Razor.....					342,400	11,085					342,400	11,085
Soft, public ³	6,278,500	266,571	403,200	50,720	8,412,100	811,563	75,000	6,105	28,200	4,580	15,197,000	1,139,539
Soft, private ³					186,000	20,575					186,000	20,575
Conchs.....	1,800	180			14,200	1,400	408,500	6,536			424,500	8,116
Mussels, sea.....					13,900	247	1,000	75	2,600	400	17,500	722
Oysters, market: ⁴												
Public, spring.....							34,300	5,473	66,300	9,123	100,600	14,596
Public, fall.....					10,700	2,271	35,000	5,583	57,100	7,168	102,300	15,022
Private, spring.....					90,900	41,630	982,200	194,654	3,182,300	412,902	4,255,400	649,186
Private, fall.....					282,000	126,263	698,100	136,596	551,300	109,561	1,531,400	372,420
Periwinkles and cockles.....	9,700	941			7,500	992	51,700	2,882	19,100	865	88,000	5,680
Scallops: ⁵												
Bay.....					870,300	327,770	222,500	46,801	38,600	7,805	1,131,400	382,376
Sea.....	199,100	34,302			5,191,700	765,543	100	5			5,390,900	799,850
Squid.....					1,367,100	15,030	381,000	6,372	3,600	\$201	1,751,700	21,603
Turtles, loggerhead.....							100	1			100	1
Sea urchins.....	102,500	785									102,500	785
Sea weeds:												
Irish moss.....					596,200	59,182					596,200	59,182
Other.....					137,000	685					137,000	685

Fisheries of the New England States, 1940—Continued

CATCH: BY STATES—Continued

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued												
Bloodworms and sandworms...	240,600	\$71,941	.....	.....	317,900	\$84,654	.....	.....	500	\$202	559,000	\$156,797
Total.....	15,177,100	1,679,582	639,000	\$95,522	24,294,400	3,109,555	5,358,800	\$738,701	4,492,300	673,896	49,961,600	6,297,256
Grand total.....	88,088,200	2,606,416	788,000	105,204	510,937,600	15,755,757	12,060,100	966,152	14,180,200	1,060,204	626,054,100	20,493,733

¹ Statistics on hard crabs used in this table are based on weights of 4 pounds per dozen in Maine and Rhode Island; 3 pounds in Massachusetts; and 4.3 pounds in Connecticut.

² Statistics on hard clams are based on yields of 11 pounds of meats per standard bushel in Maine; 11.23 pounds in Massachusetts; 12.43 pounds in Rhode Island; and 12 pounds in Connecticut.

³ Statistics on soft clams are based on yields of 15 pounds of meats per standard bushel in Maine and New Hampshire; 14.32 in Massachusetts; and 20 pounds in Rhode Island and Connecticut.

⁴ Statistics on oysters are based on yields of 6.5 pounds of meats per standard bushel in Massachusetts; 7 pounds in Rhode Island; and 7.7 pounds in Connecticut.

⁵ Statistics on both bay and sea scallops used in this table are based on yields of 6 pounds per bushel, except in the State of Connecticut where the yield of bay scallops was 6.2 pounds per bushel.

NOTE.—Data on the yield of shellfish meats per bushel are based on U. S. Standard Bushels of 2,150.4 cubic inches capacity. Included in the catch of Massachusetts are 13,071,800 pounds of fishery products, valued at \$393,860 which were taken in the southern winter trawl fishery off southern New Jersey, Maryland, Virginia, and North Carolina. These products consisted principally of butterfish, croakers, flounders, scup (porgies), sea bass, and whiting. The seed oyster fishery in the New England States was confined to the State of Connecticut where 238 fishermen, using 4 steam vessels, 21 motor vessels, 12 sail vessels, 11 motor boats, 35 other boats, 42 tongs, and 130 dredges took 41,261 bushels of seed oysters, valued at \$28,037, from public beds, and 344,464 bushels, valued at \$337,814, from private beds. Of the total number of persons fishing for seed oysters, 90 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear were duplicated: 1 steam vessel, 13 motor vessels, 7 other boats, 7 tongs, and 41 dredges.

Industries related to the fisheries of the New England States

OPERATING UNITS, SALARIES, AND WAGES, 1940

Item	Maine and New Hampshire	Massachusetts	Rhode Island	Connecticut	Total
Transporting:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Persons engaged, on vessels.....	138	24	7	17	186
Vessels, motor.....	69	6	2	7	84
Net tonnage.....	784	192	15	198	1,189
Wholesale and manufacturing:					
Establishments.....	147	197	25	29	398
Persons engaged:					
Proprietors.....	263	133	20	23	439
Salaried employees.....	159	695	31	28	913
Wage earners:					
Average for season.....	6,489	4,193	218	398	11,298
Average for year.....	2,017	3,094	133	200	5,444
Paid to salaried employees.....	\$305,945	\$1,729,543	\$61,565	\$86,951	\$2,184,004
Paid to wage earners.....	\$1,302,032	\$3,801,343	\$128,283	\$131,733	\$5,363,391
Total salaries and wages.....	\$1,607,977	\$5,530,886	\$189,848	\$218,684	\$7,547,395
Fishermen manufacturing.....	775	1,904	238	32	2,949

PRODUCTS MANUFACTURED

Item	Maine ¹		Massachusetts		Rhode Island		Connecticut	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:								
Alewives, salted... pounds...	839,400	\$13,539	(²)	(²)			(²)	(²)
Butterfish, smoked... do.....			1,500	\$163				
Cod:								
Fresh fillets ³ ... do.....	31,000	3,900	7,266,802	1,089,529				
Fresh sticks ³ ... do.....	253,000	30,260						
Frozen fillets ³ ... do.....	(²)	(²)	7,122,215	964,232				
Salted:								
Green ⁴ ... do.....	374,802	15,685						
Dry... do.....	12,615	595	(²)	(²)				
Boneless and absolutely boneless pounds.....	(²)	(²)	6,861,715	1,006,386				
Smoked fillets... do.....	33,480	4,372	418,100	46,484				
Oil:								
Cod ⁵ ... gallons.....	4,516	2,998						
Cod-liver ⁵ ... do.....	23,887	29,151	301,011	451,810				
Cusk:								
Fresh fillets ³ ... pounds...	57,000	7,960	802,719	116,674				
Fresh sticks ³ ... do.....	533,000	70,600						
Frozen fillets ³ ... do.....			310,590	37,375				
Smoked fillets... do.....	(²)	(²)	393,859	31,263				
Flounders:								
Fresh fillets ³ ... do.....	(²)	(²)	5,852,567	919,864				
Frozen fillets ³ ... do.....	(²)	(²)	3,392,126	549,355				
Smoked... do.....			1,800	290				
Haddock:								
Fresh fillets ³ ... do.....	93,000	14,810	16,084,429	2,419,362				
Fresh sticks ³ ... do.....	171,000	26,960						
Frozen fillets ³ ... do.....	251,364	30,342	27,379,707	3,790,381				
Salted, dry... do.....	12,615	595	(²)	(²)				
Smoked:								
Finnan haddie do.....	52,400	5,963	371,811	40,014	(²)	(²)		
Fillets... do.....			122,925	18,233				
Hake:								
Fresh fillets ³ ... do.....	142,000	17,030	580,334	74,900				
Fresh sticks ³ ... do.....	580,484	68,558						
Frozen fillets ³ ... do.....	(²)	(²)	145,180	15,157				
Smoked fillets... do.....	39,400	1,227						
Salted, green ⁴ ... do.....	902,015	30,271						
Herring, sea:								
Canned "sardines" ³ standard cases... ⁵	3,131,076	\$12,474,991						
Salted:								
Brine salted... pounds...	385,200	11,714	(²)	(²)				
Pickled in vinegar pounds.....	1,245,425	45,549	(²)	(²)				

See footnotes at end of table.

Industries related to the fisheries of the New England States—Continued

PRODUCTS MANUFACTURED—Continued

Item	Maine ¹		Massachusetts		Rhode Island		Connecticut	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments—continued								
Herring, sea—continued								
Smoked:								
Bloaters:								
Hard pounds..	93,942	\$4,703	(?)	(?)				
Soft do.	8,066	403						
Boneless do.	2,018,330	210,540						
Lengthwise do.	68,517	3,862						
Medium scale do.	169,199	9,596	(?)	(?)				
Meal ⁵ tons.	756	29,275						
Oil ⁵ gallons.	146,862	65,778						
Mackerel:								
Fresh fillets ³ pounds.			230,787	\$38,176				
Frozen fillets ³ do.			1,006,189	132,620				
Salted:								
Dry, fillets. do.			1,660,000	108,300				
Split do.			498,100	27,369				
Canned ³ standard cases.	31,900	190,736	(?)	(?)				
Pollock:								
Fresh fillets ³ pounds.	86,000	8,200	1,732,866	192,388				
Frozen fillets ³ do.	159,155	11,503	11,839,515	1,133,159				
Salted, green ⁴ do.	184,772	5,665						
Rosefish								
Fresh fillets ³ do.	(?)	(?)	447,896	67,398				
Frozen fillets ³ do.	3,866,185	309,171	37,400,327	4,422,383				
Salmon, smoked do.			900	338			(?)	(?)
Shad, smoked do.			400	94				
Tuna, liver-oil ⁵ gallons.			2,303	117,590				
Whitefish, smoked pounds.			45,000	18,131				
Whiting:								
Fresh fillets ³ do.			96,613	9,990				
Frozen fillets ³ do.			5,451,784	329,104				
Fresh, split, "butter-fly" ³ pounds.			140,550	8,666				
Frozen, split, "butter-fly" ³ pounds.			2,400,200	243,819				
Frozen, pan-dressed ³ pounds.	(?)	(?)	13,505,274	604,139				
Fresh, pan-dressed ³ do.			24,630	740				
Wolfish:								
Fresh fillets ³ do.			21,193	3,544				
Frozen fillets ³ do.			99,278	16,101				
Crab meat:								
Canned ³ standard cases.	3,858	85,348						
Packaged, fresh								
cooked pounds.	52,172	25,915	243,222	81,846	(?)	(?)		
Lobster meat, packaged, fresh-cooked do.	16,300	19,300	261,200	295,882				
Clams, hard, fresh								
shucked gallons.	(?)	(?)	(?)	(?)	2,400	\$3,413		
Clams, soft:								
Fresh-shucked do.	29,100	29,420	369,142	573,014	4,500	8,680		
Canned:								
Whole ³ do.								
standard cases.	97,412	403,518						
Juice, and cocktail ³ do.	17,688	42,197						
Chowder ³ do.	124,931	423,708	9,738	30,906				
Oysters, fresh-shucked gallons.					123,777	305,345	(?)	(?)
Unclassified products:								
Fillets, fresh and								
frozen ³ pounds.	62,616,287	6309,987	(?)	(?)				
Steaks, fresh and								
frozen ³ do.			8321,575	859,441				
Salted do.	9179,346	919,967	103,969,070	10295,430				
Smoked do.	1195,740	113,134	12495,721	1246,308	(?)	(?)	(?)	(?)
Canned:								
Fish cakes, balls, etc. ³ standard cases	35,011	191,405	(15)	(15)				
Cat and dog food ³ do.			161,605	387,218				
Miscellaneous do.	1435,986	14327,157	15202,117	51,514,714	(?)	(?)		
Meal ³ tons.	162,304	1697,980	1717,948	17983,839				
Oil ³ gallons.			18249,670	181,532,602				
Glue ³ do.			355,005	698,012				
Miscellaneous ¹⁹ do.		20547,475		2190,048		22184,894		239348,307
Total		16,293,013		25,614,781		502,332		348,307

See footnotes at end of table.

Industries related to the fisheries of the New England States—Continued

PRODUCTS MANUFACTURED—Continued

Item	Maine ¹		Massachusetts		Rhode Island		Connecticut	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By fishermen:								
Alewives, smoked pounds	114,600	\$5,950	6,600	\$520	925	\$23		
Pollock, green salted ² do	4,100	110						
Crab meat, packaged fresh-cooked pounds	2,000	700	1,000	300				
Lobster meat, packaged fresh-cooked pounds			2,250	2,512				
Clams, hard, fresh-shucked gallons	31,346	27,928			1,000	1,850		
Clams, razor, fresh-shucked do			29,450	11,952				
Clams, soft:								
Pickled gallons	75	150						
Fresh-shucked do			6,777	9,166				
Steamed meats pounds	117,074	11,603						
Oysters, fresh-shucked gallons			1,200	2,640			900	\$1,800
Scallops:								
Bay, fresh-shucked do			93,517	341,758	27,249	69,283	3,725	5,215
Sea, fresh-shucked do	22,753	34,302	651,588	829,053				
Total		80,743		1,197,901		71,156		7,015
Grand total		16,373,756		26,812,682		573,488		355,322

¹ A small quantity of manufactured products which were produced in New Hampshire have been included with those of Maine.

² This item has been included under "Unclassified Products."

³ Data are for 1941.

⁴ This item is usually an intermediate product, and although included in the total, may be shown in the final stage of processing in this or another State.

⁵ Includes a small quantity produced in New Hampshire.

⁶ Includes fresh fillets of flounder and rosefish; frozen fillets of cod, flounder, and hake; fresh sticks of pollock; frozen sticks of cusk and hake; and frozen pan-dressed whiting.

⁷ This item has been included under "Miscellaneous."

⁸ Includes fresh steaks of halibut, and frozen steaks of cod, cusk, halibut, pollock, salmon, swordfish, tuna, and wolfish.

⁹ Includes salted boneless and absolutely boneless cod and hake; dry-salted cusk, hake, and pollock; and green-salted cusk and haddock.

¹⁰ Includes salted alewives, cusk, haddock, hake, and pollock; dry-salted cod, haddock, hake, and pollock; salted boneless and absolutely boneless cusk, haddock, and hake; brine-salted herring, mackerel, and mackerel fillets; groundfish tongues and sounds, and herring pickled in vinegar.

¹¹ Includes smoked alewives, cod, cusk, herring, pollock, boneless cod, and cusk fillets.

¹² Includes smoked alewife, mackerel, and salmon fillets, haddock, halibut, and sea herring (hard bloaters and medium scaled); and kippered herring.

¹³ This item has been included under "Miscellaneous canned."

¹⁴ Includes canned finnan haddie, sea herring, soft clam products, shrimp salad, fish chowder, fish flakes, fish paste, kippered herring, and a small quantity of kippered sardines produced in New Hampshire.

¹⁵ Includes canned cod, mackerel, and tuna; cod, salmon, and shrimp salads; haddock and hard-clam chowders; haddock flakes, shellfish newberg; fish cakes, and balls; fish flakes; rat poison bait; salt mackerel; kippered herring; and deep sea roe.

¹⁶ Includes clam, groundfish and miscellaneous meals; and herring dry scrap.

¹⁷ Includes rosefish, groundfish, and miscellaneous meals; and miscellaneous dry scrap.

¹⁸ Includes halibut, shark, swordfish and mixed liver oils; and rosefish and blackfish oils.

¹⁹ Both 1940 and 1941 data have been included in this item.

²⁰ Includes herring pomace, marine-shell buttons, kelp (sea weed) products, and pearl essence, and the New Hampshire production of fresh-shucked hard clams.

²¹ Includes fresh fillets of red snapper and striped bass; fresh pan-dressed butterfish and flounders; frozen pan-dressed flounders; fresh-shucked bay scallops and hard clams; marine-shell buttons and novelties; and isinglass.

²² Includes fresh-cooked and packaged hard crab meat; smoked haddock finnan haddie; canned hard clam chowder; marine-shell novelties; and oyster-shell poultry feed.

²³ Includes fresh-shucked oysters; smoked butterfish, carp, chub, cisco, eel (common), salmon, and spoonbill cat; and oyster-shell poultry feed.

NOTE.—Unless otherwise indicated data are for 1940. The total value of manufactured products for the New England States was as follows: By manufacturing establishments, \$42,758,433; and by fishermen, \$1,356,815. Some of the above products may have been manufactured from products imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products 2,937 have also been included as fishermen and 5 of the persons shown on transporting craft have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VESSEL FISHERIES AT CERTAIN NEW ENGLAND PORTS

Because of the importance of the ports of Boston and Gloucester, Mass., and Portland, Maine, as landing points for fishery products, detailed monthly statistics have been collected on these landings and are presented in the following section.

ECONOMIC ASPECT

The landings of fishery products at certain New England ports (Boston, Gloucester, and Portland) by vessels of 5 net tons capacity or more during 1941 amounted to 473,496,428 pounds as landed, valued at \$15,351,211 to the fishermen. This was an increase of 27 percent in volume and 43 percent in value as compared with those for 1940. Of the total landings, more than 99 percent consisted of fresh fish, and less than 1 percent salted fish. The landings at Boston accounted for 299,370,320 pounds, valued at \$11,518,618, or 63 percent of the total volume; the landings at Gloucester amounted to 148,451,060 pounds, valued at \$3,290,624, or 31 percent of the total; and those at Portland 25,675,048 pounds, valued at \$541,969, or 6 percent of the total.

Among the landings of fresh fish, haddock and rosefish far out-ranked other species in volume. Landings of all sizes of haddock in 1941 amounted to 147,229,347 pounds or 31 percent of the total landings of all fresh fish, while those of rosefish amounted to 139,352,785 pounds, or 29 percent of the total.

Landings by fishing vessels at certain New England ports, 1941

SUMMARY: BY PORTS

Species	Boston		Gloucester		Portland		Total, 1941		Total, 1940	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:										
Large.....	27,601,930	\$1,073,925	4,098,154	\$143,456	1,427,458	\$46,316	33,127,542	\$1,263,697	28,966,004	\$1,092,707
Market.....	33,749,805	1,157,117	2,174,197	64,669	819,092	26,072	36,743,094	1,247,858	28,773,457	918,797
Scrod.....	4,991,635	152,080	113,290	2,700	14,680	208	5,119,605	154,988	3,599,626	92,895
Cod, salted:										
Large.....	38,050	1,848	5,400	162			43,450	2,010	45,305	1,745
Market.....			600	12			600	12	27,030	1,060
Haddock, fresh:										
Large.....	80,049,844	3,568,502	2,512,948	97,063	2,506,538	84,888	85,069,330	3,750,453	81,076,664	3,215,202
Scrod.....	59,003,681	2,237,224	2,392,914	73,752	763,422	22,526	62,160,017	2,333,502	39,380,439	1,257,034
Hake, fresh:										
Large.....	3,314,123	149,550	471,990	14,770	53,615	1,505	3,839,728	165,825	4,192,457	146,051
Small.....	212,372	6,985	442,017	10,069	668,550	22,267	1,322,939	39,921	1,813,514	50,174
Pollock, fresh.....	18,453,298	556,662	14,013,278	377,566	1,113,319	21,787	33,579,895	956,015	32,039,694	677,199
Cusk, fresh.....	3,506,283	120,939	409,920	9,389	458,085	17,357	4,374,288	147,685	6,014,102	176,632
Halibut, fresh.....	692,149	111,245	5,695	884	13,353	2,010	711,197	114,139	956,166	141,821
Mackerel, fresh.....	15,436,084	471,837	9,277,560	172,679	182,727	3,738	24,896,371	648,254	20,725,984	415,649
Flounders, fresh:										
Gray sole.....	2,329,100	125,266	1,864,034	78,371	238,275	8,388	4,431,418	212,025	6,024,164	255,267
Lemon sole.....	2,353,551	173,735	11,080	539	18,040	366	2,382,671	174,640	2,105,481	147,185
Yellowtail.....	3,132,879	82,330	2,057,845	40,113	4,520	73	5,195,244	122,516	6,982,603	128,854
Blackback.....	1,214,218	50,795	58,580	2,135	2,465	49	1,275,263	52,979	1,298,445	52,715
Dab.....	2,776,785	92,337	666,463	12,668	234,953	3,594	3,678,201	108,599	3,486,511	82,874
Other.....	4,879	206	31,310	1,159	4,285	87	40,974	1,452	363,685	9,805
Swordfish, fresh.....	473,376	138,417	1,159	414			474,535	138,831	791,837	170,263
Rosefish, fresh.....	24,783,266	572,527	99,877,053	2,007,991	14,692,466	250,408	139,352,755	2,830,928	83,781,222	1,256,542
Tuna, fresh.....	504	45	143,355	8,622	1,108	34	144,967	8,701	249,884	12,438
Whiting, fresh.....	12,498,082	287,943	7,618,613	152,853	2,243,716	27,453	22,360,411	468,249	16,736,487	206,234
Wolfish, fresh.....	944,060	37,803	76,190	2,083	26,638	295	1,046,888	40,181	890,386	30,496
Scallops (meats).....	1,627,372	330,491	63,037	12,550	27	5	1,590,436	343,046	1,257,410	205,832
Other, fresh ¹	282,985	18,809	63,878	3,355	187,716	2,543	1,534,579	124,707	854,064	19,721
Total, fresh.....	299,332,270	11,516,770	148,445,060	3,290,450	25,675,048	541,969	473,452,378	15,349,189	372,360,086	10,762,387
Total, salted.....	38,050	1,848	6,000	174			44,050	2,022	72,335	2,805
Grand total.....	299,370,320	11,518,618	148,451,060	3,290,624	25,675,048	541,969	473,496,428	15,351,211	372,432,421	10,765,192
Landed in 1940:										
Fresh.....	252,769,887	8,572,659	96,161,535	1,720,853	23,428,664	468,875			372,360,086	10,762,387
Salted.....	57,665	2,234	14,670	571					72,335	2,805
Total.....	252,827,552	8,574,893	96,176,205	1,721,424	23,428,664	468,875			372,432,421	10,765,192

¹ The items under "Other, fresh" include alewives, 2,000 pounds, valued at \$7; butterfish, 200,708 pounds, valued at \$15,269; herring, 196,600 pounds, valued at \$2,562; scup or porgy, 200 pounds, valued at \$6; shad, 67,232 pounds, valued at \$3,583; sharks, 47,299 pounds, valued at \$2,533; skates, 9,655 pounds, valued at \$133; sturgeon, 3,364 pounds, valued at \$254; miscellaneous fish, 5,395 pounds, valued at \$176; and shrimp, 2,126 pounds, valued at \$134.

NOTE.—The above table does not include landings of miscellaneous fishery

products which during 1941 consisted of 7,251,859 pounds of livers, valued at \$361,618, and 603,853 pounds of spawn, valued at \$22,412. Salted fish from the treaty coasts of Newfoundland and Magdalen Islands, which are received in this country as products of American fisheries, are not included in the tables showing the landings at the above ports. Receipts from the treaty-coasts in 1941 consisted of salted cod, 1,011,800 pounds, valued at \$31,729; salted herring, 1,248,000 pounds, valued at \$36,327; and salted mackerel, 640,000 pounds, valued at \$22,477.

Landings by fishing vessels at certain New England ports, 1941—Continued

BOSTON: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:														
Large	1,741,315	\$93,950	4,162,355	\$148,017	5,677,175	\$188,233	4,726,810	\$110,939	2,546,790	\$66,390	1,467,345	\$59,113	1,173,015	\$55,251
Market	1,167,615	58,457	1,677,420	70,620	2,751,365	98,156	4,517,555	107,092	4,644,690	105,634	4,762,630	123,105	2,712,490	83,730
Scrod	113,090	4,308	88,555	2,817	61,770	1,998	37,475	794	396,090	7,329	719,330	14,049	308,265	7,738
Cod, salted, large													15,650	594
Haddock, fresh:														
Large	4,822,490	266,309	6,593,498	311,867	8,356,205	366,284	9,254,810	308,896	9,150,735	302,147	8,889,130	319,041	7,528,976	306,094
Scrod	3,035,701	122,518	4,134,368	152,883	4,766,240	167,406	4,274,230	127,162	4,204,564	129,557	5,628,009	171,261	6,502,929	228,445
Hake, fresh:														
Large	214,185	13,428	100,150	7,249	58,480	3,855	47,125	2,056	159,590	4,596	117,265	4,314	553,235	19,393
Small	6,300	409	5,500	343	7,300	297	11,300	294	37,200	967	11,400	362	2,600	81
Pollock, fresh:	1,517,200	49,178	1,675,537	44,817	1,182,000	37,527	1,316,930	28,429	812,965	17,338	406,480	11,112	259,696	8,931
Cusk, fresh:	297,880	12,920	348,803	10,951	351,360	12,334	129,765	3,247	255,280	5,117	108,655	3,068	236,415	7,283
Halibut, fresh:	24,362	5,050	86,476	14,489	76,418	12,727	115,483	14,901	81,557	9,863	44,315	6,349	108,513	17,420
Mackerel, fresh:									2,233,760	46,440	1,745,090	58,282	1,966,050	77,693
Flounders, fresh:														
Gray sole	530,170	23,288	206,515	11,628	255,985	14,315	262,805	11,734	188,145	9,343	136,220	7,634	68,115	4,082
Lemon sole	100,871	11,447	54,177	6,942	59,489	7,697	151,500	11,838	515,110	16,741	499,115	25,135	219,433	20,556
Yellowtail	393,875	8,259	159,815	4,458	98,930	3,385	268,655	6,085	323,315	6,487	250,285	6,309	199,955	6,434
Blackback	86,085	4,773	30,550	2,250	21,100	1,725	44,295	1,849	165,725	2,986	134,125	2,986	92,380	3,982
Dab	153,195	5,386	149,175	4,883	115,890	4,499	161,730	4,371	273,170	5,860	460,535	13,147	312,640	9,411
Other			3,355	119									324	12
Swordfish, fresh:													132,390	42,089
Rosefish, fresh:	1,903,003	50,539	2,359,827	68,121	2,430,977	71,116	2,308,456	48,395	2,405,720	43,449	1,857,013	33,041	1,631,345	31,059
Tuna, fresh:													504	45
Whiting, fresh:	2,110	139	2,325	93	300	17	4,691	300	418,150	12,573	2,449,926	46,661	3,044,650	62,569
Wolfish, fresh:	44,780	2,175	61,795	2,929	80,855	4,246	191,125	6,475	256,420	8,053	106,840	3,104	50,805	2,146
Scallops (meats)	6,816	1,363	9,160	1,841	41,410	10,127	224,107	39,419	159,941	24,652	149,296	25,425	193,792	38,022
Other, fresh:	315	25	4,525	100	7,820	220	5,565	192	1,760	116	4,870	337	11,560	703
Total, fresh	16,161,358	733,921	21,913,881	867,417	26,401,069	1,006,164	28,054,412	834,468	29,230,677	825,638	29,947,874	934,786	27,315,077	1,033,169
Total, salted													15,650	594
Grand total	16,161,358	733,921	21,913,881	867,417	26,401,069	1,006,164	28,054,412	834,468	29,230,677	825,638	29,947,874	934,786	27,330,727	1,033,763
Landed in 1940:														
Fresh	20,555,570	733,936	22,043,402	783,073	19,203,213	831,444	12,392,441	512,383	13,764,615	490,879	17,000,808	521,447	30,177,165	732,644
Salted					1,825	78	5,200	206	13,400	566	19,500	815	7,240	272
Total	20,555,570	733,936	22,043,402	783,073	19,205,038	831,522	12,397,641	512,589	13,778,015	491,445	17,020,308	522,262	30,184,405	732,916

Species	August		September		October		November		December		Total, 1941		Total, 1940	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:														
Large	760,230	\$42,930	1,196,120	\$67,175	1,186,520	\$74,708	1,426,430	\$76,387	1,537,825	\$90,832	27,601,930	\$1,073,925	23,027,291	\$889,134
Market	1,358,130	54,626	1,612,145	70,249	2,366,475	111,947	4,345,775	184,659	1,833,515	88,842	33,749,805	1,157,117	26,164,512	846,028
Scrod	504,385	14,635	417,745	14,048	759,330	28,766	1,317,055	45,025	268,545	10,573	4,091,635	152,080	3,500,519	90,972
Cod, salted:														
Large	6,000	270	10,600	636	5,800	348					38,050	1,848	31,625	1,203
Market													26,040	1,031
Haddock, fresh:														
Large	6,142,685	276,760	6,016,185	292,368	5,093,290	290,138	3,673,785	230,566	4,528,055	298,032	80,049,844	3,568,502	73,300,950	2,971,862
Scrod	7,690,862	292,929	8,258,794	324,575	4,893,549	225,584	2,945,960	148,577	2,668,485	146,327	59,003,681	2,237,224	36,866,053	1,191,084
Hake, fresh:														
Large	525,780	19,576	614,023	24,410	378,320	20,307	343,455	17,898	202,515	12,468	3,314,123	149,550	3,561,997	130,449
Small	6,000	226	12,252	535	23,800	1,159	85,420	2,130	3,300	182	212,372	6,985	467,930	16,880
Pollock, fresh:	304,580	10,805	585,400	20,396	887,890	34,246	4,746,820	132,770	4,757,800	161,113	18,453,298	556,662	19,036,405	439,618
Cusk, fresh:	435,385	13,210	364,680	13,190	233,730	9,871	502,585	18,737	241,745	11,011	3,506,283	120,939	4,947,990	143,593
Halibut, fresh:	45,862	7,148	45,903	8,817	26,637	6,018	22,820	5,380	13,803	3,083	692,149	111,245	873,411	130,438
Mackerel, fresh:	1,708,419	67,971	2,326,035	49,422	4,617,510	118,887	601,700	41,313	237,520	11,829	15,436,084	471,837	14,639,004	331,178
Flounders, fresh:														
Gray sole	95,550	5,648	88,559	5,788	142,615	9,633	138,390	8,281	216,040	13,892	2,329,109	125,266	4,195,187	178,859
Lemon sole	212,675	19,783	233,371	17,860	122,530	13,733	97,645	10,955	87,635	11,048	2,353,551	173,735	2,060,106	146,073
Yellowtail	174,985	5,045	343,860	7,613	185,385	5,520	287,889	8,615	445,930	14,120	3,132,879	82,330	4,587,290	94,897
Blackback	158,980	6,519	106,535	3,474	123,833	6,175	141,470	6,960	109,140	6,165	1,214,218	50,795	1,240,245	50,984
Dab	224,290	6,830	217,105	7,111	246,695	10,603	165,140	6,760	297,220	13,476	2,776,785	92,337	2,419,214	66,229
Other	400	11			800	64					4,879	206	313,650	8,502
Swordfish, fresh:	225,543	59,133	114,877	36,948	566	247					473,376	138,417	773,649	166,894
Rosefish, fresh:	1,547,240	33,008	2,364,725	52,695	2,535,005	57,801	1,621,160	34,938	1,818,795	48,365	24,783,266	572,527	19,726,959	330,094
Tuna, fresh:											504	45	324	19
Whiting, fresh:	2,701,715	60,969	2,142,200	53,406	1,376,070	39,428	338,250	10,896	17,695	892	12,498,082	287,943	8,805,351	124,123
Wolfish, fresh:	41,405	2,025	17,705	1,070	24,290	1,607	33,590	1,919	34,450	2,054	944,060	37,803	795,214	28,473
Scallops (meats):	223,114	47,001	99,705	23,761	183,911	50,663	211,661	62,115	19,659	6,102	1,527,372	330,491	1,107,556	182,642
Other, fresh:	40,875	2,710	130,210	8,696	49,290	3,637	19,995	1,643	6,200	430	282,985	18,809	359,080	13,544
Total, fresh:	25,129,080	1,049,498	27,308,134	1,103,607	25,458,041	1,120,742	23,066,795	1,056,524	19,345,872	950,836	299,332,270	11,516,770	252,769,887	8,572,650
Total, salted:	6,000	270	10,600	636	5,800	348					38,050	1,848	57,665	2,234
Grand total:	25,135,080	1,049,768	27,318,734	1,104,243	25,463,841	1,121,090	23,066,795	1,056,524	19,345,872	950,836	299,370,320	11,518,618	252,827,552	8,574,493
Landed in 1940:														
Fresh	27,624,044	807,143	24,643,506	862,088	23,058,568	822,038	21,555,133	699,494	20,751,422	776,090			252,769,887	8,572,659
Salted	10,500	297											57,665	2,234
Total:	27,634,544	807,440	24,643,506	862,088	23,058,568	822,038	21,555,133	699,494	20,751,422	776,090			252,827,552	8,574,893

NOTE.—The weights of fresh and salted fish given in these statistics represent the fish as landed from the vessels, and the values are those received by the fishermen. Large cod are classified as those weighing over 10 pounds; market cod, 2½ to 10 pounds; and scrod cod, 1 to 2½ pounds. Large haddock are those

weighing over 2½ pounds and scrod haddock, 1 to 2½ pounds. Large hake are those weighing over 6 pounds, and small hake, under 6 pounds. Only landings by vessels having a capacity of five net tons or greater are used in this tabulation.

Landings by fishing vessels at certain New England ports, 1941—Continued

GLOUCESTER: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh														
Large	156,325	\$8,263	81,150	\$3,188	360,790	\$10,807	1,057,801	\$25,866	711,430	\$21,330	786,445	\$26,261	194,725	\$7,363
Market	64,835	2,926	57,405	2,186	58,050	1,904	163,430	3,450	204,145	4,283	587,688	12,944	257,485	6,343
Scrod	2,135	59	6,700	158	2,810	71	740	14	1,815	33	33,350	552	3,990	69
Cod, salted:														
Large									5,400	162				
Market									600	12				
Haddock, fresh:														
Large	71,260	3,930	130,000	5,629	376,692	15,409	426,770	12,837	132,814	4,048	175,888	5,290	187,090	6,574
Scrod	174,725	6,237	520,547	14,571	240,188	7,438	213,453	5,467	145,212	4,050	131,730	4,172	219,563	6,655
Hake, fresh:														
Large	11,660	571	6,720	342	7,440	330	11,000	232	20,665	307	22,310	447	29,715	550
Small	22,515	884	4,085	196	23,000	810	37,270	786	37,500	530	35,685	545	45,545	748
Pollock, fresh	118,195	3,581	21,465	536	28,475	757	102,500	2,015	166,405	2,913	680,251	13,033	305,900	9,718
Cusk, fresh	14,000	509	12,710	384	27,605	786	54,755	1,120	37,465	627	12,255	206	31,945	605
Halibut, fresh	38	7	232	46	478	99	247	31	1,519	182	1,075	121	460	51
Mackerel, fresh	2,185	262							1,233,700	19,935	154,905	4,072	171,485	6,127
Flounders, fresh:														
Gray sole	122,665	5,384	148,335	7,195	238,825	11,465	251,060	9,049	122,785	4,394	79,985	3,515	132,590	5,141
Lemon sole	40	2	1,145	98	635	66	680	26	350	5	25	1	625	20
Yellowtail	161,270	2,078	253,655	3,907	2,960	112	118,700	1,783			38,125	653	60,115	1,044
Blackback	14,510	796	3,495	183	1,585	79	1,495	33	140	5			885	27
Dab	38,365	703	70,760	1,503	54,950	1,222	41,825	680	33,105	506	66,625	1,119	64,159	1,175
Other									15,400	376	4,700	117	3,125	63
Swordfish, fresh										590	257			
Rosefish, fresh	2,751,340	64,531	3,348,420	87,646	5,906,518	156,438	9,013,713	178,419	13,260,123	243,826	10,735,400	199,154	10,091,993	186,876
Whiting, fresh							2,782	63	61,418	1,119	1,661,698	27,907	1,695,174	30,304
Wolfmsh, fresh	1,180	41	2,910	122	3,785	157	10,985	255	17,230	407	12,545	304	5,023	131
Scallops (meats)							48	16			24,999	4,417	14,857	2,969
Other, fresh	390	20	1,877	91	43	5	127	14	519	35	3,487	134	3,073	132
Total, fresh	3,727,633	100,784	4,671,611	127,981	7,334,829	208,045	11,509,381	242,156	16,203,740	308,711	15,249,761	305,221	13,519,522	272,685
Total, salted									6,000	174				
Grand total	3,727,633	100,784	4,671,611	127,981	7,334,829	208,045	11,509,381	242,156	16,209,740	308,885	15,249,761	305,221	13,519,522	272,685
Landed in 1940:														
Fresh	3,189,302	64,237	3,921,303	79,511	3,661,905	78,556	2,859,538	85,646	7,423,981	155,425	11,836,460	190,901	12,691,953	180,631
Salted													14,100	555
Total	3,189,302	64,237	3,921,303	79,511	3,661,905	78,556	2,859,538	85,646	7,423,981	155,425	11,836,460	190,901	12,706,053	181,186

Species	August		September		October		November		December		Total, 1941		Total, 1940	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh														
Large	129,290	\$5,748	146,074	\$7,490	179,365	\$10,063	172,682	\$9,449	122,077	\$7,538	4,098,154	\$143,456	3,503,199	\$133,798
Market	280,125	9,375	184,685	7,684	128,245	5,515	125,527	5,133	62,577	2,926	2,174,197	64,669	2,052,573	56,936
Scrod	20,715	600	18,140	590	3,920	104	12,173	286	6,802	164	113,290	2,700	69,860	1,612
Cod, salted:											5,400	162	13,680	542
Large											600	12	990	29
Market														
Haddock, fresh:														
Large	451,773	16,680	169,627	6,793	171,275	8,184	145,484	7,455	74,275	4,234	2,512,948	97,063	3,383,288	113,930
Scrod	480,520	16,374	62,518	2,105	40,730	1,165	57,915	1,726	105,813	3,792	2,392,914	73,752	1,768,565	45,940
Hake, fresh:														
Large	32,180	682	87,625	2,280	131,760	4,828	78,230	2,901	32,685	1,300	471,990	14,770	465,909	12,010
Small	44,535	788	34,300	681	65,200	1,818	52,800	1,593	39,582	1,290	442,017	10,669	457,975	8,834
Pollock, fresh	326,365	10,117	1,324,248	38,559	2,635,285	81,727	5,104,608	120,214	3,199,581	94,396	14,013,278	377,566	10,675,046	195,695
Cusk, fresh	45,760	924	70,485	1,417	52,110	1,364	38,600	1,039	12,230	408	409,920	9,389	234,975	4,872
Halibut, fresh	650	131	287	54	479	112	145	24	85	26	5,695	884	61,302	8,225
Mackerel, fresh	1,114,729	22,681	3,447,671	59,234	3,002,235	54,628	60,795	2,609	89,855	3,131	9,277,560	172,679	5,457,469	75,940
Flounders, fresh:														
Gray sole	171,284	6,019	185,555	7,588	167,925	7,615	133,445	5,762	109,580	5,244	1,864,034	78,371	1,625,895	68,064
Lemon sole	5,445	257	355	11	1,285	40	20	1	475	12	11,080	539	24,875	574
Yellowtail	265,415	6,286	712,125	14,282	179,450	3,635	172,720	4,123	93,310	2,210	2,057,845	40,113	2,380,268	33,722
Blackback	10,275	276	13,285	351	3,825	111	7,155	210	1,930	64	58,580	2,135	53,240	1,628
Dab	108,921	2,062	75,728	1,402	46,135	931	34,280	706	31,610	659	666,463	12,668	858,256	13,447
Other	460	17	4,075	273	3,315	269	580	35	155	9	31,810	1,159	32,880	954
Swordfish, fresh	170	41	399	116							1,159	414	17,988	3,279
Rosefish, fresh	11,977,812	220,842	12,671,551	242,863	10,206,501	209,660	6,012,005	127,893	3,901,677	90,073	99,877,053	2,007,991	57,397,047	845,376
Tuna, fresh	118,124	7,196	25,231	1,426							143,355	8,622	229,430	12,213
Whiting, fresh	2,594,012	55,886	1,079,224	23,814	407,708	10,375	110,117	3,184	6,480	201	7,618,613	152,853	4,961,069	56,098
Wolfish, fresh	4,745	133	4,700	132	7,255	208	3,350	106	2,432	87	76,190	2,093	61,123	1,495
Scallops (meats)	9,800	2,048	12,748	2,947	420	105	165	48			63,037	12,550	149,854	23,190
Other, fresh	3,930	63	15,591	653	12,280	709	12,948	859	9,613	640	63,878	3,355	239,449	3,121
Total, fresh	18,197,035	385,226	20,346,227	422,745	17,446,703	403,166	12,335,744	295,326	7,902,874	218,404	148,445,060	3,290,450	96,161,535	1,720,853
Total, salted											6,000	174	14,670	571
Grand total	18,197,035	385,226	20,346,227	422,745	17,446,703	403,166	12,335,744	295,326	7,902,874	218,404	148,451,060	3,290,624	96,176,205	1,721,424
Landed in 1940:														
Fresh	12,790,221	177,980	10,709,790	178,873	9,886,840	190,984	8,750,523	163,372	8,439,719	174,737			96,161,535	1,720,853
Salted					570	16							14,670	571
Total	12,790,221	177,980	10,709,790	178,873	9,887,410	191,000	8,750,523	163,372	8,439,719	174,737			96,176,205	1,721,424

Landings by fishing vessels at certain New England ports, 1941—Continued

PORTLAND: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:														
Large	41,520	\$1,894	38,930	\$1,474	64,463	\$2,290	356,059	\$10,489	448,938	\$12,871	202,803	\$6,394	112,150	\$4,218
Market	24,715	912	38,825	1,220	44,472	1,330	164,750	4,725	223,148	6,429	195,650	8,208	15,700	266
Scrod	2,510	43	1,920	39	1,590	28	2,032	24	1,830	18	1,975	20	558	5
Haddock, fresh:														
Large	51,508	3,404	40,603	2,429	73,470	3,881	835,560	25,519	890,317	26,863	453,857	13,721	15,228	640
Scrod	16,741	526	14,515	477	52,037	1,551	326,442	9,635	124,131	3,692	198,036	5,818	2,775	53
Hake, fresh:														
Large	85	4			35	2	1,775	61	5,190	142	9,445	189	13,290	303
Small	28,545	1,243	14,906	708	13,103	663	23,419	981	33,796	790	116,945	2,522	80,319	2,013
Pollock, fresh	26,252	554	12,029	307	13,203	334	119,820	1,065	136,132	1,858	115,653	1,648	119,505	2,030
Cusk, fresh	38,732	1,895	37,689	1,682	115,766	4,616	88,163	2,593	57,161	1,653	16,286	537	5,936	202
Hallit, fresh	58	15	461	91	2,041	407	4,637	709	4,311	552	1,478	166	20	3
Mackerel, fresh											18,200	599		
Flounders, fresh:														
Gray sole	17,063	659	22,728	971	33,288	1,618	43,010	1,283	30,185	807	10,275	295	13,718	442
Lemon sole	500	13	450	14	560	13	1,910	23	1,345	25	12,005	253	235	5
Yellowtail							2,000	40	1,800	18				
Blackback							5				2,000	40		
Dab	15,725	263	36,000	613	40,341	743	22,840	310	23,440	316	25,574	276	15,530	233
Other			1,505	27			1,410	39			500	8	725	11
Rosefish, fresh	630,140	12,289	860,005	20,063	1,235,815	29,873	1,204,361	20,671	1,643,390	24,977	1,751,369	25,961	1,383,024	20,239
Tuna, fresh													886	27
Whiting, fresh									83,418	1,000	127,687	1,571	1,023,009	12,562
Wolfish, fresh	315	7	470	8	1,225	24	11,340	113	8,302	89	1,446	18	600	5
Scallops, (meats)							27	5						
Other, fresh	590	32	260	13	158	13	26	2	253	8	2,464	58	610	26
Total, fresh	894,999	23,753	1,121,296	30,136	1,691,567	47,386	3,209,586	78,887	3,717,087	82,108	3,263,648	68,302	2,803,818	43,283
Landed in 1940:														
Fresh	1,250,581	39,879	1,179,597	35,288	1,223,044	41,964	1,060,521	31,058	1,215,766	23,874	1,784,907	24,021	4,983,455	76,559

Species	August		September		October		November		December		Total, 1941		Total, 1940	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:														
Large	41,730	\$1,704	23,045	\$807	36,250	\$1,486	34,240	\$1,438	27,330	\$1,251	1,427,458	\$46,316	2,435,514	\$69,775
Market	17,110	365	19,605	391	20,747	529	26,075	762	28,295	935	819,092	26,072	556,372	15,833
Scrod	115	1	95	2	770	11	655	8	630	9	14,680	208	29,247	411
Haddock, fresh:														
Large	10,203	418	16,084	707	37,002	2,189	44,181	2,788	38,525	2,329	2,506,538	84,888	4,392,426	129,410
Scrod	1,450	25	1,030	16	3,965	112	12,025	316	10,275	305	763,422	22,526	745,821	20,010
Hake, fresh:														
Large	5,705	133	3,305	83	8,100	313	2,840	124	3,845	151	53,615	1,505	164,551	3,592
Small	58,685	1,486	74,207	2,335	94,695	4,041	73,460	2,981	56,470	2,504	668,550	22,267	887,609	24,460
Pollock, fresh	112,042	2,259	61,090	1,219	171,503	4,217	184,600	4,644	41,490	1,052	1,113,319	21,787	2,328,243	41,888
Cusk, fresh	9,085	350	12,751	485	25,980	1,112	17,891	827	32,645	1,405	458,085	17,357	831,137	28,167
Halibut, fresh			18	4	139	33	73	15	117	15	13,353	2,010	21,453	3,158
Mackerel, fresh	23,500	352	86,317	1,710	54,710	1,077					182,727	3,738	629,511	8,531
Flounders, fresh:														
Gray sole	14,065	388	17,539	572	11,399	410	15,550	587	9,455	356	238,275	8,388	203,082	8,344
Lemon sole	140	2	575	11			70	2	250	5	18,040	366	20,500	538
Yellowtail			35	1	125	2			560	12	4,520	73	15,045	235
Blackback	430	9	20		10						2,465	49	4,960	103
Dab	13,853	193	9,830	153	10,830	171	12,480	186	8,510	137	234,953	3,594	209,041	3,198
Other	85	1			60	1					4,285	87	17,155	349
Rosefish, fresh	1,396,577	20,730	1,525,608	22,252	1,203,484	19,770	1,170,415	20,653	688,278	12,930	14,692,466	250,408	6,657,216	81,072
Tuna, fresh	222	7									1,108	34	20,130	209
Whiting, fresh	796,188	9,671	205,509	2,552	6,900	84	1,005	13			2,243,716	27,453	2,970,067	26,013
Wolfish, fresh	595	5	595	5	665	6	880	11	205	4	26,638	295	34,049	528
Scallops, (meats)											27	5		
Other, fresh	929	20	132,363	1,670	4,035	106	45,334	571	694	24	187,716	2,543	255,535	3,056
Total, fresh	2,502,701	38,119	2,189,621	34,975	1,691,369	35,670	1,641,774	35,926	947,574	23,424	25,675,048	541,969	23,428,664	468,875
Landed in 1940:														
Fresh	4,433,166	70,926	1,561,167	25,474	1,889,995	37,989	1,722,832	33,713	1,123,633	28,130			23,428,664	468,875

BIOLOGICAL ASPECT

In 1941, the fishing fleet operating on the fishing banks of the North Atlantic and landing fares at Boston, Gloucester, and Portland, numbered 386 steam, motor, and sail vessels of 5 net tons capacity or greater, as measured by the United States Customs Service. The catch of edible fish landed at the three ports with the salted fish converted to the basis of fresh, gutted, or round weight as usually landed, amounted to 473,536,097 pounds. This, however, does not represent the entire catch of these vessels, as they also landed fares at other New England ports, at New York City, and at more southern ports in connection with the southern winter trawl and mackerel fisheries.

Otter trawls of all sizes accounted for 406,058,729 pounds, or 86 percent of the total landings. Line trawls were next in importance, accounting for 27,327,919 pounds, or 6 percent of the total.

The catch taken off New England and landed at the three ports amounted to 366,933,276 pounds, or 77 percent of the total; that off Nova Scotia, 105,773,080 pounds, or 22 percent; that off the Middle Atlantic States, 820,315 pounds; and that off the east coast of Newfoundland, 9,426 pounds; each representing less than 1 percent of the total.

Landings by fishing vessels at certain New England ports, 1941—Continued

BY GEAR AND AREA

Gear and area	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Line trawls:													
Newfoundland Banks, unclassified	1	4	8	5,358	233							200	3,635
Banquereau	4	7.2	119	33,214	3,120		5,760	2,600	92,500		2,180	14,275	145,257
Middle Ground	1	9	10	26,200	44,900		12,000	3,300	200		500	3,200	463
Northeast Sable Island Bank	4	5.2	58	121,880	68,850	6,480	62,365	17,915	2,500	930	3,180	25,430	11,399
Southwest Sable Island Bank	4	3.3	49	97,450	17,300	1,600	36,500	4,500	9,050		2,500	12,130	34,068
Emerald Bank	4	3.2	44	21,530	13,340		49,300	4,830	67,963		2,870	53,660	1,893
Eastern Browns (including La Have Bank)	17	57.5	658	709,123	547,820	43,885	1,055,515	334,400	352,933	550	71,794	572,448	50,377
Southern Nova Scotia	15	25.2	232	412,848	352,460	18,560	499,935	143,155	74,208		24,040	308,530	5,754
Western Browns	17	55.1	551	1,050,805	580,810	44,220	1,469,535	300,745	54,254		61,836	240,902	69,474
Western Nova Scotia	18	45.8	508	236,394	233,800	45,615	686,700	237,090	154,128	100	37,538	896,481	12,924
Nova Scotia, unclassified	4	2.9	43	29,588	17,861	40	18,290	3,550	7,750		1,020	27,400	5,136
Eastern Maine	1	1.0	6	1,150	270		3,760	390		2,230	125	3,565	52
Central Maine	8	37.9	245	32,805	7,740	360	52,085	3,840	998,270	26,306	12,005	105,510	333
Western Maine	18	184.7	216	37,730	8,895	1,785	79,342	12,725	45,520	100,285	6,290	110,948	273
Eastern Massachusetts	31	611.5	928	227,577	300,200	78,230	518,173	72,450	39,055	166,365	57,680	327,150	3,203
Inner Grounds	28	103.0	389	135,733	75,285	17,405	475,420	78,980	205,997	25,490	51,057	686,707	2,985
Western Side South Channel	15	30.1	208	298,975	94,095	35,210	1,008,130	84,490	76,825		54,730	43,327	4,970
Eastern Side South Channel	10	10.4	82	45,499	25,110	5,850	252,915	19,445	49,103		4,770	176,215	1,774
Northern Edge and Northeast Peak of Georges	13	40.0	335	733,080	244,245	7,090	1,525,610	170,130	36,364		59,195	54,920	7,396
Central and Southeast Georges	10	31.9	254	2,510,928	300,430	3,600	545,495	38,500	1,175		18,990	7,853	3,752
Southwest Georges	2	1.2	11	20,008	12,350	2,550	29,260	6,300	2,075		2,300	8,770	571
Total	155	1,259.0	4,954	6,787,875	2,949,164	312,470	8,386,090	1,539,335	2,269,870	322,256	474,600	3,679,583	365,689
Harpoons:													
Eastern Browns (including La Have Bank)	9	8.8	118										
Southern Nova Scotia	1	1	2										
Western Browns	7	3.3	56										
Northern Edge and Northeast Peak of Georges	11	13.4	247										
Central and Southeast Georges	10	9.0	183										
Southwest Georges	5	3.5	73										
Nantucket Shoals and Lightship Grounds	1	3	6										
Total	111	37.0	685										

Landings by fishing vessels at certain New England ports, 1941—Continued

BY GEAR AND AREA—Continued

Gear and area	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Otter trawls, large:													
Banquereau	32	143.9	1,632	2,157,945	12,088,925	3,071,605	2,436,975	4,828,440	38,027		216,888	2,680	38,216
Middle Ground	22	18.8	209	473,225	1,286,110	276,985	548,950	370,690	52,573		94,422	1,205	8,118
Northeast Sable Island Bank	19	32.6	353	297,245	826,415	101,670	2,180,890	1,356,110	8,910		208,215	30	5,421
Southeast Sable Island Bank	17	19.8	224	473,430	2,575,200	33,750	440,600	406,161	26,015		539,825		37,388
Horseshoe Ground	38	91.2	999	2,941,055	3,599,760	307,365	3,384,320	1,015,713	61,005		1,842,118	970	24,987
Southwest Sable Island Bank	20	29.6	325	803,832	1,678,813	32,615	1,361,790	627,765	17,807		728,997	2,267	26,765
Emerald Bank	20	18.4	203	262,645	678,660	23,365	1,270,520	462,857	23,368		310,210	1,825	9,843
Central Nova Scotia	1	1.0	8	42,000	115,000		35,000	15,000			400		366
Eastern Browns (including La Have Bank)	18	10.6	99	266,800	185,975	2,960	668,110	333,958	2,010		130,800	3,422	3,240
Southern Nova Scotia	7	11.8	97	58,180	56,820	2,400	108,970	102,963	2,775	2,040	135,170	2,285	562
Western Browns	27	30.4	270	617,054	458,367	17,345	1,979,510	1,095,859	4,035		367,533	11,891	7,339
Nova Scotia, unclassified	4	2.9	33	45,370	169,960	24,550	59,130	69,250	670		14,730	250	1,046
Eastern Massachusetts	3	4	5								30,150		
Inner Grounds	3	17.5	130	6,475	4,465		21,007	9,000	120	3,740	21,120	3,590	
Western Side South Channel	44	152.8	1,278	415,831	464,910	51,910	4,023,874	4,277,283	153,438		1,970,320	30,515	12,748
Eastern Side South Channel	42	208.4	1,722	785,386	419,480	46,855	8,578,749	4,764,670	200,277	83,200	3,559,347	65,603	36,836
Northern Edge and Northeast Peak of Georges	41	227.9	1,931	2,353,079	2,535,712	415,795	10,304,110	9,258,634	134,870		2,401,265	53,301	30,572
Central and Southeast Georges	46	287.6	2,635	6,882,910	2,336,958	92,940	15,475,193	10,642,462	96,495	1,900	787,499	13,264	53,981
Southwest Georges	31	53.1	463	357,638	182,905	7,070	2,873,960	2,662,416	14,245	400	95,418	2,585	7,859
Nantucket Shoals and Lightship Grounds	6	1.7	15	6,070	9,670	1,550	83,757	84,208	2,180		3,110	95	151
Southern New England, unclassified	7	4.6	48	26,710	16,920	1,550	143,330	68,095	2,760		38,900	1,030	661
Total	152	1,365.0	12,679	19,272,880	29,691,025	4,512,280	55,978,745	42,451,534	841,580	91,280	13,496,797	196,808	306,099

¹ Exclusive of duplication.

Gear and area	Mackerel	Flounders						Swordfish	Rosefish	Tuna	Whiting	Wolfish	Scallops (meats)	Other	Total
		Gray sole	Lemon sole	Yellow-tail	Black-back	Dab	Other								
Bine trawls:	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Newfoundland Banks, unclassified															9,426
Banquereau												500			299,406
Middle Ground												100			90,863
Northeast Sable Island Bank						100						1,082			322,111
Southwest Sable Island Bank								225				500			215,823
Emerald Bank												1,750			217,126
Eastern Browns (including La Have Bank)								1,118				27,498			3,767,461
Southern Nova Scotia												13,585			1,853,065
Western Browns												49,092			3,921,673
Western Nova Scotia												16,928			2,557,698
Nova Scotia, unclassified												610			111,245
Eastern Maine									425						11,967
Central Maine						50			135			180		73	1,239,692
Western Maine						995			4,115		80	180		258	409,421
Eastern Massachusetts			9,300	1,400	3,300	4,345			570		300	35,965		2,230	1,847,483
Inner Grounds						300			200			5,640		275	1,761,474
Western Side South Channel			1,300		300							3,011			1,705,363
Eastern Side South Channel												674			581,355
Northern Edge and Northeast Peak of Georges								2,038			700	8,547		39,000	2,388,315
Central and Southeast Georges												1,628			3,432,383
Southwest Georges												385			84,569
Total			10,600	1,400	3,600	5,790		2 3,381	5,445		1,080	167,855		41,836	27,327,919

Landings by fishing vessels at certain New England ports, 1941—Continued

BY GEAR AND AREA—Continued

Gear and area	Mackerel	Flounders						Swordfish	Rosefish	Tuna	Whiting	Wolfish	Scallops (meats)	Other	Total
		Gray sole	Lemon sole	Yellow-tail	Black-back	Dab	Other								
Harpoons:	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Banquereau (occasional).....							461								461
Eastern Browns (including La Have Bank).....							100,164								100,164
Eastern Browns (including La Have Bank) (occasional).....							4,279								4,279
Southern Nova Scotia.....							766								766
Western Browns.....							32,952								32,952
Western Browns (occasional).....							4,281								4,281
Western Maine (occasional).....									1,108						1,108
Eastern Side South Channel (occasional).....							189								189
Northern Edge and Northeast Peak of Georges.....							194,084								194,084
Northern Edge and Northeast Peak of Georges (occasional).....							566								566
Central and Southeast Georges							113,564								113,564
Central and Southeast Georges (occasional).....							2,473								2,473
Southwest Georges.....							16,575								16,575
Nantucket Shoals and Light- ship Grounds.....							590								590
Total.....							470,944		1,108						472,052

Otter trawls, large:														
Banquereau		111,400	37,280	204,823	6,080	22,370		2,550,560		52,563		1,543	27,866,320	
Middle Ground		11,045	125	78,713	3,155	7,110		7,510		13,927		405	3,234,268	
Northeast Sable Island Bank		3,090	7,111	57,420	5,323	16,840		480		19,228		158	5,094,558	
Southeast Sable Island Bank		12,620	850	1,000	75	3,060		8,450		13,945			4,572,369	
Horseshoe Ground	4,080	350,795	2,357	189,940	260	16,630		25,410		133,222		94	13,900,081	
Southwest Sable Island Bank		7,287	190	18,045	120	10,800		51,170		48,873		39	5,417,175	
Emerald Bank	2,720	5,500	277	3,957		785		1,480		5,912		1,100	3,065,024	
Central Nova Scotia			190							200			208,156	
Eastern Browns (including La Have Bank)		5,390	665	180	105	3,712				17,819		50	1,625,196	
Southern Nova Scotia		14,195	157	450	75	4,630		1,044,975		8,530			1,545,177	
Western Browns	80	3,590	736	880	8	24,483				82,620		50	4,671,380	
Nova Scotia, unclassified		1,522	38		800	800		22,350		2,410			412,876	
Eastern Massachusetts					75								30,585	
Inner Grounds		31,418				2,905		1,855,484		210			1,959,534	
Western Side South Channel	620	209,095	108,497	7,110	147,282	173,960		4,573,053		59,569		1,153	16,681,168	
Eastern Side South Channel	2,815	337,768	191,822	33,030	55,476	1,243,259		2,394,471	45,273	53,400		8,061	22,905,778	
Northern Edge and Northeast Peak of Georges		5,925	17,490	160,694	66,060	39,453	70,055	66	30,340	22	68,455	114	12,818	27,958,330
Central and Southeast Georges	13,650	40,480	311,618	248,890	80,050	47,651	504	14,350	3,780	63,741	140	6,424	36,214,380	
Southwest Georges	300	3,729	109,339	49,155	28,213	3,625	4	3,105		8,861		350	6,411,177	
Nantucket Shoals and Lightship Grounds		250	2,200	100	10,800	900				950			205,991	
Southern New England, unclassified		3,835	1,275	3,200	800	3,000		41,600		1,255			354,921	
Total	² 30,190	1,170,499	935,421	962,953	378,150	1,656,575	574	12,624,788	49,075	655,690	² 254	32,245	185,335,442	

¹ Incidental catch.

Landings by fishing vessels at certain New England ports, 1941—Continued

BY GEAR AND AREA—Continued

Gear and area	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Otter trawls, medium:													
Eastern Browns (including La Have Bank)	4	2.0	18	11,570	13,215		6,300	2,445	5,570		11,445	1,980	110
Southern Nova Scotia	51	213.4	1,489	753,500	428,750	31,865	94,495	242,195	57,495	52,710	888,361	34,720	273
Western Browns	4	4.8	39	58,965	37,298		244,910	139,785	180	400	16,775	1,030	751
Western Nova Scotia	1	1.8	15	1,920	1,090		12,520	6,260	480	90	830	95	
Eastern Maine	1	1.0	6	315	90		795	50	1,100		130	70	
Central Maine	41	136.6	634	70,760	45,645	2,440	69,490	53,090	31,635	43,910	54,200	25,395	320
Western Maine	34	102.1	440	39,630	16,660	445	51,545	44,970	9,775	11,919	29,185	15,285	63
Eastern Massachusetts	50	161.9	812	55,240	65,210	14,252	55,730	37,475	19,005	21,457	4,330,467	10,520	65
Inner Grounds	75	893.5	5,526	538,074	259,023	12,000	575,963	273,076	170,928	242,265	989,977	263,987	1,361
Western Side South Channel	80	254.5	1,687	199,206	272,591	46,185	1,990,230	2,724,180	70,860	11,225	1,057,953	22,972	1,500
Eastern Side South Channel	51	198.9	1,520	338,046	614,576	43,985	5,012,321	4,115,588	36,176	157	265,353	4,161	9,304
Northern Edge and Northeast Peak of Georges	33	71.0	585	92,664	204,843	20,640	1,267,465	2,343,711	8,385		10,312	150	1,645
Central and Southeast Georges	43	267.6	2,270	2,222,834	656,329	9,380	7,209,190	5,355,403	10,086	30	137,337	800	14,484
Southwest Georges	38	87.9	704	138,295	145,704	4,775	2,551,953	1,796,207	18,388		24,731	90	5,931
Nantucket Shoals and Lightship Grounds	17	24.5	153	4,885	88,720	21,950	134,160	182,698	2,565	650	1,680		6
Off No Man's Land	3	3.4	15	240									
Southern New England, unclassified	11	13.1	108	29,200	22,080		229,100	236,640	525		2,940	100	1,474
Total	1 123	2,438.0	16,021	4,555,344	2,871,824	207,917	19,506,167	17,553,773	443,153	384,813	7,821,736	381,355	37,287
Otter trawls, small:													
Southern Nova Scotia	1	1.0	5							650			
Central Maine	35	638.2	1,880	195,690	132,825	3,538	125,321	57,124	23,215	102,271	84,163	24,287	575
Western Maine	64	806.0	1,900	175,925	127,902	9,840	194,448	154,909	14,160	73,150	41,621	48,193	409
Eastern Massachusetts	68	1,523.6	3,375	191,010	218,463	40,248	139,660	123,470	10,085	31,565	1,789,310	2,175	63
Inner Grounds	31	151.2	723	66,395	47,525	4,015	71,050	30,672	28,580	36,790	61,210	21,680	358
Western Side South Channel	54	273.5	927	124,780	124,775	19,520	325,425	208,205	19,730	47,020	77,035	15,085	
Eastern Side South Channel	3	3.0	20	2,750	400		68,900	20,050	100		300		224
Central and Southeast Georges	1	1.0	7	900			16,000	10,500					125
Southwest Georges	2	2.0	13	3,450			39,600	6,200					85
Nantucket Shoals and Lightship Grounds	25	62.5	259	760	5,700	685	3,485	1,065	120	280	55		86
Off No Man's Land	9	22.0	64	135	140				90				
Total	1 105	3,484.0	9,173	761,775	657,730	77,846	983,889	612,195	96,080	291,726	2,053,694	111,400	1,924
Sink gill nets:													
Central Maine	2	113.0	113	93,695	28,845	530	8,529	185	5,990	62,385	264,970	1,000	
Western Maine	9	492.0	493	287,853	87,220	5,637	24,997	825	20,305	160,489	647,750	1,692	95
Eastern Massachusetts	18	2,464.0	2,464	1,470,785	458,360	2,925	180,202	1,950	162,750	10,010	8,820,177	2,450	393
Total	1 26	3,069.0	3,070	1,832,133	574,425	9,092	213,728	2,960	189,045	232,864	9,732,897	5,142	198

See footnotes at end of table.

Drift gill nets:													
Eastern Massachusetts	14	72 0	168										
South	1	1 0	3										
Total	¹ 14	73 0	168										
Purse seines:													
Middle Ground	1	1 0	1										
Central Maine	5	20 0	55										
Western Maine	1	1 0	2										
Eastern Massachusetts	28	617 2	1,246		40					140			
Western Side South Channel	18	59 8	198	90	50		711	220		31			
Nantucket Shoals and Lightship Grounds	14	16 4	52										
Off No Man's Land	18	67 6	212										
Rhode Island Shore	2	2 0	5										
South	13	21 0	66										
Total	¹ 30	806 0	1,837	² 90	² 90		² 711	² 220		² 171			
Scallop drags:													
Western Side South Channel	16	18 0	163										
Eastern Side South Channel	7	7 0	60										
Northern Edge and Northeast Peak of Georges	26	60 0	583										
Central and Southeast Georges	23	36 5	354										
Southwest Georges	1	1 0	11										
Nantucket Shoals and Lightship Grounds	5	7 5	80										
Southern New England, unclassified	6	6 0	55										
Total	¹ 36	136 0	1,306										
Grand Total	¹ 386	12,667 0	49,893	33,210,097	36,744,258	5,119,605	85,069,330	62,160,017	3,839,728	1,322,939	33,579,895	4,374,288	711,197

¹ Exclusive of duplication.

² Incidental catch.

NOTE.—“Certain New England ports” are Boston and Gloucester, Mass., and Portland, Maine. Otter trawls are classified according to the size of the vessel. “Small” otter trawl vessels are those of 5 net tons to 50 gross tons capacity; “medium,” 51 gross tons to 150 gross tons; and “large,” 151 gross tons or greater. The weights of salted fish landed have been converted to the equivalent of fresh fish as landed. Only landings by vessels having a capacity

of five net tons or greater are used in the tabulation. “Occasional” after the name of a bank or area indicates that the vessels contributing to the catch as shown fished chiefly with another type of gear. In such cases the number of trips, the number of days absent, are shown under the principal type of gear used. A single trip is reported for each voyage. When a vessel operates in two or more areas during a voyage, a fractional part (in tenths) of the trip is allocated to the areas on the basis of the catch reported taken in each area. The statistics of landings shown in this bulletin do not agree exactly with some of the data shown in the monthly bulletins due to certain revisions in these data.

Landings by fishing vessels at certain New England ports, 1941—Continued

BY GEAR AND AREA—Continued

Gear and area	Mackerel	Flounders						Sword-fish	Rosefish	Tuna	Whiting	Wolf-fish	Scallops (meats)	Other	Total
		Gray sole	Lemon sole	Yellow-tail	Black-back	Dab	Other								
Otter trawls, medium:	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
Eastern Browns (including La Have Bank)		14,030	2,400	765	240	665		82,000			300			153,035	
Southern Nova Scotia		248,900	18,350	4,000		54,760	13,400	16,834,061		1,530	11,250		175	19,770,790	
Western Browns		875		119	533	2,480		3,850			13,412			521,363	
Western Nova Scotia		1,665				4,460		74,460			20			103,890	
Eastern Maine		4,135						47,225			90			54,000	
Central Maine		123,021	2,930	330	210	61,555	1,150	6,298,356		4,480	4,685		385	6,894,547	
Western Maine		103,810	660	2,000		18,538	1,825	3,414,590		37,735	930		170	3,799,735	
Eastern Massachusetts		45,380	715	6,040	7,785	26,830		1,594,390		234,100	1,760		210	6,529,631	
Inner Grounds		1,121,592	6,975	2,420	1,450	296,470	5,880	62,582,593		77,600	20,732		4,447	67,446,813	
Western Side South Channel	750	109,715	87,572	21,447	89,042	113,524	2,000	6,740,609		343,389	16,874		10,648	13,932,472	
Eastern Side South Channel	80	57,119	319,057	217,462	107,761	189,029	250	982,579		15,045	18,153		76	28,752	
Northern Edge and Northeast Peak of Georges	88	5,062	160,075	92,015	56,908	4,285	400				1,257		50	809	
Central and Southeast Georges	807	23,473	527,348	635,368	197,567	19,105		900		60	9,005		296	2,147	
Southwest Georges		1,648	238,590	82,157	74,559	11,210		6,625		60	2,686		108	2,182	
Nantucket Shoals and Light-ship Grounds	750	90	11,283	447,283	46,020	285	1,285	100			148		866	385	
Off No Man's Land				97,525	4,050		800						215		
Southern New England, unclassified		780	32,520	23,700	10,695	2,760		160,663			875			800	
Total	2 2,475	1,861,295	1,408,475	1,632,631	596,820	805,956	26,990	98,823,501		713,999	102,177	2 1,611	54,110	159,793,409	
Otter trawls, small:															
Southern Nova Scotia				36,650										37,300	
Central Maine		236,614	9,605	690	1,830	185,922	2,975	11,442,882		103,025	2,987		680	12,736,219	
Western Maine	600	549,777	5,065	41,665	18,255	221,325	3,010	7,913,470		2,408,668	16,760		3,466	12,022,618	
Eastern Massachusetts	5,500	315,240	765	549,875	218,473	596,390	1,600	665,771	63	16,628,175	19,568	349	143,530	21,691,348	
Inner Grounds		159,868	480	26,750	2,030	75,620	500	5,297,330		158,900	4,120		1,165	6,095,018	
Western Side South Channel		135,035	1,985	77,820	27,675	101,715	155	2,542,827		2,279,665	76,435		12,335	6,217,202	
Eastern Side South Channel		65	2,300		500	1,450		700			400			98,139	
Central and Southeast Georges			2,900	6,000	800									37,225	
Southwest Georges		2,800	3,800	11,200	1,500									68,635	
Nantucket Shoals and Light-ship Grounds		120	215	1,344,680	21,260	655	5,170	210	25,300		5,300		704	4,490	
Off No Man's Land				502,760	2,700									505,825	
Total	2 6,100	1,399,519	27,115	2,598,090	295,023	1,183,077	13,410	27,888,280	2 210	2 63	21,583,733	120,280	2 1,053	165,666	60,929,878

Sink gill nets:															
Central Maine.....					70							50		2,351	468,685
Western Maine.....	105	310		25	3,543							291		7,988	1,231,056
Eastern Massachusetts.....				1,070	23,190							545		35,832	11,182,433
Total.....	105	310		1,095	26,803				10,771	² 300	3,249	886		46,171	12,882,174
Drift gill nets:															
Eastern Massachusetts.....	194,930													2,190	206,395
South.....	2,300														2,300
Total.....	197,230													2,190	208,695
Purse seines:															
Middle Ground.....	74,750														74,750
Central Maine.....	164,067													176,000	340,067
Western Maine.....	2,800														2,800
Eastern Massachusetts.....	17,829,965									143,186				12,901	17,986,232
Western Side South Channel.....	1,298,869									310				1,600	1,301,881
Nantucket Shoals and Light- ship Grounds.....	1,039,255													99	1,039,306
Off No Man's Land.....	3,388,035													1,331	3,389,354
Rhode Island Shore.....	45,050														45,065
South.....	817,585													430	818,015
Total.....	24,660,376									143,496				192,361	24,997,515
Scallop drags:															
Western Side South Channel.....			250		225									184,918	185,393
Eastern Side South Channel.....														68,176	68,176
Northern Edge and North- east Peak of Georges.....			150		150									702,732	703,032
Central and Southeast Georges.....				170										479,844	480,014
Southwest Georges.....			350		200									11,871	12,421
Nantucket Shoals and Light- ship Grounds.....														78,969	78,969
Southern New England, unclassified.....														61,008	61,008
Total.....			² 750		² 170									1,587,518	1,589,013
Grand total.....	24,896,371	4,431,418	2,382,671	5,195,244	1,275,263	3,678,201	40,974	474,535	39,352,785	144,967	22,360,411	1,046,888	1,590,436	534,579	473,536,097

² Incidental catch.

Landings by fishing vessels at certain New England ports, 1941—Continued

SUMMARY: BY AREA

Area	Vessels, fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut	Mackerel
				Large	Market	Scrod	Large	Scrod	Large	Small				
	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Newfoundland Banks (Area XX): Newfoundland Banks, unclassified	1	4	8	5,358	233						200	3,635		
Off Nova Scotia (Area XXI):														
Banquereau	36	151.1	1,751	2,191,159	12,092,045	3,071,605	2,442,735	4,831,040	130,527		219,068	16,955	183,473	
Middle Ground	24	20.7	220	499,425	1,331,010	276,985	560,950	373,990	52,773		94,922	4,405	8,581	74,750
Northeast Sable Island Bank	23	37.8	411	419,125	895,265	108,150	2,243,255	1,374,025	11,410	930	211,395	25,460	16,820	
Southeast Sable Island Bank	17	19.8	224	473,430	2,575,200	33,750	440,600	406,161	26,015		539,825		37,388	
Horseshoe Ground	38	91.2	999	2,941,055	3,599,760	307,365	3,384,320	1,015,713	61,005		1,842,118	970	24,987	4,080
Southwest Sable Island Bank	24	32.9	374	901,282	1,696,113	34,215	1,398,290	632,265	26,857		731,497	14,397	60,833	
Emerald Bank	24	21.6	247	284,175	692,000	23,365	1,319,820	467,687	91,331		313,080	55,475	11,736	2,720
Central Nova Scotia	1	1.0	8	42,000	115,000		35,000	15,000			400		366	
Eastern Browns (including La Have Bank)	48	76.9	893	987,493	747,010	46,845	1,729,925	670,803	360,513	550	214,039	577,850	53,727	
Southern Nova Scotia	73	251.5	1,825	1,224,528	838,030	52,825	703,400	488,313	134,478	55,400	1,047,571	345,525	6,589	
Western Browns	55	93.6	916	1,726,824	1,076,475	61,565	3,693,955	1,536,389	58,469	400	446,144	253,823	77,564	80
Western Nova Scotia	19	47.6	523	238,314	234,890	45,615	699,220	243,350	154,608	190	38,368	896,576	12,924	
Nova Scotia, unclassified	8	5.8	76	74,958	187,821	24,590	77,420	72,800	8,420		15,750	27,650	6,182	
Total	128	851.5	8,467	12,003,768	26,080,619	4,086,875	18,728,890	12,127,536	1,116,406	57,470	5,714,177	2,219,086	501,170	81,630

Off New England (Area XXII):															
Eastern Maine	2	2.0	12	1,465	360	4,555	440	1,100	2,230	255	3,635	52			
Central Maine	91	945.7	2,927	392,950	215,055	6,868	255,425	114,239	1,059,110	234,872	415,398	156,192	1,228	164,067	
Western Maine	114	1,585.8	3,051	520,938	240,677	17,707	350,332	213,429	89,760	345,823	724,846	176,118	840	3,400	
Eastern Massachusetts	179	5,450.6	8,995	1,944,612	1,042,273	135,645	893,765	235,345	230,895	229,397	15,028,284	324,295	3,434	18,030,395	
Inner Grounds	135	1,165.8	6,768	746,677	386,298	33,420	1,143,440	391,728	405,625	308,285	1,123,364	975,944	4,704		
Western Side South Channel	224	788.7	4,461	1,038,862	966,421	152,825	7,348,370	7,294,378	320,853	58,245	3,160,069	111,899	19,218	1,300,230	
Eastern Side South Channel	112	427.7	3,404	1,171,681	1,059,566	96,690	13,912,885	8,919,753	285,656	83,357	3,829,770	245,979	48,138	2,895	
Northern Edge and Northeast Peak of Georges	123	412.3	3,681	3,178,823	2,984,800	443,525	13,097,185	11,772,475	179,619		2,470,772	108,371	39,613	6,013	
Central and Southeast Georges	132	634.2	5,703	11,617,572	3,293,767	105,920	23,245,878	16,046,865	107,756	1,930	943,826	21,899	72,342	14,457	
Southwest Georges	79	148.7	1,275	519,391	340,959	14,395	5,494,773	4,471,123	34,708	400	122,449	11,445	14,446	300	
Nantucket Shoals and Light-ship Grounds	67	112.9	565	11,715	104,090	24,185	221,402	267,971	4,865	930	4,845	95	242	1,040,005	
Off No Man's Land	30	93.0	291	375	140				90					3,388,035	
Rhode Island Shore	2	2.0	5											45,050	
Southern New England, unclassified	24	23.7	211	55,910	39,000	1,550	372,430	304,735	3,285		41,840	1,130	2,135		
Total	¹ 385	11,793.1	41,349	21,200,971	10,663,406	1,032,730	66,340,440	50,032,481	2,723,322	1,265,469	27,865,718	2,155,002	206,392	23,994,856	
Off Middle Atlantic States (Area XXIII):															
South	14	22.0	69											819,885	
Grand total	¹ 386	12,667.0	49,893	33,210,097	36,744,258	5,119,605	85,069,330	62,160,017	3,839,728	1,322,939	33,579,895	4,374,238	711,197	24,896,371	

¹ Exclusive of duplication.

Landings by fishing vessels at certain New England ports, 1941—Continued

SUMMARY: BY AREA—Continued

Area	Flounders						Swordfish	Rosefish	Tuna	Whiting	Wolffish	Scallops (meats)	Other	Total
	Gray sole	Lemon sole	Yellowtail	Blackback	Dab	Other								
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Newfoundland Banks (Area XX): Newfoundland Banks, unclassified														9,426
Off Nova Scotia (Area XXI):														
Banquereau	111,400	37,280	204,823	6,080	22,370		461	2,550,560			53,063		1,543	28,166,187
Middle Ground	11,045	125	78,713	3,155	7,110			7,510			14,027		405	3,399,881
Northeast Sable Island Bank	3,090	7,111	57,420	5,323	16,940			480			20,310		158	5,416,667
Southeast Sable Island Bank	12,620	850	1,000	75	3,060			8,450			13,945			4,572,369
Horseshoe Ground	350,795	2,357	189,940	260	16,630			25,410			133,222		94	13,000,081
Southwest Sable Island Bank	7,287	190	18,045	120	10,800		225	51,170			49,373		39	5,632,998
Emerald Bank	5,500	277	3,957		785			1,480			7,662		1,100	3,282,150
Central Nova Scotia		190									200			208,156
Eastern Browns (including La Have Bank)	19,420	3,065	945	345	4,377		105,561	82,000			45,617		50	5,650,135
Southern Nova Scotia	263,095	18,507	41,100	75	59,390	13,400	766	17,879,036		1,530	33,365		175	23,207,098
Western Browns	4,465	736	999	541	26,963		37,233	3,850			145,124		50	9,151,649
Western Nova Scotia	1,665				4,460			74,460			16,948			2,661,588
Nova Scotia, unclassified	1,522	38		800	800			22,350			3,020			524,121
Total	791,904	70,726	596,942	16,774	173,685	13,400	144,246	20,706,756		1,530	535,876		3,614	105,773,080

Off New England (Area XXII):

Eastern Maine.....	4,135							47,650									65,967
Central Maine.....	359,635	12,535	1,020	2,040	247,597	4,125		17,741,958		107,505	7,902		179,489				21,679,210
Western Maine.....	653,692	6,035	43,665	18,280	244,401	4,835		11,334,326	1,108	2,446,483	18,161		11,882				17,466,738
Eastern Massachusetts.....	360,620	10,780	557,315	230,703	650,755	1,600		2,269,266	143,549	16,875,099	57,838	349	199,893				59,474,107
Inner Grounds.....	1,312,878	7,455	29,170	3,480	375,295	6,380		69,735,607		236,500	30,702		5,887				77,262,839
Western Side South Channel.....	453,845	199,604	106,377	264,524	389,199	2,155		13,856,489	310	2,623,054	155,889	184,918	25,736				40,023,479
Eastern Side South Channel.....	394,952	513,179	250,492	163,737	1,433,738	250	189	3,377,750		60,318	72,627	68,252	36,813				36,028,667
Northern Edge and Northeast Peak of Georges.....	22,552	320,919	158,075	96,511	74,340	466	196,688	30,340		722	78,259	702,896	52,627				36,015,591
Central and Southeast Georges.....	63,953	841,866	890,428	278,417	66,756	504	116,037	15,250		3,840	74,374	480,280	8,571				58,312,488
Southwest Georges.....	8,177	352,079	142,512	104,472	14,825	4	16,575	9,730		60	11,932	11,979	2,532				11,699,276
Nantucket Shoals and Lightship Grounds.....	460	13,698	1,792,063	78,080	1,840	6,455	800	25,400		5,300	1,108	80,539	4,974				3,691,062
Off No Man's Land.....			600,285	6,750		800						215	1,331				3,998,021
Rhode Island Shore.....																	45,050
Southern New England, unclassified.....	4,615	33,795	26,900	11,495	5,760			202,263			2,130	61,008	800				1,170,781
Total.....	3,639,514	2,311,945	4,598,302	1,258,489	3,504,516	27,574	330,289	118,646,029	144,967	22,358,881	511,012	1,590,436	530,535				366,933,276
Off Middle Atlantic States (Area XXIII):																	
South.....													430				820,315
Grand total.....	4,431,418	2,382,671	5,195,244	1,275,263	3,678,201	40,974	474,535	139,352,785	144,967	22,360,411	1,046,888	1,590,436	534,579				473,536,097

NOTE.—The weight of salted fish landed has been converted to the equivalent of fresh fish as landed. The roman numerals appearing in the stub of the above table refer to the numbers given these regions by the North American Council on Fishery Investigations.

Newfoundland, Magdalen Islands, and Labrador, which are received in this country as products of American fisheries, are not included in the tables showing the landings at the three ports. Receipts from the treaty-coasts in 1941 consisted of salted cod, 1,011,800 pounds, valued at \$31,729, salted herring, 1,248,000 pounds, valued at \$86,327, and salted mackerel, 640,600 pounds, valued at \$22,477.

Beginning with the data for the year 1939, salted fish from the treaty-coasts of

FISHERIES OF THE MIDDLE ATLANTIC STATES

(AREA XXIII)¹

The most recent complete fishery statistics for the Middle Atlantic States (New York, New Jersey, Pennsylvania, and Delaware) are those collected for the year 1940 (Statistical Digest No. 4, "Fishery Statistics of the United States, 1940"). In that year the yield of the commercial fisheries amounted to 355,552,800 pounds, valued at \$7,650,957 to the fishermen, representing an increase of 27 percent in volume and 4 percent in value as compared with the catch in 1939. A summary of these fisheries and a summary of the shad fisheries of the Hudson River for 1941 appear in the following tables.

¹ This number was given to the area by the North American Council on Fishery Investigations. It should be explained that there are included in the records for this area, statistics for craft of which the principal fishing ports are in the area but which at times fish elsewhere. A notable example is the southern trawl fishery which extends into Area XXIV. It should be observed that data on persons engaged, gear and craft employed, and catch of seed-oysters are not included in the statistics of the fishery for market oysters and other species but description of the methods of collecting and compiling these statistics is given in the section in the latter part of this document, entitled, "Statistical Survey Procedure."

Fisheries of the Middle Atlantic States, 1940

SUMMARY OF CATCH

Product	New York		New Jersey		Pennsylvania	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	76,395,700	\$1,771,137	146,843,200	\$1,664,106	23,000	\$2,373
Shellfish, etc.	15,563,000	2,445,087	13,710,700	1,292,840		
Total	91,958,700	4,216,224	160,553,900	2,956,946	23,000	2,373

Product	Delaware		Total	
	Pounds	Value	Pounds	Value
Fish	101,512,600	\$389,489	324,774,500	\$3,827,105
Shellfish, etc.	1,504,600	85,925	30,778,300	3,823,852
Total	103,017,200	475,414	355,552,800	7,650,957

OPERATING UNITS: BY STATES

Item	New York	New Jersey	Pennsylvania	Delaware	Total
	Number	Number	Number	Number	Number
Fishermen:					
On vessels	888	1,206		572	2,666
On boats and shore:					
Regular	1,121	1,289		8	2,418
Casual	1,073	1,312	16	252	2,653
Total	3,082	3,807	16	832	7,737
Vessels:					
Steam	2			10	12
Net tonnage	372			543	915
Motor	171	175		24	370
Net tonnage	3,742	3,047		879	7,668
Sail	1	4		2	7
Net tonnage	6	121		48	175
Total vessels	174	179		36	389
Total net tonnage	4,120	3,168		1,470	8,758

Fisheries of the Middle Atlantic States, 1940—Continued

OPERATING UNITS: BY STATES—Continued

Item	New York	New Jersey	Pennsylvania	Delaware	Total
	Number	Number	Number	Number	Number
Boats:					
Motor.....	289	1,002		20	1,311
Other.....	1,398	1,117		114	2,629
Accessory boats.....	53	67		60	180
Apparatus:					
Purse seines:					
Mackerel.....	2				2
Length, yards.....	880				880
Menhaden.....	7	18		20	45
Length, yards.....	2,750	5,640		4,840	13,230
Other.....	1	8			9
Length, yards.....	400	2,760			3,160
Haul seines, common.....	68	80	4	36	188
Length, yards.....	12,936	7,904	875	9,680	31,395
Gill nets:					
Anchor.....		83			83
Square yards.....		58,560			58,560
Drift.....	401	1,315		29	1,745
Square yards.....	520,570	682,355		35,740	1,238,665
Runaround.....	3	31		4	38
Square yards.....	5,200	111,454		800	117,454
Stake.....	749	710		22	1,481
Square yards.....	126,288	270,951		2,520	399,759
Lines:					
Hand.....	21	130		2	153
Hooks.....	21	237		2	260
Trawl.....	1,033	395		1	1,429
Hooks.....	106,800	218,550		3,000	328,350
Troll.....		312			312
Hooks.....		312			312
Trot with baits or snoods.....		15		7	22
Baits or snoods.....		7,950		5,200	13,150
Trot with hooks.....	27	1			28
Hooks.....	3,875	150			4,025
Pound nets.....	132	193			325
Weirs.....		91			91
Stop nets:					
Square yards.....		45,475		555	46,030
Fyke nets, fish.....	622	731		95	1,448
Dip nets:					
Common.....	15	27		27	69
Drop.....		32			32
Drag nets:					
Yards at mouth.....	8				8
Otter trawls, fish.....	108	69		1	178
Yards at mouth.....	2,263	1,559		20	3,842
Traps, eel.....	77				77
Pots:					
Conch.....	240				240
Crab.....		10			10
Eel.....	1,439	1,747		175	3,361
Fish.....	3,550	12,697			16,247
Lobster.....	7,786	6,575		100	14,461
Harpoons.....	22				22
Spears.....	67	15			82
Dredges:					
Clam.....	29	71		14	114
Yards at mouth.....	28	77		16	121
Conch.....	8				8
Yards at mouth.....	8				8
Crab.....	10	79		14	103
Yards at mouth.....	19	104		19	142
Mussel.....	10				10
Yards at mouth.....	12				12
Oyster, common.....	98	164		14	276
Yards at mouth.....	112	204		17	333
Oyster, suction.....	1				1
Yards at mouth.....	2				2
Scallop.....	42				42
Yards at mouth.....	143				143
Tongs:					
Oyster.....	194	142		26	362
Other.....	1,149	384		3	1,536
Rakes:					
Oyster.....		8			8
Other.....	254	987			1,241
Forks:	120				120
Hoes:		117			117

Fisheries of the Middle Atlantic States, 1940—Continued

CATCH: BY STATES

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives.....	61,600	\$1,145	34,700	\$575					220,700	\$3,141
Amberjack.....	35,100	1,053							35,100	1,053
Anchovies.....	5,700	114							5,700	114
Angelfish.....			400	4					400	4
Bluefish.....	25,500	4,036	104,800	8,421					130,300	12,457
Bonito.....	421,000	14,741	1,503,800	37,894					1,924,800	52,635
Butterfish.....	4,953,100	181,604	3,413,200	103,103					8,366,300	284,707
Cabio or crab eater.....			100	5					100	5
Carp.....	147,300	8,342	218,700	15,872	3,300	\$178	19,800	1,346	389,100	25,738
Catfish and bullheads.....	24,900	2,424	99,700	4,563			9,100	621	133,700	7,608
Cod.....	2,716,100	152,891	888,600	41,485			33,300	2,250	3,638,000	196,626
Crevalle.....			100	1					100	1
Croaker.....	402,300	12,071	4,367,200	75,694			410,700	9,040	5,180,200	96,805
Cunner.....	2,800	56							2,800	56
Cusk.....	100	2							100	2
Drum:										
Black.....			3,500	53					3,500	53
Red or redfish.....			3,000	59					3,000	59
Eels:										
Common.....	358,300	35,619	211,800	17,418			18,000	1,987	588,100	55,024
Conger.....	7,900	158	25,300	323					33,200	481
Flounders:										
Gray sole.....	26,500	1,273	4,100	66					30,600	1,339
Lemon sole.....	653,800	60,243							653,800	60,243
Yellowtail and dab.....	6,260,000	145,179	135,900	3,094					6,395,900	148,273
Blackback.....	1,798,300	91,433	104,900	3,465			5,600	448	1,908,800	95,346
Fluke.....	1,814,400	151,600	3,554,300	229,621			3,000	330	5,371,700	381,551
Unclassified.....	1,100	25							1,100	25
Frigate mackerel.....	11,100	330	60,600	606					71,700	936
Goosefish.....	13,400	536	8,400	63					21,800	599
Grayfish.....			51,800	1,009					51,800	1,009
Groupers.....			800	36					800	36
Haddock.....	7,742,000	323,294	700	16					7,742,700	323,310
Hake.....	184,900	5,357	110,600	2,136					295,500	7,493
Halibut.....	24,900	3,188							24,900	3,188
Herring, sea.....	36,200	724	1,888,600	15,619					1,924,800	16,343
Hickory shad.....			4,400	44					4,400	44
Kingfish or "king mackerel".....			33,800	1,350					33,800	1,350
King whiting or "kingfish".....	82,100	3,984	63,600	2,334					145,700	6,318
Mackerel.....	1,560,800	58,780	2,509,800	80,763					4,070,600	145,543
Menhaden.....	36,957,100	127,699	107,988,000	366,847			100,424,000	346,960	245,369,100	841,506
Mullet.....			1,700	51			21,600	452	23,300	503
Pike or pickerel.....	300	21							300	21

	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	
Pollock	188,100	3,995	5,000	124								158,700	6,000										
Roadrun	64,000	994	200	2								64,000	994										
Ribbedfish			4,000	79								4,000											
Small perch	2,462,700	66,790	3,313,900	55,725								4,770,000	132,000										
Strip	374,400	21,454	2,554,900	129,777								2,898,700	131,000										
Sea loach	58,000	1,154	104,100	1,091								102,100	2,946										
Sea roach	1,382,200	70,904	3,364,400	261,655						10,100	1,585	4,708,300	237,115										
Shad	11,200	143	16,800	329								31,000	3,033										
Shark	162,000	1,770	104,100	711								102,000	1,770										
Silverhead	88,300	996	10,000	900								10,000	1,767										
Snowflake			200	16								200	16										
Sprucehead	8,000	181	165,800	3,708								277,700	4,666										
Spot	1,567,400	84,714	2,682,400	85,215								4,791,600	104,000										
St. Pierre fish			201,100	2,269								301,100	2,200										
Striped bass	108,000	2,474	121,800	27,402								241,700	5,851										
Sidwinder	3,200	1,176	10,100	1,088								18,000	1,204										
Sea bream	12,700	468	17,500	615						610		41,900	1,003										
Squid	1,000	36										1,100	36										
Sweetfish	1,700	65										19,800	666										
Wardfish	2,700	93										92,300	11,561										
Wardfish	42,000	1,800	47,000	1,958								67,600	2,878										
Yellow perch	258,200	4,015	330,000	3,644							1,000	617,200	8,120										
Yarrow	2,500	10,011										53,500	35,013										
Yarrow	2,000	18	100	2								2,100	100										
Yarrow	15,000	575	17,400	517								31,900	1,213										
Yarrow	2,000	75	2,400	75								25,000	850										
Yarrow	42,000	3,000	18,700	1,250								27,100	3,734										
Yarrow	2,210,000	4,515	5,882,000	45,097								8,355,000	108,204										
Yarrow	8,000	117	3,000	396								4,900	190										
Yarrow	2,200	75										6,900	316										
Total	50,045,200	1,711,117	10,841,200	1,664,107						21,400	2,373	101,512,900	1,892,489										3,927,106
Crab																							
Blue crab	60,000	500	500,000	2,221								277,500	2,055										41,916
Blue crab			1,500,000	50								1,900,000	4,141										41,916
Blue crab			5,000	2,000								75,300	3,410										139,500
Blue crab			4,000	1,200								504,200	129,500										129,500
Blue crab			1,000	300								3,300	344										344
Blue crab												158,000	32,000										32,000

See first column of page 1 of Volume

Fisheries of the Middle Atlantic States, 1940--Continued

CATCH: BY STATES--Continued

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC. - continued										
Clams:										
Hard, public ²	2,171,400	\$391,510	2,150,260	\$308,504			24,000	\$3,075	4,345,600	\$703,089
Hard, private ²	636,300	87,290	216,100	31,597			9,400	1,305	861,800	120,192
Razor	1,200	36							1,200	36
Soft, public ³	436,900	36,495	780,400	47,357					1,217,300	83,852
Surf or skimmer ⁴	660,000	30,370	573,400	24,801					1,233,400	55,171
Conchs	237,200	9,610	33,500	648					270,700	10,258
Mussels, sea	250,800	13,617					11,700	450	262,500	14,067
Oysters, market: ⁵										
Public, spring	100,500	27,178	1,600	168			350,000	20,000	452,100	47,346
Public, fall	165,500	46,447	200,800	23,451			350,000	20,000	716,300	89,898
Private, spring	2,671,400	524,252	182,800	34,848					2,854,200	559,100
Private, fall	4,129,800	805,191	5,556,000	653,143			274,200	27,227	9,960,600	1,485,561
Scallops:										
Bay	19,300	8,345							19,300	8,345
Sea ⁶	2,184,400	317,073	67,500	13,518					2,251,900	330,591
Squid	1,470,700	31,002	1,149,400	19,825					2,620,100	50,827
Turtles:										
Green			900	9					900	9
Hawksbill			500	5					500	5
Loggerhead	600	10	4,400	44					5,000	54
Snapper	2,500	100	4,200	304			4,600	328	11,300	732
Bloodworms	3,100	3,800							3,100	3,800
Sandworms	8,900	8,610							8,900	8,610
Total	15,563,000	2,445,087	13,710,700	1,292,840			1,504,600	85,925	30,778,300	3,823,852
Grand total	91,958,700	4,216,224	160,553,900	2,956,946	23,000	\$2,373	103,017,200	475,414	355,552,800	7,650,975

¹ Statistics on hard crabs used in this table are based on weights of 4 pounds per dozen.

² Statistics on hard clams used in this table are based on yields of 8 pounds of meats per standard bushel in New York; 8.70 pounds in New Jersey; and 8.18 pounds in Delaware.

³ Statistics on soft clams used in this table are based on yields of 16 pounds of meats per standard bushel in New York, and 19.05 pounds in New Jersey.

⁴ Statistics on surf or skimmer clams used in this table are based on yields of 12 pounds of meats per standard bushel in New York; and 12.54 pounds in New Jersey.

⁵ Statistics on oysters used in this table are based on yields of 7.5 pounds of meats per standard bushel in New York; 6.65 pounds in New Jersey; and 6.68 pounds in Delaware.

⁶ Statistics on sea scallops used in this table are based on yields of 6 pounds of meats per standard bushel in New York, and 5.71 pounds in New Jersey.

NOTE.—Data on the yield of shellfish meats per bushel are based on United States Standard Bushel of 2150.4 cubic inches capacity. The above table includes the catch made by Middle Atlantic craft in the southern trawl fishery as well as other fisheries in the South Atlantic.

The seed-oyster fishery in the Middle Atlantic States was prosecuted in New York, New Jersey, and Delaware. In New York 59 fishermen using 7 motor vessels, 11 motorboats, 11 other boats, 14 dredges, and 24 tongs, took 3,540 bushels of seed oysters, valued at \$3,715, from public beds, and 58,680 bushels, valued at \$69,080, from private beds. All of the persons, craft, and gear engaged in taking seed oysters in New York are duplicated among those fishing for market oysters or other species. In New Jersey 990 fishermen using 71 motor vessels, 12 sail vessels, 117 motor boats, 13 other boats, 166 dredges, 129 tongs, and 1 rake, took 785,970 bushels of seed oysters, valued at \$313,945, from public beds. Of the total number of persons fishing for seed oysters in New Jersey, 932 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 48 motor vessels, 3 sail vessels, 81 motor boats, 9 other boats, 102 dredges, and 100 tongs. In Delaware 49 fishermen using 6 motor vessels, 1 sail vessel, and 14 dredges, took 49,000 bushels of seed oysters, valued at \$12,250 from public beds. Of the total number of persons fishing for seed oysters in Delaware, 44 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 6 motor vessels, 1 sail vessel, and 14 dredges.

Industries related to the fisheries of the Middle Atlantic States

OPERATING UNITS, SALARIES, AND WAGES, 1940

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Transporting:					
Persons engaged:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	150	17			167
On boats.....	16	32			48
Total.....	166	49			215
Vessels, motor.....	33	7			40
Total net tonnage.....	693	103			796
Boats.....	5	27			32
Wholesale and manufacturing:					
Establishments.....	190	100	40	9	339
Persons engaged:					
Proprietors.....	74	73	38	7	192
Salaried employees.....	606	160	73	17	856
Wage earners:					
Average for season.....	2,401	1,732	301	398	4,832
Average for year.....	2,008	1,252	278	135	3,673
Paid to salaried employees.....	\$1,557,407	\$384,660	\$158,133	\$24,624	\$2,124,824
Paid to wage earners.....	\$2,961,344	\$1,210,856	\$352,829	\$86,701	\$4,611,730
Total salaries and wages.....	\$4,518,751	\$1,595,516	\$510,962	\$111,325	\$6,736,554
Fishermen manufacturing.....	214	73			287

PRODUCTS MANUFACTURED

Item	New York		New Jersey		Pennsylvania		Delaware	
	<i>Quantity</i>	<i>Value</i>	<i>Quantity</i>	<i>Value</i>	<i>Quantity</i>	<i>Value</i>	<i>Quantity</i>	<i>Value</i>
By manufacturing establishments:								
Buffalofish, smoked								
pounds.....	315,000	\$68,700						
Butterfish, smoked.....	290,700	56,740	65,350	\$22,172	(1)	(1)		
Carp, smoked.....	40,000	12,900	52,000	21,250	(1)	(1)		
Chubs, ciscoes, and tullibees, smoked.....	1,710,000	477,000	(1)	(1)	(1)	(1)		
Cod:								
Fresh filets ²	1,455,000	260,400	401,300	75,835				
Smoked filets.....	64,600	12,920						
Eels, smoked.....	100,000	28,100	(1)	(1)				
Flounders, fresh filets ²								
pounds.....	5,176,072	758,942	829,000	172,300				
Haddock:								
Fresh filets ²	1,312,400	223,280	1,617,500	342,350				
Smoked filets.....	113,100	17,274	(1)	(1)	(1)	(1)		
Herring, sea:								
Smoked bloaters.....			(1)	(1)	480,000	\$72,000		
Kippered.....	63,000	11,600			(1)	(1)		
Lake trout, smoked.....	67,000	19,700	(1)	(1)	(1)	(1)		
Mackerel, smoked.....	49,000	9,250	(1)	(1)	(1)	(1)		
Paddlefish or spoonbill cat, smoked.....	125,000	53,850						
Pollock, fresh filets ²	70,000	9,700	(1)	(1)				
Salmon:								
Smoked.....	5,120,000	1,697,500	426,000	164,400	(1)	(1)		
Kippered.....	430,000	167,900	(1)	(1)	(1)	(1)		
Caviar, canned ²								
standard cases.....	3,062	61,455						
Shad, smoked.....	70,000	9,000			(1)	(1)		
Sturgeon, smoked.....	417,000	322,250	(1)	(1)				
Whitefish:								
Smoked.....	1,750,000	618,500	150,000	44,300	(1)	(1)		
Caviar, canned ²								
standard cases.....	780	30,929						
Clams, hard:								
Fresh-shucked gallons.....					7,135	15,073		
Chowder, canned ²								
standard cases.....	(1)	(1)	292,084	1,111,220				
Marine-shell products:								
Buttons ² gross.....	929,024	722,932	2,269,198	2,178,353	(1)	(1)		
Novelties ²	(1)	(1)		76,938				

Industries related to the fisheries of the Middle Atlantic States—Continued

PRODUCTS MANUFACTURED—Continued

Item	New York		New Jersey		Pennsylvania		Delaware	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments—continued								
Oysters, fresh-shucked gallons	249,450	\$523,625	655,958	\$1,160,788	88,779	\$174,731	44,000	\$62,800
Oyster-shell products:								
Poultry feed ² tons			6,764	58,874				
Lime ² do			2,375	8,958				
Unclassified products:								
Packaged fish, fresh and frozen ² pounds	134,000	\$34,880	14,300	\$3,015				
Cured do	(³)	(³)	1,428,900	\$482,359	(³)	(³)		
Canned ²								
standard cases	24,263	\$335,205	(³)	(³)				
Byproducts ²		700,040		2,004,436	(³)	(³)		\$1,373,209
Miscellaneous ¹¹		15,410		15,004		975,531		
Total		7,259,982		7,942,552		1,237,335		1,436,009
By fisherman:								
Alewife roe, salted pounds			1,200	204				
Eels, smoked do	15,000	4,500						
Clams, surf, fresh-shucked gallons			468,400	181,744				
Scallops:								
Bay, fresh-shucked do	2,163	6,579						
Sea, fresh-shucked do	251,600	317,269	233	395				
Crab, kitg, meal tons			63	2,474				
Total		328,348		184,517				
Grand total		7,588,330		8,127,369		1,237,335		1,436,009

¹ This item has been included under "Unclassified products."

² Data are for 1941.

³ Includes fresh fillets of hake; frozen fillets of cod and flounder; and frozen steaks of halibut.

⁴ Includes fresh fillets of pollock and frozen fillets of cod and rosefish.

⁵ This item has been included under "Miscellaneous."

⁶ Includes smoked chubs, ciscoes, tullibees, eels, haddock fillets, finnan haddie, sea herring, bloaters, lake trout, mackerel, sturgeon, thimble-eyed mackerel, tuna, and whiting; dry-salted boneless cod; spiced sea herring; and kippered salmon.

⁷ Includes canned sturgeon caviar, pickled eels, fish paste, oyster soup, mussels, shellfish newberg and bouillon, and hard clam, turtle, and terrapin products.

⁸ Includes halibut, black cod, and mixed liver oils; menhaden acid and dry scrap, meal, and oil; marine-shell novelties; and miscellaneous fish meal.

⁹ Includes mackerel, shark, tuna, and mixed liver oils; menhaden meal and oil; and king crab dry scrap.

¹⁰ Includes menhaden acid and dry scrap, meal, and oil; and king crab dry scrap.

¹¹ Both 1940 and 1941 data have been included in this item.

¹² Includes finnan haddie, smoked lingcod; and turtle oil.

¹³ Includes fresh-shucked surf clams; canned fish dinners, and hard and soft clam products; and swordfish liver oil.

¹⁴ Includes smoked butterfish, carp, chubs, ciscoes, tullibees, haddock, haddock fillets, lake trout, mackerel, sablefish, salmon, shad, and whitefish; kippered salmon and sea herring; marine-shell buttons; and miscellaneous dry scrap and meal.

NOTE.—Unless otherwise indicated data are for 1940. The total value of the manufactured products for the Middle Atlantic States was as follows: By manufacturing establishments, \$17,875,878, and by fishermen, \$513,165. Some of the above products may have been manufactured from fishery products imported from another State or a foreign country, therefore they cannot be correlated directly with the catch within the State. Of the total number of persons engaged on transporting craft, 160 men have been included as fishermen and among the total number of persons engaged in the preparation of fishermen's prepared products, 273 have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

SHAD FISHERY OF THE HUDSON RIVER

The shad fishery of the Hudson River in 1941 was prosecuted by 650 fishermen who used 290 boats, 6 haul seines, 148 drift gill nets, and 184 stake gill nets. The total commercial catch amounted to 933,558 shad, having a weight of 3,133,500 pounds, and a value to the fishermen of \$198,630. This was an increase of less than 1 percent in the number of shad, but 9 percent in their value, as compared with the returns for 1940. The average price per pound received by the fishermen was about 6 cents, or approximately the same as in 1940.

Stake gill nets accounted for 74 percent of the weight of shad taken; drift gill nets, 26 percent; and haul seines less than 1 percent.

Statistics of the catch of shad in the Hudson River also are included in the catch data for New York and New Jersey.

Shad fishery of the Hudson River, 1941

Item	New York			New Jersey			Total		
OPERATING UNITS									
Fishermen:									
On boats and shores:	Number			Number			Number		
Regular	20			57			77		
Casual	462			111			573		
Total	482			168			650		
Boats, other than motor	231			59			290		
Apparatus:									
Haul seines	6			.....			6		
Length, yards	899			.....			899		
Gill nets:									
Drift	148			2			150		
Square yards	430,094			2,912			432,106		
Stake	129			55			184		
Square yards	25,142			69,399			94,511		
SHAD CAUGHT									
	Num-ber	Pounds	Value	Num-ber	Pounds	Value	Num-ber	Pounds	Value
By haul seines	1,422	4,600	\$330	.....	.....	.....	1,422	4,600	\$330
By drift gill nets	257,112	822,900	61,124	812	3,100	\$307	257,924	825,999	61,435
By stake gill nets	156,993	513,600	29,583	517,699	1,739,400	197,232	674,212	2,303,600	138,565
Total	415,137	1,341,000	91,041	518,421	1,792,500	197,539	933,558	3,133,500	198,630

FISHERIES OF THE CHESAPEAKE BAY STATES
(AREA XXIII)*

The yield of the commercial fisheries of the Chesapeake Bay States (Maryland and Virginia) during 1941 amounted to 328,155,200 pounds, valued at \$9,120,803 to the fishermen, representing an increase of 2 percent in volume and 22 percent in value as compared with the catch in the previous year. These fisheries gave employment to 13,500 fishermen as compared with 14,269 in 1940.

In 1940, the latest year in which a complete survey was made, there were 525 fishery wholesale and manufacturing establishments, which employed 12,331 persons, and paid \$3,552,827 in salaries and wages.

*This is the number given to this area by the North American Council of Fishery Investigations. It should be explained that there may be included in the records for this area, statistics for craft of which the principal fishing ports are in the area but which at times fish elsewhere. Data on the operating units and catch of the fisheries of the Chesapeake Bay States have been taken largely from statistics collected by the State fishery agencies of Maryland and Virginia. Supplementary surveys, compilations, and analyses, have been made by agents of this Service in order that the figures may be presented in a manner comparable with those of other sections. It should be observed that the persons engaged, gear and craft employed, and the catch of the seed oyster fishery are not included among the statistics of the fishery for market oysters and other species but are included in a footnote to the tables showing the catch of the Chesapeake Bay States. A description of the methods of collecting and compiling these statistics are given in the section in the latter part of this document entitled, "Statistical Survey Procedure."

Fisheries of the Chesapeake Bay States, 1941

SUMMARY OF CATCH

Product	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	15,615,100	\$483,211	243,939,000	\$2,538,842	259,554,100	\$3,022,053
Shellfish, etc.	31,860,500	2,895,533	36,740,600	3,203,217	68,601,100	6,098,750
Total	47,475,600	3,378,744	280,679,600	5,742,059	328,155,200	9,120,803

OPERATING UNITS: BY STATES

Item	Maryland	Virginia	Total
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	660	1,202	1,962
On boats and shore:			
Regular	2,547	4,262	6,809
Casual	2,218	2,511	4,729
Total	5,425	8,075	13,500
Vessels:			
Steam		8	8
Net tonnage		360	360
Motor	31	169	200
Net tonnage	241	2,899	3,140
Sail	124	1	125
Net tonnage	1,445	21	1,466
Total vessels	155	178	333
Total net tonnage	1,686	3,280	4,966
Boats:			
Motor	2,125	2,548	4,673
Other	1,139	2,684	3,823
Accessory boats		78	78
Apparatus:			
Purse seines, menhaden		26	26
Length, yards		8,780	8,780
Haul seines	132	130	262
Length, yards	32,400	53,430	85,830

Fisheries of the Chesapeake Bay States, 1941—Continued

OPERATING UNITS: BY STATES—Continued

Item	Maryland		Virginia		Total	
	Number		Number		Number	
Gill nets:						
Anchor.....	273				273	
Square yards.....	46,780				46,780	
Drift.....	239		298		537	
Square yards.....	144,999		197,243		342,242	
Stake.....	3,144		4,891		8,035	
Square yards.....	318,751		221,700		540,451	
Lines:						
Hand.....	40		45		85	
Hooks.....	40		90		130	
Trot, with baits or snoods.....	1,296		844		2,140	
Baits or snoods.....	727,040		418,800		1,145,840	
Pound nets.....	505		1,515		2,020	
Fyke nets:						
Crab.....			538		538	
Fish.....	1,248		875		2,123	
Dip nets.....	341		314		655	
Otter trawls.....	17		22		39	
Yards at mouth.....	356		608		964	
Pots:						
Crab.....	575		9,389		9,964	
Eel.....	11,687		812		12,499	
Fish.....	250		385		635	
Scrapes.....	195		70		265	
Yards at mouth.....	195		67		262	
Dredges:						
Crab.....			134		134	
Yards at mouth.....			215		215	
Oyster.....	400		84		484	
Yards at mouth.....	435		137		572	
Tongs:						
Oyster.....	3,404		2,176		5,580	
Other.....	54		282		327	
Rakes:						
Oyster.....			255		255	
Other.....	46		255		301	

CATCH: BY STATES

Species	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives.....	5,061,000	\$67,776	11,951,000	\$160,133	17,012,000	\$227,909
Black bass.....	40,000	4,101			40,000	4,101
Bluefish.....	15,500	1,606	22,200	2,567	37,700	4,173
Bonito.....	44,100	1,452	155,900	9,281	200,000	10,733
Butterfish.....	297,000	7,617	2,383,900	52,232	2,680,900	59,849
Cabio or crab eater.....	1,000	40			1,000	40
Carp.....	260,300	12,664	429,900	18,304	690,200	30,968
Catfish and bullheads.....	506,400	20,195	496,400	23,170	1,002,800	43,365
Cod.....	600	38	300	15	900	53
Crappie.....	1,200	55			1,200	55
Croaker.....	4,405,800	79,590	28,434,600	605,491	32,840,400	685,081
Dolphin.....	100	12			100	12
Drum:						
Black.....	16,800	137	35,500	546	52,300	683
Red or redfish.....	2,300	76	40,400	754	42,700	830
Eels:						
Common.....	153,600	9,812	152,800	15,265	306,400	25,077
Conger.....	600	12	8,900	193	9,500	205
Flounders.....	182,700	15,146	763,800	59,541	946,500	74,687
Gizzard shad.....	14,800	284	115,400	2,771	130,200	3,055
Hake.....	900	15	90,800	1,719	91,700	1,734
Harvestfish or "starfish".....	5,000	190	63,600	1,224	68,600	1,414
Herring, sea.....			1,100	24	1,100	24
Hickory shad.....	22,000	434	174,200	3,165	196,200	3,599
Hogchoker.....	1,500	15			1,500	15
King whiting or "kingfish".....	17,200	519	34,600	1,161	51,800	1,680
Mackerel.....	70,200	2,315	572,900	28,604	643,100	30,919
Menhaden.....	126,000	490	182,096,700	954,016	182,222,700	954,506
Mullet.....	12,500	521	117,400	3,553	129,900	4,074
Pigfish.....			2,500	54	2,500	54
Pike or pickerel.....	55,900	7,441	100	15	56,000	7,456
Sand perch.....	1,600	118	5,800	332	7,400	450
Scup or porgy.....	120,300	2,005	2,512,300	59,730	2,632,600	61,735

Fisheries of the Chesapeake Bay States, 1941—Continued

CATCH: BY STATES—Continued

Species	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued						
Sea bass	66,300	\$5,106	375,200	\$17,232	441,500	\$22,338
Sea robin			13,900	277	13,900	277
Shad	534,200	44,901	2,125,300	197,869	2,659,500	242,770
Sharks	200	3	10,700	293	10,900	296
Skates	100	2	2,700	14	2,800	16
Spanish mackerel	1,500	130	22,800	2,793	24,300	2,923
Spot	140,400	5,490	1,818,200	49,309	1,958,600	54,799
Squeteague or "sea trout":						
Gray	1,218,800	40,579	7,232,100	160,027	8,450,900	200,606
Spotted	26,000	1,418	92,300	8,789	118,300	10,207
Squirrel hake			4,800	51	4,800	51
Striped bass	1,223,300	106,728	865,200	78,063	2,088,500	184,821
Surgeon	500	94	12,500	1,823	13,200	1,917
Suckers	5,900	312	2,200	88	8,100	400
Sunfish	10,200	230			10,200	230
Swallowfish			12,500	375	12,500	375
Tautog	2,100	42	300	5	2,400	47
Thimble-eyed mackerel			3,200	64	3,200	64
Towfish			100	5	100	5
Tom cod			9,500	118	9,500	118
White perch	732,500	31,022	244,400	10,239	976,900	41,261
Whiting	3,000	55	407,200	6,173	410,200	6,228
Yellow perch	213,000	12,423	20,900	1,345	233,900	13,768
Total	15,615,100	483,211	243,930,000	2,538,842	259,554,100	3,022,053
SHELLFISH, ETC.						
Crawls:						
Hard	11,975,400	406,592	15,716,700	456,996	27,692,100	863,498
Soft and spears	836,300	107,125	1,709,500	217,017	2,545,800	324,142
Lobster	1,000	159	200	23	1,200	173
Clams: ¹						
Hard, blue	110,700	25,056	1,512,800	331,155	1,623,500	356,211
Hard, private			50,000	7,500	50,000	7,500
Conchs	44,700	670	2,000	15	46,700	685
Mussels, sea			915,000	45,750	915,000	45,750
Oysters, market: ²						
Public, spring	6,234,300	761,805	1,627,900	237,816	7,862,200	999,621
Public, fall	12,047,000	1,524,312	2,472,200	363,971	14,519,200	1,888,283
Private, spring	327,200	49,891	5,652,400	710,462	5,979,600	751,353
Private, fall	207,900	25,991	6,869,700	829,371	7,077,600	855,362
Squid	70,500	1,031	212,200	3,231	282,700	4,262
Terrapin, diamond-back	5,500	2,000			5,500	2,000
Total	31,860,500	2,895,533	36,740,600	3,203,217	68,601,100	6,098,750
Grand total	47,475,600	3,378,744	280,670,600	5,742,059	328,155,200	9,120,803

¹ Statistics on hard clams used in this table are based on yields of 6.11 pounds of meats per bushel in Maryland, and 5.73 pounds of meats in Virginia.

² Statistics on market oysters used in this table are based on yields of 4.64 pounds of meats per bushel in Maryland, and 4.44 pounds of meats in Virginia.

NOTE.—Data on the yield of shellfish meats per bushel are based on U. S. Standard Bushels of 2,150.4 cubic inches capacity. Prior to 1938 yields were based on bushels of the size prescribed by individual State regulations. The seed oyster fishery in the Chesapeake Bay States was prosecuted only in Virginia where 892 fishermen, using 26 motor vessels, 297 motor boats, 43 other boats, and 716 tongs, took 1,240,877 bushels of seed oysters, valued at \$267,222 from public beds. Of the total number of persons fishing for seed oysters 766 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 7 motor vessels, 237 motor boats, 37 other boats, and 391 tongs.

Fisheries of the Chesapeake Bay States, 1941—Continued

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS, 1941

Product	Maryland		Virginia		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:						
Hard..... number.....	35,926,200	\$408,502	47,150,100	\$458,908	83,076,300	\$863,408
Soft and peelers..... do.....	3,345,200	107,125	6,839,000	217,017	10,184,200	324,142
Clams:						
Hard, public..... bushels.....	18,118	25,056	264,014	331,155	282,132	356,211
Hard, private..... do.....			13,089	7,500	13,089	7,500
Conchs..... do.....	3,725	670	167	15	3,892	685
Mussels, sea..... do.....			91,500	45,750	91,500	45,750
Oysters, market:						
Public, spring..... do.....	1,343,599	761,805	366,644	237,816	1,710,243	999,621
Public, fall..... do.....	2,596,336	1,524,312	556,802	363,971	3,153,138	1,888,283
Private, spring..... do.....	70,517	40,891	1,273,063	710,462	1,343,580	751,353
Private, fall..... do.....	44,806	25,991	1,547,230	829,371	1,592,036	855,362

NOTE.—Bushels as shown above represent U. S. Standard Bushels of 2,150.4 cubic inches capacity. Prior to 1938, data on bushels of shellfish were based on bushel measures of the size prescribed by individual State regulations.

Industries related to the fisheries of the Chesapeake Bay States

OPERATING UNITS, SALARIES, AND WAGES, 1940

Item	Maryland	Virginia	Total
Transporting:	<i>Number</i>	<i>Number</i>	<i>Number</i>
Persons engaged.....	269	754	1,023
Vessels, motor.....	135	409	544
Net tonnage.....	1,869	3,643	5,512
Wholesale and manufacturing:			
Establishments.....	282	243	525
Persons engaged:			
Proprietors.....	245	263	508
Salaried employees.....	204	174	378
Wage earners:			
Average for season.....	5,507	5,918	11,445
Average for year.....	2,471	2,079	4,550
Paid to salaried employees.....	\$213,890	\$281,752	\$495,642
Paid to wage earners.....	\$1,747,218	\$1,309,967	\$3,057,185
Total salaries and wages.....	\$1,961,108	\$1,591,719	\$3,552,827
Fishermen manufacturing.....	108		108

Industries related to the fisheries of the Chesapeake Bay States—Continued

PRODUCTS MANUFACTURED

Item	Maryland		Virginia	
	Quantity	Value	Quantity	Value
By manufacturing establishments:				
Alewives:				
Salted:				
Corned	pounds	(1)	2,179,300	\$53,196
Corned with roe	do		62,700	3,874
Pickled ²	do	2,406,150	\$84,371	2,445,350
Tight-pack out	do		290,100	12,698
Canned ³	standard cases	37,363	139,705	4,605
Roe, canned ³	do	16,385	132,662	22,609
Dry scrap ³	tons			934
Oil ³	gallons			33,407
Butterfish, smoked	pounds	79,000	19,750	
Chubs, muskies, and billies, smoked	do	186,000	58,100	
Craoker, fresh filets ⁴	do			290,628
Eels, smoked	do	23,000	6,625	
Flounder, fresh filets ⁴	do			64,330
Herring, sea, smoked	do	48,000	5,600	
King whiting or "kingfish," fresh filets ⁴	do			35,900
Menhaden:				
Dry scrap ³	ton-			20,557
Oil ³	gallons			1,350,322
Sea bass, fresh filets	pounds			40,000
Soup, fresh filets ⁴	do			15,500
Squeteague, gray, fresh filets ⁴	do			360,500
Whitefish, smoked	do	33,500	11,725	
Crabs, hard, meat, packaged, fresh-looking	do	2,050,280	726,339	1,891,237
Clams, hard, chowder, canned ⁵	standard cases	26,247	89,086	
Mussels, sea, steamed and shucked	gallons			901,975
Oysters:				
Fresh-shucked	do	2,439,135	2,741,365	2,191,958
Oyster-shell products:				
Poultry feed ⁶	tons	43,503	278,219	29,311
Lime, "unburned" ⁷	do	33,886	83,001	27,187
Unclassified products:				
Packaged ⁸	pounds			4 14,450
Smoked	do	249,800	86,400	9 9,550
Canned ³	standard cases	6 249,864	6 694,342	(1)
Dry scrap and meal ³	tons	(1)	(1)	7 79,930
Miscellaneous				8 61,199
Total			6,356,267	6,329,553
By fishermen:				
Alewives:				
Corned	pounds	5,800	215	
Pickled	do	80,000	2,400	
Eels, salted	do	122,620	10,551	
Hogchoker, salted	do	3,000	140	
Total		211,420	13,306	
Grand total			6,369,593	6,329,553

¹ The production of this item has been included under "Unclassified products."

² This item is usually an intermediate product and although included in the total may be shown in its final stage of processing in this or another State.

³ Data are for 1941.

⁴ Includes fresh-shucked hard clams and fresh filets of haddock, hake, and sea robin.

⁵ Includes smoked alewives, carp, sablefish, salmon, sturgeon, and lake trout.

⁶ Includes canned shad, shad roe, oyster soup, oyster stew, shrimp soup, fish paste, shellfish paste, terrapin products, and cat and dog food.

⁷ Includes hard crab and miscellaneous dry scrap and meal.

⁸ Includes corned alewives, hard crab dry scrap, and marine-shell buttons and novelties. Both 1940 and 1941 data have been included in this item.

⁹ Includes "burned" oyster-shell lime and canned crab meat and herring.

NOTE.—Unless otherwise indicated, data are for 1940. The total value of manufactured products in the Chesapeake Bay States was as follows: By manufacturing establishments, \$12,685,840 and by fishermen, \$13,306. Some of the above products may have been imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. Of the total number of persons engaged on transporting vessels, 967 have been included as fishermen, and among the total number of persons engaged in the preparation of fishermen's prepared products all have been included as fishermen. This should be considered when computing the total number of persons in fishery industries exclusive of duplication.

MARYLAND

Fisheries of Maryland, 1941

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets			Lines		Pounds nets
		Anchor	Drift	Stake	Hand	Trot with baits or snoods	
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On boats and shore:							
Regular.....	250	37	37	129	10	770	300
Casual.....	170	10	162	99		273	129
Total.....	420	47	199	228	10	1,043	429
Boats:							
Motor.....	105	26	55	99	10	939	157
Other.....	143	13	93	95		102	189
Apparatus:							
Number.....	132	273	239	3,144	40	1,296	505
Length, yards.....	32,400						
Square yards.....		46,780	144,999	318,751			
Hooks, baits, or snoods.....					40	727,040	

Item	Fyke nets, fish	Dip nets	Otter trawls, fish	Pots		
				Crab	Eel	Fish
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Fishermen:						
On vessels.....			21			
On boats and shore:						
Regular.....	48	218	18	14	102	2
Casual.....	72	123		4	38	
Total.....	120	341	39	18	140	2
Vessels, motor:			8			
Net tonnage.....			87			
Boats:						
Motor.....	44	1	9	14	99	1
Other.....	65	340		3	29	
Apparatus:						
Number.....	1,248	341	17	575	11,687	250
Yards at mouth.....			356			

Fisheries of Maryland, 1941—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Scrapes	Dredges, oyster	Tongs		Rakes, other than for oysters	By hand, other than for oysters	Total, ex- clusive of duplication
			Oyster	Other			
	Number	Number	Number	Number	Number	Number	Number
Fishermen:							
On vessels.....		602	37				660
On boats and shore:							
Regular.....	110	128	2,161	25	16	22	2,547
Casual.....	98		1,206	20	30		2,218
Total.....	208	730	3,404	45	46	22	5,425
Vessels:							
Motor.....		5	18				31
Net tonnage.....		44	110				241
Sail.....		124					124
Net tonnage.....		1,445					1,445
Total vessels.....		129	18				155
Total net tonnage.....		1,489	110				1,686
Boats:							
Motor.....		36	1,578	12	15		2,125
Other.....	98	55	140	40	15		1,139
Apparatus:							
Number.....	195	400	3,404	45	46		
Yards at mouth.....	195	435					

CATCH: BY GEAR

Species	Haul seines		Gill nets					
			Anchor		Drift		Stake	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives.....	52,000	\$979			6,300	\$92	53,700	\$1,031
Black bass.....	26,200	2,843			100	10		
Butterfish.....	1,600	37						
Carp.....	207,800	10,501			3,200	77	9,500	445
Catfish and bullheads.....	139,400	7,617	400	\$18	3,200	101	3,300	144
Croaker.....	2,259,800	38,112	100	6	800	40	9,700	312
Drum:								
Black.....	400	16						
Red or redfish.....	700	28						
Eels, common.....	1,900	148						
Gizzard shad.....	5,900	113					800	16
Harvestfish or "starfish".....	300	6						
Hickory shad.....			500	12	100	5	400	10
Menhaden.....	100,000	400						
Mullet.....							12,300	505
Pike or pickerel.....	14,300	1,718						
Shad.....	25,400	2,151	22,400	2,409	54,400	5,201	50,400	5,543
Spot.....	82,800	3,171	500	18			5,900	297
Squeteague or "sea trout":								
Gray.....	36,500	2,002	7,900	1,011			11,500	1,130
Spotted.....	25,800	1,395						
Striped bass.....	232,500	19,197	50,800	5,507	133,700	12,438	153,600	14,101
Suckers.....	3,600	211						
Sunfish.....	300	3					200	4
White perch.....	132,200	5,393	5,100	156	46,300	2,472	88,400	4,915
Yellow perch.....	30,200	1,982	20,000	1,000	200	8	4,200	220
Crabs, soft and peelers.....	6,400	1,266						
Total.....	3,436,000	99,289	107,700	10,137	248,300	20,444	403,900	28,673

Fisheries of Maryland, 1941—Continued

CATCH: BY GEAR—Continued

Species	Lines				Pound nets		Fyke nets	
	Hand		Trot with baits or snoods		Pounds	Value	Pounds	Value
	Pounds	Value	Pounds	Value				
Alewives.....					4,931,300	\$65,343	17,700	\$331
Black bass.....					500	43	13,200	1,205
Bluefish.....	10,000	\$1,200			5,500	406		
Bonito.....	10,000	300			34,100	1,152		
Butterfish.....					285,700	7,445		
Cabio or crab eater.....					1,000	40		
Carp.....					18,000	717	21,800	924
Catfish and bullheads.....					77,300	2,899	232,800	9,416
Crappie.....							1,200	55
Croaker.....					1,795,200	35,361		
Dolphin.....	100	12						
Drum:								
Black.....					16,400	121		
Red or redfish.....					1,600	48		
Eels:								
Common.....					4,800	329	7,700	531
Conger.....	500	10			100	2		
Flounders.....					10,500	811	4,500	239
Gizzard shad.....					7,100	125	1,000	30
Harvestfish or "starfish".....					4,700	184		
Hickory shad.....					20,600	403	400	4
Hogchoker.....					1,500	15		
King whiting or "kingfish".....					7,800	303		
Mackerel.....	5,000	400			33,400	955		
Menhaden.....					26,000	90		
Mullet.....					200	16		
Pike or pickerel.....					900	134	40,700	5,589
Sand perch.....					1,600	118		
Seup or porgy.....	500	10			51,000	1,020		
Sea bass.....	10,000	800						
Shad.....					355,800	27,775	25,800	1,822
Spanish mackerel.....					1,500	130		
Spot.....					51,100	2,001		
Squeteague or "sea trout":								
Gray.....	5,000	750			1,096,100	34,036		
Spotted.....					200	23		
Striped bass.....	5,000	550			630,400	53,200	16,600	1,629
Sturgeon.....					600	85		
Suckers.....					500	10	1,800	91
Sunfish.....							9,700	223
Tautog.....	1,000	20			100	2		
White perch.....					330,500	12,682	130,000	5,404
Yellow perch.....					39,700	2,464	118,700	6,749
Crabs:								
Hard.....			11,625,400	\$394,752				
Soft and peeler.....			156,400	19,085				
Squid.....					70,000	1,025		
Total.....	47,100	4,052	11,781,800	413,837	9,913,300	251,513	643,600	34,242

Fisheries of Maryland, 1941—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Otter trawls		Pots		Scrapes	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Butterfish			9,700	\$135				
Cod			600	38				
Croaker			340,000	5,759				
Eels, common					139,200	\$8,804		
Flounders			167,700	14,096				
Hake			900	15				
King whiting or "kingfish"			9,400	216				
Mackerel			31,800	960				
Scup or porgy			68,800	975				
Sea bass			26,300	1,906	30,000	2,400		
Sharks			200	3				
Skates			100	2				
Spot			100	3				
Squeteague or "sea trout," gray			61,800	1,650				
Striped bass			700	106				
Sturgeon			100	9				
Tautog					1,000	20		
Whiting			3,000	55				
Crabs:								
Hard					350,000	11,750		
Soft and peelers	146,500	\$23,539					527,000	\$63,235
Lobsters					1,000	150		
Conchs			44,700	670				
Squid			500	6				
Total	146,500	23,539	766,600	26,604	521,200	23,124	527,000	63,235

Species	Dredges		Tongs		Rakes		By hand	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Clams, hard, public			68,600	\$15,000	42,100	\$10,056		
Oysters, market:								
Public, spring	730,500	\$93,266	5,503,800	668,539				
Public, fall	2,382,200	306,050	9,664,800	1,218,262				
Private, spring	242,700	30,336	84,500	10,555				
Private, fall	180,000	22,502	27,900	3,489				
Terrapin, diamond back							5,500	\$2,000
Total	3,535,400	452,154	15,349,600	1,915,845	42,100	10,056	5,500	2,000

VIRGINIA

Fisheries of Virginia, 1941

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines, common	Gill nets		Lines		Pound nets
			Drift	Stake	Hand	Trot with baits or snoods	
	Number	Number	Number	Number	Number	Number	Number
Fishermen:							
On vessels.....	772		6			6	
On boats and shore:							
Regular.....		236	39	127	10	610	1,409
Casual.....		170	289	156	20	310	261
Total	772	406	334	283	30	926	1,670
Vessels:							
Steam.....	8						
Net tonnage.....	360						
Motor.....	18		3			4	
Net tonnage.....	1,020		18			23	
Total vessels	26		3			4	
Total net tonnage	1,380		18			23	
Boats:							
Motor.....		58	54	96	15	587	328
Other.....		147	204	123		253	594
Accessory boats	78						
Apparatus:							
Number.....	26	130	298	4,891	45	844	1,515
Length, yards.....	8,780	53,430					
Square yards.....			197,243	221,700			
Hooks, baits, or snoods.....					90	418,800	

Item	Fyke nets		Dip nets, common	Otter trawls, fish	Pots			Serapes
	Crab	Fish			Crab	Eel	Fish	
	Number	Number	Number	Number	Number	Number	Number	Number
Fishermen:								
On vessels.....				101	10			
On boats and shore:								
Regular.....	47	55	122		162	16	3	59
Casual.....	69	98	192		282	17	7	
Total	116	153	314	101	454	33	10	59
Vessels, motor				22	5			
Net tonnage				516	31			
Boats:								
Motor.....	36	43	15		170	12	5	49
Other.....	74	77	289		214	16	3	
Apparatus:								
Number.....	538	875	314	22	9,409	812	385	79
Yards at mouth.....				608				67

Fisheries of Virginia, 1941—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dredges		Tongs		Rakes		By hand		Total, exclusive of duplication
	Crab	Oyster, common	Oyster	Other	Oyster	Other	Oyster	Other	
	Number	Number	Number	Number	Number	Number	Number	Number	Number
Fishermen:									
On vessels	190	165	89						1,302
On boats and shore:									
Regular		4	1,806	286	225	168	300	345	4,262
Casual			475	5	30	87		185	2,511
Total	190	169	2,460	291	255	255	300	530	8,075
Vessels:									
Steam									8
Net tonnage									360
Motor	58	38	35						169
Net tonnage	663	514	213						2,899
Sail		1							1
Net tonnage		21							21
Total vessels	58	39	35						178
Total net tonnage	663	535	213						3,280
Boats:									
Motor		2	1,442	173	50	50	55	70	2,548
Other			293	77	135	100	110	300	2,684
Accessory boats									78
Apparatus:									
Number	134	84	2,176	282	255	255			
Yards at mouth	215	137							

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Drift		Stake	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			146,200	\$1,577	21,300	\$303	21,300	\$601
Bluefish			2,000	202	100	10		
Bonito			500	30				
Butterfish			18,500	366				
Carp			378,800	16,360			6,000	240
Catfish and bullheads			97,300	4,544			1,800	90
Croaker			3,667,300	66,930	633,700	10,879	900	26
Drum:								
Black			2,400	48				
Red or redfish			3,300	75				
Eels, common			1,500	95				
Flounders			10,700	1,183				
Gizzard shad			34,700	804			2,100	63
Harvestfish or "starfish"			2,700	18				
Hickory shad			4,200	126				
King whiting or "kingfish"			10,700	425				
Mackerel					353,000	17,650		
Menhaden	180,148,400	\$943,961						
Mullet			1,400	40	1,400	102		
Pigfish			1,500	30				
Pike or pickerel			100	15				
Sand perch			2,500	250				
Shad			14,000	2,122	159,000	19,725	248,100	30,314
Spot			923,300	23,638	11,500	335	68,500	3,100
Squeteague or "sea trout":								
Gray			190,600	4,702	6,500	205		
Spotted			67,400	6,803				
Striped bass			225,000	19,927	5,100	458	68,400	6,834
White perch			33,700	1,627			19,100	1,400
Total	180,148,400	943,961	5,840,300	151,937	1,191,600	49,667	436,200	42,668

Fisheries of Virginia, 1941—Continued

CATCH: BY GEAR—Continued

Species	Lines				Pound nets	
	Hand		Trot with baits or snoods		Pounds	Value
	Pounds	Value	Pounds	Value		
Alewives.....					11,696,000	\$156,870
Bluefish.....	1,800	\$216			18,100	2,130
Bonito.....					155,400	9,251
Butterfish.....					1,914,500	49,973
Carp.....					16,800	545
Catfish and bullheads.....					113,400	4,351
Croaker.....	11,000	330			16,478,600	315,249
Drum:						
Black.....	1,800	27			27,200	391
Red or redfish.....	2,000	50			22,100	422
Eels:						
Common.....					52,200	6,710
Conger.....					1,000	100
Flounders.....	900	81			220,500	17,194
Gizzard shad.....					27,800	362
Harvestfish or "starfish".....					60,900	1,206
Hickory shad.....					169,700	3,030
King whiting or "kingfish".....					17,400	599
Mackerel.....					208,900	10,699
Menhaden.....					1,948,300	10,055
Mullet.....					200	4
Sand perch.....					2,200	59
Scup or porgy.....	6,300	189			387,200	11,613
Sea bass.....	25,000	750			1,400	39
Shad.....					1,652,700	137,502
Sharks.....					5,800	206
Skates.....					2,700	14
Spanish mackerel.....	1,000	100			21,800	2,693
Spot.....					590,000	18,303
Squeteague or "sea trout":						
Gray.....	38,300	1,915			5,583,400	113,030
Spotted.....					24,000	1,986
Striped bass.....					519,000	44,403
Sturgeon.....					3,800	695
Swellfish.....					7,000	140
Thimble-eyed mackerel.....					3,200	64
White perch.....					88,700	2,990
Yellow perch.....					2,200	176
Crabs:						
Hard.....			7,548,100	\$186,565	100	2
Soft and peelers.....			370,700	33,346		
Squid.....					201,000	3,045
Total.....	88,100	3,658	7,918,800	219,911	42,246,500	917,012

Fisheries of Virginia, 1941—Continued

CATCH: BY GEAR—Continued

Species	Fyke nets		Dip nets		Otter trawls		Pots		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Alewives.....	66,200	\$782							
Bluefish.....					200	\$9			
Butterfish.....	800	24			450,100	10,869			
Carp.....	28,500	1,159							
Catfish and bullheads.....	255,100	12,055					28,800	\$2,130	
Cod.....					300	15			
Croaker.....	132,200	2,681			7,510,900	209,396			
Drum:									
Black.....					4,100	80			
Red or redfish.....					13,000	207			
Eels:									
Common.....	16,200	1,483					82,900	6,977	
Conger.....					7,900	93			
Flounders.....	5,500	575			526,200	40,508			
Gizzard shad.....	50,800	1,542							
Hake.....					90,800	1,719			
Herring, sea.....					1,100	24			
Hickory shad.....	300	9							
King whiting or "kingfish".....					6,500	176			
Mackerel.....					10,000	255			
Mullet.....	2,200	96			112,200	3,311			
Pigfish.....					1,000	24			
Sand perch.....					1,100	23			
Scup or porgy.....					2,118,800	47,928			
Sea bass.....					348,800	16,443			
Sea robin.....					13,900	277			
Shad.....	51,500	8,206							
Sharks.....					4,900	87			
Spot.....					224,900	3,933			
Squeteague or "sea trout," gray.....	7,100	320			1,406,200	39,855			
Squirrel hake.....					4,800	51			
Striped bass.....	47,700	6,471							
Sturgeon.....					8,700	1,128			
Suckers.....	2,200	88							
Swellfish.....					7,500	235			
Tautog.....					300	5			
Toadfish.....					100	5			
Tomcod.....					9,500	118			
White perch.....	73,900	3,851			29,000	401			
Whiting.....					407,200	6,173			
Yellow perch.....	18,700	1,169							
Crabs:									
Hard.....	129,500	4,095	38,600	\$1,544				5,707,200	159,757
Soft and peelers.....	207,000	40,109	456,600	78,624				79,300	11,634
Lobster.....									
200.....									
23.....									
Conchs.....					2,000	15			
Squid.....					9,200	186			
Total.....	1,095,400	84,715	495,200	80,168	13,331,400	383,572	5,898,200	180,498	

Species	Scrapes		Dredges		Tongs		Rakes		By hand	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Crabs:										
Hard.....	176,000	\$6,320	2,117,200	\$98,623						
Soft and peelers.....	394,500	34,852							201,400	\$18,452
Clams:										
Hard, public.....			300	50	470,500	\$103,955	392,000	\$82,150	650,000	145,000
Hard, private.....					50,000	7,500				
Mussels, sea.....							410,000	20,500	505,000	25,250
Oysters, market:										
Public, spring.....					1,528,400	227,595	45,100	4,788	54,400	5,433
Public, fall.....					2,395,400	356,776	19,700	2,385	57,109	4,810
Private, spring.....	64,000	9,070	2,872,000	363,784	1,687,400	234,708	689,500	68,950	339,500	33,950
Private, fall.....	64,000	9,070	3,771,200	465,631	1,745,500	232,654	812,500	78,333	476,500	43,683
Total.....	698,500	59,312	8,760,700	928,088	7,877,200	1,163,188	2,368,800	257,106	2,283,990	276,578

SHAD AND ALEWIFE FISHERIES OF THE POTOMAC RIVER

The catch of shad in the Potomac River in 1941 amounted to 132,758 in number and 371,300 pounds in weight; their total value to the fishermen was \$22,283. The catch of alewives for the same season amounted to 8,835,850 in number, with a total weight of 3,534,760 pounds and a value to the fishermen of \$27,930. These figures show an increase of 30 percent in volume, but a decrease of 37 percent in value of shad, as compared with the returns for 1940. Similarly, there was an increase of 24 percent in the volume of alewives taken, but a decrease of 7 percent in value during 1941, as compared with the figures for 1940.

Approximately 76 percent of the shad, by weight, were taken with pound nets, and 24 percent with gill nets. More than 99 percent of the alewives were taken with pound nets, and less than one percent by gill nets, haul seines, and fyke nets.

Statistics on the catch of shad and alewives in the Potomac River are also included in the catch data for Maryland and Virginia.

Shad and alewife fisheries of the Potomac River, 1941

Item	Maryland			Virginia			Total		
	Number	Pounds	Value	Number	Pounds	Value	Number	Pounds	Value
Fishermen, on boats and shore:									
Regular.....	12			222			234		
Casual.....	30			157			187		
Total.....	42			379			421		
Boats:									
Motor.....	9			67			76		
Other.....	25			167			192		
Apparatus:									
Haul seines.....	3			20			23		
Length, yards.....	400			5,900			6,300		
Gill nets:									
Drift.....	3			15			18		
Square yards.....	1,700			13,000			14,700		
Stake.....	555			158			713		
Square yards.....	44,400			53,680			98,080		
Pound nets.....	35			240			275		
Fyke nets.....				11			11		
Shad caught:	<i>Number</i>	<i>Pounds</i>	<i>Value</i>	<i>Number</i>	<i>Pounds</i>	<i>Value</i>	<i>Number</i>	<i>Pounds</i>	<i>Value</i>
By haul seines.....	250	500	\$25	225	600	\$60	475	1,100	\$85
By drift gill nets.....	6,825	19,000	1,310	10,800	28,800	2,304	17,625	47,800	3,614
By stake gill nets.....	2,278	7,000	681	12,430	33,200	2,343	14,708	40,200	3,024
By pound nets.....	3,875	12,300	926	96,075	269,900	14,634	99,950	282,200	15,560
Total.....	13,228	38,800	2,942	119,530	332,500	19,341	132,758	371,300	22,283
Alewives caught:									
By haul seines.....	6,400	2,560	38	10,000	4,000	120	16,400	6,560	158
By drift gill nets.....				37,500	15,000	360	37,500	15,000	360
By stake gill nets.....	1,600	640	4	29,250	11,700	333	30,850	12,340	337
By pound nets.....	359,400	143,760	1,462	8,386,700	3,385,100	25,573	8,746,100	3,498,800	27,035
By fyke nets.....				5,000	2,000	40	5,000	2,000	40
Total.....	367,400	146,960	1,504	8,408,450	3,387,800	26,426	8,835,850	3,534,760	27,930

TRADE IN FISHERY PRODUCTS IN WASHINGTON, D. C.

The municipal fish wharf and market in Washington, D. C., is located in the southwestern part of the city on an arm of the Potomac River. At the present time, 15 firms have stalls in the market, 3 are located in the immediate vicinity of the market, and 2 have stalls in the market located at Fifth and K Streets, N. W. Altogether, these 20 firms employ 155 persons who received \$183,390 in salaries and wages during 1941. The business is mainly wholesale, but some retail trade is carried on.

The facilities for handling fish and oysters from boats and vessels that land at the wharf are good, but only a comparatively few shipments are brought into the city by water. During the fall and winter considerable quantities of shell-oysters are landed, but most of the oysters handled in Washington are shucked in Maryland and Virginia and brought in by truck.

FISHERIES OF THE SOUTH ATLANTIC AND GULF STATES

(South Atlantic, AREA XXIV; Gulf, AREA XXV)⁵

The most recent complete fishery statistics for the South Atlantic and Gulf States (North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas) are those collected for the year 1940. (Statistical Digest No. 4, "Fishery Statistics of the United States, 1940.") In that year the yield of the commercial fisheries amounted to 575,533,400 pounds, valued at \$14,644,895 to the fishermen, representing a decrease of 8 percent in quantity but an increase of 5 percent in value as compared with the catch in 1939. A summary of these fisheries appears in the following tables.

⁵ These numbers were given to the areas by the North American Council on Fishery Investigations. The catch of the Mississippi River and tributaries is not included in this section. A description of the methods of collecting and compiling these statistics are given in the section in the latter part of this document, entitled, "Statistical Survey Procedure."

Fisheries of the South Atlantic and Gulf States, 1940

SUMMARY OF CATCH

Product	North Carolina		South Carolina		Georgia	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish.....	160,876,100	\$1,515,740	1,311,400	\$56,348	722,300	\$43,419
Shellfish, etc.....	9,704,900	348,874	8,134,500	209,480	11,949,400	337,211
Total.....	170,581,000	1,864,614	9,445,900	265,828	12,671,700	380,630

Product	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish.....	170,769,900	\$3,485,392	4,462,300	\$250,737	25,677,900	\$98,645
Shellfish, etc.....	16,722,300	1,519,220	6,882,000	311,174	12,324,400	524,465
Total.....	187,492,200	5,004,612	11,344,300	561,911	38,002,300	623,110

Product	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish.....	914,100	\$65,314	3,036,900	\$286,958	367,770,900	\$5,802,553
Shellfish, etc.....	125,712,700	4,886,179	16,332,300	705,739	207,762,500	8,842,342
Total.....	126,626,800	4,951,493	19,369,200	992,697	575,533,400	14,644,895

Fisheries of the South Atlantic and Gulf States, 1940—Continued

OPERATING UNITS: BY STATES

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	883	107	246	1,166	165	952	764	239	4,522
On boats and shore:									
Regular	4,488	634	469	5,431	747	880	3,702	1,009	17,360
Casual	1,742	600	463	2,305	222	45	392	290	6,059
Total	7,113	1,341	1,178	8,902	1,134	1,877	4,858	1,538	27,941
Vessels:									
Motor	137	35	77	199	41	243	288	69	1,089
Net tonnage	1,600	301	575	3,505	517	2,962	2,449	715	12,624
Sail	47			4		5			56
Net tonnage	428			49		61			538
Total vessels	184	35	77	203	41	248	288	69	1,145
Total net tonnage	2,028	301	575	3,554	517	3,023	2,449	715	13,162
Boats:									
Motor	1,514	114	159	2,597	379	389	1,490	475	7,117
Other	1,433	600	497	2,967	534	238	1,173	185	7,627
Accessory boats	251		2	40		12			305
Apparatus:									
Purse seines, menhaden	30		1	15		6			52
Length, yards	7,290		350	4,290		2,280			14,210
Haul seines:									
Common	277	36	4	210	5		17		549
Length, yards	54,275	8,075	400	143,840	3,040		6,820		217,350
Long	92			13					105
Length, yards	91,000			11,600					102,600
Gill nets:									
Anchor	1,130	88	20	13					1,251
Square yards	682,075	42,240	1,000	13,900					739,215
Drift	165	40	92	49					346
Square yards	148,600	45,800	38,730	77,500					310,630
Runaround	515	38	33	2,296				57	2,939
Square yards	570,690	15,990	24,000	1,869,820				13,427	2,493,927
Stake	2,548	30	103	5				195	2,881
Square yards	173,525	15,000	14,790	5,000				45,228	253,543
Trammel nets				457	141	32	9	41	680
Square yards				388,350	74,600	17,200	2,360	21,482	503,992
Lines:									
Hand	128	73		3,367	119	49	139	198	4,073
Hooks	128	115		5,347	198	61	155	1	6,328
Trawl				26					26
Hooks				6,300					6,300
Troll	10			1,490				1	1,501
Hooks	10			1,555				1	1,566
Trot with baits or snoods	808	278	267	199	126	99	756	19	2,552
Baits or snoods	579,250	137,500	120,850	91,000	56,700	62,700	222,430	4,060	1,274,490
Trot with hooks	18		34	204	62			23	341
Hooks	1,215		3,800	78,500	17,104			5,950	106,569
Pound nets	2,173								2,173
Fyke nets	193			45	100				338
Dip nets:									
Common	514			129		2	34	40	719
Drop	18					96	7,059		7,164
Cast nets		20		121		15	28	2	186
Otter trawls:									
Fish	6		1						7
Yards at mouth	90		18						108
Shrimp	211	54	201	227	175	488	1,399	407	3,162
Yards at mouth	3,406	1,209	4,619	4,022	2,712	7,617	20,345	6,410	50,319
Traps, brush							34,600		34,600
Pots:									
Sea crawfish				8,900					8,900
Crab			970	7,563			400	540	9,473
Eel	695			20					715
Fish	10	100	30	10,110	290				10,540
Spears:	236	56		145	46	28		108	619
Dredges:									
Clam				6					6
Yards at mouth				4					4
Oyster, common	180			3	14	305	80	86	678
Yards at mouth	180			5	14	305	80	86	679
Scallop				72					72
Yards at mouth				70					70

Fisheries of the South Atlantic and Gulf States, 1940—Continued

OPERATING UNITS: BY STATES—Continued

Item	North Carolina	South Carolina	Georgia	Florida	Ala-bama	Missis-sippi	Louisiana	Texas	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number
Apparatus—con.									
Tongs, oyster	61	26	22	322	479	277	565	125	1,877
Rakes, other than for oysters	703			31					734
Grabs		344	62						406
Coquina scoops				4					4
Hooks:									
Sponge				177					177
Other				26					26
Diving outfits				67					67

CATCH: BY STATES

Species	North Carolina		South Carolina		Georgia	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives	8,707,900	\$108,856				
Bluefish	447,900	35,844	4,000	\$280		
Bonito	35,900	1,077				
Bowfin	300	6				
Butterfish	44,200	2,639				
Carp	438,000	19,662				
Catfish and bullheads	1,317,500	46,116	15,000	900	37,000	\$1,480
Crevalle	500	13				
Croaker	4,310,400	86,208			6,900	179
Drum:						
Black	88,400	2,652	33,500	1,174	8,000	320
Red or redfish	134,400	3,412	85,000	5,100	12,000	480
Eels, common	78,100	3,905			1,000	50
Flounders	498,200	34,814	74,500	5,588	36,500	2,004
Gizzard shad	11,600	409				
Groupers			2,000	80		
Harvestfish or "starfish"	434,500	12,735				
Hickory shad	335,900	11,768	17,800	447	12,600	504
King whiting or "kingfish"	683,400	20,502	78,500	1,660	164,000	4,325
Menhaden	129,591,900	485,164			234,500	657
Mullet	2,095,600	83,836	489,500	14,685	22,000	440
Pigfish	78,100	2,343				
Pike or pickerel	300	8				
Pinfish or sailors choice	18,500	278				
Pompano	11,500	1,150				
Scup or porgy	200	4				
Sea bass	306,200	13,784	107,200	5,350		
Sea catfish	2,500	113	3,000	90		
Shad	800,700	119,505	49,900	10,978	150,100	30,020
Sheepshead, salt-water	13,300	532	1,500	38	1,000	50
Spanish mackerel	141,100	8,466				
Spot	4,801,300	72,032	302,200	6,044	2,000	40
Squeteague or "sea trout":						
Gray	3,628,500	181,645	2,000	100		
Spotted	1,158,400	92,672	42,400	3,392	30,000	2,400
Striped bass	539,900	59,389				
Sturgeon	600	72	3,400	442	4,700	470
Suckers	3,200	64				
White perch	108,200	3,795				
Yellow perch	9,000	270				
Total	160,867,100	1,515,740	1,311,400	56,348	722,300	43,419
SHELLFISH, ETC.						
Crabs:						
Hard ¹	4,007,800	79,957	4,139,900	72,448	2,347,500	41,085
Soft and peelers	286,000	42,900	5,000	325		
Shrimp	4,156,500	124,695	1,784,000	54,687	9,335,500	280,788
Clams, hard, public ²	530,200	45,067	2,900	203		
Octopus	200	10				
Oysters, market: ³						
Public, spring	387,900	25,228				
Public, fall	302,500	27,332				
Private, spring			1,312,900	49,891	151,700	8,704
Private, fall			889,800	31,926	113,100	6,474
Scallops, bay	33,800	3,685				
Terrapin, diamond-back					1,600	160
Total	9,704,900	348,874	8,134,500	209,480	11,949,400	337,211
Grand total	170,581,000	1,864,614	9,445,900	265,828	12,671,700	380,630

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1940—Continued

CATCH: BY STATES—Continued

Species	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives	408,000	\$2,040				
Amberjack	9,600	185				
Angelfish	2,100	53				
Barracuda	200	4				
Bluefish	1,962,700	140,720	23,900	\$1,313		
Bluerunner or hardtail	776,700	11,705	4,000	178		
Buffalofish			58,500	2,634		
Butterfish	19,900	401				
Cabio or crab eater	1,400	42				
Catfish and bullheads	5,051,200	146,437	65,500	4,784		
Cigarfish	6,400	142				
Crappie	741,900	23,857				
Crevalle	236,000	3,322				
Croaker	40,500	921	16,200	409	3,900	\$152
Drum:						
Black	129,700	3,887	800	37	13,500	675
Red or redfish	833,100	35,356	27,100	1,844	55,200	4,412
Eels, common	2,900	87				
Flounders	223,100	13,526	83,600	8,497	37,900	3,790
Groupers	4,810,600	190,829	264,700	9,785	18,100	905
Grunts	23,500	677				
Hickory shad	5,200	123				
Jewfish	114,100	3,279				
Kingfish or "king mackerel"	3,476,800	155,788				
King whiting or "kingfish"	401,400	11,727	400	12	7,000	280
Menhaden	95,055,500	267,289			25,104,900	70,092
Mojarra	394,800	6,688				
Mullet	31,877,100	1,188,185	2,396,400	83,876	171,700	6,562
Muttonfish	404,000	23,098				
Paddlefish or "spoonbill cat"			11,600	558		
Permit	22,000	440				
Pigfish	9,200	200				
Pinfish or sailors choice	111,600	2,308				
Pompano	546,300	135,072	300	57	700	140
Scup or porgy	92,500	3,025				
Sea bass	7,400	526				
Sea catfish	271,700	4,896	2,800	56		
Shad	343,700	29,026				
Sharks	4,260,000	25,200				
Sheepshead:						
Fresh-water			2,800	94	13	745
Salt-water	560,400	16,164	11,500	541		
Snappers:						
Lane	10,000	500				
Mangrove	204,000	9,359				
Red	3,904,700	335,645	1,255,400	111,736	26,200	2,620
Snook or sergeantfish	462,900	23,951				
Spadefish	6,000	240				
Spanish mackerel	6,236,100	306,747	62,700	4,452	3,300	236
Spot	325,200	7,241	4,600	116		
Squeteague or "sea trout":						
Spotted	3,904,800	277,176	165,200	19,328	46,800	4,680
White	78,500	3,234	2,200	80	83,900	3,356
Sturgeon	2,800	220	100	8		
Sunfish	2,104,800	63,144				
Tenpounder	227,100	5,052				
Triggerfish	5,900	184				
Tripletail	3,100	124				
Yellowtail	59,800	5,338				
Total	170,769,900	3,485,392	4,462,500	250,737	25,677,900	98,645
SHELLFISH, ETC.						
Crabs:						
Hard ¹	5,642,600	102,725	1,380,700	27,614	1,488,300	26,125
Soft and peelers	500	125			400	100
Stone	62,300	12,560				
Sea crawfish or spiny lobster	463,500	31,501				
Shrimp	8,368,500	329,257	4,565,300	182,409	8,565,600	351,084
Clams:						
Coquina	15,000	272				
Hard, public ²	707,800	67,368				
Conchs	25,000	1,000				
Octopus	300	24				
Oysters, market: ³						
Public, spring	264,700	19,186	597,000	63,450	1,960,000	123,117
Public, fall	444,100	30,631	275,000	30,407	310,100	24,960
Private, spring	75,300	5,161	32,700	3,727		
Private, fall	93,200	6,920	31,400	3,567		

Fisheries of the South Atlantic and Gulf States, 1940—Continued

CATCH: BY STATES—Continued

Species	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued						
Scallops, bay	128,400	\$17,497				
Turtles:						
Green	41,600	4,543				
Soft-shell	146,600	2,204				
Sponges:						
Grass	13,500	12,760				
Sheepswood	224,000	866,853				
Yellow	6,400	8,630				
Total	16,722,300	1,519,220	6,882,000	\$311,174	12,324,400	\$524,465
Grand total	187,492,200	5,004,612	11,344,300	561,911	38,002,300	623,110

Species	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives					9,115,900	\$110,896
Amberjack					9,600	185
Angelfish					2,100	53
Barracuda					200	4
Blue fish					2,478,400	178,166
Bluenanner or hardtail					780,700	11,883
Bonito					35,900	1,077
Bowfin					300	6
Butterfish					58,500	2,634
Cabio or crab eater					64,100	3,040
Carp					1,400	42
Catfish and bullheads					438,000	19,662
Cigarfish					6,400	142
Crappie					741,900	23,857
Creville			100	\$8	238,700	3,385
Croaker	33,400	\$1,334	10,200	431	4,421,400	89,634
Dolphin	200	14			200	14
Drum:						
Black	92,300	4,615	491,700	24,585	857,600	37,945
Red or redfish	182,900	18,180	265,100	29,261	1,594,800	98,045
Eels, common					82,000	4,042
Flounders	9,200	1,070	101,900	14,266	1,064,900	83,555
Garfish	4,200	115			4,200	115
Gizzard shad					11,600	409
Groupers	4,000	238	84,600	4,230	5,184,000	206,067
Grunts					23,500	677
Harvestfish or "starfish"					434,500	12,735
Hickory shad					371,500	12,842
Iewish	14,200	702	10,000	400	138,300	4,381
Kingfish or "king mackerel"			1,200	72	3,478,000	155,860
King whiting or "kingfish"	55,300	1,751	36,000	1,464	1,426,600	41,721
Menhaden					250,076,800	\$23,202
Mojarra					394,900	6,688
Mullet	24,300	532	1,500	45	37,078,100	1,378,161
Muttonfish					404,000	23,098
Paddlefish or "spoonbill cat"					11,600	858
Permit					22,000	440
Pigfish					87,300	2,543
Pike or pickerel					300	8
Pinfish or sailors choice					130,100	2,586
Pompano			4,100	902	562,900	137,321
Scup or porgy					92,700	3,029
Sea bass					420,800	19,660
Sea catfish	83,800	1,353	13,700	548	377,500	7,056
Shad					1,344,400	189,529
Sharks					4,260,000	25,200
Sheepshead:						
Fresh-water					17,700	839
Salt-water	26,200	1,340	15,000	750	628,900	19,415
Snappers:						
Lane					10,000	500
Mangrove					204,900	9,359
Red	104,400	8,960	1,233,100	118,377	6,523,800	577,341
Snook or sergeantfish			7,100	568	470,000	24,519
Spadefish					6,000	240
Spanish mackerel	1,700	186	6,000	659	6,450,900	320,746
Spot	13,200	516			5,448,500	85,989

Fisheries of the South Atlantic and Gulf States, 1940—Continued

CATCH: BY STATES—Continued

Species	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued						
Squeteague or "sea trout":						
Gray					3,630,500	\$181,745
Spotted	211,900	\$22,271	752,400	\$90,288	6,311,900	512,207
White	50,600	2,027	2,600	104	217,800	8,801
Striped bass					539,900	59,389
Sturgeon	300	18			11,900	1,230
Suckers					3,200	64
Sunfish					2,104,800	63,144
Tenpounder					227,100	5,052
Triggerfish					5,900	184
Tripletail	2,000	92			5,100	216
White perch					108,200	3,795
Yellow perch					9,000	270
Yellowtail					59,800	5,338
Total	914,100	65,314	3,036,900	286,958	367,770,900	5,802,553
SHELLFISH, ETC.						
Crabs:						
Hard ¹	14,061,900	172,246	252,400	6,297	33,321,100	528,497
Soft and peelers	251,800	39,861			543,700	83,311
Stone					62,300	12,560
Sea crawfish or spiny lobster					463,500	31,501
Shrimp	98,986,000	3,979,273	14,779,200	591,168	150,540,600	5,893,360
Clams:						
Coquina					15,000	272
Hard, public ²					1,240,900	112,638
Conchs					25,000	1,000
Octopus					500	34
Oysters, market: ³						
Public, spring	8,726,000	446,074	806,500	67,097	12,742,100	744,152
Public, fall	546,900	32,018	488,800	40,944	2,367,400	185,372
Private, spring	1,819,300	128,069			3,391,900	195,552
Private, fall	1,320,000	88,624	1,900	163	2,449,300	137,674
Scallops, bay					162,200	21,182
Squid	300	4	3,500	70	3,800	74
Terrapin, diamond-back					1,600	160
Turtles:						
Green	500	10			42,100	4,556
Soft-shell					146,600	2,204
Sponges:						
Grass					13,500	12,760
Sheepswool					223,000	866,853
Yellow					6,400	8,630
Total	125,712,700	4,886,179	16,332,300	705,739	207,762,500	8,842,342
Grand total	126,626,800	4,951,493	19,369,200	992,697	575,533,400	14,644,895

¹ Statistics on hard crabs used in this table are based on weights of 6 pounds per dozen in North Carolina, South Carolina, and Georgia; 5.97 pounds in Florida; 5 pounds in Alabama; 5.74 pounds in Mississippi; 5.8 pounds in Louisiana; and 5.69 pounds in Texas.

² Statistics on hard clams used in this table are based on yields of 6.14 pounds of meats per standard bushel in North Carolina, 4.23 pounds in South Carolina, and 5.35 pounds in Florida.

³ Statistics on oysters used in this table are based on yields of 3.38 pounds of meats per standard bushel in North Carolina; 3.06 pounds in South Carolina; 3.01 pounds in Georgia; 2.95 pounds in Florida; 4.14 pounds in Alabama; 3.78 pounds in Mississippi; 4.75 pounds in Louisiana, and 3.58 pounds in Texas.

NOTE.—Data on the yield of shellfish meats per bushel are based on U. S. Standard Bushels of 2,156.4 cubic inches capacity. The catch for Louisiana includes the following products taken by Mississippi craft in Louisiana waters: Shrimp, 8,165,900 pounds, valued at \$334,735; oysters, public, spring, 8,305,900 pounds, valued at \$415,295; and oysters, public, fall, 197,600 pounds, valued at \$10,667.

Industries related to the fisheries of the South Atlantic and Gulf States

OPERATING UNITS, SALARIES AND WAGES, 1940

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
Transporting:									
Persons engaged:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	66	128	.....	35	.....	3	158	.....	390
On boats.....	11	24	.....	.....	.....	8	244	.....	287
Total.....	77	152	.....	35	.....	11	402	.....	677
Vessels:									
Motor.....	40	21	.....	18	.....	1	79	.....	159
Net tonnage..	338	263	.....	222	.....	12	660	.....	1,495
Sail.....	.....	26	.....	.....	.....	.....	.....	.....	26
Net tonnage..	.....	251	.....	.....	.....	.....	.....	.....	251
Total vessels..	40	47	.....	18	.....	1	79	.....	185
Total net tonnage.....	338	514	.....	222	.....	12	660	.....	1,746
Boats.....	8	11	.....	.....	.....	4	125	.....	148
Wholesale and manufacturing:									
Establishments.....	105	24	22	322	47	34	162	60	776
Persons engaged:									
Proprietors.....	118	19	23	401	47	18	137	57	820
Salaried employees	47	27	51	132	20	60	164	42	543
Wage earners:									
Average for season.....	1,817	1,101	1,004	2,157	749	2,547	6,975	1,213	17,563
Average for year.....	574	385	256	1,051	258	756	1,614	303	5,197
Paid to salaried employees.....	\$93,648	\$54,968	\$67,789	\$287,024	\$28,395	\$99,711	\$205,009	\$37,828	\$874,372
Paid to wage earners.....	\$247,389	\$150,204	\$124,724	\$775,383	\$153,269	\$510,235	\$826,694	\$152,072	\$2,939,970
Total salaries and wages.....	\$341,037	\$205,172	\$192,513	\$1,062,407	\$181,664	\$609,946	\$1,031,703	\$189,900	\$3,814,342
Fishermen manufacturing...	303	31	18	275	.....	53	.....	.....	680

Industries related to the fisheries of the South Atlantic and Gulf States—
Continued

PRODUCTS MANUFACTURED

Item	North Carolina		South Carolina		Georgia		Florida	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:								
Alewives:								
Corned pounds	3,220,150	\$69,291						
Roe, canned ¹ standard cases	9,192	58,089						
Groupers:								
Fresh filets ¹ pounds							117,210	\$23,749
Fresh steaks ¹ do							344,667	75,297
Menhaden:								
Oil ¹ gallons	1,333,767	680,310					489,023	201,245
Meal ¹ tons	3,539	203,114					2,741	154,998
Acid scrap ¹ do	2,403	51,549					4,335	88,586
Dry scrap ¹ do	9,257	522,437					10,117	545,743
Mullet:								
Salted pounds	277,800	23,100					976,500	58,100
Roe, salted do							60,000	14,825
Snapper, red, fresh steaks ¹ do							38,127	10,088
Spot, salted do	159,400	9,580						
Crab meat, packaged, fresh-cooked pounds	518,950	199,635	85,386	\$29,319	185,929	\$65,075	697,177	263,847
Shrimp:								
Frozen packaged do							155,300	30,756
Canned ¹ standard cases						61,294	376,517	14,102
Marine-shell novelties ¹								148,742
Oysters:								
Fresh-shucked gallons	62,006	65,320	40,228	34,521	(²)	(²)	78,008	103,911
Canned ¹ standard cases	(²)	(²)	84,413	464,069	(²)	(²)	(²)	(²)
Shell products:								
Poultry feed ¹ tons	(²)	(²)	(²)	(²)			(²)	(²)
Lime and dust ¹ do	3,468	10,074	(²)	(²)			(²)	(²)
Scallops, bay, fresh-shucked gallons	2,868	5,449					12,960	36,490
Turtle products, canned ¹ standard cases							(²)	(²)
Unclassified products:								
Packaged, fresh and frozen ³ pounds	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	⁵ 104,955	⁵ 30,688
Canned ¹ standard cases	⁷ 10,935	⁷ 58,555	(⁴)	(⁴)	(⁴)	(⁴)	⁸ 23,392	⁸ 145,724
Miscellaneous ³		⁹ 22,320		¹⁰ 216,238		¹¹ 33,143		¹² 97,919
Total		1,978,823		744,147		474,735		2,122,986
By fishermen:								
Alewives, corned pounds	436,300	8,764						
Amberjack, smoked do							500	65
Bluefish, smoked do							300	45
Blue marlin, smoked do							300	66
King mackerel, smoked do							5,500	1,650
Mullet:								
Salted do	265,000	22,525	50,000	4,500			180,200	7,940
Roe, salted do	700	175					20,600	3,400
Smoked do							33,100	6,765
Sailfish, smoked do							10,200	2,142
Sea catfish, fresh pan-dressed do							20,000	1,400
Shark, liver-oil gallons							50	20
Spot, salted pounds	211,000	12,660	15,000	1,650			300	65
Wahoo, smoked do								
Crab meat, packaged, fresh-cooked pounds							3,900	1,117
Shrimp, smoked do							500	250
Clams, hard, fresh-shucked gallons	2,740	3,826					525	525
Oysters, fresh-shucked do	750	825	2,841	3,199	8,047	7,242	6,913	10,679
Scallops, bay, fresh-shucked do							3,805	4,125
Total		48,775		9,349		7,242		40,254
Grand total		2,027,598		753,496		481,977		2,163,240

See footnotes at end of table.

Industries related to the fisheries of the South Atlantic and Gulf States—
Continued

PRODUCTS MANUFACTURED—Continued

Item	Alabama		Mississippi		Louisiana		Texas	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:								
Groupers:								
Fresh filets ¹ pounds..	(2)	(2)						
Menhaden:								
Oil ¹ gallons.....			(2)	(2)				
Meal ¹ tons.....			(2)	(2)				
Dry scrap ¹ do.....			(2)	(2)				
Snapper, red, fresh steaks ¹ do.....	(2)	(2)						
Crab meat, packaged, fresh-cooked pounds.....	83,278	\$27,525	202,773	\$60,832	1,469,932	\$390,458	12,749	\$3,188
Crab and shrimp gumbo, canned ¹ standard cases.....					600	3,590		
Shrimp:								
Cooked and peeled..... pounds.....	(2)	(2)	208,675	57,705	863,895	237,586		
Frozen packaged..... do.....	(2)	(2)	1,886,119	247,034	5,681,395	752,135	6,722,265	960,880
Canned ¹ standard cases.....	(2)	(2)	168,653	1,045,460	454,040	2,856,839	(2)	(2)
Sun-dried..... pounds.....					1,930,400	326,416		
Bran..... tons.....			(2)	(2)	1,742	41,343		
Oysters:								
Fresh-shucked..... gallons.....	66,220	109,254	18,064	27,052	197,910	311,450	96,914	134,881
Canned ¹ standard cases.....	(2)	(2)	225,599	1,205,158	83,998	397,562		
Shell products:								
Poultry feed ¹ tons.....	(2)	(2)	19,361	92,599	(2)	(2)	(2)	(2)
Lime and dust ¹ do.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Turtle products, canned ¹ standard cases.....					608	5,815		
Crayfish, bisque, canned ¹ do.....					1,415	16,989		
Unclassified products:								
Packaged, fresh and frozen ³ pounds.....	⁶ 172,750	⁶ 32,325						
Canned ¹ standard cases.....	(4)	(4)			(4)	(4)	(4)	(4)
Miscellaneous ³ cases.....	¹² 496,419		¹² 230,811		¹⁵ 544,169		¹⁶ 359,636	
Total.....		665,523		2,966,651		5,884,352		1,458,585
By fishermen:								
Oysters, fresh-shucked..... gallons.....			3,380	4,225				
Total.....				4,225				
Grand total.....		665,523		2,970,876		5,884,352		1,458,585

¹ Data are for 1941.

² This item has been included under "Unclassified products."

³ Both 1940 and 1941 data have been included in this item.

⁴ This item has been included under "Miscellaneous."

⁵ Includes fresh filets of red snapper, snook or sergeantfish, Spanish mackerel, triggerfish, and squeteague; frozen filets of grouper; fresh steaks of triggerfish; fresh-cooked crawfish meat; and fresh-shucked hard clams.

⁶ Includes fresh filets of grouper, red snapper, Spanish mackerel, squeteague; frozen filets of red snapper; fresh and frozen steaks of red snapper; cooked and peeled shrimp; and frozen packaged shrimp.

⁷ Includes canned alewives, menhaden roe, oysters, and hard clam products.

⁸ Includes canned oysters, turtle and hard clam products, and coquina clam broth.

⁹ Includes fresh filets of Spanish mackerel, squeteague, croaker, red drum, flounder, and sea bass; fresh pan-dressed squeteague, butterfish, croaker, red drum, flounder, scup, sea bass, and Spanish mackerel; fresh-shucked hard clams; salted menhaden roe; alewife oil and dry scrap; and oyster-shell poultry feed.

¹⁰ Includes canned crab, and deviled crab; fresh-shucked hard clams; crab dry scrap; and oyster-shell poultry feed, lime, and dust.

¹¹ Includes fresh-shucked and canned oysters.

¹² Includes salted blue runner; smoked king mackerel; shark meal, skins, dried fins, and liver oil; oyster-shell poultry feed, lime, and dust; and novelties, other than from shell.

¹³ Includes canned shrimp and oysters; and oyster shell poultry feed, lime, and dust.

¹⁴ Includes menhaden oil, meal, and dry scrap; shrimp bran; and oyster-shell lime and dust.

¹⁵ Includes salted squeteague; canned seaburgers, hard and soft crabs, shrimp soup, deviled shrimp, oyster soup, smoked oysters, terrapin products, and shellfish paste; and oyster-shell poultry feed, lime, and dust.

¹⁶ Includes canned shrimp; and oyster-shell poultry feed, lime, and dust.

NOTE.—Unless otherwise indicated, data are for 1940. The total value of manufactured products in the South Atlantic and Gulf States was as follows: By manufacturing establishments, \$16,295,802, and by fishermen, \$109,845. Some of the above products may have been manufactured from products imported from another State, or a foreign country; therefore, they cannot be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's prepared products, 628 have also been included as fishermen and 481 of the persons shown on transporting craft have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

SPONGES SOLD ON THE EXCHANGE, TARPON SPRINGS, FLA.

During 1941, a total of 201,126 pounds of sponges, valued at \$1,364,870, were sold on the exchange at Tarpon Springs, Fla. This was a decrease of 13 percent in volume, but an increase of 61 percent in value, as compared with the transactions during 1940.

Sales of sponges on the exchange during 1941 were as follows: Large wool, 22,740 pounds, valued at \$290,161; small wool, 28,635 pounds, \$300,504; wool rags, 105,234 pounds, \$942,818; yellow, 5,413 pounds, \$43,704; and grass, 22,258 pounds, \$123,060. Data on the quantity and value of sponges sold outside the exchange and at other points in Florida are not available.

FISHERIES OF THE PACIFIC COAST STATES⁶

The yield of the commercial fisheries of the Pacific Coast States (Washington, Oregon, and California) during 1941 amounted to 1,813,356,400 pounds, valued at \$40,361,742 to the fishermen, representing an increase of 25 percent in volume and 36 percent in value as compared with the catch in the previous year. Of the total 1941 catch, 1,778,773,200 pounds, valued at \$37,737,926 were fish; 34,088,500 pounds, valued at \$2,604,303 were shellfish; and 494,700 pounds, valued at \$19,513 were whale products.

These fisheries gave employment to 22,882 fishermen as compared with 25,183 in 1940. Of the total number of fishermen employed in 1941, 9,704 were employed on vessels and 13,178 in the boat and shore fisheries.

⁶ Data on the operating units and catch of the fisheries of the Pacific Coast States have been taken largely from statistics collected by the various State agencies. Supplementary surveys, compilations, and analyses have been made by agents of the Fish and Wildlife Service in order that the figures may be presented in a manner comparable with those of other sections. While statistics of the fisheries of California are for the calendar year, those of Oregon and Washington are for the fiscal year ending March 31, 1942, except that statistics of the halibut fishery in these latter States are for the calendar year.

Fisheries of the Pacific Coast States, 1941

SUMMARY OF CATCH

Product	Washington		Oregon	
	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
Fish.....	178,845,800	\$11,069,938	84,570,800	\$4,977,620
Shellfish, etc.....	18,407,100	1,552,483	7,154,500	372,332.
Total.....	197,252,900	12,622,421	91,725,300	5,349,952

Product	California		Total	
	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
Fish.....	1,515,356,600	\$21,690,368	1,778,773,200	\$37,737,926
Shellfish, etc.....	8,526,900	679,488	34,088,500	2,604,303
Whale products.....	494,700	19,513	494,700	19,513
Total.....	1,524,378,200	22,389,369	1,813,356,400	40,361,742

Fisheries of the Pacific Coast States, 1941—Continued

OPERATING UNITS: BY STATES

Item	Washington				Oregon		
	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	3,298	96	20	3,414	355	260	615
On boats and shore.....	2,251	3,506	893	6,650	1,973	1,521	3,494
Total.....	5,549	3,602	913	10,064	2,328	1,781	4,109
Vessels:							
Motor.....	613	49	10	672	134	105	239
Net tonnage.....	12,301	414	67	12,782	1,543	1,045	2,588
Sail.....	3			3			
Net tonnage.....	1,421			1,421			
Total vessels.....	616	49	10	675	134	105	239
Total net tonnage.....	13,722	414	67	14,203	1,543	1,045	2,588
Boats:							
Motor.....	878	420	560	1,858	964	914	1,878
Other.....	719	246	17	982	82	114	196
Accessory boats.....	236			236			
Apparatus:							
Purse seines:							
Salmon.....	160			160			
Length, yards.....	88,000			88,000			
Sardine ¹	30			30			
Length, yards.....	13,980			13,980			
Haul seines.....	134	4	3	141	32	6	38
Length, yards.....	12,060	280	300	12,640	17,280	1,020	18,300
Gill nets:							
Drift.....	392	194	385	971	629	413	1,042
Square yards.....	591,920	365,700	1,065,680	2,023,300	2,004,000	581,900	2,585,900
Set.....	217	² 120		137	187	829	1,016
Square yards.....	4,080	26,500		30,580	52,360	237,100	289,460
Lines:							
Trawl, set and hand.....	29,185	50	69	29,304	3,366	5,625	8,991
Hooks.....	785,500	5,000	6,900	797,400	66,000	101,250	167,250
Troll.....	2,120	506	380	3,006	1,482	1,450	2,932
Hooks.....	9,370	2,236	1,680	13,286	6,550	6,409	12,959
Pound nets.....	² 3			3	40		40
Brush weirs.....	3			3			
Dip nets.....	15	33	368	416	306		306
Reef nets.....	89			89			
Beam trawls.....	11			11			
Yards at mouth.....	73			73			
Otter trawls.....	104	4		108	23	6	29
Yards at mouth.....	1,560	60		1,620	363	90	453
Traps:							
Crab.....	2,560	4,340		6,900		20,060	20,060
Crawfish.....					720		720
Octopus.....	150			150			
Dredges, oyster.....		4		4			
Yards at mouth.....		8		8			
Tongs and rakes.....	135	225		360		20	20
Shovels.....	168	2,725		2,893		343	343

¹ Used in the pilchard fishery of the Washington and Oregon coasts.² Fished only on Indian reservations.

Fisheries of the Pacific Coast States, 1941—Continued

OPERATING UNITS: BY STATES—Continued

Item	California					Total	Grand total
	North- ern district	San Francisco district	Mon- terey district	San Pedro district	San Diego district		
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	81	844	998	2,438	1,314	5,675	9,704
On boats and shore	275	785	427	1,397	150	3,034	13,178
Total	356	1,629	1,425	3,835	1,464	8,709	22,882
Vessels:							
Steam		1				1	1
Net tonnage		9				9	9
Motor	39	109	102	321	125	696	1,607
Net tonnage	298	3,711	5,159	10,900	8,763	28,831	44,201
Sail							3
Net tonnage							1,421
Total vessels	39	110	102	321	125	697	1,611
Total net tonnage	298	3,720	5,159	10,900	8,763	28,840	45,631
Boats:							
Motor	203	487	226	759	82	1,757	5,493
Other		7	2	12		21	1,199
Accessory boats		80	115	335	122	652	888
Apparatus:							
Purse seines:							
Mackerel				7		7	7
Length, yards				3,010		3,010	3,010
Salmon							160
Length, yards							88,000
Pilchard or sardine		50	75	117		242	272
Length, yards		21,400	32,503	50,445		104,348	118,328
Tuna		4	21	86		111	111
Length, yards		2,500	12,432	52,895		67,827	67,827
Haul seines							179
Length, yards							30,940
Lampara and ring nets:							
Mackerel				31	14	45	45
Length, yards				19,663	6,860	26,523	26,523
Pilchard or sardine		8	4	33	9	54	54
Length, yards		2,580	1,160	18,024	3,375	25,139	25,139
Tuna				5	2	7	7
Length, yards				3,200	1,040	4,240	4,240
Other			30	40	3	73	73
Length, yards			6,556	8,860	750	16,166	16,166
Gill nets:							
Drift:							
Barracuda				27	2	29	29
Square yards				138,020	9,200	147,220	147,220
Salmon		130				130	2,143
Square yards		433,828				433,828	5,043,028
Sea bass		5	29			34	34
Square yards		16,920	76,013			92,933	92,933
Shad		87				87	87
Square yards		314,900				314,900	314,900
Set:							
"California halibut"			2			2	2
Square yards			6,800			6,800	6,800
Crab			5			5	5
Square yards			8,100			8,100	8,100
Salmon							1,153
Square yards							320,040
Sea bass				30	5	35	35
Square yards				122,360	18,200	140,560	140,560
Shark	5	39	25	17	7	93	93
Square yards	16,240	176,280	89,285	43,520	25,340	350,665	350,665
Miscellaneous	14	32	28	18	3	95	95
Square yards	16,200	38,160	23,700	19,200	3,780	101,040	101,040
Trammel nets				30	5	35	35
Square yards				146,928	43,200	190,128	190,128
Lines:							
Trawl, set, and hand	677	1,423	879	3,234	1,492	7,705	46,000
Hooks	65,972	141,652	73,585	343,723	61,686	686,800	1,651,45
Troll	1,304	1,836	1,765	2,302	2,962	10,169	16,107
Hooks	5,764	4,688	4,952	2,302	2,962	20,668	46,913
Pound nets							43
Brush weirs							3
Fyke nets		2,267				2,267	2,267
Dip nets	67	11				78	800
Bag nets, shrimp		7				7	7
Length, yards		5,360				5,360	5,360
Reef nets							89
Paranzella nets		6		2		8	8
Yards at mouth		100		34		134	134
Beam trawls		15				15	26
Yards at mouth		100				100	173

Fisheries of the Pacific Coast States, 1941—Continued

OPERATING UNITS: BY STATES—Continued

Item	California						Grand total
	North- ern district	San Francisco district	Mon- terey district	San Pedro district	San Diego district	Total	
	Number	Number	Number	Number	Number	Number	Number
Apparatus—continued.							
Otter trawls		6	3			9	146
Yards at mouth		90	45			135	2,209
Traps:							
Crab	1,441	6,240	54			7,735	34,695
Crawfish							720
Octopus			52			52	202
Sea crawfish				3,673	831	4,504	4,504
Harppoons:							
Swordfish				84	15	99	99
Whale		1				1	1
Dredges, oyster							4
Yards at mouth							5
Tongs and rakes		9		2		11	391
Shovels	11	61	24	78		174	3,410
Abalone outfits						8	8

NOTE.—Data on the fisheries of the Pacific coast were obtained largely from records compiled by the individual State fishery departments. Statistics on the operating units for Washington include 23 vessels which also fished in California; of these, 21 also fished in Oregon. Data on the operating units for California include 11 vessels which operated in the Oregon pilehard fisheries and contributed to the catch in that State. There were no California purse seines operating in the Washington pilehard fishery during 1941.

CATCH: BY STATES

Species	Washington		Oregon	
	Pounds	Value	Pounds	Value
FISH				
Carp	253,500	\$9,922		
Cod	5,363,100	179,128	1,000	\$28
Flounders:				
Sole	7,851,400	253,774	3,709,500	77,372
Other	903,500	23,327	898,200	12,173
Halibut	29,290,300	2,826,060	1,323,900	106,058
Herring	137,500	4,771	91,700	2,292
Lingcod	4,030,500	163,157	1,244,500	40,863
Perch	99,000	5,880	9,200	362
Pilehard or sardine	34,200,000	268,339	31,698,000	247,244
Rattfish	1,520,300	6,385		
Rockfishes	1,516,600	69,909	1,301,400	27,672
Sablefish	2,775,400	241,680	261,100	11,212
Salmon:				
Blueback, red, or sockeye	12,435,700	1,616,536	359,600	49,769
Chinook or king	13,169,600	1,285,949	15,399,900	1,446,572
Chum or keta	10,522,800	617,604	4,606,700	237,998
Humpback or pink	11,629,000	537,379		
Silver or coho	10,157,300	896,146	4,384,200	353,478
Shad	101,100	3,114	860,900	37,682
Sharks, including grayfish	25,451,900	1,755,477	6,596,500	914,002
Skates	544,900	1,416	457,500	1,531
Smelts:				
Eulachon	1,863,600	88,917	1,031,800	49,011
Other	511,200	26,242	1,900	75
Steelhead trout	426,100	32,620	2,355,500	178,433
Striped bass			65,200	3,260
Sturgeon	16,200	928	79,600	3,756
Tuna, albacore	1,045,300	155,278	7,545,100	1,176,281
Total	178,845,800	11,069,938	84,570,800	4,977,620
SHELLFISH, ETC.				
Crabs	5,523,800	390,430	6,427,100	309,144
Crawfish, fresh-water			51,900	7,415
Shrimp	27,100	3,783		
Clams:				
Hard	355,900	54,676		
Razor	462,900	60,615	71,000	9,230
Mixed			43,700	3,933
Octopus	23,000	1,452		
Oysters, market:				
Pacific	11,517,100	863,784	559,800	41,985
Western or native	258,200	163,560	1,000	625
Scallops, bay	26,900	6,591		
Squid	209,200	7,427		
Trepang	3,000	165		
Total	18,407,100	\$1,552,483	7,154,500	\$372,332
Grand total	197,252,900	\$12,622,421	91,725,300	\$5,349,952

Fisheries of the Pacific Coast States, 1941—Continued

CATCH: BY STATES—Continued

Species	California ¹		Total	
	Pounds	Value	Pounds	Value
FISH				
Anchovies.....	4,105,400	\$45,670	4,105,400	\$45,670
Barracuda.....	4,201,900	267,501	4,201,900	267,501
Cabrilla.....	383,700	21,506	383,700	21,506
Carp.....	185,200	2,089	468,700	12,011
Catfish.....	176,900	27,309	176,900	27,309
Cod.....			8,364,100	179,156
Flounders:				
"California halibut".....	726,900	77,021	726,900	77,021
"Sole".....	4,625,900	182,412	16,186,800	513,558
Other.....	1,071,000	41,159	2,860,700	76,659
Flyingfish.....	37,900	1,436	37,900	1,436
Groupers.....	277,800	18,070	277,800	18,070
Hake.....	15,000	153	15,000	153
Halibut.....	214,500	18,343	30,828,700	2,950,461
Hardhead.....	1,800	281	1,800	281
Herring.....	789,800	7,521	1,019,000	14,584
Horse mackerel.....	2,068,700	33,578	2,068,700	33,578
Kingfish.....	325,200	10,119	325,200	10,119
Lingcod.....	529,800	26,309	5,804,800	230,329
Mackerel.....	78,167,200	1,010,145	78,167,200	1,010,145
Mullet.....	1,300	134	1,300	134
Perch.....	26,000	1,448	134,200	7,696
Pilchard or sardine.....	1,262,480,400	9,141,470	1,328,378,400	9,657,053
Pompano.....	5,000	1,135	5,000	1,135
Ratfish.....			1,520,300	6,385
Rock bass.....	142,000	10,939	142,000	10,939
Rockfishes.....	3,405,600	145,012	6,223,600	242,593
Sablefish.....	536,500	22,337	3,573,000	275,229
Salmon:				
Blueback, red, or sockeye.....			12,795,300	1,666,305
Chinook or king.....	3,791,000	335,724	32,360,400	3,068,545
Chum or keta.....			15,129,500	855,492
Humpback or pink.....			11,629,000	537,379
Silver or coho.....			14,541,500	1,249,624
Sculpin.....	95,300	8,589	95,300	8,589
Sea bass:				
Black.....	409,500	31,711	409,500	31,711
White.....	910,600	94,129	910,600	94,129
Shad.....	113,100	7,151	1,075,100	47,947
Sharks, including grayfish.....	7,614,200	1,891,520	39,962,600	4,560,999
Sheepshead.....	49,100	2,029	49,100	2,029
Skates.....	224,700	2,593	1,227,100	5,840
Smelts:				
Eulachon.....			2,895,400	137,928
Other.....	452,700	19,925	965,800	46,242
Spanish mackerel.....	1,900	255	3,900	255
Spittail.....	20,400	815	20,400	815
Squawfish.....	600	35	600	35
Steelhead trout.....			2,781,600	211,053
Striped bass.....			65,200	3,260
Sturgeon.....			95,800	4,684
Swordfish.....	916,700	146,300	916,700	146,300
Tomcod.....	1,000	28	1,000	28
Tuna and tunalike fishes:				
Albacore.....	3,341,800	380,207	11,932,200	1,711,766
Bluefin.....	9,519,000	580,758	9,519,000	580,758
Bonito.....	10,826,700	459,147	10,826,700	459,147
Skipjack or striped tuna.....	25,585,500	1,361,567	25,585,500	1,361,567
Yellowfin.....	76,701,800	4,851,319	76,701,800	4,851,319
Whitebait.....	131,100	9,640	131,100	9,640
Whitefish.....	37,000	1,987	37,000	1,987
Yellowtail.....	9,830,700	383,373	9,830,700	383,373
Other fish.....	278,800	8,469	278,800	8,469
Total.....	1,515,356,600	21,690,368	1,778,773,200	37,737,926
SHELLFISH, ETC.				
Crabs.....	4,263,000	307,509	16,213,900	1,007,083
Crawfish, fresh-water.....			51,900	7,415
Sea crawfish or spiny lobster.....	1,305,100	202,796	1,305,100	202,796
Shrimp.....	957,500	19,011	984,600	22,794
Abalone.....	200,500	59,731	200,500	59,731
Clams:				
Hard.....	7,600	883	363,500	55,559
Pismo.....	44,900	9,082	44,900	9,082
Razor.....			533,900	69,845
Soft.....	21,100	2,611	21,100	2,611
Mixed.....			43,700	3,933
Octopus.....	40,100	2,508	63,100	3,960

Fisheries of the Pacific Coast States, 1941—Continued

CATCH: BY STATES—Continued

Species	California ¹		Total	
	Pounds	Value	Pounds	Value
SHELLFISH ETC.—continued				
Oysters, market:				
Eastern.....	18,800	\$8,865	18,800	\$8,865
Pacific.....	236,200	38,516	12,313,100	944,285
Western or native.....	1,100	373	260,300	164,553
Scallops, bay.....			26,900	6,591
Squid.....	1,431,000	27,603	1,640,200	35,030
Trepang.....			3,000	165
Total.....	8,526,900	679,488	34,088,500	2,604,303
WHALE PRODUCTS				
Whale oil.....	263,600	15,907	263,600	15,907
Other whale products ²	231,100	3,606	231,100	3,606
Total.....	494,700	19,513	494,700	19,513
Grand total.....	1,524,378,200	22,389,369	1,813,356,400	40,361,742

¹ Includes the catch taken off Latin America.

² Includes whale meal, meat, bone, and livers.

NOTE.—Prior to 1941, the poundage of halibut, sablefish, lingcod, and rockfishes reported for Washington and Oregon represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights. The landed weight of lingcod, sablefish, and rockfishes (except in the otter trawl fisheries in which the fish are landed round) was converted to round weight by multiplying the dressed weight by the factor 1.43. The factor used to convert halibut from marketed weight was 1.33.

The poundage and value of the catch shown for Washington and Oregon include the following items of livers and viscera: grayfish livers, 3,556,500 pounds, valued at \$956,606; halibut livers, 466,660 pounds, valued at \$260,848; lingcod livers, 33,470 pounds, valued at \$53,196; rockfish livers, 33,730 pounds, valued at \$18,464; sablefish livers, 84,700 pounds, valued at \$95,109; soupfin shark livers, 294,000 pounds, valued at \$1,695,733; skate livers, 18,300 pounds, valued at \$1,449; and halibut, lingcod, and sablefish viscera, 539,400 pounds, valued at \$62,026. Similar data for California are not available. Most of the carcasses of grayfish and soupfin shark were not landed, but were discarded at sea after removal of livers.

Industries related to the fisheries of the Pacific Coast States

OPERATING UNITS, SALARIES, AND WAGES, 1940

Item	Washington	Oregon	California	Total
Transporting:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Persons engaged, on vessels.....	100	22	19	141
Vessels, motor.....	36	17	5	58
Net tonnage.....	757	194	138	1,089
Wholesale and manufacturing:				
Establishments.....	115	54	182	351
Persons engaged:				
Proprietors.....	87	46	224	357
Salaried employees.....	269	122	929	1,320
Wage earners:				
Average for season.....	2,840	1,766	12,826	17,432
Average for year.....	1,186	848	4,157	6,191
Paid to salaried employees.....	\$623,498	\$276,375	\$2,421,572	\$3,321,445
Paid to wage earners.....	\$1,329,504	\$870,925	\$5,927,485	\$8,127,914
Total salaries and wages.....	\$1,953,002	\$1,147,300	\$8,349,057	\$11,449,359
Fishermen manufacturing.....	153	30	39	222

PRODUCTS MANUFACTURED

Item	Washington		Oregon		California	
	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:						
Barracuda, fresh filets ¹ pounds.....					1,260,000	\$201,600
Cabrilla, fresh filets ¹ do.....					120,000	21,600
Cod:						
Fresh filets ¹ do.....	201,031	\$22,271	(²)	(²)		
Frozen filets ¹ do.....	8,505	1,159	(²)	(²)		
Salted:						
Dry, partly boned..... do.....	2,163,507	168,444			(¹)	(¹)
Boneless and absolutely boneless pounds.....	665,518	106,215			318,018	65,459

See footnotes at end of table.

Industries related to the fisheries of the Pacific Coast States—Continued

PRODUCTS MANUFACTURED—Continued

Item	Washington		Oregon		California	
	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments—continued						
Flourishers:						
Fresh filets ¹.....pounds..	2,303,153	\$296,119	537,271	\$75,125	1,320,000	\$211,200
Fresh steaks ¹.....do.....					60,000	15,000
Frozen filets ¹.....do.....	620,642	104,248	(²)	(²)		
Grouper, fresh filets ¹.....do.....					110,000	17,600
Halibut:						
Frozen steaks ¹.....do.....	269,200	60,408				
Liver oil ¹.....gallons..	15,129	386,561	(²)	(²)		
Herring, sea, spiced.....pounds..	18,890	2,614				
Lingcod:						
Fresh filets ¹.....do.....	307,414	31,497	(²)	(²)	215,000	32,250
Frozen filets ¹.....do.....	123,062	16,576	(²)	(²)		
Mackerel, canned ¹.....standard cases..					843,719	2,947,232
Pilchard or sardine:						
Canned filets ¹.....do.....					78,297	721,199
Canned ¹.....do.....			(²)	(²)	4,927,157	17,364,129
Meal ¹.....tons.....	3,324	209,092	2,081	138,068	92,574	5,595,112
Oil ¹.....gallons..	407,513	223,895	287,896	157,903	17,429,738	9,497,492
Rockfishes:						
Fresh filets ¹.....pounds..	180,357	23,987	173,040	23,984	680,000	122,400
Frozen filets ¹.....do.....	42,220	6,617	(²)	(²)		
Sablefish:						
Kipperd.....do.....	223,373	37,855			390,496	80,116
Salted.....do.....	58,090	3,281				
Salmon:						
Frozen steak ¹.....do.....	230,500	55,025				
Salted:						
Mild-cured ³.....do.....	3,414,675	707,633	(²)	(²)	848,610	173,412
Eggs for caviar.....do.....	291,518	26,856				
Kipperd.....do.....	1,118,013	224,380	(²)	(²)	(²)	(²)
Smoked.....do.....	400,249	66,464	41,012	12,853	362,039	148,388
Canned: ¹						
Blueback, red, or sockeye standard cases.....	113,993	2,218,806	29,844	632,148		
Chinook or king.....do.....	94,543	1,305,855	226,274	3,117,669		
Chum or keta.....do.....	68,347	473,305	81,897	563,928		
Humpback or pink.....do.....	154,475	1,197,884				
Silver or coho.....do.....	54,442	637,205	43,128	578,833		
Steelhead trout.....do.....	9,686	134,561	22,960	339,123		
Eggs for bait.....do.....	3,065	54,786	(²)	(²)		
Meal ¹.....tons.....	862	47,458	(²)	(²)		
Oil: ¹						
Edible.....gallons..			25,489	35,858		
Industrial.....do.....	103,798	65,235				
Sea bass:						
Black, fresh steaks ¹.....pounds..					228,000	45,600
White, fresh filets ¹.....do.....					235,000	63,450
Shad:						
Canned ¹.....standard cases..	1,876	8,261	1,761	7,960		
Roe, canned ¹.....do.....	(²)	(²)	1,353	46,253		
Sharks, including grayfish:						
Fresh filets ¹.....pounds..			(²)	(²)	180,000	25,200
Oil: ¹						
Body.....gallons..	31,116	12,732	(²)	(²)		
Liver.....do.....	209,736	1,464,279	(²)	(²)	298,352	6,255,994
Swordfish, fresh steaks ¹.....pounds..					64,000	20,430
Totouva, fresh steaks ¹.....do.....					912,000	255,360
Tuna and tunalike fishes:						
Canned: ¹						
Albacore.....standard cases..	2,827	36,139	191,347	2,272,614	113,614	935,980
Bluefin.....do.....					167,564	965,601
Bonito.....do.....					223,676	1,072,762
Striped.....do.....					456,194	2,773,733
"Tonno".....do.....					97,094	839,961
Yellowfin.....do.....					1,525,112	9,740,979
Yellowtail.....do.....					150,983	719,979
Liver-oil ¹.....gallons..	(²)	(²)	(²)	(²)	151,076	1,280,457
Abalone, steaks.....pounds..					333,991	126,716
Crabs:						
Meat, packaged, fresh-cooked.....do.....	337,351	119,320	939,695	254,170	103,272	38,947
Canned ¹.....standard cases..	6,616	105,598	6,673	105,043		
Clams, hard:						
Fresh-shucked.....gallons..	2,406	3,580				
Canned: ¹						
Whole.....standard cases..	10,084	46,733			(²)	(²)
Mincd.....do.....	7,820	39,868				
Juice.....do.....	4,082	8,918				
Shell products: ¹						
Poultry feed.....tons.....	2,029	21,587				
Lime.....do.....	1,469	8,885				
Clams, razor:						
Canned: ¹						
Whole.....standard cases..	2,279	25,394	(²)	(²)		
Mincd.....do.....	15,233	106,209	(²)	(²)		

Industries related to the fisheries of the Pacific Coast States—Continued

PRODUCTS MANUFACTURED—Continued

By manufacturing establishments—continued	Item	Washington		Oregon		California		
		Quantity	Value	Quantity	Value	Quantity	Value	
Oysters:								
Pacific:								
	Fresh-shucked	gallons	344,755	\$430,408	114,970	\$138,669	18,677	\$30,584
	Canned ¹	standard cases	167,324	670,451	10,921	45,568		
	Smoked, canned ¹	do	1,165	36,217				
	Western or native, fresh-shucked	gallons	14,667	109,264	9,322	68,920	4,178	37,602
Shell products: ²								
	Poultry feed	tons	7,653	77,340	(3)	(3)	14,809	85,794
	Lime	do	4,912	30,670	(3)	(3)	(3)	(3)
Whole products:								
	Meal ³	do					9	283
	Oil ⁴							
	Whale	gallons					32,720	15,183
	Sperm	do					1,334	724
Unclassified products:								
	Packaged ⁵	pounds	(3)	(3)	\$283,676	\$43,547		
	Cured	do	773,660	5,599	91,901	13,580	638,328	101,594
	Canned ⁶							
	Cat and dog food	standard cases					810,454	1,668,177
	Other	do	2,882	40,770	6,825	56,298	13,348	81,218
Oils:								
	Tuna and mackerel	gallons			19,319	10,411	229,459	89,254
	Other	do	41,461	521,831	(4)	(4)	68,797	1,285,148
	Meal, tuna and mackerel ⁷	tons			(4)	(4)	8,438	470,501
	Miscellaneous ⁸			52,245		241,215		1,967,777
	Total		12,882,960			8,978,737		68,219,257
By fishermen:								
Cod, salted:								
	Green	pounds	3,202,700	136,115				
	Tongas	do	44,205	4,763				
	Herring, sea, smoked	do					37,000	3,700
	Sablefish, salted	do	122,200	6,721				
	Crab meat, packaged, fresh-cooked	do			5,176	1,553		
Shrimp:								
	Sun-dried	do					138,722	34,660
	Bran	tons					131	2,620
	Clams, mixed, fresh-shucked	gallons			1,193	1,551		
	Scallops, bay, fresh-shucked	do	553	1,245				
	Total			148,844		3,104		41,000
	Grand total			13,031,804		8,981,841		68,260,257

¹ Data are for 1941.² The production of this item has been included under "Unclassified products."³ This item is usually an intermediate product and although included in the total, may be shown in its final stage of processing in this or another State.⁴ Includes both 1940 and 1941 data.⁵ This item has been included in "Miscellaneous."⁶ Includes fresh fillets of cod, lingcod, and shark; frozen fillets of cod, flounder, halibut, lingcod, rockfishes, salmon, and shark; and fresh-shucked Eastern oysters.⁷ Includes salted salmon bellies and sturgeon caviar; and smoked sea herring.⁸ Includes kippered salmon, sturgeon, and albacore tuna; and mild-cured salmon.⁹ Includes dry-salted barracuda, bonito, jewfish fillets, mackerel, pilchards, black sea bass, tuna fillets, yellowtail, and partly-boned cod; hard-salted salmon; smoked barracuda, chubs, sea herring, and whitefish; and kippered salmon.¹⁰ Includes canned shad roe, smoked crabmeat, hard-clam chowder, shellfish paste, and fish cakes, balls, etc.¹¹ Includes canned pilchards, sturgeon, razor clam products, sturgeon caviar, and salmon eggs for bait.¹² Includes canned rockfish, squid, abalone, tuna roe, hard clams, fish paste, and smoked tuna.¹³ Includes cod, flounder, mackerel, sablefish, tuna, and miscellaneous liver oils; and tuna body oil.¹⁴ Includes mackerel and miscellaneous liver oils.¹⁵ Includes frozen fillets of halibut, sablefish, and salmon; fresh-shucked bay scallops; and shark meal.¹⁶ Includes halibut, shark, tuna and miscellaneous live oils; shark and miscellaneous body oils; salmon, shark, tuna and mackerel, and miscellaneous meals; and oyster-shell poultry feed and lime.¹⁷ Includes shark and miscellaneous fish meals; shrimp bran; oyster-shell lime; liquid glue; miscellaneous green-scrap; kelp products and marine-shell novelties.

NOTE.—Unless otherwise indicated, data are for 1940. The total value of manufactured products in the Pacific Coast States was as follows: By manufacturing establishments, \$90,080,984; and by fishermen, \$192,948. Some of the above products may have been imported from another State or foreign country; therefore, they cannot be correlated directly with the catch within the State. All persons engaged in the preparation of fishermen's manufactured products have also been included as fishermen.

WASHINGTON

Fisheries of Washington, 1941

CATCH: BY DISTRICTS

Species	Puget Sound district		Coastal district		Columbia River district	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Carp.....					283,500	\$9,922
Cod ¹	8,347,900	\$178,772	15,200	\$356		
Flounders:						
"Sole".....	7,380,900	239,141	470,500	14,633		
Other.....	705,200	17,912	171,600	5,148	26,700	267
Grayfish.....	23,532,300	751,620	447,300	10,245		
Halibut.....	29,256,000	2,823,251	34,300	2,809		
Herring.....	137,500	4,771				
Lingcod.....	3,893,300	158,445	135,400	4,676	1,800	36
Perch.....	99,000	5,880				
Pilchard or sardine.....	11,300	257	34,188,700	268,082		
Ratfish.....	1,520,300	6,385				
Rockfishes.....	1,368,900	66,496	126,500	3,201	21,200	212
Sablefish.....	2,773,200	241,599	2,200	81		
Salmon:						
Blueback, red, or sockeye.....	10,090,600	1,255,463	2,199,500	340,922	145,600	20,151
Chinook or king.....	5,014,200	500,301	1,505,400	174,191	6,650,000	611,457
Chum or keta.....	6,677,200	437,538	2,172,100	106,432	1,673,500	73,634
Humpback or pink.....	11,629,000	537,379				
Silver or coho.....	6,964,400	591,396	2,671,100	261,280	521,800	43,470
Shad.....					101,100	3,114
Shark, soupfin.....	1,439,900	988,416	32,400	5,196		
Skates.....	544,900	1,416				
Smelt:						
Eulachon.....			36,900	2,149	1,826,700	86,768
Surf or silver.....	335,600	17,988	175,600	8,254		
Steelhead trout.....			35,000	2,975	391,100	29,645
Sturgeon.....			1,800	248	14,400	680
Tuna, albacore.....	79,000	11,265	477,200	67,762	489,100	76,251
Total.....	121,800,600	8,835,691	44,898,700	1,278,640	12,146,500	955,607
SHELLFISH, ETC.						
Crabs.....	635,600	40,262	4,870,200	350,168		
Shrimp.....	27,100	3,783				
Clams:						
Hard:						
Butter.....	173,800	24,593				
Little neck.....	182,100	30,083				
Razor.....			462,900	60,615		
Octopus.....	23,000	1,452				
Oysters, market:						
Pacific.....	1,446,700	108,504	10,070,400	755,280		
Western or native.....	258,200	163,560				
Scallops, bay.....	26,900	6,591				
Squid.....	209,200	7,427				
Trepang.....	3,000	165				
Total.....	3,003,600	386,420	15,403,500	1,166,063		
Grand Total.....	124,804,200	9,222,111	60,302,200	2,444,703	12,146,500	955,607

¹ Nearly all of the cod were taken off Alaska.

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod and rockfishes reported for Washington represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights.

Fisheries of the Puget Sound district of Washington, 1941

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets		Lines		Pound nets ²	Brush weirs
	Salmon	Pilchard or sardine ¹		Drift	Set ²	Trawl, set, and hand	Troll		
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	1,233	328	402	22	17	1,364	461	6	4
On boats and shore.....	16		402	411	17	628	288	6	4
Total.....	1,249	328	402	433	17	1,992	749	6	4
Vessels:									
Motor.....	155	30		13		175	232		
Net tonnage.....	3,516	1,831		82		4,841	1,934		
Sail.....						3			
Net tonnage.....						1,421			
Total vessels.....	155	30		13		178	232		
Total net tonnage.....	3,516	1,831		82		6,262	1,934		
Boats:									
Motor.....	4		82	379	17	250	192	3	2
Other.....			52			378			
Accessory boats.....	160	30				46			
Apparatus:									
Number.....	160	30	134	392	17	29,185	2,120	3	3
Length, yards.....	88,000	13,980	12,060	591,920	4,080				
Square yards.....						785,500	9,370		
Hooks.....									

Item	Dip nets	Reef nets	Beam trawls	Otter trawls	Traps		Tongs and rakes, oyster	Shovels	Total, exclusive of duplication
					Crab	Octopus			
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....			18	326					3,298
On boats and shore.....	15	356	15	24	74	6	135	168	2,251
Total.....	15	356	33	350	74	6	135	168	5,549
Vessels:									
Motor.....			6	96					613
Net tonnage.....			44	2,195					12,301
Sail.....									3
Net tonnage.....									1,421
Total vessels.....			6	96					616
Total net tonnage.....			44	2,195					13,722
Boats:									
Motor.....	15		5	8	64	5	35		878
Other.....		178			10	1	100		719
Accessory boats.....									236
Apparatus:									
Number.....	15	89	11	104	2,560	150	135	168	
Yards at mouth.....			73	1,560					

¹ Operated in the Washington coast, Oregon, and California pilchard fishery. See separate sections for catch statistics. Of the total vessels, 23 were used in the pilchard fishery in California as well as in the Northwest pilchard fishery, 12 also operated in the halibut fishery out of Puget Sound, 1 operated in the salmon fishery out of Puget Sound, and 1 operated in the otter trawl fishery out of Puget Sound.

² Fished only on Indian reservations.

Fisheries of the Puget Sound district of Washington, 1941—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines ¹		Gill Nets			
	Pounds	Value	Pounds	Value	Drift		Set ²	
FISH	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod.....	500	\$13	4,800	\$122				
Flounder, other than "sole"			4,800	\$122				
Grayfish ⁴	2,500	79	105,800	3,344	13,300	\$421	8,300	\$263
Herring.....			70,600	2,450				
Lingcod ⁴	1,000	19	1,200	23			7,200	138
Perch.....			85,900	5,206				
Pilchard or sardine.....			11,300	257				
Ratfish ⁴	300	1						
Rockfishes ⁴			4,100	98	200	5	1,700	41
Salmon: ⁵								
Blueback, red, or sockeye.....	8,737,700	1,087,433			284,500	35,335		
Chinook or king.....	674,400	35,230	13,900	678	1,208,800	113,164	49,000	2,391
Chum or keta.....	5,262,800	338,093	45,900	3,144	730,200	52,577	582,300	39,888
Humpback or pink.....	9,307,800	430,141	85,900	3,960	1,485,900	69,038		
Silver or coho.....	3,687,400	276,344	14,200	1,044	1,064,200	93,158	124,300	9,136
Skate.....			500	1				
Smelt, surf or silver.....			335,600	17,988				
Total.....	27,674,400	2,167,353	779,700	38,315	4,787,100	363,698	772,800	51,857
SHELLFISH, ETC.								
Squid.....	300	11	208,900	7,416				
Octopus.....			6,300	398				
Trepang.....			1,800	100				
Total.....	300	11	217,000	7,914				
Grand total.....	27,674,700	2,167,364	996,700	46,229	4,787,100	363,698	772,800	51,857

Species	Lines				Pound nets ²		Brush weirs	
	Trawl, set, and hand		Troll		Pounds	Value	Pounds	Value
FISH	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod.....	7,325,600	\$151,477	400	\$11				
Flounders, other than "sole"	1,200	30	200	5				
Grayfish ⁴	7,643,000	246,944	14,200	448				
Halibut ⁴	29,033,900	2,804,564	137,400	12,341				
Herring.....							34,000	\$1,180
Lingcod ⁴	1,370,900	92,177	148,400	2,947				
Perch.....	600	36						
Ratfish ⁴	203,400	854			500	\$2		
Rockfishes ⁴	660,200	44,548	7,000	608				
Sablefish ⁴	2,383,400	220,684						
Salmon: ⁵								
Blueback, red, or sockeye.....			100	12	9,900	1,230		
Chinook or king.....			2,976,300	344,358	62,400	3,045		
Chum or keta.....			200	14	15,900	1,089		
Humpback or pink.....			34,300	1,274	199,200	9,183		
Silver or coho.....			1,923,800	200,652	76,600	5,630		
Shark, soupfin ⁴	1,439,900	988,416						
Skate.....	110,100	286						
Tuna, albacore.....			79,000	11,265				
Total.....	50,172,200	4,550,016	5,321,300	573,935	364,500	20,179	34,000	1,180

See footnotes at end of table.

Fisheries of the Puget Sound district of Washington, 1941—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Reef nets		Beam trawls		Otter trawls	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Cod							1,021,400	\$27,271
Flounders:								
"Sol"							7,380,900	239,141
Other							690,000	17,755
Grayfish ¹							15,743,200	500,121
Halibut ⁴							84,700	6,346
Herring	32,900	\$1,141						
Lingcod ⁵							2,364,600	63,141
Perch							12,500	638
Ratfish ⁴							1,316,100	5,528
Rockfishes ¹							693,700	21,196
Sablefish ⁴							389,800	20,915
Salmon:								
Blueback, red or sockeye			1,058,400	\$131,453				
Chinook or king			29,400	1,435				
Chum or keta			39,900	2,733				
Humpback or pink			515,000	23,783				
Silver or coho			73,000	5,432				
Skate							434,300	1,129
Total	32,900	1,141	1,717,500	164,836			30,144,200	903,181
SHELLFISH, ETC.								
Shrimp					27,100	\$3,783		
Octopus							1,900	120
Scallops, bay ⁷					26,900	6,591		
Trepang					1,200	65		
Total					55,200	10,439	1,900	120
Grand total	32,900	1,141	1,717,500	164,836	55,200	10,439	30,146,100	903,301

Species	Traps				Tongs and rakes, oyster		Shovels	
	Crab		Octopus		Pounds	Value	Pounds	Value
SHELLFISH, ETC.	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Crabs ⁶	653,600	\$40,262						
Clams, hard:								
Butter							173,900	\$24,593
Little neck							182,100	30,083
Octopus			14,800	\$934				
Oysters, market:								
Pacific					1,446,700	\$108,504		
Western or native					258,200	163,560		
Total	653,600	40,262	14,800	934	1,704,900	272,064	355,900	54,676

¹ Includes the catch of smelt by drag-bag nets.

² Fished only on Indian reservations.

³ Most of the cod were taken off Alaska.

⁴ Value includes amount received for carcass livers and viscera.

⁵ Statistics on the catch of salmon except those taken by troll lines, are reported to the State in number rather than pounds. The factors used in the above table for converting number of salmon to weight in pounds were as follows: blueback, red or sockeye, 6.5 pounds; chinook or king, 24.4 pounds; chum or keta, 10 pounds; humpback or pink, 5.8 pounds; and silver or coho, 8.4 pounds.

⁶ The weight of crabs shown is based on an average of 20 pounds per dozen.

⁷ Statistics on hard clams are based on yields of 28 percent edible meats for butter clams and 24 percent for little neck clams.

⁸ Statistics on oysters shown are based on yields of 18 percent edible meats for native oysters and 10 percent for Pacific oysters.

⁹ The weight of bay scallops is based on a yield of 17 per cent edible meat.

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod and rockfishes reported for Washington represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights. The landed weight of lingcod, sablefish, and rockfishes (except in the otter trawl fishery) was converted to round weight by multiplying the dressed weight by the factor 1.43. The factor used to convert halibut from marketed weight to round weight was 1.33.

The poundage and value of the catch shown above include the following items of livers and viscera: Grayfish livers, 2,824,000 pounds, valued at \$743,559; halibut livers, 448,400 pounds, valued at \$254,643; lingcod livers, 16,870 pounds, valued at \$45,913; rockfishes livers, 33,730 pounds, valued at \$18,464; sablefish livers, 77,700 pounds, valued at \$93,094; soupfin shark livers, 172,800 pounds, valued at \$988,416; and halibut, lingcod and sablefish viscera, 539,400 pounds, valued at \$62,026.

Fisheries of the coastal district of Washington, 1941

OPERATING UNITS: BY GEAR ¹

Item	Haul seines	Gill nets		Lines		Dip nets	Otter trawls	Traps, crab	Tongs and rakes, oyster	Dredges, oysters	Shovels	Total, exclusive of duplication
		Drift	Set ²	Troll	Set							
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Fishermen:												
On vessels.....				78	4		14	21				96
On boats and shore.	22	252	120	93	26	33		78	260	8	2,725	3,506
Total.....	22	252	120	171	30	33	14	99	260	8	2,725	3,602
Vessels, motor.....				41	2		4	9		2		49
Net tonnage.....				315	10		75	73		13		414
Boats:												
Motor.....		194	35	62	21	12		53	70			420
Other.....	4		80						160	2		246
Apparatus:												
Number.....	4	194	120	506	50	33	4	4,340	225	4	2,725	
Length, yards.....	280											
Square yards.....		365,700	26,500									
Yards at mouth.....							60			8		
Hooks.....				2,236	5,000							

¹ In addition a fleet of 20 Puget Sound purse seine vessels operated in the Washington coast pilchard fishery. These vessels were manned by a total of 220 fishermen and had an aggregate capacity of 1,294 net tons.

² Fished by Indians on their reservations.

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Drift		Set ¹	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Grayfish ²					126,200	\$382		
Pilchard.....	34,188,700	\$268,082						
Salmon: ³								
Blueback, red, or sockeye.....					700	108	2,198,800	\$340,814
Chinook or king.....					302,900	18,931	90,800	5,675
Chum or keta.....					1,504,500	73,720	667,600	32,712
Silver or coho.....			1,000	\$87	390,000	33,930	600,200	52,217
Shark, soupfin ²					25,700	604		
Smelt, surf or silver.....			13,100	616				
Steelhead trout ⁴							35,000	2,975
Sturgeon.....					1,800	248		
Total.....	34,188,700	268,082	14,100	703	2,351,800	127,923	3,592,400	434,393

Fisheries of the coastal district of Washington, 1941—Continued

CATCH: BY GEAR—Continued

Species	Lines				Dip nets		Otter trawls	
	Troll		Trawl, set, and hand		Pounds	Value	Pounds	Value
	Pounds	Value	Pounds	Value			15,200	\$356
FISH								
Cod								
Flounders:								
" Sole "							470,500	14,633
Other							171,900	5,148
Grayfish ¹			8,800	\$148			312,300	9,715
Halibut ²	17,700	\$1,440	16,500	1,390			100	9
Lingcod	36,400	1,310					99,000	3,366
Rockfishes	30,300	758					96,200	2,443
Sablefish							2,200	81
Salmon ³								
Chinook or king	1,111,000	149,541					700	44
Silver or coho	1,679,900	175,046						
Shark, soupfin ⁴			4,200	2,574			2,500	1,718
Smelt:								
Eulachon					36,900	\$2,149		
Surf or silver					162,500	7,638		
Tuna, albacore	477,200	67,792						
Total	3,352,500	395,857	29,500	4,382	199,400	9,787	1,170,300	37,513
HELLFISH								
Crabs ⁵							9,300	669
Grand Total	3,352,500	395,857	29,500	4,382	199,400	9,787	1,179,600	38,182

Species	Traps, crab		Dredges, tows, and rakes		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
HELLFISH						
Crabs ⁵	4,860,900	\$349,499				
Clams, razor ⁶					462,900	\$60,615
Oysters, Pacific, market ⁷			10,070,400	\$755,280		
Total	4,860,900	349,499	10,070,400	755,280	462,900	60,615

¹ Fished by Indians on their reservations.

² Value includes amount received by fishermen from sale of livers.

³ Statistics on the catch of salmon except those taken by troll lines are reported to the State in number rather than pounds. The factors used in the above table for converting number of salmon to weight in pounds were as follows: blueback, red or sockeye, 4 pounds; chinook or king, 22.6; chum or keta, 10.7 pounds; silver or coho, 10.6 pounds; and steelhead trout, 9 pounds.

⁴ Steelhead trout shown in this table were taken on Indian reservations.

⁵ The weight of crabs shown is based on an average of 22 pounds per dozen.

⁶ The weight of razor clams is shown in pounds of edible meats, based on a yield of 42 percent of the round weight.

⁷ The statistics on oysters used in this table are based on a yield of 12 percent of edible meats.

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod and rockfishes reported for Washington represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights. The dressed weight of halibut has been converted to round weight by multiplying the dressed weight by 1.33. Lingcod, sablefish and true cod in the otter trawl fishery, and lingcod and rockfishes in the troll fishery were changed from dressed to round weight by multiplying the dressed weight by 1.43.

The poundage and value of the catch shown above include the following items of livers: Grayfish, 36,900 pounds, valued at \$9,360; soupfin shark, 800 pounds, valued at \$4,576; and halibut, 560 pounds, valued at \$262.

Fisheries of the Columbia River district of Washington, 1941

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, drift	Lines		Dip nets	Total, exclusive of duplication
			Trawl and set	Troll		
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....				20		20
On boats and shore.....	9	453	34	102	368	893
Total	9	453	34	122	368	913
Vessels, motor:				10		10
Net tonnage.....				67		67
Boats:						
Motor.....	3	385	25	68	133	560
Other.....	3		9		5	17
Apparatus:						
Number.....	3	385	69	380	368	
Length, yards.....	300					
Square yards.....		1,065,680				
Hooks.....			6,900	1,680		

CATCH: BY GEAR¹

Species	Haul seines		Gill nets, drift		Lines				Dip nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH										
Carp.....	283,500	\$9,922								
Flounders, other than "sole".....			26,700	\$267						
Lingcod.....			100	2			1,700	\$34		
Rockfishes.....			2,600	26			18,600	186		
Salmon:										
Blueback, red, or sockeye.....			88,500	12,248					57,100	\$7,903
Chinook or king.....			5,616,800	500,457			393,800	54,029	639,400	56,971
Chum or keta.....			1,673,500	73,634						
Silver and coho.....			244,000	19,691			277,600	23,763	200	16
Shad.....			96,100	2,960					5,000	154
Smelt, eulachon.....									1,826,700	56,768
Steelhead trout.....			369,300	27,993					21,800	1,652
Sturgeon.....			12,100	571	2,300	\$109				
Tuna, albacore.....							489,100	76,251		
Total	283,500	9,922	8,129,700	637,849	2,300	109	1,180,800	154,263	2,550,200	153,464

¹ The following species landed in Columbia River were caught off the coast: lingcod, rockfishes, albacore tuna, and most of the troll-caught salmon.

OREGON

Fisheries of Oregon, 1941

CATCH: BY DISTRICTS

Species	Columbia River district		Coastal district	
	Pounds	Value	Pounds	Value
FISH				
Cod	1,000	\$28		
Flounders:				
"Solé"	1,997,100	41,616	1,712,400	\$35,756
Other	823,100	11,188	63,100	985
Grayfish	4,121,500	132,764	1,682,400	74,960
Halibut	1,129,100	90,801	194,800	15,257
Herring			91,700	2,292
Lingcod	837,900	28,787	406,600	12,076
Perch			9,200	368
Pilchard or sardine			31,668,000	247,244
Rockfishes	1,034,700	21,918	266,700	5,754
Sablefish	180,300	8,279	80,800	2,933
Salmon:				
Bucktail, red, or sockeye	359,600	49,769		
Chinook or king	13,897,200	1,274,229	1,502,600	172,643
Chum or keta	2,473,800	108,848	2,132,900	129,040
Silver or cohoe	1,408,600	116,695	2,975,600	236,783
Shad	279,300	5,602	541,900	29,090
Shark, soapin	457,600	282,308	835,000	424,070
Skate	190,000	481	267,500	1,350
Smelt:				
Eulachon	1,041,800	49,011		
Surf			1,900	75
Steelhead trout	2,214,500	167,858	141,000	10,575
Striped bass			65,200	3,290
Sturgeon	78,200	3,689	1,400	67
Tuna, albacore	6,029,300	998,565	1,524,800	237,716
Total	38,535,600	3,335,436	46,035,200	1,642,154
SHELLFISH				
Crabs			6,427,100	309,144
Crawfish, fresh-water	51,900	7,415		
Clams:				
Razor			71,000	9,230
Mixed			43,700	3,933
Oysters, market:				
Pacific			559,500	41,985
Western or native			1,000	625
Total	51,900	7,415	7,102,600	364,917
Grand total	38,587,500	3,342,851	53,137,800	2,007,101

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod and rockfishes reported represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights.

Fisheries of the Columbia River district of Oregon, 1941

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines	
		Drift	Set	Trawl and set	Troll
Fishermen:	Number	Number	Number	Number	Number
On vessels				149	301
On boats and shore	384	846	107	93	252
Total	384	846	107	242	553
Vessels, motors:				56	117
Net tonnage				613	1,239
Boats:					
Motor	18	629	95	70	168
Other	32		12	4	
Apparatus:					
Number	32	629	187	3,366	1,482
Length, yards	17,280				
Square yards		2,004,000	52,360		
Hooks				66,000	6,550

Fisheries of the Columbia River district of Oregon, 1941—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Otter trawls	Pound nets	Dip nets	Traps, crawfish	Total, exclusive of duplication
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	71				355
On boats and shore.....	2	67	306	16	1,973
Total.....	73	67	306	16	2,328
Vessels, motors	22				134
Net tonnage.....	431				1,543
Boats:					
Motor.....	1	31		9	964
Other.....		32		5	82
Apparatus:					
Number.....	23	40	306	720	
Yards at mouth.....	363				

CATCH: BY GEAR ¹

Species	Haul seines		Gill nets				Lines			
			Drift		Set		Trawl and set		Troll	
			Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
Flounders:										
"Sole".....							9,500	\$274		
Other.....	100	\$1	260,600	\$2,606	600	\$6	700	11	100	\$1
Grayfish ²							419,100	13,213		
Halibut ²							1,116,100	89,876	500	37
Lingcod ²							101,700	4,392	15,000	210
Rockfishes.....			34,000	340			87,500	2,301	52,700	527
Sablefish ²							160,600	7,800		
Salmon:										
Blueback, red, or sockeye.....	55,800	7,723	213,400	29,535	13,800	1,910				
Chinook or king.....	2,879,500	256,563	6,988,300	622,658	193,300	17,223			748,200	102,653
Chum or keta.....	354,200	15,585	2,051,200	90,253	30,400	1,338				
Silver or coho.....	194,500	15,696	414,400	33,442	3,900	315			616,600	52,781
Shad.....	133,200	4,103	141,400	4,355	3,000	92				
Shark, soupfin ²							394,400	263,104	4,200	15
Skate ²							105,000	234		
Smelt, eulachon.....			276,500	13,134						
Steelhead trout.....	677,300	51,339	807,900	61,239	33,700	2,554				
Sturgeon.....	200	9	47,200	2,228	7,200	340	19,500	920	1,300	61
Tuna, albacore.....									6,020,300	938,565
Total.....	4,294,800	351,019	11,234,900	859,790	285,900	23,778	2,414,100	382,125	7,458,900	1,094,850

See footnotes at end of table.

Fisheries of the Columbia River district of Oregon, 1941—Continued

CATCH: BY GEAR—Continued

Species	Otter trawls		Pound nets		Dip nets		Traps, crawfish	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	1,000	\$29						
Cod								
Flounders:								
"sole"	1,987,000	41,342						
Other	527,400	8,227	33,600	\$336				
Grayfish ¹	3,702,400	110,551						
Halibut ²	12,500	888						
Lingcod ²	721,100	24,183	100	2				
Rockfishes	838,400	18,529	22,100	221				
Sablefish ²	19,700	479						
Salmon:								
Blueback, red, or sockeye			27,500	3,806	49,100	\$6,795		
Chinook or king			718,300	64,100	2,369,600	211,131		
Chum or keta			38,000	1,672				
Silver or cohoo			157,200	12,686	22,000	1,775		
Shad			1,700	52				
Shark, soupfin ²	59,000	19,189						
Skate ²	85,000	247						
Smelt, calachon					755,300	35,877		
Steelhead trout			396,900	30,985	298,700	22,641		
Sturgeon	1,300	61	900	42	600	29		
Total	7,955,400	232,724	1,396,300	112,903	3,495,300	278,247		
SHELLFISH								
Crawfish, fresh water							51,900	\$7,415
Grand total	7,955,400	232,724	1,396,300	112,903	3,495,300	278,247	51,900	7,415

¹ Of the above species the following are taken off the Oregon and Washington coasts but landed in the Columbia River district: cod, sole, grayfish, halibut, rockfishes, sablefish, shark, skate and tuna. Most of the flounders, lingcod and troll caught salmon are also taken in coastal waters.

² Values shown include receipts from sale of livers.

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod and rockfishes reported represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights. When the following species have been landed dressed, the poundage has been converted to round weight by multiplying by the following factors: Halibut, by 1.33; lingcod, rockfishes, and sablefish, by 1.43.

The poundage and value of the catch shown above include the following items of livers: grayfish, 494,600 pounds, valued at \$129,593; halibut, 15,200 pounds, valued at \$5,807; lingcod, 11,200 pounds, valued at \$5,101; sablefish, 4,200 pounds, valued at \$1,453; soupfin shark, 44,200 pounds, valued at \$280,638; and skate, 7,600 pounds, valued at \$383.

Fisheries of the coastal district of Oregon, 1941

OPERATING UNITS: BY GEAR¹

Item	Haul seines	Gill nets		Lines		Otter trawls	Traps, crab	Tongs and rakes, oyster	Shovels	Total, exclusive of duplication
		Drift	Set	Trawl and set	Troll					
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels				171	177	19	78			260
On boats and shore	18	460	269	120	332		220	20	343	1,521
Total	18	460	269	291	509	19	298	20	343	1,791
Vessels, motor				64	78	6	30			105
Net tonnage				673	717	86	309			1,045
Boats:										
Motor	6	413	173	97	221		206	5		914
Other	6		70					10	28	114
Apparatus:										
Number	6	413	829	5,625	1,450	6	20,060	20	343	
Length, yards	1,020									
Square yards		581,900	237,100							
Yards at mouth						90				
Hooks				101,250	6,409					

¹ In addition there was a combined fleet of 32 Washington and California purse seine vessels in the Oregon coast pilchard fishery. These vessels were manned by a total crew of 362 fishermen and had an aggregate tonnage of 2,240 net tons.

Fisheries of the coastal district of Oregon, 1941—Continued

CATCH: BY GEAR

Species	Purse seines, ¹ pilchard		Haul seines		Gill nets		Lines			
							Trawl and set		Troll	
FISH	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders:										
"Sole"							16,900	\$490		
Other			2,800	\$44	2,600	\$41	400	6		
Grayfish ²							869,100	38,276		
Halibut ²							172,900	13,703	3,800	\$251
Herring			91,700	2,292						
Lingcod ²					100	1	187,500	7,391	95,700	669
Perch			6,300	252	2,900	116				
Pilchard or sardine	31,698,000	\$247,244								
Rockfishes							123,100	3,616	9,600	67
Sablefish ²							67,200	2,587		
Salmon:										
Chinook or king					821,000	85,466			681,600	87,177
Chum or keta					2,132,900	129,040				
Silver or coho					1,340,200	115,927			1,635,400	120,856
Shad					581,600	29,080				
Shark, soupfin ²							628,300	419,572		
Skate ²							252,500	1,252		
Smelts			1,900	75						
Steelhead trout					141,000	10,575				
Striped bass					65,200	3,260				
Turgeon					600	29			800	38
Tuna, albacore									1,524,800	237,716
Total	31,698,000	247,244	102,700	2,663	5,088,100	373,535	2,317,900	486,893	3,951,700	446,774

Species	Otter trawls		Traps, crab		Tongs and rakes, oyster		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"Sole"	1,695,500	\$35,266						
Other	57,300	894						
Grayfish ²	813,300	36,584						
Halibut ²	18,100	1,303						
Lingcod ²	123,300	4,015						
Rockfishes	134,000	2,071						
Sablefish ²	13,600	346						
Shark, soupfin ²	6,700	4,498						
Skate ²	15,000	98						
Total	2,876,800	85,075						
SHELLFISH								
Crabs ³	68,100	3,276	6,359,000	\$305,868				
Clams:								
Razor ⁴							71,000	\$9,230
Mixed ⁵							43,700	3,933
Oysters, market: ⁶								
Pacific					559,800	\$41,985		
Western or native					1,000	625		
Total	68,100	3,276	6,359,000	305,868	560,800	42,610	114,700	13,163
Grand total	2,944,900	88,351	6,359,000	305,868	560,800	42,610	114,700	13,163

¹ The Oregon coast pilchard fishery was prosecuted entirely by Washington and California purse seine vessels. See separate sections for data on operating units in this fishery.

² Value includes receipts from sale of livers.

³ The weight of crabs shown is based on an average of 22 pounds per dozen.

⁴ The weight of razor clams is that of edible meats, based on a yield of 42 percent of the round weight.

⁵ Mixed clams consist principally of eastern soft shell clams. The weight shown is that of edible meats, based on a yield of 21 percent of the round weight.

⁶ The statistics on oysters used in this table are based on a yield of 12 percent of edible meats from Pacific and native oysters.

NOTE.—Prior to 1941 the poundage of halibut, sablefish, lingcod, and rockfishes reported represented the dressed weight of the fish landed. Beginning with the data for 1941, all catch statistics are shown in round weights. The landed weight of lingcod, sablefish, and rockfishes was converted to round weight by multiplying the dressed weight by the factor 1.43. The factor used to convert halibut from marketed weight to round weight was 1.33.

The poundage and value of the catch shown above include the following items of livers: grayfish, 201,900 pounds, valued at \$74,094; halibut, 2,500 pounds, valued at \$626; lingcod, 5,400 pounds, valued at \$2,182; sablefish, 2,800 pounds, valued at \$562; soupfin shark, 76,200 pounds, valued at \$422,103; and skate, 10,700 pounds, valued at \$1,066.

CALIFORNIA

Fisheries of California, 1941

CATCH: BY DISTRICTS

Species	Northern district		San Francisco district		Monterey district	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH				\$6		\$609
Anchovies			600		33,300	97
Barracuda					1,500	
Carp			6,100	172		
Catfish			176,900	27,309		
Flounders:						
"California halibut"	300	\$27	22,400	2,872	15,400	1,730
"Sole"	2,670,300	104,404	1,720,600	68,346	171,900	7,483
Other	452,100	16,344	553,600	21,126	56,600	2,647
Hake	5,500	55	9,000	91	300	3
Halibut	211,900	18,002	2,600	341		
Hardhead			1,800	281		
Herring	1,400	23	686,200	6,611	102,000	884
Horse mackerel					264,500	8,323
Kingfish			2,700	117	118,800	5,379
Lingcod	160,200	7,421	294,500	15,175	70,800	3,469
Mackerel			31,600	250	1,823,600	24,114
Perch	1,500	49	2,400	215	8,900	462
Pilchard or sardine	900	27	395,325,100	3,200,958	522,804,900	3,390,319
Pompano					300	151
Rockfishes	456,100	17,774	453,100	21,257	1,460,000	56,596
Sablefish	360,700	14,723	70,900	3,776	53,900	1,077
Salmon	2,413,400	221,069	1,220,700	97,118	153,700	17,190
Sea bass:						
Black			200	18		
White	2,000	230	42,500	5,461	185,400	15,678
Shad			112,500	7,141	200	10
Sharks, including grayfish	1,500,800	760,225	2,909,600	761,891	885,900	128,473
Skates	47,700	517	121,700	1,224	12,700	254
Smelt	25,500	1,024	112,700	4,789	99,700	4,219
Splittail			20,400	815		
Squawfish			600	35		
Tomcod	700	21	300	7		
Tuna:						
Albacore	400	56	2,500	326	1,172,900	128,795
Bluefin			4,300	391		
Whitebait	90,100	6,649	40,900	2,985	100	6
Other fish	90,400	841	55,100	565	9,700	284
Total	8,491,900	1,169,481	404,005,500	4,341,669	529,506,800	3,796,261
SHELLFISH						
Crabs	464,000	29,396	3,750,700	274,557	45,700	3,432
Shrimp			952,100	17,985	5,400	1,026
Abalone					97,500	26,366
Clams:						
Hard	4,800	756	2,800	127		
Risno					2,500	661
Soft			21,100	2,611		
Octopus	3,200	131	6,500	350	30,100	1,995
Oysters, market:						
Eastern			18,800	8,865		
Pacific			210,300	33,196		
Western or native			1,100	373		
Squid					1,282,400	23,833
Total	472,000	30,283	4,963,400	338,064	1,463,900	57,313
WHALE PRODUCTS						
Sperm oil			10,400	724		
Whale oil			253,200	15,183		
Whale meal			18,000	283		
Other whale products			213,100	3,323		
Total			494,700	19,513		
Grand total	8,963,900	1,199,764	409,463,600	4,699,246	530,970,700	3,853,574

Fisheries of California, 1941—Continued

CATCH: BY DISTRICTS—Continued

Species	San Pedro district					
	Off California		Off Latin America		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies.....	4,071,500	\$45,055			4,071,500	\$45,055
Barracuda.....	2,496,700	160,925	959,400	\$60,231	3,456,100	221,156
Cabrilla.....			204,700	12,186	204,700	12,186
Carp.....	179,100	1,917			179,100	1,917
Flounders:						
"California halibut".....	469,000	48,730	40,500	4,512	509,500	53,242
"Sole".....	62,100	2,082			62,100	2,082
Other.....	8,700	1,042			8,700	1,042
Flyingfish.....	37,900	1,436			37,900	1,436
Groupers.....			107,100	8,498	107,100	8,498
Hake.....	200	4			200	4
Herring.....	100	1			100	1
Horse mackerel.....	1,803,800	25,244			1,803,800	25,244
Kingfish.....	202,900	4,597			202,900	4,597
Lingcod.....	3,200	202			3,200	202
Mackerel.....	74,643,000	964,418			74,643,000	964,418
Perch.....	12,600	720			12,600	720
Pilchard or sardine.....	341,407,900	2,438,603			341,407,900	2,438,603
Pompano.....	4,700	984			4,700	984
Rock bass.....	95,500	7,153	1,900	165	97,400	7,318
Rockfishes.....	737,500	33,756			737,500	33,756
Sablefish.....	51,000	2,761			51,000	2,761
Salmon.....	3,200	347			3,200	347
Sculpin.....	63,300	6,040			63,300	6,040
Sea bass:						
Black.....	31,700	2,074	247,100	21,115	278,800	23,189
White.....	548,800	59,827	44,200	4,704	593,000	64,531
Sharks, including grayfish.....	1,908,600	210,665	300	36	1,909,900	210,701
Sheepshead.....	39,800	1,569	400	20	40,200	1,589
Skates.....	42,500	595			42,500	595
Smelt.....	207,800	9,544			207,800	9,544
Spanish mackerel.....			2,700	206	2,700	206
Swordfish.....	897,100	142,982			897,100	142,982
Tuna and tunalike fishes:						
Albacore.....	2,054,300	233,694			2,054,300	233,694
Bluefin.....	7,489,100	457,464	463,500	27,807	7,952,600	485,271
Bonito.....	6,051,600	257,988	2,217,400	93,858	8,269,000	351,846
Skipjack or striped tuna.....	2,132,200	155,031	5,184,400	218,915	7,316,600	373,946
Yellowfin.....	300	20	18,800,400	1,146,763	18,800,700	1,146,693
Whitefish.....	22,700	1,232			22,700	1,232
Yellowtail.....	17,400	687	2,205,700	86,085	2,223,100	86,772
Other fish.....	118,900	6,496	2,200	97	121,100	6,593
Total.....	447,916,700	5,285,885	30,483,200	1,685,188	478,399,900	6,971,073
SHELLFISH						
Crabs.....	2,600	124			2,600	124
Sea crawfish or spiny lobster.....	268,500	50,629	20,500	4,309	289,000	54,938
Abalone.....	102,700	33,365			102,700	33,365
Clams, Pismo.....	39,700	8,089	2,700	332	42,400	8,421
Octopus.....	300	32			300	32
Oysters, market, Pacific.....	25,900	5,320			25,900	5,320
Squid.....	111,600	3,100			111,600	3,100
Total.....	551,300	100,659	23,200	4,641	574,500	105,200
Grand total.....	448,468,000	5,386,544	30,506,400	1,689,829	478,974,400	7,076,273

Fisheries of California, 1941—Continued

CATCH: BY DISTRICTS—Continued

Species	San Diego district					
	Off California		Off Latin America		Total	
FISH	Pounds	Value	Pounds	Value	Pounds	Value
Barracuda	473,100	\$29,400	271,200	\$16,848	744,300	\$46,248
Cabrilla			179,000	9,320	179,000	9,320
Flounders:						
"California halibut"	106,100	11,326	73,200	7,815	179,300	19,141
"Sole"	800	77	200	20	1,000	97
Groupers			170,700	9,572	170,700	9,572
Herring	100	2			100	2
Horse mackerel	400	11			400	11
Kingfish	1,000	26			1,000	26
Lingcod	700	42			700	42
Mackerel	1,669,000	21,363			1,669,000	21,363
Mullet	1,300	134			1,300	134
Perch	100	2			100	2
Pilchard or sardine	2,941,600	21,563			2,941,600	21,563
Rock bass	37,800	3,070	6,500	551	44,300	3,621
Rockfishes	92,900	4,858	206,000	10,771	298,900	15,629
Sculpin	31,700	2,524	300	25	32,000	2,549
Sea bass:						
Black	5,900	353	124,600	8,121	130,500	8,504
White	56,300	5,271	31,600	2,958	87,900	8,229
Sharks, including grayfish	408,800	32,217	200	13	409,000	32,230
Sheepshead	3,900	194	5,000	246	8,900	440
Skates	100	3			100	3
Smelt	7,000	349			7,000	349
Spanish mackerel			1,200	49	1,200	49
Swordfish	15,300	2,590	4,300	728	19,600	3,318
Tuna and tunalike fishes:						
Albacore	111,400	17,336			111,400	17,336
Bluefish	1,354,700	82,470	207,400	12,626	1,562,100	95,096
Bonito	1,798,900	75,469	758,800	31,832	2,557,700	107,301
Skipjack or striped tuna	2,082,200	112,567	16,186,700	875,054	18,268,900	987,621
Yellowfin	1,500	96	57,599,600	3,704,530	57,601,100	3,704,626
Whitefish	700	38	12,300	637	13,000	675
Yellowtail	78,500	3,061	7,529,100	293,540	7,607,600	296,601
Other fish	900	63	1,600	117	2,500	186
Total	11,282,700	426,511	83,669,800	4,985,373	94,952,500	5,411,884
SHELLFISH						
Sea crawfish or spiny lobster	88,800	12,920	927,300	134,938	1,016,100	147,858
Squid	37,000	670			37,000	670
Total	125,800	13,590	927,300	134,938	1,053,100	148,528
Grand total	11,408,500	440,101	84,597,100	5,120,311	96,005,600	5,560,412

Fisheries of California, 1941—Continued

CATCH: BY WATERS

Species	Off California		Off Latin America	
	Pounds	Value	Pounds	Value
FISH				
Anchovies.....	4,105,400	\$45,670		
Barracuda.....	2,971,300	190,422	1,230,600	\$77,079
Cabrilla.....			363,700	21,506
Carp.....	185,200	2,089		
Catfish.....	176,900	27,309		
Flounders:				
"California halibut".....	613,200	64,694	113,700	12,327
"Sole".....	4,625,700	182,392	200	20
Other.....	1,071,000	41,159		
Flyingfish.....	37,900	1,436		
Groupers.....			277,800	18,070
Hake.....	15,000	153		
Halibut.....	214,500	18,343		
Hardhead.....	1,800	281		
Herring.....	789,800	7,521		
Horse mackerel.....	2,068,700	33,578		
Kingfish.....	325,200	10,119		
Lingcod.....	529,800	26,309		
Mackerel.....	78,167,200	1,010,145		
Mullet.....	1,300	134		
Perch.....	26,000	1,448		
Pilchard or sardine.....	1,262,480,400	9,141,470		
Pompano.....	5,000	1,135		
Rock bass.....	133,300	10,223	8,700	716
Rockfishes.....	3,199,600	134,241	206,000	10,771
Sablefish.....	536,500	22,337		
Salmon.....	3,791,000	335,724		
Seulpin.....	95,000	8,564	300	25
Sea bass:				
Black.....	37,800	2,475	371,700	29,236
White.....	834,800	86,467	75,800	7,662
Shad.....	113,100	7,151		
Sharks, including grayfish.....	7,613,700	1,891,471	500	49
Sheepshead.....	43,700	1,763	5,400	266
Skates.....	224,700	2,593		
Smelt.....	452,700	19,925		
Spanish mackerel.....			3,900	255
Splittail.....	20,400	815		
Squawfish.....	600	35		
Swordfish.....	912,400	145,572	4,500	728
Tomcod.....	1,000	28		
Tuna and tunalike fishes:				
Albacore.....	3,341,800	380,207		
Bluefin.....	8,848,100	540,325	670,500	40,433
Bonito.....	7,850,500	333,457	2,976,200	125,690
Skipjack or striped tuna.....	4,214,400	267,598	21,371,100	1,093,969
Yellowfin.....	1,800	116	76,700,000	4,851,203
Whitebait.....	131,100	9,640		
Whitefish.....	23,400	1,270	13,600	717
Yellowtail.....	95,900	3,748	9,734,800	379,625
Other fish.....	275,000	8,255	3,800	214
Total.....	1,401,203,600	15,019,807	114,153,000	6,670,561
SHELLFISH				
Crabs.....	4,263,000	307,509		
Sea crawfish or spiny lobster.....	357,300	65,549	947,800	139,247
Shrimp.....	957,500	19,011		
Abalone.....	200,500	59,731		
Clams:				
Hard.....	7,600	883		
Pismo.....	42,200	8,750	2,700	332
Soft.....	21,100	2,611		
Octopus.....	40,100	2,508		
Oysters, market:				
Eastern.....	18,800	8,865		
Pacific.....	236,200	38,516		
Western or native.....	1,100	373		
Squid.....	1,431,000	27,663		
Total.....	7,576,400	539,909	950,500	139,579
WHALE PRODUCTS ¹				
Whale oil.....	263,600	15,907		
Other whale products.....	231,100	3,606		
Total.....	494,700	19,513		
Grand total.....	1,409,274,700	15,579,229	115,103,500	6,810,140

¹ See page 168 for detailed data on the production of whale products.

Fisheries of the northern district of California, 1941

OPERATING UNITS: BY GEAR

Item	Gill nets		Lines		Dip nets	Traps, crab	Shovels	Total, exclusive of duplication
	Shark	Other	Set and hand	Troll				
	Number	Number	Number	Number	Number	Number	Number	Number
Fishermen:								
On vessels.....	10	6	69	65	.....	17	.....	81
On boats and shore.....	2	15	128	217	67	73	11	275
Total.....	12	21	197	282	67	90	11	356
Vessels, motor.....	4	3	31	33	.....	8	.....	39
Net tonnage.....	37	20	250	247	.....	65	.....	298
Boats, motor.....	1	10	95	186	12	65	5	203
Apparatus:								
Number.....	5	14	677	1,304	67	1,441	11	.....
Square yards.....	16,240	16,200	.....	.....	.....	.....	.....	.....
Hooks.....	.....	.....	65,972	5,764	.....	.....	.....	.....

CATCH: BY GEAR

Species	Gill nets		Lines				Paranzella nets and otter trawls ¹	
	Pounds	Value	Set and hand		Troll		Pounds	Value
Pounds			Value	Pounds	Value			
FISH								
Flounders:								
"California halibut".....	.....	.....	.....	.....	.....	.....	300	\$27
"Sole".....	.....	.....	400	\$16	.....	.....	2,669,900	104,388
Other.....	200	\$8	100	4	.....	.....	451,800	16,332
Hake.....	.....	.....	.....	.....	.....	.....	5,500	55
Halibut.....	.....	.....	185,700	15,776	900	\$76	25,300	2,150
Herring.....	1,400	23	.....	.....	.....	.....	.....	.....
Lingcod.....	3,600	167	92,600	4,290	14,600	676	49,400	2,288
Perch.....	1,100	37	.....	.....	.....	.....	100	3
Pilchard or sardine.....	900	27	.....	.....	.....	.....	.....	.....
Rockfishes.....	4,200	164	106,100	4,135	3,500	136	342,300	13,339
Sablefish.....	.....	.....	312,400	12,751	.....	.....	48,300	1,972
Salmon.....	.....	.....	.....	.....	2,413,400	221,069	.....	.....
Sea bass, white.....	2,000	230	.....	.....	.....	.....	.....	.....
Sharks, including grayfish.....	233,300	118,178	1,178,500	596,964	3,300	1,672	85,700	43,411
Skates.....	100	1	700	7	.....	.....	46,900	509
Smelt.....	5,700	228	.....	.....	.....	.....	.....	.....
Tomcod.....	.....	.....	.....	.....	.....	.....	700	21
Tuna, albacore.....	.....	.....	.....	.....	400	56	.....	.....
Whitebait.....	2,400	177	.....	.....	.....	.....	.....	.....
Other fish.....	100	1	900	9	.....	.....	89,400	831
Total.....	255,000	119,241	1,877,400	633,952	2,436,100	223,685	3,815,600	185,326
SHELLFISH								
Crabs.....	.....	.....	.....	.....	.....	.....	49,500	3,136
Octopus.....	.....	.....	3,000	123	.....	.....	200	8
Total.....	.....	.....	3,000	123	.....	.....	49,700	3,144
Grand total.....	255,000	119,241	1,880,400	634,075	2,436,100	223,685	3,865,300	188,470

Species	Dip nets		Traps		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Perch.....	300	\$9	.....	.....	.....	.....
Smelt.....	19,800	796	.....	.....	.....	.....
Whitebait.....	87,700	6,472	.....	.....	.....	.....
Total.....	107,800	7,277	.....	.....	.....	.....
SHELLFISH						
Crabs.....	.....	.....	414,500	\$26,260	.....	.....
Clams, hard.....	.....	.....	.....	.....	4,800	\$756
Total.....	.....	.....	414,500	26,260	4,800	756
Grand total.....	107,800	7,277	414,500	26,260	4,800	756

¹ The catch by paranzella nets and otter trawls was made by craft from the San Francisco district.

Fisheries of the San Francisco district of California, 1941

OPERATING UNITS: BY GEAR

Item	Purse seines		Lampara and ring nets, sardine	Gill nets			
	Pilchard or sardine	Tuna		Drift, salmon	Drift, sea bass	Drift, shad	Set, shark
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	554	47	87		2		18
On boats and shore.....				254	6	173	63
Total.....	554	47	87	254	8	173	81
Vessels, motor.....	50	4	8		1		7
Net tonnage.....	2,996	244	80		6		64
Boats:							
Motor.....				129	4	87	32
Other.....				1			
Accessory boats.....	50	4	8				
Apparatus:							
Number.....	50	4	8	130	5	87	39
Length, yards.....	21,400	2,500	2,580				
Square yards.....				433,828	16,920	314,900	176,280

Item	Gill nets, cont'd, other	Lines		Fyke nets	Dip nets	Bag nets, shrimp	Paran-zella nets
		Set and hand	Troll				
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	2	109	77			28	74
On boats and shore.....	37	149	223	109	20	5	
Total.....	39	258	300	109	20	33	74
Vessels, motor.....	1	30	25			6	12
Net tonnage.....	6	425	330			37	209
Boats:							
Motor.....	21	102	195	64	11	1	
Other.....				3			
Accessory boats.....		20				7	
Apparatus:							
Number.....	32	1,423	1,836	2,267	11	7	6
Length, yards.....						5,360	
Square yards.....	38,160						
Yards at mouth.....							100
Hooks.....		141,652	4,688				

Item	Beam trawls	Otter trawls	Traps, crab	Rakes and tongs, oyster	Shovels	Harpoons, whale	Total, exclusive of duplication
On vessels.....		18	11			11	844
On boats and shore.....	15	9	221	9	61		785
Total.....	15	27	232	9	61	11	1,629
Vessels:							
Steam.....						1	1
Net tonnage.....						9	9
Motor.....		4	7				109
Net tonnage.....		71	65				3,711
Total vessels.....		4	7			1	110
Total net tonnage.....		71	65			9	3,720
Boats:							
Motor.....	15	2	204	2	1		487
Other.....				4			7
Accessory boats.....							80
Apparatus:							
Number.....	15	6	6,240	9	61	1	
Yards at mouth.....	100	90					

Fisheries of the San Francisco district of California, 1941—Continued

CATCH: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets		Lines, set and hand	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Anchovies					600	\$6		
Carp					3,300	92		
Flounders:								
"California halibut"					1,500	192	3,500	\$449
"Sole"					1,000	40	1,200	48
Other					100	4	1,500	57
Hake							500	5
Halibut							2,600	341
Herring			180,200	\$1,736	506,000	4,875		
Kingfish							100	4
Lingcod	100	\$5			12,700	654	228,300	11,748
Mackerel	29,900	237	1,400	11			300	2
Perch					2,400	178		
Pilchard or sardine	378,427,200	3,150,288	16,893,100	140,630	400	3		
Rockfishes					11,200	525	373,500	17,523
Sablefish			6,000	320	2,700	144	59,300	3,158
Salmon					845,000	64,514		
Sea bass:								
Black							200	18
White	2,600	336	400	52	27,800	3,588	11,300	1,459
Shad					112,900	7,141		
Sharks, including grayfish	5,000	1,309	20,300	5,447	518,100	135,667	2,088,200	546,804
Skates					300	3	1,100	11
Smelt			800	34	107,100	4,551	100	4
Spittail					100	2		
Squaawfish					100	6		
Tuna, bluefin	3,500	318	700	64			100	9
Whitebait			100	7	1,200	88		
Other fish					700	7	7,200	74
Total	378,468,300	3,152,493	17,103,500	148,301	2,155,200	222,280	2,779,000	531,714
SHELLFISH								
Octopus					100	5	4,900	264
Grand total	378,468,300	3,152,493	17,103,500	148,301	2,155,300	222,285	2,783,900	581,978

Species	Lines, troll		Fyke nets		Paranzella nets and otter trawls		Beam trawls	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Carp			2,800	\$80				
Catfish			176,900	27,309				
Flounders:								
"California halibut"	200	\$26			17,200	\$2,205		
"Sole"					1,718,400	68,258		
Other					551,600	21,050	400	\$15
Hake					8,500	86		
Hardhead			1,800	281				
Kingfish					2,600	113		
Lingcod	300	15			53,500	2,753		
Perch					500	37		
Pilchard or sardine					4,400	37		
Rockfishes	500	23			67,900	3,186		
Sablefish					2,900	154		
Salmon	375,700	32,604						
Sea bass, white					200	26		
Sharks, including grayfish	200	52			277,300	72,612		
Skates					120,300	1,210		
Spittail			20,300	813				
Squaawfish			500	29				
Tomcod					300	7		
Tuna, albacore	2,800	326						
Other fish					47,200	484		
Total	379,700	33,046	202,300	28,512	2,872,800	172,218	400	15
SHELLFISH								
Crabs					133,700	9,786		
Shrimp							221,800	4,190
Octopus					1,300	70		
Total					135,000	9,856	221,800	4,190
Grand total	379,700	33,046	202,300	28,512	3,007,800	182,074	222,200	4,205

Fisheries of the San Francisco district of California, 1941—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Bag nets		Traps	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Smelt.....	4,700	\$200				
Whitebait.....	39,600	2,890				
Total	44,300	3,090				
SHELLFISH						
Crabs.....					3,617,000	\$264,771
Shrimp.....			730,300	\$13,795		
Octopus.....					200	11
Total			730,300	13,795	3,617,200	264,782
Grand total	44,300	3,090	730,300	13,795	3,617,200	264,782

Species	Harpoons, whale		Rakes and hand		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Clams:						
Hard.....					2,800	\$127
Soft.....					21,100	2,611
Oysters, market:						
Eastern.....			18,800	\$8,865		
Pacific.....			210,300	33,196		
Western or native.....			1,100	373		
Total			230,200	42,434	23,900	2,738
WHALE PRODUCTS¹						
Whale oil.....	263,600	\$15,907				
Other whale products.....	231,100	3,606				
Total	494,700	19,513				
Grand total	494,700	19,513	230,200	42,434	23,900	2,738

¹ See page 168 for detailed data on the production of whale products.

Fisheries of the Monterey district of California, 1941

OPERATING UNITS: BY GEAR

Item	Purse seines		Lampara and ring nets		Gill nets				
	Pilchard or sardine	Tuna	Pilchard or sardine	Other	Set, "California halibut"	Set, crab	Drift, sea bass	Set, shark	Other
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	865	244	37	70			2	32	
On boats and shore.....			14	125	3	9	47	28	33
Total	865	244	51	195	3	9	49	60	33
Vessels, motor:									
Net tonnage.....	75	21	3	10			1	10	
Boats:	4,852	1,441	45	194			16	230	
Motor.....			1	20	2	5	28	15	22
Other.....									2
Accessory boats.....	75	21	4	30					
Apparatus:									
Number.....	75	21	4	30	2	5	29	25	28
Length, yards.....	32,503	12,432	1,160	6,556					
Square yards.....					6,800	8,100	76,013	89,285	23,700

Fisheries of the Monterey district of California, 1941—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Lines		Otter trawls	Traps		Shovels	Abalone outfits	Total, exclusive of duplication
	Set and hand	Trawl		Crab	Octopus			
Fishermen:	Number	Number	Number	Number	Number	Number	Number	Number
On vessels	16	52	15				25	998
On boats and shore	205	273		4	6	24	8	427
Total	221	325	15	4	6	24	33	1,425
Vessels, motor	6	20	3				6	102
Net tonnage	57	309	162				49	5,159
Boats:								
Motor	160	207		3	3	3	2	226
Other								2
Accessory boats							8	115
Apparatus:								
Number	579	1,765	3	54	52	24	8	
Yards at mouth			45					
Hooks	73,585	4,952						

CATCH: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets	
	Pounds	Value \$215	Pounds	Value \$391	Pounds	Value
FISH						
Anchovies	11,900		21,400			
Barracuda					1,500	\$97
Flounders:						
"California halibut"	100	11	200	23	7,300	\$24
"Sole"					6,600	287
Other	160	5			17,500	\$18
Herring	100,200	859			1,500	15
Horse mackerel	139,500	4,390	109,100	3,433	12,600	396
Kingfish	1,500	68	7,300	331	96,100	4,358
Lingcod					6,200	304
Mackerel	1,377,499	18,209	150,600	1,991	18,500	245
Perch	100	5			4,500	234
Pilchard or sardine	516,130,700	3,347,030	6,631,600	43,013	42,600	276
Pompano			300	151		
Rockfishes	360	12			4,700	182
Sablefish					900	18
Sea bass, white	400	34	100	8	183,400	15,509
Stad					200	10
Sharks, including grayfish	10,500	1,459	2,300	328	286,800	40,944
Skates					4,000	80
Smelt	2,300	97	8,200	347	78,900	3,339
Tuna, albacore	9,000	658				
Whitelait			100	6		
Other fish					2,400	70
Total	517,781,000	3,373,105	6,931,200	50,022	776,500	68,006
SHELLFISH						
Crabs					38,100	2,861
Octopus					3,200	212
Squid	3,200	59	1,271,600	23,633	7,600	141
Total	3,200	59	1,271,600	23,633	48,900	3,214
Grand total	517,784,200	3,373,164	8,202,800	73,655	825,400	71,220

Fisheries of the Monterey district of California, 1941—Continued

CATCH: BY GEAR—Continued

Species	Lines				Paranzella nets and otter trawls	
	Set and hand		Troll			
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Flounders:						
"California halibut".....	5,400	\$610	200	\$23	2,200	\$248
"Sole".....	11,300	492			154,000	6,704
Other.....	19,600	917			19,400	907
Hake.....					300	3
Horse mackerel.....	3,300	104				
Kingfish.....	10,500	476			3,200	146
Lingcod.....	60,800	2,979	900	44	2,900	142
Mackerel.....	277,100	3,669				
Perch.....	300	15			4,000	208
Rockfishes.....	1,453,300	56,336	300	12	1,400	54
Sablefish.....	52,000	1,039			1,000	20
Salmon.....			153,700	17,190		
Sea bass, white.....	1,300	110	200	17		
Sharks, including grayfish.....	560,900	80,076	10,900	1,556	14,500	2,070
Skates.....	2,500	50			6,200	124
Smelt.....	10,300	436				
Tuna, albacore.....			1,166,900	128,137		
Other fish.....	3,800	111	100	3	3,400	100
Total.....	2,472,400	147,420	1,333,200	146,982	212,500	10,726
SHELLFISH						
Crabs.....					6,400	481
Octopus.....	4,000	265			300	20
Total.....	4,000	265			6,700	501
Grand total.....	2,476,400	147,685	1,333,200	146,982	219,200	11,227

Species	Traps		Shovels		Abalone outfits	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Crabs.....	1,200	\$90				
Shrimp.....	5,400	1,026				
Abalone.....					97,800	\$26,366
Clams, Pismo.....			2,500	\$661		
Octopus.....	22,600	1,498				
Total.....	29,200	2,614	2,500	661	97,800	26,366

Fisheries of the San Pedro district of California, 1941

OPERATING UNITS: BY GEAR

Item	Purse seines			Lampara and ring nets			
	Mack-erel	Pilchard or sardine	Tuna	Mack-erel	Pilchard or sardine	Tuna	Other
Fishermen:							
On vessels.....	Number 72	Number 1,298	Number 958	Number 389	Number 430	Number 64	Number 47
On boats and shore.....				8			99
Total.....	72	1,298	958	397	430	64	146
Vessels, motor.....	7	117	86	30	33	5	12
Net tonnage.....	179	5,860	4,505	1,125	1,236	229	119
Boats:							
Motor.....				1			27
Other.....							1
Accessory boats.....	7	117	86	31	33	5	35
Apparatus:							
Number.....	7	117	86	31	33	5	40
Length, yards.....	3,010	50,445	52,895	19,663	18,024	3,200	8,860

Fisheries of the San Pedro district of California, 1941—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Gill nets				Trammel nets	Lines	
	Drift, barra-cuda	Set, sea bass	Set, shark	Other		Set and hand	Troll
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	21	10	9		19	671	68
On boats and shore.....	54	69	35	35	67	1,099	413
Total.....	75	79	44	35	86	1,770	481
Vessels, motor.....	6	3	3		6	157	27
Net tonnage.....	42	18	38		57	3,712	278
Boats:							
Motor.....	21	27	14	18	24	524	272
Other.....						3	
Accessory boats.....						210	
Apparatus:							
Number.....	27	30	17	18	30	3,234	2,302
Square yards.....	138,020	122,360	43,520	19,200	146,928		
Hooks.....						343,723	2,302

Item	Paran-zella nets	Traps, sea crawfish	Har-poons, sword-fish	Rakes and tongs, oyster	Shovels	Abalone outfits	Total, exclusive of du-plication
							<i>Number</i>
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels.....	2	10	44		10	3	2,438
On boats and shore.....	14	126	148	2	68	41	1,397
Total.....	16	136	192	2	78	44	3,835
Vessels, motor.....	1	3	15		1	1	321
Net tonnage.....	9	28	118		28	6	10,900
Boats:							
Motor.....	3	71	69		25	14	759
Other.....		6		1			12
Accessory boats.....							335
Apparatus:							
Number.....	2	3,673	84	2	78	15	
Yards at mouth.....	34						

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill and trammel nets		Lines, set and hand	
	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
FISH								
Anchovies.....			4,071,200	\$45,051	300	\$4		
Barra-cuda.....	400	\$26	2,400	155	761,400	49,076	944,200	\$60,853
Carp.....			179,100	1,917				
Flounders:								
"California hali-but".....			500	52	276,400	28,718	42,700	4,437
"Sole".....			200	7	2,900	97	4,100	137
Other.....					1,100	132	7,600	910
Flyingfish.....			100	4	37,800	1,432		
Hake.....							200	4
Herring.....					100	1		
Horse mackerel.....	867,900	12,146	834,600	11,680	1,500	21	99,800	1,397
Kingfish.....			160,800	3,643	4,800	109	37,000	838
Lingcod.....					200	13	2,300	145
Mackerel.....	13,522,300	174,714	12,190,800	157,510	53,200	687	48,875,800	631,495
Perch.....			5,900	337	1,800	103	4,200	240
Pilchard or sardine.....	240,838,200	1,720,254	100,569,300	718,346	400	3		
Pompano.....			4,600	963	100	21		
Rock bass.....	200	15	800	60	14,100	1,056	52,100	3,902
Rockfishes.....			100	5	3,400	156	731,200	33,467
Sablefish.....							51,000	2,761
Sculpin.....					4,500	429	56,100	5,353
Sea bass:								
Black.....					5,200	340	26,400	1,727
White.....			200	22	522,100	56,916	25,200	2,747
Sharks, including grayfish.....	2,700	298	4,700	519	615,200	67,904	1,270,100	140,189
Sheepshead.....					3,700	146	8,500	335
Skates.....					9,900	139	2,700	38
Smelt.....			158,000	7,257	42,300	1,943	7,500	344
Swordfish.....	300	48	1,000	159				

Fisheries of the San Pedro district of California, 1941—Continued

CATCH OFF CALIFORNIA: BY GEAR—Continued

Species	Purse seines		Lampara and ring nets		Gill and trammel nets		Lines, set and hand	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued								
Tuna and tunalike fishes:								
Albacore.....	800	\$91			2,400	\$273	323,300	\$36,778
Bluefin.....	4,750,800	290,198	2,605,600	\$159,160	500	31	132,200	8,075
Bonito.....	2,220,800	94,676	3,025,600	128,986	57,100	2,434	719,900	30,690
Skipjack or striped tuna.....	7,900	574					2,124,300	154,457
Yellowfin.....							300	20
Whitefish.....					400	22	12,200	662
Yellowtail.....					7,800	308	8,700	343
Other fish.....	53,000	2,896	16,800	918	11,000	601	35,400	1,934
Total.....	262,265,300	2,295,936	123,832,300	1,236,751	2,441,600	213,115	55,605,000	1,124,283
SHELLFISH								
Sea crawfish or spiny lobster.....					18,900	3,564		
Octopus.....							200	21
Squid.....	4,600	128	106,700	2,964	300	8		
Total.....	4,600	128	106,700	2,964	19,200	3,572	200	21
Grand total.....	262,269,900	2,296,064	123,939,000	1,239,715	2,460,800	216,687	55,605,200	1,124,304

Species	Lines, troll		Paranzella nets		Traps		Harpoons	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Barracuda.....	788,300	\$50,810						
Flounders:								
"California halibut".....	100	10	149,100	\$15,492	200	\$21		
"Sole".....			54,800	1,538	100	3		
Kingfish.....					300	7		
Lingcod.....					700	44		
Mackerel.....	900	12						
Perch.....					700	40		
Rock bass.....	200	15			28,100	2,105		
Rockfishes.....	400	18			2,400	110		
Salmon.....	3,200	347						
Sculpin.....					2,700	258		
Sea bass:								
Black.....			100	7				
White.....	1,300	142						
Sharks, including grayfish.....	2,400	265	11,500	1,269	2,000	221		
Sheepshead.....					27,600	1,088		
Skates.....			29,900	418				
Swordfish.....							895,800	\$142,775
Tuna and tunalike fishes:								
Albacore.....	1,727,800	196,552						
Bonito.....	28,200	1,202						
Whitefish.....					10,100	548		
Yellowtail.....	900	36						
Other fish.....			300	16	2,400	131		
Total.....	2,553,700	249,409	245,700	19,040	77,300	4,576	895,800	142,775
SHELLFISH								
Crabs.....					2,600	124		
Sea crawfish or spiny lobster.....					249,600	47,065		
Octopus.....					100	11		
Total.....					252,300	47,200		
Grand total.....	2,553,700	249,409	245,700	19,040	329,600	51,776	895,800	142,775

Species	Rakes and tongs		Shovels		Abalone outfits	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Abalone.....					102,700	\$33,365
Clams, Pismo.....					39,700	\$8,089
Oysters, market, Pacific.....	25,900	\$5,320				
Total.....	25,900	5,320	39,700	8,089	102,700	33,365

Fisheries of the San Pedro district of California, 1941—Continued

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Gill and trammel nets		Lines, set and hand		Traps		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH										
Barracuda	955,300	\$59,973	300	\$20	3,800	\$238				
Cabrilla					204,700	12,186				
Flounders, "California halibut"	400	44	40,100	4,468						
Groupers					107,100	8,498				
Rock bass					1,900	165				
Sea bass:										
Black	2,900	247			244,200	20,868				
White	19,700	2,097	12,700	1,352	11,800	1,255				
Sharks, including grayfish			300	36						
Sheepshead					400	20				
Spanish mackerel					2,700	206				
Tuna and tunalike fishes:										
Bluefish	381,000	22,857			82,500	4,950				
Bonito	2,142,300	90,678	200	9	74,900	3,171				
Skipjack or striped tuna	1,793,400	75,735			3,391,000	143,180				
Yellowfin	5,431,400	331,272			13,369,000	815,401				
Whitefish					1,300	80				
Yellowtail	1,624,600	63,405			581,100	22,680				
Other fish	600	27			1,600	70				
Total	12,351,600	646,335	53,600	5,885	18,078,000	1,032,968				
SHELLFISH										
Sea crawfish or spiny lobster							20,500	\$4,309		
Clams, Pismo									2,700	\$332
Total							20,500	4,309	2,700	332
Grand total	12,351,600	646,335	53,600	5,885	18,078,000	1,032,968	20,500	4,309	2,700	332

Fisheries of the San Diego district of California, 1941

OPERATING UNITS: BY GEAR

Item	Lampara and ring nets				Gill nets		
	Mackerel	Pilchard or sardine	Tuna	Other	Drift, barracuda	Set, sea bass	Set, Shark
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	181	117	25	8	5	9	9
On boats and shore				3	4	8	10
Total	181	117	25	11	9	17	19
Vessels, motor	14	9	2	2	1	2	2
Net tonnage	150	96	15	23	11	18	20
Boats, motor	2	3	1	1	1	3	5
Accessory boats	14	9	2	2			
Apparatus:							
Number	14	9	2	3	2	5	7
Length, yards	6,860	3,375	1,040	750			
Square yards					9,200	18,200	25,340

Item	Gill nets, continued, other	Trammel nets	Lines		Traps, sea crawfish	Harpoons, swordfish	Total, exclusive of duplication
			Set and hand	Troll			
Fishermen:	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
On vessels	2	10	1,177	4	2	13	1,314
On boats and shore	4	9	117	60	28	28	150
Total	6	19	1,294	64	30	41	1,464
Vessels, motor	1	2	117	2	1	4	125
Net tonnage	5	25	8,697	14	13	37	8,763
Boats, motor	2	3	64	48	18	11	82
Accessory boats			117				122
Apparatus:							
Number	3	5	1,492	2,962	831	15	
Square yards	3,780	43,200					
Hooks			61,868	2,962			

Fisheries of the San Diego district of California, 1941—Continued

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill and trammel nets		Lines, set and hand	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Barracuda			4,900	\$305	39,500	\$2,455	194,400	\$12,080
Flounders:								
"California halibut"					104,600	11,166	1,500	160
"Sole"							800	77
Herring					100	2		
Horse mackerel			400	11				
Kingfish			100	3	500	13	400	10
Lingcod							700	42
Mackerel			1,470,300	18,813	900	18	197,800	2,532
Mullet					1,300	134		
Perch					100	2		
Pilchard or sardine			2,941,600	21,563				
Rock bass			700	57			34,200	2,778
Rockfishes					2,900	152	90,000	4,706
Sculpin							31,700	2,524
Sea bass:								
Black			1,300	84	900	58	3,700	241
White			300	28	6,900	646	46,800	4,382
Sharks, including grayfish	300	\$24	6,400	504	137,800	10,860	264,100	20,813
Sheepshead			300	15	400	20	1,700	84
Skates							100	3
Smelt			100	5	6,800	339	100	5
Tuna and tunalike fishes:								
Albacore							111,400	17,336
Bluefin	8,500	517	1,343,100	81,764			3,100	189
Bonito	18,000	755	1,617,600	67,862	4,200	176	150,400	6,310
Skipjack or striped tuna							2,082,200	112,567
Yellowfin							1,500	96
Whitefish							700	38
Yellowtail			13,500	526	400	16	60,500	2,359
Other fish					300	23	600	46
Total	26,800	1,296	7,400,600	191,541	307,600	26,080	3,278,400	189,378
SHELLFISH								
Sea crawfish or spiny lobster					3,600	524		
Squid			37,000	670				
Total			37,000	670	3,600	524		
Grand total	26,800	1,296	7,437,600	192,211	311,200	26,604	3,278,400	189,378

Species	Lines, troll		Traps		Harpoons	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Barracuda	234,300	\$14,560				
Rock bass	200	16	2,700	\$219		
Sea bass, white	2,300	215				
Sharks, including grayfish	200	16				
Sheepshead			1,500	75		
Swordfish					15,300	\$2,590
Tuna and tunalike fishes, bonito	8,700	365				
Yellowtail	4,100	160				
Total	249,800	15,332	4,200	294	15,300	2,590
SHELLFISH						
Sea crawfish or spiny lobster			85,200	12,396		
Grand total	249,800	15,332	89,400	12,690	15,300	2,590

NOTE.—The catch by purse seines was made by fishermen from the San Pedro district.

Fisheries of the San Diego district of California, 1941—Continued

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Gill and trammel nets		Lines				
					Set and hand		Troll		
					Pounds	Value	Pounds	Value	Pounds	Value
FISH									
Barracuda					133,100	\$8,268			
Cabrilla					179,000	9,320	138,100	\$8,580	
Flounders:									
"California halibut"			73,200	\$7,615					
"Sole"					200	20			
Groupers					170,700	9,572			
Rock bass					6,900	551			
Rockfishes					206,000	10,771			
Sculpin					300	25			
Sea bass:									
Black					124,600	8,121			
White					31,600	2,955			
Sharks, including grayfish			200	13					
Sheepshead					5,000	246			
Spanish mackerel					1,200	49			
Tuna and tunalike fishes:									
Bluefin	14,300	\$871			193,100	11,755			
Bontot	145,200	6,091			573,300	24,050	40,300	1,691	
Skipjack or striped tuna					16,186,700	875,054			
Yellowfin					57,899,600	3,704,530			
Whitefish					12,300	637			
Yellowtail					7,272,400	275,561	256,700	17,979	
Other fish					1,600	117			
Total	159,500	6,962	73,400	7,828	82,997,500	4,941,605	435,100	28,250	

Species	Traps		Harpoons	
	Pounds	Value	Pounds	Value
FISH				
Swordfish			4,300	\$728
SHELLFISH				
Sea crawfish or spiny lobster	927,300	\$134,938		
Grand total	927,300	134,938	4,300	728

NOTE.—The catch by purse seines was made by fishermen from the San Pedro district.

HALIBUT FISHERY OF THE PACIFIC COAST⁷

The halibut fishery of the Pacific coast, which is prosecuted by United States (including Alaskan) and Canadian vessels, ranks as one of the foremost fisheries of that section. During 1941 the total catch of halibut by vessels of both nationalities amounted to 50,650,000 pounds valued at \$5,282,000. This is a decrease of 3 percent in the volume but an increase of 13 percent in value, as compared with the returns for the previous year. Of the total catch in 1941, 74 percent was taken by United States craft and 26 percent by Canadian craft. Considered according to ports of landing, 37 percent was landed at Seattle, Wash., 45 percent at Canadian ports, and 18 percent at ports in Alaska.

The capture of halibut off the Pacific coast of North America is regulated by the International Fisheries Commission, appointed under the treaty between the United States and Canada for the preservation of the Northern Pacific halibut fishery. As in 1939 and 1940, the halibut season opened on April 1. Halibut fishing in Areas 1 and 2 (South of Cape Spencer) closed on July 1, while fishing in Areas 3 and 4 (West of Cape Spencer) ended September 14. In 1940, halibut fishing ended on July 13 in areas 1 and 2, and on September 26 in areas 3 and 4.

⁷ These statistics are compiled from data collected by the International Fisheries Commission for Washington and British Columbia and by Fish and Wildlife Service agents for Alaska. The weights shown represent the poundage of fish landed after evisceration and removal of heads. Data contained in this section do not include landings at ports south of Seattle, or of operating units employed exclusively from these ports. Normally halibut landings at ports south of Seattle average less than 3 percent of the annual Pacific coast catch.

Halibut fishery of the Pacific coast, 1941

UNITED STATES OPERATING UNITS: BY FLEET CLASSIFICATION

Item	Washington fleet	Alaska fleet	Total
	Number	Number	Number
Regular halibut vessels:			
Number.....	141	166	307
Net tonnage.....	4,415	2,563	6,978
Crew.....	1,154	812	1,966
Skates of lines.....	4,312	3,343	7,655
Vessels in other fisheries but landing one or more fares of halibut:			
Number.....	7	44	51
Net tonnage.....	183	391	574
Crew.....	45	142	187
Skates of lines.....	172	624	796
Regular halibut boats:			
Number.....		45	45
Crew.....		96	96
Skates of lines.....		422	422
Boats in other fisheries but landing one or more fares of halibut:			
Number.....		101	101
Crew.....		202	202
Skates of lines.....		508	508

Halibut fishery of the Pacific coast, 1941—Continued

CATCH OF ALL SPECIES: BY UNITED STATES VESSELS AND BOATS

Fleet classification	Landed in—						Total	
	Seattle, Washington		British Columbia		Alaska			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
WASHINGTON FLEET								
Regular vessels:								
Halibut	16,804,687	\$1,972,234	3,621,837	\$393,684	1,014,912	\$97,908	21,441,436	\$2,463,826
Sablefish	1,610,394	120,672	930	33	40,916	1,845	1,652,240	122,550
Lingcod	866,348	58,907	2,871	93	73	2	869,292	59,002
Rockfishes	433,183	29,715			3,708	101	436,891	29,816
Total	19,714,612	2,181,528	3,625,638	393,810	1,059,609	99,856	24,399,859	2,675,194
Other vessels and boats:								
Halibut	231,399	22,285	31,180	2,910	1,869	155	264,448	25,350
Lingcod	3,659	340					3,659	340
Rockfishes	288	12					288	12
Total	235,346	22,637	31,180	2,910	1,869	155	268,395	25,702
ALASKA FLEET								
Regular vessels:								
Halibut	1,618,698	184,751	6,279,112	667,470	6,020,414	535,872	13,918,224	1,388,093
Sablefish	226,706	18,269	648,458	27,806	1,506,281	54,337	2,381,445	100,412
Lingcod	155,748	7,984			4,868	107	160,616	8,091
Rockfishes	135,740	7,200	18,048	530	126,094	4,449	279,882	12,179
Total	2,136,892	218,204	6,945,618	695,806	7,657,657	594,765	16,740,167	1,508,775
Other vessels and boats:								
Halibut			104,511	9,812	1,961,385	154,753	2,065,896	164,565
Sablefish			14,101	585	37,121	1,252	51,222	1,837
Lingcod	5,170	542			59	1	5,229	543
Rockfishes	2,341	191			13,496	370	15,837	561
Total	7,511	733	118,612	10,397	2,012,061	156,376	2,138,184	167,506
COMBINED FLEETS								
Regular vessels:								
Halibut	18,423,385	2,156,985	9,900,949	1,061,154	7,035,326	633,780	35,359,660	3,851,919
Sablefish	1,837,100	138,941	649,388	27,839	1,547,197	56,182	4,033,685	222,962
Lingcod	1,022,096	66,891	2,871	93	4,941	109	1,029,908	67,093
Rockfishes	568,923	36,915	18,048	530	129,802	4,550	716,773	41,995
Total	21,851,504	2,399,732	10,571,256	1,089,616	8,717,266	694,621	41,140,026	4,183,969
Other vessels and boats:								
Halibut	231,399	22,285	135,691	12,722	1,963,254	154,908	2,330,344	189,915
Sablefish			14,101	585	37,121	1,252	51,222	1,837
Lingcod	8,829	882			59	1	8,888	883
Rockfishes	2,629	203			13,496	370	16,125	573
Total	242,857	23,370	149,792	13,307	2,013,930	156,531	2,406,579	193,208
All vessels and boats:								
Halibut	18,654,784	2,179,270	10,036,640	1,073,876	8,998,580	788,688	37,690,004	4,041,834
Sablefish	1,837,100	138,941	663,489	28,424	1,584,318	57,434	4,084,907	224,799
Lingcod	1,030,925	67,773	2,871	93	5,000	110	1,038,796	67,976
Rockfishes	571,552	37,118	18,048	530	143,298	4,920	732,898	42,568
Grand total	22,094,361	2,423,102	10,721,048	1,102,923	10,731,196	851,152	43,546,605	4,377,177

NOTE.—These statistics are compiled from data collected by the International Fisheries Commission for Washington and British Columbia, and by Fish and Wildlife agents for Alaska. The weights of the above species represent the fish after evisceration and removal of heads.

The fleet classification has been arbitrarily applied by including in the "Washington fleet" all United States and Alaska vessels that land more than half their catch in that State. All other United States and Alaska vessels of the halibut fleet were included in the "Alaska fleet."

Halibut fishery of the Pacific coast, 1941—Continued

CATCH OF HALIBUT: BY UNITED STATES AND CANADIAN VESSELS AND BOATS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Fleet classification	Landed in—						Total	
	Seattle, Wash.		British Columbia		Alaska		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value		
WASHINGTON FLEET								
Regular halibut vessels	16,805	1,972	3,622	394	1,015	98	21,442	2,464
Other vessels and boats	231	22	31	3	2	(1)	264	25
Total	17,036	1,994	3,653	397	1,017	98	21,706	2,489
ALASKA FLEET								
Regular halibut vessels	1,619	185	6,279	667	6,020	536	13,918	1,388
Other vessels and boats			105	10	1,961	155	2,066	165
Total	1,619	185	6,384	677	7,981	691	15,984	1,553
COMBINED FLEETS								
Regular halibut vessels	18,424	2,157	9,901	1,061	7,035	634	35,360	3,852
Other vessels and boats	231	22	136	13	1,963	155	2,330	190
Total	18,655	2,179	10,037	1,074	8,998	789	37,690	4,042
British Columbia fleet	61	7	12,883	1,231	16	2	12,960	1,240
Grand total	18,716	2,186	22,920	2,305	9,014	791	50,650	5,282

¹ Less than 500 dollars.

NOTE.—In addition to the above, there were 2,459,349 pounds of halibut, sablefish, lingcod, rockfish, dogfish and soupfin shark livers valued at \$1,534,505 landed by the combined fleets at Pacific coast ports during 1941. Halibut vessels in the combined fleets also landed 1,199,798 pounds of halibut, sablefish and lingcod viscera valued at \$137,237 during the same period.

These statistics are compiled from data collected by the International Fisheries Commission for Washington and British Columbia, and by Fish and Wildlife Service agents for Alaska. The tabulation does not include halibut landings at ports south of Seattle, Wash., which are normally less than 3 percent of the annual Pacific coast catch of this species.

VESSEL FISHERIES AT SEATTLE, WASH.

A total of 59,395,006 pounds of fishery products, valued at \$6,418,117, were handled by Seattle wholesale dealers during 1941, exclusive of quantities received by rail or by transporting vessels from Alaska or Canada. This represents an increase of 13 percent in volume and 54 percent in value as compared with the returns for the preceding year. Landings by halibut vessels, excluding livers and viscera, amounted to 22,094,361 pounds, valued at \$2,423,102, representing a decrease of 1 percent in volume but a gain of 17 percent in value as compared with those of 1940. Receipts of fish and shellfish by wholesale dealers from sources other than Alaska or Canada or vessels in the halibut fleet amounted to 33,690,072 pounds, valued at \$2,418,296, an increase of 15 percent in quantity and 33 percent in value. Receipts of livers and viscera on the Seattle market from all sources totaled 3,610,573 pounds and were valued at \$1,576,719. This was an increase of 158 percent in volume and 506 percent in value over the 1940 production of 1,007,783 pounds which was valued at \$260,063.

*Fishery products landed by the United States halibut fleet at Seattle,
Wash., 1941¹*

BY FISHING GROUNDS

Fishing grounds	Trips	Halibut				Sablefish		Lingcod		Rockfishes		Total	
		No. 1		No. 2		Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Number	Pounds	Value	Pounds	Value	Pounds								
West of Cape Spencer.....	380	8,116,699	\$1,007,142	5,873,556	\$668,456	1,754	\$81	2,501	\$76	5,844	\$235	14,000,354	\$1,675,990
South of Cape Spencer.....	799	2,598,133	301,591	2,066,396	202,081	1,835,346	138,860	1,028,424	67,697	565,708	37,683	8,094,007	747,112
Total.....	1,179	10,714,832	1,308,733	7,939,952	870,537	1,837,100	138,941	1,030,925	67,773	571,552	37,118	22,094,361	2,423,102
	{ 1940.....	1,096	10,273,557	1,086,253	8,310,673	828,966	100,902	1,138,294	44,800	369,739	17,823	22,383,482	2,078,744

BY MONTHS

Months	Trips	Halibut				Sablefish		Lingcod		Rockfishes		Total	
		No. 1		No. 2		Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Number	Pounds	Value	Pounds	Value	Pounds								
January.....	24					26,185	\$1,250	99,368	\$8,266	31,494	\$2,594	157,047	\$12,110
February.....	39					18,267	914	231,852	10,727	86,613	4,362	336,732	16,003
March.....	27					42,036	2,375	153,091	7,743	78,754	4,211	273,881	14,329
April.....	129	1,729,575	\$181,254	921,249	\$85,184	3,160	130	52,910	2,543	6,606	323	2,713,500	269,434
May.....	155	2,180,340	229,750	1,444,351	130,898	996	47	65,588	1,548	12,307	334	3,703,582	362,577
June.....	138	1,627,213	192,054	1,288,211	132,448	50,088	3,215	33,119	761	8,820	269	3,007,451	328,747
July.....	128	1,666,892	227,049	1,435,894	168,930	162,780	9,651	16,364	565	28,854	1,288	3,310,784	407,483
August.....	106	1,616,784	218,492	1,378,908	170,364	283,003	18,188	11,700	539	15,510	673	3,305,905	408,256
September.....	133	1,868,162	254,912	1,470,190	182,494	527,859	38,735	19,088	1,070	36,558	1,984	3,921,857	479,195
October.....	98	25,866	5,222	1,149	219	553,340	44,707	89,585	7,264	101,481	5,997	771,421	63,409
November.....	128					163,619	19,146	141,247	13,975	122,768	10,929	427,634	44,050
December.....	74					5,767	583	117,013	12,772	41,787	4,154	164,567	17,509
Total.....	1,179	10,714,832	1,308,733	7,939,952	870,537	1,837,100	138,941	1,030,925	67,773	571,552	37,118	22,094,361	2,423,102
	{ 1940.....	1,096	10,273,557	1,086,253	8,310,673	828,966	100,902	1,138,294	44,800	369,739	17,823	22,383,482	2,078,744

¹ In addition, vessels of the Seattle halibut fleet landed the following quantities of fish livers during 1941; dogfish, 801,613 lbs., value \$243,507; halibut, 442,900 lbs., value \$252,462; lingcod, 16,877 lbs., value \$40,605; sablefish, 67,279 lbs., value \$87,463; soupfin shark, 53,952 lbs., value \$290,981; miscellaneous livers and viscera, 555,085 lbs., value \$63,774; a total of 1,937,706 lbs., valued at \$978,682 to the fishermen.

NOTE.—Statistics shown do not include landings at ports south of Seattle which average less than 3 percent of the annual Pacific coast catch. The 1941 halibut season opened on April 1, and the final date of departure from the West-ern banks was September 14.

Fishery products received by Seattle wholesale dealers, 1941¹

BY MONTHS

Item	January		February		March		April		May		June	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod.....	122,731	\$3,436	93,671	\$2,661	101,909	\$2,851	112,294	\$1,919	59,774	\$731	5,288	\$45
Flounders:												
"Sole".....	225,480	9,274	260,702	10,535	508,418	20,345	482,592	12,824	521,700	13,674	912,256	22,862
Other.....	73,887	1,856	87,610	2,188	66,062	1,652	21,781	380	72,876	793	133,140	14,247
Halibut.....							55,048	5,518	97,474	8,811		
Herring.....			21,840	389	1,290	40	1,750	70				
Lingcod.....	46,212	1,648	39,351	1,381	60,243	1,879	106,801	3,426	304,850	4,773	680,221	8,080
Perch.....	11,802	486	12,618	461	23,090	1,091	25,857	1,202	5,818	214	1,742	66
Rockfishes.....	123,199	2,827	128,661	3,244	143,022	3,569	68,821	1,426	115,256	2,278	68,493	1,110
Sablefish.....			56,369	1,013			350	15	4,120	175	36,128	1,088
Salmon:												
Chinook or king.....	11,827	2,207	61,867	9,630	162,214	28,407	328,075	46,128	335,533	41,604	858,292	93,282
Silver or coho.....	400	40					114	13	12,777	1,015	193,113	15,346
Smelt:												
Eulachon.....	30,425	1,758	46,804	1,397	14,800	370	500	12				
Silver.....	16,558	1,120	3,759	376	1,682	111	9,268	686	14,078	805	28,788	1,412
Crabs.....	191,240	9,464	189,552	9,568	234,832	11,806	216,366	10,401	163,950	7,690	158,664	8,295
Shrimp.....	134	24					3,430	522	2,606	374	1,078	214
Clams, hard, in shell (meats).....	37,575	3,732	34,075	4,324	43,631	6,080	35,925	4,481	2,575	306		
Oysters:												
Olympia:												
In shell (meats).....	2,430	1,198	2,550	1,352	2,406	1,275	2,526	1,339	1,468	778	1,877	994
Shucked.....	3,762	3,246	2,476	2,137	3,272	2,824	2,564	2,212	1,654	1,427	1,890	1,588
Pacific:												
In shell (meats).....	12,877	687	9,774	522	19,398	1,035	19,805	1,057	13,822	737	4,461	238
Shucked.....	150,806	22,061	131,968	19,221	132,274	20,408	85,925	13,257	41,825	6,366	32,629	4,848
Scallops, bay (meats).....	1,179	312	1,860	500	1,419	380	1,435	385	1,159	300	612	150
Octopus.....	5,152	183	2,668	79	2,600	95	3,054	135	2,455	111	1,150	58
Squid.....	18,155	416	3,830	88								
Livers: ²												
Dogfish.....	90,182	6,704	102,882	7,716	59,743	4,478	50,314	3,854	59,489	4,759	155,446	12,759
Halibut and viscera.....							113,222	30,706	160,061	44,704	136,162	39,571
Lingcod.....	885	918	1,408	2,354	2,870	5,314	2,523	3,271	5,990	6,427	11,127	8,829
Sablefish and viscera.....	1,455	909	2,563	1,459	1,673	1,672	134	174	152	121	3,248	2,584
Shark, soupfin.....	1,843	1,198	3,402	2,211	1,677	1,090	387	252	77	50	211	137
Total.....												
/1941.....	1,180,196	75,764	1,302,260	84,806	1,588,525	116,772	1,750,861	145,665	2,001,539	149,023	3,426,016	237,783
/1940.....	1,072,384	55,243	1,053,236	53,266	1,239,945	56,714	1,086,726	78,766	1,159,030	71,665	1,900,247	115,051

Fishery products received by Seattle wholesale dealers, 1941—Continued

BY MONTHS—Continued

Item	July		August		September		October		November		December		Total		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Cod	9,611	\$115	27,170	\$374	44,901	\$1,088	79,795	\$2,232	79,681	\$2,385	52,856	\$1,848	789,681	\$19,685	
Flounders:															
" Sole"	1,069,279	26,796	1,105,112	27,627	632,951	25,588	363,111	18,139	143,518	7,499	73,833	3,692	1,298,952	198,855	
Other															
Halibut	9,079	1,030	9,748	1,097			66,851	1,934	168,513	4,478	46,295	1,408	509,543	14,819	
Herring													304,967	30,759	
Lingcod	362,199	4,761	345,399	5,825	116,599	3,356	88,590	3,256	80,528	3,646	22,235	1,216	2,259,228	43,227	
Perch	600	24	3,511	123	1,622	72	4,842	237	6,846	342	5,541	351	103,689	4,669	
Rockfishes	17,978	353	70,124	1,143	42,697	1,038	39,661	1,259	75,168	2,324	37,334	1,164	930,214	22,005	
Sablefish	81,071	2,564	61,526	1,838	12,904	516	63,860	3,047	111,803	5,473	29,685	1,211	457,816	16,940	
Salmon:															
Blueback, red, or sockeye	117,305	15,249	96,248	13,474		612	86						214,165	28,809	
Chinook or king	1,335,311	149,756	1,158,553	137,732	2,115,143	192,942	58,163	5,364	16,180	1,290	216	15	6,441,374	708,357	
Chum or keta						8,323	664	1,744,024	111,527	2,664,847	170,240	21,106	1,575	4,438,300	284,006
Humpback or pink	121,440	4,255	564,396	27,943	206,430	8,855	4,107	307					896,373	41,360	
Silver or coho	1,341,061	115,449	1,125,825	115,485	1,625,283	176,974	642,351	67,084	161,604	17,579	6,017	686	5,108,545	509,671	
Smelt:															
Eulachon													92,529	3,537	
Silver	20,140	1,189	122,086	5,706	109,287	5,267	130,639	6,462	57,265	3,293	5,800	551	528,350	26,978	
Tuna, albacore	13,554	1,372	50,122	6,861	50,590	7,721	24,444	3,827					138,710	19,781	
Crabs	148,874	9,503	152,240	11,581	141,548	11,476	152,182	12,238	202,946	16,360	159,730	11,606	2,112,124	129,997	
Shrimp	497	68					1,334	194	2,835	366	3,872	468	15,786	2,230	
Clams, hard, in shell (meats)						24,625	3,922	34,187	5,430	31,712	5,264	21,725	3,697	266,030	37,236
Oysters:															
Olympia:															
In shell (meats)	1,059	561	1,323	701	2,141	1,135	2,887	1,639	2,767	1,621	2,767	1,639	26,201	14,232	
Shucked	1,645	1,382	2,844	2,389	2,879	2,449	3,360	2,987	3,229	3,013	3,876	3,655	33,451	29,309	
Pacific:															
In shell (meats)	11,414	609	7,347	392	23,602	1,250	11,493	981	17,266	1,842	15,022	1,603	166,281	10,962	
Shucked	21,157	3,143	25,007	3,727	90,484	16,167	157,246	32,344	143,132	31,683	149,634	33,347	1,162,087	206,572	
Scallops, bay (meats)	2,157	572	1,835	492	1,785	490	1,972	530	1,479	315	2,108	448	19,000	4,874	
Octopus	379	19	264	13	155	0	1,052	62	2,692	161	4,210	337	25,831	1,262	
Squid					1,050	58	24,452	1,122	71,567	2,534	106,911	3,447	225,965	7,665	
Livers: ¹															
Dogfish	129,497	12,950	147,839	31,378	178,813	44,191	405,257	151,199	632,330	230,373	342,987	109,730	2,354,779	620,151	
Halibut and viscera	142,645	42,252	142,237	43,636	166,151	53,502	776	442			103,987	59,274	965,241	314,087	
Lingcod	6,982	5,152	5,540	4,921	2,546	3,207	4,528	8,729	4,289	8,231	2,631	6,397	50,619	63,210	
Ratfish							522	26	5,382	232	15,756	772	21,660	1,030	
Sablefish and viscera	10,123	8,892	15,407	14,072	24,024	25,910	27,848	28,540	11,379	9,660	1,237	683	100,143	95,576	
Skate							2,958	148	20,906	1,045	10,171	508	34,035	1,701	
Shark, soupfin	1,370	1,083	721	693		4,792	14,361	20,607	146,251	27,448	189,706	21,591	84,096	480,964	
Total	{1941	4,984,527	409,099	5,244,014	459,790	5,637,363	602,552	4,162,899	617,537	4,753,112	720,964	1,269,333	375,260	37,300,645	3,995,015
	{1940	4,303,939	311,616	4,648,224	333,546	4,735,341	304,428	3,668,384	209,377	3,517,585	179,564	1,220,171	76,525	30,286,994	2,078,630

¹ Does not include fish received from Alaska or Canada.
² 97,570 dozen.
³ Total fish liver receipts at Seattle, including landings by vessels of the halibut fleet, otter trawl, and miscellaneous receipts.
⁴ Includes fish liver and viscera receipts not available in monthly totals in 1940.

NOTE.—The yields of bivalve mollusks have been converted from weights in the shell to weights of meats on the following basis: Hard clams 25 percent, Olympia oysters 20 percent, Pacific oysters 14 percent, and bay scallops 17 percent.

FISHERIES OF THE GREAT LAKES AND INTERNATIONAL WATERS⁸

In 1941, the yield of the fisheries of the Great Lakes and the international lakes of northern Minnesota, in the United States and Canada, amounted to 101,213,800 pounds, representing a decrease of 2 percent as compared with the catch in the preceding year.

Considering the fishery of United States craft only, the catch amounted to 78,065,300 pounds, valued at \$6,470,290, which was a decrease of 2 percent in volume but an increase of 15 percent in value as compared with the catch of the previous year.

In 1940, the latest year in which a complete survey was made, these fisheries gave employment to 5,142 fishermen. In addition, there were 221 fishery wholesale and manufacturing establishments which employed 3,030 persons, and paid \$2,842,680 in salaries and wages.

Lake fisheries of the United States and Canada, 1941

CATCH: BY LAKES

Species	Lake Ontario			Lake Erie		
	United States	Canada	Total	United States	Canada	Total
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Blue pike.....	97,600	57,800	155,400	3,286,700	1,543,800	4,830,500
Bowfin.....	400	(¹)	400	300	(¹)	300
Burbot.....	45,700	(¹)	45,700	510,800	(¹)	510,800
Carp.....	93,800	150,200	244,000	2,554,700	286,800	2,841,500
Catfish and bullheads.....	63,300	87,600	155,900	715,500	108,500	824,000
Cisco.....	72,100	1,921,800	1,993,900	47,900	115,600	163,500
Eels, common.....		16,400	16,400	100	(¹)	100
Goldfish.....				159,000	(¹)	159,000
Lake trout.....	3,000	125,800	128,800			
Mooneye.....				20,000	(¹)	20,000
Pike or pickerel (jacks).....	11,100	47,100	58,200		46,500	46,500
Rock bass.....	9,900	(¹)	9,900	5,000	(¹)	5,000
Sauger.....				772,600	(¹)	772,600
Sheepshead.....				3,645,600	(¹)	3,645,600
Sturgeon.....	10,200	6,200	16,400	10,700	13,600	24,300
Sucker or "mullet".....	52,200	(¹)	52,200	698,100	(¹)	698,100
Sunfish.....	30,200	(¹)	30,200			
White bass.....				459,300	(¹)	459,300
Whitefish, common.....	60,000	441,600	501,600	2,445,900	3,358,600	5,804,500
Yellow perch.....	39,900	92,600	132,500	3,821,000	2,050,100	5,871,100
Yellow pike.....	3,000	6,800	9,800	2,909,800	347,300	3,257,100
Miscellaneous.....		172,600	172,600		1,079,300	1,079,300
Total.....	597,400	3,126,300	3,723,700	22,063,000	8,950,100	31,013,100

¹ Where there has been a Canadian catch of these species it is included under "Miscellaneous."

⁸ The statistics of the catch were obtained principally from records of the various State fishery agencies and from the Dominion Bureau of Statistics, Ottawa, Can. The data for the operating units (fishermen, vessels, boats, and gear) of the United States which are for 1940, were obtained largely by Fish and Wildlife Service agents in a special canvass; although State records in several instances were very helpful in this work. In all cases the statistics collected are for the calendar year except for Lake of the Woods, Rainy Lake, and Namakan Lake in Minnesota, which are for two seasons. For Lake of the Woods, the seasons are from June 1 to November 1 and December 1 to April 1 and for Rainy and Namakan Lakes, from May 15 to November 1 and December 1 to April 1. The catches for these two seasons, in the order named, have been combined to constitute a year. The quantity of fish taken in these lakes between January 1 and April 1 is estimated at less than 3 percent of the total catch.

Lake fisheries of the United States and Canada, 1941—Continued

CATCH: BY LAKES—Continued

Species	Lake Huron			Lake Michigan	Lake Superior		
	United States	Canada	Total	United States	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike.....		200	200			18,200	18,200
Bowfin.....	2,200	(¹)	2,200	300			
Burbot.....	800	(¹)	800	42,100	1,800	(¹)	1,800
Carp.....	668,600	54,200	722,800	2,056,900	900	(¹)	900
Catfish and bullheads.....	425,700	26,500	452,200	124,100			
Chubs.....	126,300	442,100	568,400	1,629,700	516,900	81,100	598,000
Gizzard shad.....	300	(¹)	300				
Lake herring.....	3,159,000	260,300	3,419,300	1,703,200	17,837,800	1,433,100	19,270,900
Lake trout.....	892,100	2,823,000	3,715,100	6,784,400	2,854,100	1,298,500	4,152,600
Minnows.....			100				
Pike or pickerel (jacks).....		93,000	93,000	700	1,300	9,400	10,700
Rock bass.....	8,100	(¹)	8,100	1,400			
Sauger.....	200	(¹)	200	700	200	(¹)	200
Sheepshead.....	3,600	(¹)	3,600	52,000			
Smelt.....	19,800	(¹)	19,800	4,774,500			
Sturgeon.....		9,400	9,400			2,000	2,000
Sucker or "mullet".....	1,312,300	(¹)	1,312,300	1,934,700	137,800	(¹)	137,800
Whitefish:							
Common.....	113,700	926,200	1,039,900	1,290,100	727,500	314,900	1,042,400
Menominee.....	45,600	(¹)	45,600	61,000	22,600	(¹)	22,600
Yellow perch.....	416,300	225,300	641,600	2,415,500	5,900	(¹)	5,900
Yellow pike.....	1,532,400	264,800	1,797,200	43,600	4,500	115,300	119,800
Crawfish.....				3,000			
Miscellaneous.....		297,700	297,700			163,300	163,300
Total.....	8,727,000	5,422,700	14,149,700	22,918,000	22,111,300	3,435,800	25,547,100

Species	Namakan Lake			Rainy Lake		
	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Carp.....					2,000	2,000
Pike or pickerel (jacks).....	4,400	800	5,200	19,200	192,800	213,000
Sturgeon.....					200	200
Sucker or "mullet".....				7,100		7,100
Tullibees.....					10,200	10,200
Whitefish, common.....	18,100	4,400	22,500	34,900	50,900	85,800
Yellow perch.....				300	9,500	9,800
Yellow pike.....	8,900	6,300	15,200	35,400	176,300	211,700
Miscellaneous.....		1,100	1,100		119,300	119,300
Total.....	31,400	12,600	44,000	96,900	562,200	659,100

¹Where there was a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States and Canada, 1941—Continued

CATCH: BY LAKES—Continued

Species	Lake of the Woods			Total, all lakes		
	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike	3,384,300			3,384,300	1,620,000	5,004,300
Bowfin	3,200			3,200	(¹)	3,200
Burbot	49,200	(¹)	49,200	650,400	(¹)	650,400
Carp	1,600	(¹)	1,600	5,376,500	493,200	5,869,700
Catfish and bullheads	26,600	43,800	70,400	1,360,200	266,400	1,626,600
Chubs				2,272,900	523,200	2,796,100
Cisco				120,000	2,037,400	2,157,400
Eels, common				100	16,400	16,500
Goldfish				159,000	(¹)	159,000
Gizzard shad				300	(¹)	300
Lake herring				22,700,000	1,693,400	24,393,400
Lake trout		10,700	10,700	10,533,600	4,253,000	14,791,600
Minnnows				100	(¹)	100
Mooneye				20,000	(¹)	20,000
Pike or pickerel (jacks)	127,700	340,800	468,500	164,400	731,400	895,800
Rock bass				24,400	(¹)	24,400
Sauger	69,700	(¹)	69,700	843,400	(¹)	843,400
Sheepshead				3,701,200	(¹)	3,701,200
Smelt				4,794,300	(¹)	4,794,300
Sturgeon				20,900	31,400	52,300
Sucker or "mullet"	110,800	(¹)	110,800	4,253,000	(¹)	4,253,000
Sunfish				30,200	(¹)	30,200
Tullibees	471,600	45,900	517,500	471,600	56,100	527,700
White bass				459,300	(¹)	459,300
Whitefish:						
Common	3,200	270,000	273,200	4,693,400	5,366,600	10,060,000
Menominee				129,200	(¹)	129,200
Yellow perch	16,700	12,000	28,700	6,715,600	2,389,500	9,105,100
Yellow pike	643,200	706,600	1,349,800	5,180,800	1,623,200	6,804,000
Crawfish				3,000	(¹)	3,000
Miscellaneous		209,000	209,000		2,042,300	2,042,300
Total	1,520,300	1,638,800	3,159,100	78,065,300	23,148,500	101,213,800

¹ Where there has been a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States

OPERATING UNITS: BY LAKES, 1940

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
	Number	Number	Number	Number	Number	Number	Number
Fishermen:							
On vessels	6	338	161	882	307		1,694
On boats and shore:							
Regular	61	486	426	459	521	123	2,076
Casual	76	259	80	785	172		1,372
Total	143	1,083	667	2,126	1,000	123	5,142
Vessels:							
Steam		12	5	9	4		30
Net tonnage		279	98	180	89		646
Motor	2	63	39	262	103		469
Net tonnage	19	600	585	3,197	1,026		5,427
Total	2	75	44	271	107		499
Total net tonnage	19	879	683	3,377	1,115		6,073
Boats:							
Motor	50	237	175	279	386	59	1,186
Other	34	105	75	180	159	46	599

Lake fisheries of the United States—Continued

OPERATING UNITS: BY LAKES, 1940—Continued

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Apparatus:	Number	Number	Number	Number	Number	Number	Number
Haul seines.....	7	78	33	41	10		169
Length, yards.....	2,570	59,659	15,620	40,600	1,865		120,314
Gill nets:							
"Shoal," 2½ to 3¾ inches	955	13,910	1,999	1,18,924	10,418		46,176
Square yards	144,350	1,799,000	580,929	4,767,395	2,562,942		9,854,616
"Shoal," 4 to 7 inches	596	12,656	4,684	29,092	12,548	214	59,790
Square yards	87,800	1,911,840	1,748,100	9,848,509	5,061,071	64,366	18,721,686
"Shoal," 10 to 14 inches	17	48					65
Square yards	3,500	8,300					11,800
Bar nets							75
Square yards		6,000					6,000
Lines:							
Troll				25	35		60
Hooks				29	55		84
Trot	47	50	220	291	1,650		2,258
Hooks	15,440	19,550	73,950	128,250	379,465		615,755
Pound nets		53	191	501	192	69	1,006
Trap nets	133	4,501	1,901	628	167		7,330
Fyke nets	83	703	106	821	7	67	1,787
Crawfish pots				700			700
Crowfoot bars				22			22
Picks				13			13

¹ Includes a number of smelt gill nets which had a mesh measuring about 1½ inches.

OPERATING UNITS: BY STATES, 1940—Continued

Item	New York	Pennsylvania	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota	Total
Fishermen:	Number	Number	Number	Number	Number	Number	Number	Number	Number
On vessels.....	51	134	159	673	22	62	579	14	1,694
On boats and shores:									
Regular	87	29	391	852	6	14	335	362	2,076
Casual	117		149	539	34	2	490	41	1,372
Total	255	163	699	2,064	62	78	1,404	417	5,142
Vessels:									
Steam	1	8	30	14			4		30
Net tonnage	24	157	98	266			101		646
Motor	10	17	38	195	7	19	177	6	469
Net tonnage	84	169	366	2,236	77	329	2,117	49	5,427
Total vessels	11	25	41	209	7	19	181	6	499
Total net tonnage	108	326	464	2,502	77	329	2,218	49	6,073
Boats:									
Motor	67	8	183	476	14	7	170	261	1,196
Other	60	4	55	264	17		97	102	599
Apparatus:									
Haul seines.....	7		57	64			41		169
Length, yards.....	2,570		46,285	30,859			40,600		120,314
Gill nets:									
"Shoal," 2½ to 3¾ inches	3,055	6,064	5,746	12,265	626	1,890	14,218	2,312	46,176
Square yards	411,650	795,900	735,800	2,362,570	125,430	740,265	3,920,825	762,176	9,854,616
"Shoal," 4 to 7 inches	3,556	6,160	3,530	29,890	435	1,540	13,010	1,669	59,790
Square yards	442,500	985,600	570,340	9,085,636	96,570	764,425	6,284,449	492,166	18,721,686
"Shoal," 10 to 14 inches	25		40						65
Square yards	4,700		7,100						11,800
Bar nets									75
Square yards			6,000						6,000
Lines:									
Troll				60					60
Hooks				84					84
Trot	87			1,395			283	493	2,258
Hooks	32,490			398,708			151,320	33,245	615,755
Pound nets		53		578	6		300	69	1,006
Trap nets	147		4,388	2,791	4				7,330
Fyke nets	83		267	584			786	67	1,787
Crawfish pots							700		700
Crowfoot bars							9		22
Picks				13					13

Lake fisheries of the United States

CATCH: BY GEAR, 1941

Species	New York							
	Haul seines		Gill nets		Trot lines		Trap nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike.....			126,000	\$13,192			4,300	\$470
Bowfin.....							300	6
Burbot.....			10,100	452			34,100	1,249
Carp.....	79,700	\$3,976			300	\$27	10,500	332
Catfish and bullheads.....	1,100	145	700	84			43,700	4,758
Cisco.....			72,000	12,207			1,500	102
Eels, common.....					100	10		
Lake trout.....	1,100	106	1,700	294			200	41
Pike or pickerel (jacks).....			600	66			6,600	573
Rock bass.....			1,000	60			8,600	328
Sheepshead.....			300	5			400	12
Sturgeon.....			1,700	¹ 727	13,500	¹ 6,832	500	¹ 206
Sucker or "mullet".....			35,300	721	300	10	19,200	639
Sunfish.....							30,200	1,206
White bass.....			3,500	181				
Whitefish, common.....			428,600	68,793			40,300	6,886
Yellow perch.....			59,100	5,577			14,700	742
Yellow pike.....			1,000	148			5,300	839
Total.....	81,900	4,227	741,600	102,507	14,200	6,879	220,400	18,389

Species	New York—Continued				Pennsylvania	
	Fyke nets		Total		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike.....	100	\$7	130,400	\$13,669	133,400	\$11,259
Bowfin.....	100	1	400	7		
Burbot.....	3,800	151	48,000	1,852	7,900	72
Carp.....	3,500	96	94,000	4,431		
Catfish and bullheads.....	23,100	2,809	68,600	7,796		
Cisco.....			73,500	12,309	35,700	5,920
Eels, common.....			100	10		
Lake trout.....			3,000	441		
Pike or pickerel (jacks).....	3,900	229	11,100	868		
Rock bass.....	400	13	10,000	401		
Sheepshead.....			700	17	1,100	24
Sturgeon.....			15,700	¹ 7,765		
Sucker or "mullet".....	3,500	143	58,300	1,513	5,200	70
Sunfish.....			30,200	1,206		
White bass.....			3,500	181	6,700	273
Whitefish, common.....			468,900	75,679	1,126,600	204,537
Yellow perch.....	3,600	142	77,400	6,461	118,100	11,050
Yellow pike.....			6,300	987	500	75
Total.....	42,000	3,591	1,100,100	135,593	1,435,200	233,280

¹ Includes the value of roe.

Lake fisheries of the United States—Continued

CATCH: BY GEAR, 1941—Continued

Species	Pennsylvania—Continued				Ohio			
	Pound nets		Total		Haul seines		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	\$3,500	\$6,471	216,900	\$17,730	500	\$52	40,400	\$4,242
Burbot	16,700	96	24,600	168	100	4	600	24
Carp	3,800	75	3,800	75	1,541,300	38,532	1,900	48
Catfish and bullheads	2,700	153	2,700	153	223,100	17,848	2,400	192
Cisco	2,200	299	37,900	6,219	1,000	170	1,700	289
Goldfish					145,900	4,377		
Mooneye					10,500	420		
Sauger					10,000	950	213,200	20,254
Sheepshead	26,300	552	27,400	576	900,000	22,500	9,100	228
Sturgeon	700	236	700	236			1,000	350
Sucker or "mullet"	15,200	235	20,400	305	33,900	902	15,300	407
White bass	29,400	1,364	36,100	1,637	33,100	2,648	15,400	1,232
Whitefish, common	95,200	16,168	1,221,800	220,705			156,800	29,008
Yellow perch	44,700	3,616	162,800	14,666	4,700	446	516,100	49,030
Yellow pike	38,700	4,152	39,200	4,227	14,400	1,800	25,900	3,238
Total	359,100	33,417	1,794,300	266,697	2,918,500	90,649	999,800	108,542

Species	Ohio—Continued							
	Bar nets		Trap nets		Fyke nets		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike			2,977,100	\$312,596	11,300	\$1,186	3,029,300	\$318,076
Burbot			482,800	19,312			483,500	19,340
Carp	109,300	\$2,732	189,400	4,735	53,500	1,338	1,895,400	47,385
Catfish and bullheads			367,900	29,432	45,200	3,616	638,600	51,088
Cisco			5,900	1,003			8,600	1,462
Goldfish	4,700	141	6,000	180	2,000	60	158,600	4,758
Mooneye			7,700	308	1,700	68	19,900	796
Sauger			507,200	48,184	8,400	798	738,800	70,186
Sheepshead	300	8	2,434,500	60,862	154,800	3,870	3,498,700	87,468
Sturgeon			3,500	1,225			4,500	1,575
Sucker or "mullet"	200	5	560,600	14,912	29,600	787	639,600	17,013
White bass			279,200	22,336	57,300	4,584	385,000	30,800
Whitefish, common			648,200	119,917	2,700	499	807,700	149,424
Yellow perch			3,061,600	290,852	13,700	1,302	3,596,100	341,630
Yellow pike			2,634,700	329,338	63,100	7,887	2,738,100	342,263
Total	114,500	2,886	14,166,300	1,255,192	443,300	25,995	18,642,400	1,483,264

Lake fisheries of the United States—Continued

CATCH: BY GEAR, 1941—Continued

Species	Michigan							
	Haul seines		Gill nets		Lines			
	Pounds	Value	Pounds	Value	Troll		Trot	
Pounds					Value	Pounds	Value	
Bowfin.....							100	\$1
Burbot.....			4,400	\$223			700	34
Carp.....	889,200	\$26,675	36,700	1,102			400	11
Catfish and bullheads.....	79,500	5,859	700	54			37,000	2,925
Chubs.....			477,600	71,652				
Goldfish.....	300	6						
Lake herring.....	164,400	6,167	6,782,100	254,329				
Lake trout.....			5,170,500	878,986	13,200	\$2,252	633,600	107,717
Rock bass.....	2,000	80	100	4				
Sauger.....			800	50				
Sheepshead.....	21,400	429	100	1			700	13
Smelt.....			457,200	13,715				
Sucker or "mullet".....	129,100	3,874	221,600	6,647				
White bass.....	4,400	436						
Whitefish:								
Common.....	200	35	775,500	162,865				
Menominee.....	200	18	91,400	7,309				
Yellow perch.....	20,800	2,076	392,400	39,236				
Yellow pike.....	84,500	12,671	73,100	10,996				
Total.....	1,396,000	58,326	14,484,200	1,447,139	13,200	2,252	672,500	110,701

Species	Michigan—Continued							
	Pound nets		Trap nets		Fyke nets		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike.....			6,700	\$404	1,000	\$57	7,700	\$461
Bowfin.....			100	1	2,400	50	2,600	52
Burbot.....	100	\$3	1,000	49	600	31	6,800	340
Carp.....	132,400	3,973	262,200	7,867	151,900	4,556	1,472,800	44,184
Catfish and bullheads.....	7,800	610	319,300	24,243	62,800	3,119	507,100	36,801
Chubs.....			100	7			477,700	71,659
Goldfish.....					100	3	400	9
Gizzard shad.....			300	6			300	6
Lake herring.....	802,400	30,089	2,065,100	77,440	300	10	9,814,300	368,035
Lake trout.....	100,700	17,116	30,500	5,176	500	88	5,949,000	1,011,335
Mooneye.....					100	1	100	1
Pike or pickerel (jacks).....			600	42			600	42
Rock bass.....			4,600	182	7,700	311	14,400	577
Sauger.....			21,300	1,278	12,800	767	34,900	2,095
Sheepshead.....	31,000	620	74,200	1,484	30,100	603	157,500	3,150
Smelt.....	2,547,900	76,437	800	25	33,400	1,003	3,039,300	91,180
Sucker or "mullet".....	52,300	1,570	1,892,800	56,784	196,100	5,881	2,491,900	74,756
White bass.....			21,000	2,104	9,300	928	34,700	3,468
Whitefish:								
Common.....	571,200	119,943	104,700	21,995	1,000	202	1,452,600	305,040
Menominee.....	2,500	199	7,300	588			101,400	8,114
Yellow perch.....	15,000	1,498	350,900	35,094	62,700	6,274	841,800	84,178
Yellow pike.....	25,300	3,795	1,462,900	219,438	63,900	9,582	1,709,700	256,452
Total.....	4,288,600	255,853	6,626,400	454,207	636,700	33,457	28,117,600	2,361,935

Lake fisheries of the United States—Continued

CATCH: BY GEAR, 1941—Continued

Species	Indiana						Illinois	
	Gill nets		Pound nets		Total		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	1,200	\$120			1,200	\$120		
Carp			6,500	\$260	6,500	260		
Chubs	62,800	10,458			62,800	10,458	314,400	\$52,695
Lake herring	12,200	646	11,000	583	23,200	1,229	112,100	7,227
Lake trout	146,000	25,017			146,000	25,017	704,800	143,348
Sucker or "mullet"	300	14	1,000	50	1,300	64		
Whitefish, common			3,700	740	3,700	740		
Yellow perch	38,800	2,563	2,500	165	41,300	2,728	423,800	38,143
Total	261,300	38,818	24,700	1,798	286,000	40,616	1,555,100	241,413

Species	Wisconsin							
	Haul seines		Gill nets		Trammel nets		Trot lines	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Burbot			21,100	\$211			800	\$8
Carp	1,617,900	\$48,537	139,500	4,185	1,400	\$42		
Catfish and bullheads	31,100	3,554	300	34				
Chubs			1,298,300	233,697				
Lake herring			6,832,900	256,234				
Lake trout			2,541,600	432,072			621,300	105,621
Minnows			100					
Sheepshead	2,300	115	600	30				
Smelt			1,395,400	69,770				
Sucker or "mullet"			511,100	25,555				
Whitefish:								
Common			242,400	50,904				
Menominee			23,800	1,904				
Yellow perch			648,100	64,810				
Total	1,651,300	52,206	13,655,200	1,139,406	1,400	42	622,100	105,629

Species	Wisconsin—Continued							
	Pound nets		Drop and fyke nets		Crawfish pots		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin			200	\$6			200	\$6
Burbot	1,700	\$17	13,500	135			37,100	371
Carp	300	9	143,300	4,299			1,902,400	57,072
Catfish and bullheads	300	34	84,900	9,700			116,600	13,322
Chubs	13,500	2,422	500	82			1,312,300	236,201
Lake herring	191,000	7,163	2,700	101			7,026,600	263,498
Lake trout	214,600	36,482					3,377,500	574,175
Minnows							100	
Pike or pickerel (jacks)			100	10			100	10
Sheepshead	5,700	285	8,300	415			16,900	845
Smelt	359,600	17,980					1,755,000	87,750
Sucker or "mullet"	40,800	2,040	366,200	18,310			918,100	45,905
Whitefish:								
Common	431,300	90,574					673,700	141,478
Menominee	400	32					24,200	1,936
Yellow perch	27,900	2,790	879,400	87,940			1,555,400	155,540
Crawfish					3,000	\$224	3,000	224
Total	1,287,100	159,828	1,499,100	120,998	3,000	224	18,719,200	1,578,333

Lake fisheries of the United States—Continued

CATCH: BY GEAR, 1941—Continued

Species	Minnesota							
	Gill nets		Trot lines		Pound nets		Fyke nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	7,100	\$106					2,800	\$42
Carp					39,300	\$590	200	7
Catfish and bullheads	2,200	237			7,400	811	17,000	1,872
Chubs	105,700	14,653						
Lake herring	5,723,800	133,009						
Lake trout	291,300	40,763	61,900	\$8,826				
Pike or pickerel (jacks)	84,100	4,671			100	7		
Sauger	45,500	3,642			59,700	3,507	8,800	525
Sucker or "mullet"	68,400	2,119			15,000	1,200	9,200	734
Tullibees	299,700	28,467			47,000	1,411	8,000	240
Whitefish:					123,900	11,769	48,000	4,562
Common	51,200	6,644						
Menominee	3,600	261			13,600	1,697	200	22
Yellow perch	11,600	1,320					1,800	210
Yellow pike	522,800	66,783			142,100	18,331	22,600	2,940
Total	7,217,000	302,675	61,900	8,826	453,100	39,784	118,600	11,154

Species	Minnesota—Continued	
	Total	
	Pounds	Value
Burbot	49,200	\$738
Carp	1,600	51
Catfish and bullheads	26,600	2,920
Chubs	105,700	14,653
Lake herring	5,723,800	133,009
Lake trout	353,300	49,596
Pike or pickerel (jacks)	152,600	8,703
Sauger	69,700	5,576
Sucker or "mullet"	123,400	3,770
Tullibees	471,600	44,798
Whitefish:		
Common	65,000	8,363
Menominee	3,600	261
Yellow perch	17,000	1,947
Yellow pike	687,500	8,8054
Total	7,850,600	362,439

Lake fisheries of the United States—Continued

CATCH: BY LAKES, 1941

Species	Lake Ontario		Lake Erie			
	New York		New York		Pennsylvania	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	97,600	\$10,451	32,800	\$3,218	216,900	\$17,730
Bowfin	400	7				
Burbot	45,700	1,794	2,300	58	24,800	168
Carp	93,800	4,409	200	22	3,800	75
Catfish and bullheads	68,300	7,775	300	21	2,700	153
Cisco	72,100	12,098	1,400	211	37,900	6,219
Eels, common			100	10		
Lake trout	3,000	441				
Pike or pickerel (jacks)	11,100	868				
Rock bass	9,900	397	100	4		
Sheepshead			700	17	27,400	576
Sturgeon	10,200	4,936	5,500	2,829	700	236
Sucker or "mullet"	52,200	1,380	6,100	133	20,400	305
Sunfish	30,200	1,206				
White bass			3,500	181	36,100	1,637
Whitefish, common	60,000	10,261	408,900	65,418	1,221,800	220,705
Yellow perch	39,800	2,923	37,500	3,538	162,800	14,666
Yellow pike	3,000	495	3,300	492	39,200	4,227
Total	597,400	59,441	502,700	76,152	1,794,300	266,697

Species	Lake Erie—Continued					
	Ohio		Michigan		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	3,029,300	\$318,076	7,700	\$461	3,286,700	\$339,485
Bowfin			300	5	300	5
Burbot	483,500	19,340	400	20	510,800	19,586
Carp	1,895,400	47,385	655,300	19,661	2,554,700	67,143
Catfish and bullheads	638,600	51,088	73,900	3,802	715,500	55,064
Cisco	8,600	1,462			47,900	7,892
Eels, common					100	10
Goldfish	158,600	4,758	400	9	159,000	4,767
Mooneye	19,900	796	100	1	20,000	797
Rock bass			4,900	196	5,000	200
Sanger	738,800	70,186	33,800	2,030	772,600	72,216
Sheepshead	3,498,700	87,468	118,800	2,376	3,645,600	90,437
Sturgeon	4,500	1,575			10,700	4,640
Sucker or "mullet"	369,600	17,013	32,000	960	698,100	18,411
White bass	385,000	30,800	34,700	3,468	459,300	36,086
Whitefish, common	807,700	149,424	7,500	1,567	2,445,900	437,114
Yellow perch	3,596,100	341,630	24,600	2,454	3,821,000	362,288
Yellow pike	2,738,100	342,263	129,200	19,385	2,909,800	366,367
Total	18,642,400	1,483,264	1,123,600	56,395	22,063,600	1,882,508

Lake fisheries of the United States—Continued

CATCH: BY LAKES, 1941—Continued

Species	Lake Huron		Lake Michigan			
	Michigan		Michigan		Indiana	
	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin	2,200	\$44	100	\$3		
Burbot	800	41	4,400	222	1,200	\$120
Carp	668,600	20,058	148,000	4,437	6,500	260
Catfish and bullheads	425,700	32,455	7,500	544		
Chubs	126,300	18,939	309,200	46,379	62,800	10,458
Gizzard shad	300	6				
Lake herring	3,159,000	118,462	701,000	26,286	23,200	1,229
Lake trout	892,100	151,653	3,186,200	541,651	146,000	25,017
Pike or pickerel (jacks)			600	42		
Rock bass	8,100	325	1,400	56		
Sauger	200	13	700	42		
Sheepshead	3,600	73	35,100	701		
Smelt	19,800	594	3,019,500	90,586		
Sucker or "mullet"	1,312,300	39,368	1,044,400	31,333	1,300	64
Whitefish:						
Common	113,700	23,883	885,800	186,022	3,700	740
Menominee	45,600	3,654	47,000	3,756		
Yellow perch	416,300	41,628	395,000	39,503	41,300	2,728
Yellow pike	1,532,400	229,856	43,600	6,539		
Total	8,727,000	681,052	9,829,500	978,102	286,000	40,616

Species	Lake Michigan—Continued					
	Illinois		Wisconsin		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin			200	\$6	300	\$9
Burbot			36,500	365	42,100	707
Carp			1,902,400	57,072	2,056,900	61,769
Catfish and bullheads			116,600	13,322	124,100	13,866
Chubs	314,400	\$52,695	943,300	169,795	1,629,700	279,327
Lake herring	112,100	7,227	866,900	32,509	1,703,200	67,251
Lake trout	704,800	143,348	2,747,400	467,058	6,784,400	1,177,074
Minnows			100		100	
Pike or pickerel (jacks)			100	10	700	52
Rock bass					1,400	56
Sauger					700	42
Sheepshead			16,900	845	52,000	1,546
Smelt			1,755,000	87,750	4,774,500	173,336
Sucker or "mullet"			889,000	44,450	1,934,700	75,847
Whitefish:						
Common			400,600	84,126	1,290,100	270,888
Menominee			14,000	1,120	61,000	4,876
Yellow perch	423,800	38,143	1,555,400	155,540	2,415,500	235,914
Yellow pike					43,600	6,539
Crawfish			3,000	224	3,000	224
Total	1,555,100	241,413	11,247,400	1,114,192	22,918,000	2,374,323

Species	Lake Superior					
	Michigan		Wisconsin		Minnesota	
	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	1,200	\$57	600	\$6		
Carp	900	28				
Chubs	42,200	6,341	369,000	66,406	105,700	\$14,653
Lake herring	5,954,300	223,287	6,159,700	230,989	5,723,800	133,009
Lake trout	1,870,700	318,031	630,100	107,117	353,300	49,596
Pike or pickerel (jacks)					1,300	96
Sauger	200	10				
Sucker or "mullet"	103,200	3,095	29,100	1,445	5,500	234
Whitefish:						
Common	445,600	93,568	273,100	57,352	8,800	1,340
Menominee	8,800	704	10,200	816	3,600	261
Yellow perch	5,900	593				
Yellow pike	4,500	672				
Total	8,437,500	646,386	7,471,800	464,141	6,202,000	199,189

Lake fisheries of the United States, 1941—Continued

CATCH: BY LAKES—Continued

Species	Lake Superior—Continued		Lake of the Woods, Rainy Lake and Namakan Lake		Total, all lakes	
	Total		Minnesota		Pounds	Value
	Pounds	Value	Pounds	Value		
Blue pike					3,384,300	\$349,936
Bowfin					3,200	65
Burbot	1,800	\$63	49,200	\$738	650,400	23,929
Carp	900	28	1,600	51	5,376,500	153,458
Catfish and bullheads			26,600	2,920	1,360,200	112,080
Chute	516,900	\$7,400			2,272,900	385,666
Cisco					120,000	19,990
Eels, common					100	10
Goldfish					159,000	4,767
Gizzard shad					300	6
Lake herring	17,837,800	587,285			22,700,000	772,998
Lake trout	2,854,100	474,744			10,533,600	1,803,912
Minnows					100	
Mooneye					20,000	797
Pike or pickerel, jack	1,300	96	151,300	8,607	164,400	9,623
Rock bass					24,400	978
Sauger	200	10	69,700	5,576	843,400	77,857
Sheepshead					3,701,200	92,056
Smelt					4,794,300	178,930
Sturgeon					20,900	9,576
Sucker or flannelhead	137,800	4,784	117,900	3,536	4,253,000	143,326
Sunfish					30,200	1,206
Turtles			473,600	44,798	471,600	44,798
White bass					459,300	36,086
Whitefish						
Common	727,500	152,266	56,200	7,023	4,693,400	901,429
Menominee	22,600	1,781			129,200	10,311
Yellow perch	5,900	593	17,000	1,947	6,713,600	645,293
Yellow pike	4,500	672	687,500	88,054	5,180,800	691,983
Crayfish					3,000	224
Total	22,111,300	1,099,716	1,618,600	163,250	78,065,300	6,470,290

¹ Includes value of roe.

NOTE: These statistics do not include data on the catch of smelt by dip nets or the production of muskellunge in the streams tributary to the Great Lakes since data on the yield of these items were not collected.

Industries related to the fisheries of the Lake States

OPERATING UNITS, SALARIES AND WAGES, 1940

Industry	New York	Pennsylvania	Ohio	Michigan	Indiana and Illinois	Wisconsin	Minnesota	Total
Transporting	Number	Number	Number	Number	Number	Number	Number	Number
Persons employed			28	5				33
Vessels motor			3	2				11
Net tonnage			80	21				101
Wholesale and retail trade								
Establishments	18	6	47	50	49	39	12	221
Employees	19	5	14	36	16	32	9	151
Paid employees	33	19	79	76	231	54	28	508
Wage earners								
Average for year	119	42	282	471	730	558	149	2,371
Average for year	87	24	185	280	547	198	58	1,296
Paid to unskilled employees	\$73,144	\$11,950	\$198,030	\$159,743	\$328,982	\$110,396	\$45,404	\$1,075,019
Paid to skilled workers	\$113,329	\$40,637	\$288,787	\$248,146	\$782,461	\$218,359	\$78,911	\$1,767,661
Total to unskilled & skilled workers	\$186,473	\$52,587	\$486,817	\$407,889	\$1,111,443	\$328,755	\$124,315	\$2,842,680
Fishing, manufacturing			14	23	16	25	111	189

Industries related to the fisheries of the Lake States—Continued

PRODUCTS MANUFACTURED

Item	New York		Pennsylvania		Ohio	
	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:						
Alewives, spiced..... pounds.....	(2)	(2)				
Blue pike:						
Fresh fillets ³ do.....	251,900	\$74,764	57,504	\$16,006	578,822	\$163,377
Frozen fillets ³ do.....	(2)	(2)			170,739	50,050
Chubs, ciscoes, and tullibees smoked..... do.....	(2)	(2)			(2)	(2)
Eels, smoked..... do.....	19,500	4,890				
Herring, lake:						
Fresh fillets ³ do.....					(2)	(2)
Smoked..... do.....	(2)	(2)				
Herring, sea, spiced..... do.....	(2)	(2)				
Lake trout, fresh fillets ³ do.....	12,050	3,546			40,600	13,375
Sablefish, smoked..... do.....					(2)	(2)
Salmon:						
Kipperd..... do.....	(2)	(2)				
Smoked..... do.....	(2)	(2)			(2)	(2)
Sauger:						
Fresh fillets ³ do.....	316,400	92,417	(2)	(2)	272,570	71,094
Frozen fillets ³ do.....	64,775	17,011	31,498	7,947	91,700	22,512
White bass, fresh fillets ³ do.....	(2)	(2)	4,137	692	8,140	1,675
Whitefish:						
Fresh fillets ³ do.....	19,600	6,167	7,370	2,662	54,400	18,105
Smoked..... do.....	34,578	9,758			(2)	(2)
Yellow perch:						
Fresh fillets ³ do.....	35,300	10,248	16,628	4,843	285,280	79,897
Frozen fillets ³ do.....		(2)			58,617	14,975
Yellow pike:						
Fresh fillets ³ do.....	93,000	28,480	(2)	(2)	88,400	25,761
Frozen fillets ³ do.....	(2)	(2)			11,400	3,304
Unclassified products:						
Fillets, fresh and frozen ³ do.....	⁴ 30,030	⁴ 7,771	⁵ 10,563	⁵ 2,838	⁶ 31,900	⁶ 8,230
Miscellaneous ¹¹ do.....	¹² 786,200	¹² 109,760			¹³ 260,000	¹³ 57,950
Total.....	1,663,333	364,812	127,700	34,988	1,952,568	530,305
By fishermen:						
Blue pike, fresh fillets..... pounds.....					9,000	2,250
Catfish and bullheads, smoked..... do.....					7,800	1,560
Carp, smoked..... do.....					3,000	300
Sheepshead, smoked..... do.....					15,600	2,340
Whitefish, common, smoked..... do.....					14,400	4,320
Yellow perch, fresh fillets..... do.....					9,000	2,250
Yellow pike, fresh fillets..... do.....					21,000	5,250
Total.....					79,800	18,270
Grand total.....	1,663,333	364,812	127,700	34,988	2,032,368	548,575

Item	Illinois ¹		Michigan		Wisconsin		Minnesota	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:								
Alewives, spiced . pounds..	3,012,349	\$301,750	(2)	(2)	241,150	\$23,160	(2)	(2)
Blue pike:								
Fresh fillets ³ . do....	142,247	41,086	(2)	(2)	14,000	3,500		
Frozen fillets ³ do.....	12,127	3,199	(2)	(2)				
Chubs, ciscoes, and tullibees, smoked . pounds..	¹ 1,789,647	¹ 552,796	225,000	\$74,330	273,307	80,580	99,718	\$22,373
Eels, smoked..... do.....	30,455	7,626						
Herring, lake:								
Fresh fillets ³ . do....	(2)	(2)		(2)	7,300	685		
Salted..... do.....			1,624,574	47,788	1,264,000	42,800	(2)	(2)
Smoked..... do.....	246,515	33,700	130,542	19,840	597,400	66,170	81,740	8,552
Herring, sea, spiced do.....	962,229	111,397	(2)	(2)	271,750	21,740	(2)	(2)
Lake trout:								
Fresh fillets ³ . do....	(2)	(2)	(2)	(2)	15,000	4,520		
Smoked..... do.....	¹ 194,755	¹ 61,458	143,000	43,440	291,096	81,262	12,920	3,632
Sablefish, smoked . do....	32,495	9,054	222,000	51,710	106,500	24,900		
Salmon:								
Kipperd..... do.....	195,415	66,740	245,000	61,450	86,406	19,407	(2)	(2)
Smoked..... do.....	607,886	252,669	97,000	32,400	(2)	(2)	(2)	(2)
Sauger:								
Fresh fillets ³ . do....	1,101,376	298,916	(2)	(2)	239,500	58,710	(2)	(2)
Frozen fillets ³ do.....	389,061	104,092	(2)	(2)	355,000	77,750		
White bass, fresh fillets ³ pounds..	(2)	(2)	(2)	(2)	(2)	(2)		
Whitefish:								
Fresh fillets ³ . do....	19,233	7,591	(2)	(2)	(2)	(2)		
Smoked..... do.....	¹ 17,091	¹ 4,784	109,500	30,670	19,000	4,750	(2)	(2)

Industries related to the fisheries of the Lake States—Continued

PRODUCTS MANUFACTURED—Continued

Item	Illinois		Michigan		Wisconsin		Minnesota	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments—continued								
Yellow perch:								
Fresh fillets ¹ pounds.	127,228	\$35,303	(²)	(²)	148,400	\$35,702	.....	.....
Frozen fillets ³ do....	46,713	12,513	(²)	(²)	23,000	5,300	.....	.....
Yellow pike:								
Fresh fillets ³ do....	228,232	60,494	(²)	(²)	89,000	22,850	(²)	(²)
Frozen fillets ³ do....	37,612	9,989	(²)	(²)	68,000	15,850	.....	.....
Unclassified products:								
Fillets, fresh and frozen ⁴ pounds....	⁷ 32,878	⁷ 6,681	⁸ 288,241	⁸ \$58,657	⁹ 7,940	⁹ 1,474	(¹⁰)	(¹⁰)
Miscellaneous ¹¹.....	.....	¹⁴ 338,786	¹⁵ 72,200	¹⁵ 16,950	.....	¹⁶ 55,166	.....	¹⁷ \$45,916
Total.....	.....	2,320,624	3,157,057	437,235	.....	646,276	.....	80,473
By fishermen:								
Chubs, ciscoes, and tullibees, smoked. pounds.	70,000	21,000	.....	.....	33,000	9,900	.....	.....
Herring, lake:								
Salted.....do.....	.....	.....	120,000	3,500	48,000	1,400	1,870,000	59,500
Smoked.....do.....	.....	.....	4,000	800	.....	.....	.....	.....
Lake trout:								
Salted.....do.....	.....	.....	27,000	2,100	.....	.....	.....	.....
Smoked.....do.....	70,000	21,000	10,000	3,500	15,400	4,620	.....	.....
Sturgeon, roe, salted do....	.....	.....	.....	.....	.....	.....	28	28
Suckers, smoked.....do....	.....	.....	2,000	150	.....	.....	.....	.....
Whitefish, common, smoked.....pounds.....	.....	.....	4,000	1,400	.....	.....	.....	.....
Whitefish, menominee, smoked.....pounds.....	.....	.....	6,000	1,500	.....	.....	.....	.....
Yellow perch, smoked pounds....	.....	.....	600	150	.....	.....	.....	.....
Yellow pike, smoked pounds....	.....	.....	600	150	.....	.....	.....	.....
Total.....	140,000	42,000	174,200	13,250	96,400	15,920	1,870,028	59,528
Grand total.....	.....	2,362,624	3,331,257	450,485	.....	662,196	.....	140,001

¹ A small amount of smoked chubs, lake trout, and whitefish produced in Indiana has been included with the production for Illinois.

² This item has been included under "Unclassified products."

³ Data are for 1941.

⁴ Includes fresh fillets of white bass; and frozen fillets of blue pike, lake trout, whitefish, yellow perch, and yellow pike.

⁵ Includes fresh fillets of sauger and yellow pike.

⁶ Includes fresh fillets of flounder, lake herring, and red snapper; and frozen fillets of whitefish and lake trout.

⁷ Includes fresh fillets of cod, flounder, haddock, lake herring, lake trout, pike or "pickerel," suckers, and white bass.

⁸ Includes fresh fillets of blue pike, lake herring, lake trout, sauger, white bass, whitefish, yellow perch, and yellow pike; and frozen fillets of blue pike, lake herring, sauger, yellow perch and yellow pike.

⁹ Includes fresh fillets of white bass and whitefish; and frozen fillets of lake herring.

¹⁰ This item has been included under "Miscellaneous."

¹¹ Both 1940 and 1941 data have been included in this item.

¹² Includes smoked chubs, ciscoes, tullibees, lake herring, sea herring, sea salmon, and sturgeon: spiced alewives and sea herring; and kippered salmon.

¹³ Includes smoked carp, chubs, ciscoes, tullibees, mooneye, sablefish, salmon, sheepshead, and whitefish; and spiced alewives.

¹⁴ Includes smoked buffalo fish, butterfish, carp, sea herring, shad, and sturgeon; and canned hard clam chowder.

¹⁵ Includes smoked butterfish, carp, mackerel, and Menominee whitefish; and spiced alewives and sea herring.

¹⁶ Includes canned whitefish caviar; smoked carp and salmon; burbot-liver oil; and mussel-shell poultry feed and lime.

¹⁷ Includes fresh fillets of sauger, tullibee, and yellow pike; kippered salmon; spiced alewives and sea herring; salted lake herring; smoked salmon and whitefish; and burbot-liver oil.

NOTE.—Unless otherwise indicated, data are for 1940. The total value of the manufactured products for the Lake States was as follows: By manufacturing establishments, \$4,414,713; and by fishermen, \$148,968. Some of the above products may have been manufactured from products imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. All of the persons engaged in the preparation of fishermen's prepared products and all of the persons shown on transporting craft have been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

FISHERIES OF THE MISSISSIPPI RIVER AND TRIBUTARIES

The most recent complete catch statistics of the fisheries of the Mississippi River and tributaries are those collected for the year 1931. ("Fishery Industries of the United States, 1932," by R. H. Fiedler, Appendix III to the Report of the Commissioner of Fisheries for the fiscal year 1933.) The yield of fishery products in 1931 amounted to 82,382,523 pounds, valued at \$2,897,357, which is a decrease of 22 percent in quantity and 36 percent in value as compared with the quantity and value of the catch in 1922, when the preceding survey was made.

A summary of these fisheries in 1931 was published in the Bureau of Fisheries annual reports entitled, "Fishery Industries of the United States," by R. H. Fiedler, for the years 1933 to 1938, inclusive. Information regarding the production of cured fishery products in the Mississippi River area in 1931 and of mussel-shell products for 1941 appears in the following table.

Industries related to the fisheries of the Mississippi River and tributaries

PRODUCTS MANUFACTURED

Item	Indiana		Illinois, Iowa, and Missouri		Louisiana	
	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:						
Salmon, smoked.....pounds			240,000	\$48,800		
Sturgeon, smoked.....do			162,000	39,140		
Mussel-shell products: ²						
Buttons.....gross			8,169,257	2,481,413		
Poultry feed.....tons			3,323	24,196		
Miscellaneous.....do				\$ 40,747		
Unclassified, smoked.....pounds			4 83,000	4 14,440		
Total.....do				2,648,736		
By fishermen:						
Alligator hides.....pounds					88,356	\$7,363
Carp, smoked.....do			667	67		
Paddlefish roe, salted.....do	450	\$180	900	540		
Sheepshead, smoked.....do			617	77		
Sturgeon:						
Smoked.....do			1,333	400		
Roe, salted.....do			35	32		
Total.....do	450	180	3,552	1,116	88,356	7,363
Grand total.....do	450	180		2,649,852	88,356	7,363

Item	Minnesota and Nebraska		Mississippi		Ohio, Tennessee, and Pennsylvania	
	Quantity	Value	Quantity	Value	Quantity	Value
By manufacturing establishments:						
Chubs, smoked.....pounds					106,600	\$26,650
Salmon, smoked.....do	(1)	(1)			(1)	(1)
Sturgeon, smoked.....do	(1)	(1)				
Whitefish, smoked.....do	255,000	\$47,200			(1)	(1)
Unclassified, smoked.....do	5 66,600	5 19,793			6 184,900	50,555
Total.....do	321,600	66,993			291,500	77,205
By fishermen:						
Paddlefish roe, salted.....do			245	\$92		
Total.....do			245	92		
Grand total.....do	321,600	66,993	245	92	291,500	77,205

¹ The production of this item has been included under "Unclassified, smoked."

² Data are for 1941.

³ Includes mussel-shell lime and dust, chips and novelties.

⁴ Includes smoked buffalofish and tullibees.

⁵ Includes smoked eels, salmon, and sturgeon.

⁶ Includes smoked buffalofish, butterfish, carp, lake trout, paddlefish, sablefish, salmon, tullibees, and whitefish.

NOTE.—Unless otherwise indicated, data are for 1931. The total value of the manufactured products for the States of the Mississippi River and tributaries territory was as follows: By manufacturing establishments, \$2,792,934, and by fishermen, \$8,751. Some of the products may have been manufactured from fishery products imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State.

FISHERIES OF ALASKA⁹

The commercial catch of fishery products in Alaska during 1941 amounted to 736,268,665 pounds, valued at \$15,039,269 to the fishermen, representing an increase of 31 percent in volume and 42 percent in value as compared with the catch in 1940. Of the total catch in 1941, 543,024,377 pounds valued at \$12,608,668 consisted of salmon; 190,256,670 pounds, valued at \$2,282,348 consisted of other fish; and 2,987,618 pounds, valued at \$148,253 consisted of shellfish. These fisheries gave employment to 27,024 persons as compared to 25,199 in 1940, an increase of 7 percent. No whaling operations were conducted in Alaska during 1941.

⁹ Statistics for the fisheries of Alaska are collected and compiled by the Alaska Division of this Service. A summary of these statistics appears in this section. For detailed information on the fisheries of Alaska the reader is referred to Statistical Digest No. 5, entitled "Alaska Fishery and Fur Seal Industries: 1941," by Ward T. Bower.

Fisheries of Alaska, 1941

SUMMARY: BY DISTRICTS

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
PERSONS ENGAGED				
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
In fishing	4,565	3,073	2,799	10,437
In transporting	842	640	318	1,900
In wholesale and manufacturing industries	7,541	3,939	3,307	14,787
Total	12,948	7,652	6,424	27,024
CRAFT EMPLOYED				
Vessels fishing	837	141		978
Boats fishing	1,820	1,436	1,079	4,335
Vessels transporting	192	132	65	389
Scows, houseboats, pile drivers, etc.	242	264	122	628
Total	3,091	1,973	1,266	6,330
Wholesale and Manufacturing Establishments	96	102	39	237

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>	<i>Pounds</i>	<i>Value</i>
CATCH								
Fish:								
Salmon	310,534,213	\$7,603,073	157,544,170	\$3,389,274	74,945,994	\$1,616,321	543,024,377	\$12,608,668
Other	38,147,441	1,738,484	151,625,440	542,811	483,789	1,053	190,256,670	2,282,348
Shellfish	1,901,255	85,351	1,086,363	59,902			2,987,618	148,253
Total	350,582,909	9,429,908	310,255,973	3,991,987	75,429,783	1,617,374	736,268,665	15,039,269
PRODUCTS AS PREPARED FOR MARKET								
Salmon	227,610,148	33,541,972	94,360,766	16,462,478	34,052,404	8,733,913	356,023,318	58,738,363
Herring	8,117,788	129,682	45,496,700	2,345,073	373,325	17,835	53,987,813	2,490,590
Halibut	15,047,829	1,574,027	644,530	53,795			16,292,359	1,627,822
Cod	5,975	896	93,691	6,950			99,666	7,846
Trout	2,822	311					2,822	311
Sablefish	3,084,332	162,257					3,084,332	162,257
Flounders	94,200	10,128					94,200	10,128
Rockfishes	296,815	13,051					296,815	13,051
Lingcod	166,228	8,846					166,228	8,846
Grayfish	72,346	17,172					72,346	17,172
Clams	18,072	5,915	254,757	126,634			272,829	132,599
Crabs	68,600	22,008	220,200	81,916			288,800	103,924
Shrimp	443,278	164,097					443,278	164,097
Oysters	714	289					714	289
Total	255,629,147	35,650,651	141,070,644	19,074,896	34,425,729	8,751,748	431,125,520	63,477,295

Fisheries of Alaska, 1941—Continued

OPERATING UNITS: BY DISTRICTS

Item	South-east Alaska	Central Alaska	West-ern Alaska	Total	Item (Cont'd)	South-east Alaska	Central Alaska	West-ern Alaska	Total
	Number	Number	Number			Number	Number	Number	
Fishermen	4,565	3,073	2,799	10,437	Apparatus (cont'd)				
Vessels fishing:					Beam trawls	14			14
Motor	837	141		987	Wheels			263	263
Net tonnage	9,512	3,258		12,770	Lines:				
Boats fishing:					Hand lines				
Motor	716	703	27	1,446	(cod fishery)		15		15
Other	1,104	733	1,052	2,889	Trawl lines				
Apparatus:					(cod fishery)		3		3
Traps	249	132		381	Troll lines				
Purse seines	469	300		769	(salmon fishery)	3,607			3,607
Yards	167,870	73,266		241,136	Skates of lines				
Haul seines	11	105		116	(halibut fishery)	4,977	220		5,197
Yards	1,630	18,476		20,106	Crab pots	297	1,155		1,452
Gill nets	354	1,637	2,157	4,148	Herring pounds	7			7
Yards	35,890	221,070	308,284	565,244	Herring pound				
					seines	4			4

CATCH: BY DISTRICTS

(Estimated round weight and value to fishermen)

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Salmon:								
Blueback, red, or sockeye	11,720,884	\$351,627	37,820,734	\$1,134,622	58,071,930	\$1,277,582	107,613,548	\$2,763,831
Chinook or king	12,257,000	552,553	2,786,860	71,065	7,480,880	246,869	22,524,740	870,487
Chum or keta	23,675,856	384,732	24,684,688	458,430	8,652,720	77,875	57,013,264	921,037
Humpback or pink	240,244,852	5,765,876	80,892,904	1,415,625	12,712	95	321,150,468	7,181,596
Silver or coho	22,635,621	548,285	11,358,984	309,532	727,752	13,900	34,722,357	871,717
Herring	12,459,038	45,956	150,523,816	487,697	433,789	1,053	163,466,643	534,706
Halibut	20,342,177	1,574,027	837,889	53,795			21,180,066	1,627,822
Cod	19,920	100	263,735	1,319			283,655	1,419
Trout, Dolly Varden	3,386	155					3,386	155
Sablefish	4,071,318	81,128					4,071,318	81,128
Flounders	152,500	4,575					152,500	4,575
Rockfishes	400,700	6,525					400,700	6,525
Lingcod	216,096	8,846					216,096	8,846
Grayfish	482,306	17,172					482,306	17,172
Total	348,681,654	9,341,557	309,169,610	3,932,085	75,429,783	1,617,374	733,281,047	14,891,016
SHELLFISH								
Crabs:								
Dungeness	204,120	4,082	542,283	12,395			746,403	16,477
King	17,472	350	32,760	636			50,232	986
Shrimp	1,641,770	82,088					1,641,770	82,088
Clams:								
Butter	37,175	1,687					37,175	1,687
Razor			511,320	46,871			511,320	46,871
Oysters	718	144					718	144
Total	1,901,255	88,351	1,086,363	59,902			2,987,618	143,253
Grand total ..	350,582,909	9,429,908	310,255,973	3,991,987	75,429,783	1,617,374	736,268,665	15,039,269

Industries related to the fisheries of Alaska, 1941
TRANSPORTING, WHOLESALE, AND MANUFACTURING

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
	Number	Number	Number	Number
Transporting:				
Persons engaged	842	640	318	1,800
Vessels transporting:				
Motor	192	132	65	389
Net tonnage	5,823	4,745	2,085	12,653
Scows, houseboats, pile drivers, etc.	242	264	122	628

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
	Number	Number	Number	Number
Wholesale and manufacturing:				
Persons engaged	7,541	3,939	3,307	14,787
Establishments:				
Handling fresh and frozen fish	56	15		71
Curing fish	16	36	28	79
Canning fish	52	51	20	123
Manufacturing by products	3	10		13
Total (exclusive of duplication)	96	102	39	237

PRODUCTS AS PREPARED FOR MARKET

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FRESH								
Salmon (for food)	4,299,747	\$333,118					4,299,747	\$333,118
Salmon (for bait)	84,175	1,015					84,175	1,015
Salmon (for meek and fox feed)	443,000	4,100	25,529	\$264			468,529	4,364
Herring (for bait)	326,600	4,082					326,600	4,082
Halibut	4,959,715	451,863	2,285	229			4,962,000	452,092
Halibut livers	135,325	46,760	9,939	2,982			145,264	49,742
Halibut viscera	134,463	14,694					134,463	14,694
Trout	2,217	244					2,217	244
Sablefish	389,268	27,266					389,268	27,266
Sablefish livers	69,149	23,840					69,149	23,840
Sablefish viscera	51,220	5,607					51,220	5,607
Rockfishes	1,821	77					1,821	77
Rockfish livers	1,096	311					1,096	311
Lingcod livers	383	212					383	212
Grayfish livers	72,346	17,172					72,346	17,172
Crabs:								
Meat	4,325	1,068	594	252			4,919	1,320
Whole in shell	5,952	217	10,518	1,121			16,770	1,338
Shrimp meat	438,378	161,867					438,378	161,867
Oysters	714	289					714	289
Total	11,419,894	1,093,802	49,165	4,848			11,469,059	1,099,650
FROZEN								
Salmon (for food):								
Sharp frozen	5,536,028	549,282	57,709	7,517			5,593,737	556,799
Quick frozen filets and steaks	205,020	41,004					205,020	41,004
Salmon (for animal feed)	128,651	1,285	5,112	89			133,763	1,374
Herring (for bait)	6,077,439	42,902					6,077,438	42,902
Halibut:								
Sharp frozen	9,744,302	921,970	632,306	50,584			10,376,608	972,554
Quick frozen filets and steaks	645,512	128,012					645,512	128,012
Livers	28,512	10,728					28,512	10,728
Cod, quick frozen filets and steaks	5,975	896					5,975	896
Trout	605	67					605	67
Sablefish:								
Sharp frozen	2,536,209	101,448					2,536,209	101,448
Quick frozen filets	27,545	3,856					27,545	3,856
Rockfishes:								
Sharp frozen	252,371	6,260					252,371	6,260
Quick frozen filets and steaks	41,527	6,403					41,527	6,403
Lingcod, sharp frozen	165,845	8,634					165,845	8,634
Flounders:								
Quick frozen filets	44,200	7,628					44,200	7,628
Sharp frozen (for animal feed)	50,000	2,500					50,000	2,500
Shrimp	3,430	1,254					3,430	1,254
Crab meat in bulk	75	35					75	35
Total	25,793,245	1,834,164	695,127	58,190			26,488,372	1,892,354

Industries related to the fisheries of Alaska, 1941—Continued

PRODUCTS AS PREPARED FOR MARKET—Continued

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Salmon: CURED								
Mild-cured	7,921,598	\$1,381,404			183,200	\$24,412	8,104,798	\$1,405,816
Pickled (for food)	8,200	958	181,700	\$24,551	99,300	13,717	289,200	39,226
Pickled (for fox feed)			10,900	130			10,900	130
Dry-salted			24,632	2,441	104,000	4,915	128,632	7,356
Dried (for animal feed)			23,952	306			23,952	306
Dried					1,086,000	44,040	1,086,000	44,040
Herring:								
Pickled (for food), Scotch cure			1,788,187	104,874	167,725	10,125	1,955,912	114,999
Roused for food (bloater stock)			11,000	352	205,600	7,710	216,600	8,062
Dry-salted			155,125	4,675			155,125	4,675
Salted (for bait)			18,750	262			18,750	262
Cod:								
Pickled			11,075	583			1,075	583
Dry-salted			70,777	5,375			70,777	5,375
Stockfish			11,839	992			11,839	992
Sablefish, pickled	10,941	240					10,941	240
Total	7,940,739	1,382,602	2,307,937	144,541	1,845,825	104,919	12,094,501	1,632,062

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
CANNED								
Salmon:								
Blueback, red, or sockeye	6,617,232	\$1,877,395	19,854,192	\$5,400,258	29,442,720	\$8,153,989	55,914,144	\$15,431,642
Chinook or king	86,592	21,079	1,659,216	312,292	286,272	78,004	2,032,080	511,375
Chum or keta	15,357,024	2,127,474	16,045,104	2,220,411	2,680,992	379,785	34,083,120	4,727,670
Humpback or pink	174,756,528	25,226,173	48,668,064	6,873,672	4,992	691	223,429,584	32,100,536
Silver or coho	9,310,608	1,892,071	7,803,456	1,519,947	164,928	34,360	17,278,992	3,446,378
Misc. fish (smoked salmon)			1,200	600			1,200	600
Crabs	58,248	20,688	208,788	80,543			267,036	101,231
Shrimp	1,470	976					1,470	976
Clams	18,072	5,915	254,757	126,684			272,829	132,599
Total	206,205,774	31,171,771	94,494,777	16,634,407	32,579,904	8,646,829	333,280,455	50,453,007
BYPRODUCTS								
Meal:								
Salmon	2,000,000	50,000					2,000,000	50,000
Herring	1,110,000	39,183	22,418,991	778,658			23,528,991	817,841
Oil:								
Salmon	555,745	35,614					555,745	35,614
Herring	603,750	43,515	21,104,647	1,454,252			21,708,397	1,497,767
Total	4,269,495	168,312	43,523,638	2,232,910			47,793,133	2,401,222
Grand total	255,629,147	35,650,651	141,070,644	19,074,896	34,425,729	8,751,748	431,125,520	63,477,295

NOTE.—The output of fresh and frozen halibut includes all fares of the Alaska fleet, some of which were landed at other than Alaska ports. The amount of livers and viscera landed by the Alaska fleet has not been reported, and the quantity shown herein is the estimated amount landed in Alaska. The total landings in Alaska of halibut, exclusive of livers and viscera, in 1941 amounted to 8,998,580 pounds valued at \$788,688.

SUPPLEMENTARY STATEMENT OF CANNED PRODUCTS IN "STANDARD CASES"¹

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Salmon:								
Blueback, red, or sockeye	137,859	\$1,877,395	413,629	\$5,400,258	613,390	\$8,153,989	1,164,878	\$15,431,642
Chinook or king	1,804	21,079	34,567	412,292	5,964	78,004	42,335	511,375
Chum or keta	319,938	2,127,474	334,273	2,220,411	55,854	379,785	710,065	4,727,670
Humpback or pink	3,640,761	25,226,173	1,013,918	6,873,672	104	691	4,654,783	32,100,536
Silver or coho	193,971	1,892,071	162,572	1,519,947	3,436	34,360	359,979	3,446,378
Total	4,294,333	31,144,192	1,958,959	16,426,550	678,748	8,646,829	6,932,040	56,217,601
Misc. fish (smoked salmon)			25	600			25	600
Shellfish:								
Crabs	1,213	20,688	4,350	80,543			5,563	101,231
Shrimp	98	976					98	976
Clams	1,205	5,915	16,984	126,684			18,189	132,599
Total	2,516	27,579	21,334	207,227			23,850	234,806
Grand total	4,296,849	31,171,771	1,980,318	17,634,407	678,748	8,646,829	6,955,915	56,453,007

¹ The pack of salmon and miscellaneous fish has been converted to "standard cases" of 48 1-pound cans; clams and shrimp to "standard cases" of 48 No. 1 cans; and crabs to the equivalent of 48 16-ounce cans to the case, each can containing 13 ounces of meat.

SUPPLEMENTARY STATEMENT OF BYPRODUCTS IN TONS AND GALLONS

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Meal:								
Salmon . . . tons . . .	1,000	\$50,000					1,000	\$50,000
Herring . . . do . . .	555	39,183	11,209	\$778,658			11,764	817,841
Oil:								
Salmon . . . gallons . . .	74,099	35,614					74,099	35,614
Herring . . . do . . .	80,500	43,515	2,813,953	1,454,252			2,894,453	1,497,767
Total		168,312		2,232,910				2,401,222

SUPPLEMENTARY STATEMENT OF NUMBER OF SALMON CAUGHT

Species	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Number	Value	Number	Value	Number	Value	Number	Value
Blueback, red, or sockeye	1,674,412	\$351,627	5,402,962	\$1,134,622	8,295,990	\$1,277,582	15,373,364	\$2,763,831
Chinook or king	612,850	552,553	139,343	71,075	374,044	246,869	1,126,237	870,487
Chum or keta	2,959,482	384,732	3,526,384	458,430	1,081,590	77,875	7,567,456	921,037
Humpback or pink	60,061,213	5,765,876	20,223,226	1,415,625	3,178	95	80,287,617	7,181,596
Silver or coho	2,515,069	548,285	1,419,873	309,532	90,969	13,900	4,025,911	871,717
Total	67,823,026	7,603,073	30,711,788	3,389,274	9,845,771	1,616,321	108,380,585	12,608,668

NOTE.—The salmon catch is reported in numbers of fish; estimated round weights in pounds are shown in the catch table.

WHALING

In the 1941 whaling season only one United States firm, the San Francisco Sea Products Company which operated a shore station at Fields Landing, Calif., engaged in the whale fishery. Using 2 killer boats, the *S. S. Gleaner* and the *M. S. Hawk II*, 24 whales were taken. The catch consisted of 1 sperm whale, 7 finback, and 16 humpback whales. In 1940, operating 1 killer boat, the company took 29 whales, the catch was composed of 4 sperm, 6 finback, and 19 humpback whales.

In connection with the whaling operations, the San Francisco Sea Products Company employed a total of 42 men during 1941; 18 on the killer boats and 24 at the shore station.

Whale products handled by this firm during 1941 consisted of 1,338 gallons of sperm oil, valued at \$724; 32,720 gallons of whale oil, valued at \$15,183; 18,000 pounds of meat meal, valued at \$283 and other whale products, 213,100 pounds, valued at \$3,323. The latter item consisted of 142,000 pounds of meat valued at \$2,224; 65,100 pounds of bone valued at \$674; and 6,000 pounds of liver, valued at \$425. In the previous year, whale products valued at \$29,411 were produced at this plant.

STATISTICAL SURVEY PROCEDURE

It was customary to include in the annual report of the Division of Fishery Industries, Bureau of Fisheries, information in considerable detail on the procedure used in the collection of fishery statistics. Owing to the necessity for curtailing the cost of these publications since 1938, it has been necessary to eliminate most of this information. Consequently, for information on procedure,

the reader is referred to Administrative Report No. 37, entitled "Fishery Industries of the United States, 1938," by R. H. Fiedler, published as Appendix III to the report of the Commissioner of Fisheries for the fiscal year 1939. It is deemed necessary, however, to include in this report the conversion factors used for computing the yield of certain commodities. These appear in the following tables.

Measures and yields of oysters¹

State	Capacity of State bushel	Variation from U. S. standard bushel		Market oysters		
				Yield per State bushel	Yield per standard bushel	
				Pounds of meats	Pounds of meats	
	Cubic Inches	Cubic Inches	Per cent			
Massachusetts	2,150.4				6.50	6.50
Rhode Island	2,150.4				7.00	7.00
Connecticut	2,150.4				7.70	7.70
New York	2,150.4				7.50	7.50
New Jersey	2,257.3	+106.9	+5.0		6.98	6.65
Delaware	2,257.3	+106.9	+5.0		7.01	6.68
Maryland	2,801.5	+651.1	+30.3		6.05	4.64
Virginia	3,003.4	+853.0	+39.7		6.20	4.44
North Carolina	2,801.9	+651.5	+30.3		4.41	3.38
South Carolina	4,071.5	+1,921.1	+89.3		5.79	3.06
Georgia	5,343.9	+3,193.5	+148.5		7.48	3.01
Florida	3,214.1	+1,063.7	+49.4		4.41	2.95
Alabama	2,826.2	+675.8	+31.4		5.45	4.14
Mississippi	2,826.2	+675.8	+31.4		4.97	3.78
Louisiana	2,148.4	- 2.0	-0.1		4.75	4.75
Texas	2,700.0	+549.6	+25.6		4.50	3.58

¹ Data on yield for Maryland and Virginia are for 1941. All other data are for 1940.

Average yields of certain mollusks (other than oysters) in pounds of meats per standard bushel¹

State	Clams, hard	Clams, soft	Clams, surf	Clams, razor	Mussels, sea	Peri-wrinkles and cockles	Scallops, bay	Scallops, sea	Conchs
Maine	11.00	15.00				18.00		6.00	18.00
New Hampshire		15.00							
Massachusetts	11.23	14.32		31.89	12.00	18.00	6.00	6.00	16.71
Rhode Island	12.43	20.00			13.00	18.00	6.00	6.00	20.00
Connecticut	12.00	20.00			13.00	20.00	6.2		
New York	8.00	16.00	12.00	30.00	10.00		5.00	6.00	20.00
New Jersey	8.70	19.05	12.54					5.71	18.70
Delaware	8.18				12.38				
Maryland	6.11								12.00
Virginia	5.73				10.00				12.00
North Carolina	6.14						5.94		
South Carolina	4.23								
Florida	5.35						3.3		13.39

¹ Data on yield for Maryland and Virginia are for 1941. All other data are for 1940.

Other conversion factors.—The principal other conversion factors used in this publication are as follows:

Crabs, soft and peelers:—To convert number of crabs to weight in pounds in Rhode Island, New York, New Jersey, Delaware, Maryland, Virginia, South Carolina, and Florida, divide by 4; in North Carolina, divide by 5; in Mississippi, divide by 3; and in Louisiana, divide by 2.89.

Crabs, hard:—To convert number of crabs to weight in pounds in Rhode Island, New York, New Jersey, Delaware, Maryland, and Virginia, divide by 3; in Massachusetts, divide by 4; in North Carolina, South Carolina, and Georgia, divide by 2; in Connecticut, divide by 2.79; in Florida, divide by 2.01; in Alabama, divide by 2.4; in Mississippi, divide by 2.09; in Louisiana, divide by 2.07; and in Texas, divide by 2.11.

Crabs, rock:—In all States divide by 2.79. Crabs, stone: In all States, divide by 1.04. Crabs, king: In all States, multiply by 4.

Sponges, dried:—In Florida, convert number of bunches to weight in pounds as follows: Large wool, multiply by 8; medium and small wool, multiply by 4.13; and grass, wire, and yellow, multiply by 2.

COMMON AND SCIENTIFIC NAMES OF FISHERY PRODUCTS

In order to prevent misunderstanding in the use of common names employed in the tables and discussions, the following list of common and scientific names is given:

Common and scientific names of the commercial fishery products caught in the United States and Alaska

Common names as shown in Service reports	Other common names	Scientific names
Alewife.....	{Branch herring, wall-eyed or big-eyed herring. Blueback, glut herring.....	<i>Pomolobus pseudoharengus</i> .
Amberjack.....		<i>Pomolobus aestivalis</i> . <i>Seriola</i> species. <i>Engraulis mordax</i> .
Anchovy.....		<i>Anchoviella delicatissima</i> . <i>Anchoviella compressa</i> . <i>Pomacanthus arcuatus</i> .
Angelfish.....		<i>Holacanthus isabelita</i> . <i>Sphyraena argentea</i> .
Barracuda.....		<i>Micropterus dolomieu</i> . <i>Micropterus salmoides</i> .
Black bass.....	Smallmouth bass.....	<i>Pomatomus saltatrix</i> .
Bluefish.....	Largemouth bass.....	<i>Stizostedion ritreum glaucum</i> .
Blue pike.....	Tailor, skipjack.....	<i>Caranx crysos</i> .
Blue runner or hardtail.....	Pike perch, blue pickerel (Canada).....	<i>Sarda sarda</i> .
Bonito.....	Runner.....	<i>Sarda chiliensis</i> .
Bowfin.....	Fresh-water dogfish.....	<i>Amia calva</i> .
Buffalofish.....		<i>Ictiobus</i> species.
Burbot.....	Lawyer, ling.....	<i>Lota maculosa</i> .
Butterfish.....		<i>Poronotus triacanthus</i> .
Cabio.....	Coalfish, crab eater, cobia.....	<i>Rachycentron canadus</i> .
Cabrilla.....	Rock bass.....	<i>Epinephelus analogus</i> (Pacific coast).
Carp.....	German carp.....	<i>Cyprinus carpio</i> . <i>Ameiurus</i> species. <i>Ictalurus</i> species.
Catfish and bullheads.....		<i>Leptops olivaris</i> . <i>Scomberomorus regalis</i> .
Cero.....	Painted mackerel, kingfish.....	All <i>Leucichthys</i> except <i>artedi</i> (in Great Lakes).
Chub.....	Tullibee in Canada; longjaw, bluefin, blackfin in United States.....	<i>Decapterus punctatus</i> . <i>Leucichthys artedi</i> (Lake Erie only).
Cigarfish.....	Scad.....	<i>Gadus macrocephalus</i> (Pacific coast). <i>Gadus callarias</i> (Atlantic coast).
Cisco.....	Herring in Canada.....	<i>Pomoxis annularis</i> . <i>Pomoxis sparoides</i> .
Cod.....	Codfish.....	<i>Caranx hippos</i> . <i>Micropogon undulatus</i> . <i>Tautoglabrus adspersus</i> .
Crappie.....	White crappie.....	<i>Brosme brosme</i> . <i>Salvelinus malma</i> .
Crevalle.....	Black crappie, strawberry bass, calico bass.....	<i>Coryphaena hippurus</i> .
Croaker.....	Jack.....	<i>Pogonias cromis</i> .
Cunner.....	Crocus, hardhead.....	<i>Sciaenops ocellatus</i> .
Cusk.....	Chogset, blue perch, bergall.....	<i>Anguilla rostrata</i> . <i>Leptocephalus conger</i> .
Dolly Varden trout.....	Salmon trout, bull trout.....	<i>Glyptocephalus cynoglossus</i> . <i>Pseudopleuronectes dignabilis</i> . <i>Limanda ferruginea</i> . <i>Hippoglossoides platessoides</i> . <i>Pseudopleuronectes americanus</i> . <i>Paralichthys dentatus</i> . <i>Pleuronectidae</i> species (Pacific coast). <i>Paralichthys californicus</i> . <i>Pleuronectidae</i> species.
Dolphin.....		<i>Cypselurus californicus</i> . <i>Auzis thazard</i> . <i>Tylosurus</i> species.
Drum:		<i>Dorosoma cepedianum</i> . <i>Carassius auratus</i> . <i>Lophius piscatorius</i> . <i>Squalus sucklii</i> (Pacific coast). <i>Squalus acanthias</i> . <i>Mustelus mustelus</i> . <i>Epinephelus</i> species. <i>Myceteroperca</i> species.
Black.....	Oyster cracker.....	<i>Haemulon</i> species.
Red.....	Channel bass, redfish, spotted bass.....	<i>Melanogrammus aeglefinus</i> .
Eel:		
Common.....		
Conger.....		
Flounder:		
Gray sole.....		
Lemon sole.....		
Yellowtail and dab.....		
Blackback.....		
Fluke.....		
"Sole".....		
"California halibut".....		
Unclassified.....		
Flyingfish.....		
Frigate mackerel.....	"Boo Hoo".....	
Garfish.....		
Gizzard shad.....	Nanny shad, mud shad.....	
Goldfish.....	Sand perch.....	
Goosefish.....	Allmouth, anglerfish.....	
(Dogfish).....		
Spiny dog.....		
Smooth dog.....		
Grayfish.....		
Grouper.....	"Sea bass".....	
Grunt.....	Margatefish, sailors choice (Key West).....	
Haddock.....		

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common names as shown in Service reports	Other common names	Scientific names
Hake	{ Squirrel hake, Boston hake, ling, black hake, mud hake. (Merluccio.)	<i>Urophycis</i> species (Atlantic coast). <i>Merluccius productus</i> (Pacific coast). <i>Hippoglossus hippoglossus</i> . <i>Arthodon microlepidotus</i> (Pacific coast).
Halibut		<i>Peprilus alepidotus</i> .
Hardhead		
Harvestfish	Starfish, dollarfish, pappyfish, butterfish (N. C.)	
Herring:		
Lake	Herring	<i>Leucichthys arledi</i> (Great Lakes, except Erie). <i>Etrumeus sadina</i> .
Round		<i>Clupea harengus</i> (Atlantic coast). <i>Clupea pallasii</i> (Pacific coast).
Sea		<i>Argentina silus</i> . <i>Pomolobus mediocris</i> . <i>Archirus fasciatus</i> . <i>Lachnolaimus macimus</i> (Florida).
Herring smelt	Sea smelt	<i>Trachurus symmetricus</i> .
Hickory shad	Tailor shad, skip	<i>Promicrops itaiara</i> . <i>Zenopsis ocellata</i> .
Hogchoker		<i>Scomberomorus cavalla</i> (Atlantic coast). <i>Scomberomorus regalis</i> (Atlantic coast). <i>Genyonemus lineatus</i> (California).
Hogfish	Capitaine, perro perro	<i>Menticirrhus</i> species <i>Cristivomer namaycush</i> . <i>Petromyzon marinus</i> .
Horse mackerel	{ Pacific (Atlantic—(See tuna.)	<i>Ammodytes americanus</i> . <i>Ophiodon elongatus</i> .
Jewfish		<i>Scomber scomorus</i> (Atlantic coast) <i>Scomber diego</i> (Pacific coast).
John Dory		<i>Brevoortia tyrannus</i> . <i>Cyprinidae</i> species. <i>Gerridae</i> species. <i>Hiodon</i> species. <i>Vomer setipinnis</i> . <i>Selene vomer</i> . <i>Mugil</i> species.
Kingfish	{ King mackerel, cero { Little roncador, croaker	<i>Fundulus</i> species. <i>Lutianus analis</i> . <i>Polyodon spathula</i> .
King whiting	Northern whiting, kingfish, sea mink	
Lake trout		
Lamprey		
Launce	Sand eel, lant, sand launce	
Lingcod	Cultus cod, blue cod, buffalo cod, ling	
Mackerel		
Menhaden	Mossbunker, pogy, fatback	
Minnow		
Mojarra	Sand perch	
Mooneye	Toothed herring	
Moonfish		
Mullet	Jumping mullet	
Mummichog	Mayfish, killifish	
Muttonfish	Mutton snapper	
Paddlefish	Spoonbill cat	
Perch (California)	See surffishes.	
Permit	See pompano.	
Pigfish	Hogfish (N.C.)	<i>Orthopristis chrysopterus</i> .
Pike or pickerel	Great Lakes pike	<i>Esox reticulatus</i> . <i>Esox lucius</i> .
Pilchard	Sardine	<i>Sardina caerulea</i> . <i>Lagodon rhomboides</i> . <i>Pollachius virens</i> .
Pinfish	Bream, salt-water bream	<i>Trachinotus goodii</i> . <i>Trachinotus</i> species (Atlantic coast). <i>Palometa similima</i> (Pacific coast).
Pollock		<i>Calamus</i> species. <i>Carpoides</i> species. <i>Hydrolagus colliiei</i> . <i>Notemigonon crysoleucas</i> .
Pompano	Permit, great pompano	<i>Ambloplites rupestris</i> (Mississippi River to Atlantic seaboard). <i>Paralabrax nebulifer</i> (Pacific coast). <i>Sebastes</i> species (Pacific coast). <i>Sebastes marinus</i> .
Porgy	Porgee	<i>Girella nigricans</i> (Pacific coast). <i>Medialuna californiensis</i> (Pacific coast). <i>Anoplopoma fimbria</i> .
Quillback	Spearfish or skimpfish	<i>Salmo salar</i> (Atlantic coast).
Ratfish		
Roach	Golden shiner	
Rock bass	{ Redeye, goggle-eye { Groupers	<i>Oncorhynchus nerka</i> . <i>Oncorhynchus tshawytscha</i> . <i>Oncorhynchus keta</i> . <i>Oncorhynchus gorbuscha</i> . <i>Oncorhynchus kisutch</i> .
Rockfish	Rock cod	
Rosefish		
Rudderfish	{ Blue bass, greenfish { Halfmoon	
Sablefish	Black cod	
Salmon:		
Atlantic		
Pacific:		
Blueback, red or sockeye		
Chinook or king	Tyee, spring	
Chum or keta	Dog salmon	
Humpback or pink silver or coho		
Steelhead	(See steelhead trout.)	
Sand perch		<i>Bairdiella chrysura</i> . <i>Stizostedion canadense</i> . <i>Cottidae</i> species. <i>Stenotomus</i> species.
Sauger	Sand pike	<i>Stereolepis gigas</i> (Pacific coast). <i>Centropristes striatus</i> (Atlantic coast). <i>Cynoscion nobilis</i> (Pacific coast).
Sculpin		
Scup	Paugy or porgy, fair maid	
Sea bass	{ Black jewfish or black sea bass { Black sea bass, blackfish { White sea bass	

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common names as shown in Service reports	Other common names	Scientific names
Sea catfish	Gafftopsail	<i>Bagre marina</i> .
Sea robin		<i>Prionotus</i> species.
Shad	American shad	<i>Alosa sapidissima</i> .
Shark		<i>Carcharodon</i> species; <i>Mustelus</i> species, <i>Carcharhinus</i> species; <i>Sphyrna</i> species.
Sheepshead		(<i>Archosargus probatocephalus</i> (Atlantic coast).
		<i>Archosargus unimaculatus</i> (Florida).
Sheepshead, California	Drum, fresh water	<i>Aplodinotus grunniens</i> (fresh water).
Silver perch	Redfish, fathead	<i>Pimelometopon pulcher</i> .
Silverside	Sand perch	<i>Bairdiella chrysaurea</i> .
Skate	Spearing	<i>Menidia</i> species
Skipper		<i>Raja</i> species.
Smelt	Billfish	<i>Scomberesox saurus</i> .
		<i>Osmerus mordax</i> (Atlantic coast and Great Lakes).
		<i>Argentinidae</i> species (Pacific coast).
	Eulachon	<i>Thaleichthys pacificus</i> .
Snapper:		
Lane	Schoolmaster	<i>Lutianus apodus</i> .
Mangrove	Gray snapper	<i>Lutianus griseus</i> .
Red		<i>Lutianus blackfordii</i> .
Snook	Robalo, sergeantfish	<i>Centropomus undecimalis</i> .
Spadefish	Porgy (N.C.)	<i>Chaetodipterus faber</i> .
Spanish mackerel		<i>Scomberomorus maculatus</i> .
Spittail		<i>Pogonichthys macrolepidotus</i> .
Spot	Lafayette, goody	<i>Leiostomus xanthurus</i> .
Squawfish	Sacramento pike	<i>Ptychocheilus grandis</i> .
Squeteague:		
Gray	Gray trout, weakfish, trout	<i>Cynoscion regalis</i> .
Spotted	Spotted weakfish, spotted trout	<i>Cynoscion nebulosus</i> .
White	Sand trout	<i>Cynoscion arenarius</i> .
Squirrel hake	(See hake.)	
Steelhead trout	Salmon trout	<i>Salmo gairdnerii</i> .
Striped bass	Rockfish, rock, jack	<i>Roccus saxatilis</i> .
Sturgeon		<i>Acipenser</i> species.
Sturgeon, shovelnose		<i>Scaphirhynchus platyrhynchus</i> .
Sucker	Fresh-water mullet	<i>Catostomidae</i> species.
Sunfish	Bream, perch	<i>Centrarchidae</i> species.
Surfsh	Perch	<i>Embiotocidae</i> species.
Swellfish	Puffer, swell toad, balloonfish, globefish	<i>Spheroides maculatus</i> .
Swordfish		<i>Xiphus gladius</i> .
Tautog	Blackfish, oysterfish	<i>Tautoga onitis</i> .
Tenpounder	Elops, big-eyed herring	<i>Elops saurus</i> .
Thimble-eyed mackerel		<i>Pneumatophorus colias</i> .
Tilefish		<i>Lopholatilus chamaeleonticeps</i> .
Tomcod		<i>Microgadus tomcod</i> (Atlantic coast).
Triggerfish		<i>Microgadus proximus</i> (Pacific coast).
Tripletail	Sunfish (N.C.)	<i>Balistes caprisicus</i> .
Tullibee	(See chub.)	<i>Lobotes surinamensis</i> .
Tuna and tunalike fishes:		
Albacore	Longfin tuna	<i>Germo alalunga</i> .
		<i>Thunnus saliens</i> .
		<i>Thunnus thynnus</i> .
	"Horse mackerel"	<i>Thunnus secundodorialis</i> .
Bonito		(<i>Sarda sarda</i> (Atlantic coast).
Skipjack	Striped tuna	<i>Sarda chiliensis</i> (Pacific coast).
Yellowfin		<i>Katsuwonus pelamis</i>
		<i>Neothunnus macropterus</i> .
	Greenland halibut	<i>Reinhardtius hippoglossoides</i> (off New England.)
Turbot		<i>Balistes carolinensis</i> (off Florida.)
	American turbot, triggerfish	<i>Acanthocybium solandri</i> .
Wahoo		<i>Roccus chrysops</i> .
White bass	White lake bass	
Whitebait	Small fry of several species.	
Whitefish:		
Common		(<i>Coregonus clupeiformis</i> (Great Lakes).
Menominee		<i>Caulolatilus princeps</i> (Pacific coast).
White perch		<i>Prosopium quadrilaterale</i> .
Whiting	Silver hake	<i>Morone americana</i> (Atlantic coast).
Wolfsh	Catfish (N. E.)	<i>Merluccius bilinearis</i> .
Yellow perch		<i>Anarhichas lupus</i> .
Yellow pike	Wail-eyed pike, pike perch, dore	<i>Perca flavescens</i> .
Yellowtail		<i>Stizostedion nitreum nitreum</i> .
		<i>Ocyurus chrysurus</i> (Atlantic coast)
		<i>Seriola dorsalis</i> (Pacific coast).

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common names as shown in Service reports	Other common names	Scientific names
Crab:		
Hard.....	Hard-shell crab, blue crab.....	<i>Callinectes sapidus</i> .
Soft and peelers.....	Dungeness crab.....	<i>Cancer magister</i> (Pacific coast).
King.....	Rock crab, hard crab.....	<i>Cancer irroratus</i> (Atlantic coast).
King or horseshoe.....	Soft-shelled crab, blue crab.....	<i>Callinectes sapidus</i> .
Stone.....		<i>Paralithodes camtschatica</i> (Pacific coast).
Crawfish:		<i>Limulus</i> (Atlantic coast).
Fresh-water.....	Crayfish.....	<i>Menippi mercenaria</i>
Sea.....	Rock lobster, crayfish.....	<i>Cambarus</i> species (Atlantic coast).
Lobster:		<i>Astacus</i> species (Pacific coast).
Common.....		<i>Panulirus argus</i> (Atlantic coast).
Spiny.....	(See sea crawfish.)	<i>Panulirus interruptus</i> (Pacific coast).
Shrimp.....		<i>Homarus americanus</i> (Atlantic coast)
Abalone.....		<i>Peneus setiferus</i> .
Clam:		<i>Peneus brasiliensis</i> (Atlantic and Gulf coasts).
Cockle.....	Butter.....	<i>Pandalus</i> species (Pacific coast).
Hard.....	Round clam, cherrystone, quahog, little neck.	<i>Pandalopsis</i> species (Pacific coast).
Pismo.....		<i>Crangon</i> species (Pacific coast).
Razor.....		<i>Halotis</i> species.
Soft.....	Soft-shell clam, sand clam, nannynose, maninose.	<i>Cardium corbis</i> (Pacific coast).
Surf.....	Skimmer.....	<i>Saxidomus nuttall</i> .
Limpet.....		<i>Tivela stultorum</i> (Pacific coast).
Conch.....		<i>Venus mercenaria</i> (Atlantic coast).
Coquina.....	Pompano shells.....	<i>Venus mortoni</i> (Florida coast).
Mussel:		<i>Tivela stultorum</i> (Pacific coast).
Sea.....		<i>Ensis</i> species (Atlantic coast).
Fresh-water.....		<i>Siliqua patula</i> (Pacific coast).
Octopus.....		<i>Mya arenaria</i> .
Oyster:		<i>Mactra solidissimo</i> .
Eastern.....		<i>Arcydia testudinialis</i> .
Pacific (introduced).....	Japanese.....	<i>Strombus</i> species.
Western.....	Olympia.....	<i>Busycon</i> species.
Periwinkle.....		<i>Donax variabilis</i> .
Scallop:		<i>Mytilus californianus</i> (Pacific coast).
Bay.....		<i>Mytilus edulis</i> .
Sea.....		<i>Quadrula</i> species.
Squid.....		<i>Lampsilis</i> species.
Sea urchin.....		<i>Unio</i> species.
Starfish.....		<i>Symphynota</i> species.
Terrapin.....	Diamond-back terrapin.....	<i>Octopus punctatus</i> (Pacific coast).
Turtle:		<i>Ostrea virginica</i> .
Green.....		<i>Ostrea gigas</i> .
Loggerhead.....		<i>Ostrea lurida</i> (Pacific coast).
Hawksbill.....		<i>Littorina</i> species.
Snapper.....	Hard-shell, alligator turtle.....	<i>Pecten irradians</i> (Atlantic coast).
Soft-shell.....		<i>Pecten aequisulcatus</i> (Pacific coast).
Frogs.....		<i>Pecten magellanicus</i> .
Irish moss.....		<i>Loligo opalescens</i> (Pacific coast).
Kelp.....		<i>Loligo pealei</i> (Atlantic coast).
Sponge:		<i>Echinotidae</i> class.
Glove.....		<i>Asteroidae</i> class.
Grass.....		<i>Malaclemmys</i> species.
Sheepswool.....		<i>Chelonia mydas</i> .
Yellow.....		<i>Thalassochelys caretta</i> .
Trepang.....	Sea cucumber.....	<i>Chelonia inbricata</i> .
		<i>Chelydra serpentina</i> .
		<i>Macrochelys lacertina</i> .
		<i>Trionyx</i> species.
		<i>Rana</i> species.
		<i>Chondrus crispus</i> .
		<i>Macrocystis</i> species; <i>Nereocystis</i> species;
		<i>Pelagophycus</i> species; <i>Alaria</i> species.
		<i>Spongia graminea</i> (Hyatt)
		<i>Euspongia officinalis</i> (L.).
		<i>Hippospongia equina cerebriformis</i> .
		<i>Hippospongia canaliculata gossypina</i> .
		<i>Hippospongia equina elastica</i> .
		<i>Cucumaris frondosia</i> ; <i>Thyone briareus</i> .