

# MAJOR COMMERCIAL FISHERIES

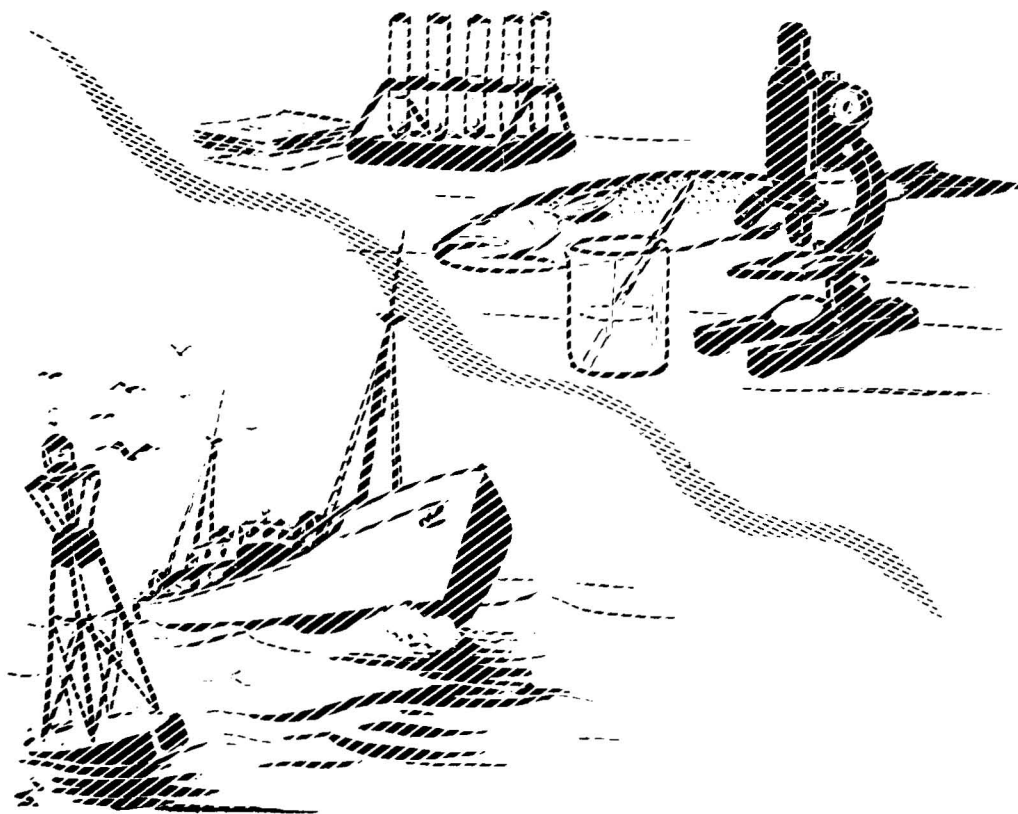
WITH DATA ON

## RESEARCH EXPENDITURES

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A SERIES OF STATISTICAL TABLES

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UNITED STATES DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE

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## RELATIVE VOLUME AND VALUE OF CATCH OF CERTAIN SPECIES, 1953

Volume		Species	Value	
Rank	Million Pounds		Rank	Million Dollars
1	1,696.1	Menhaden. . . . .	5	18.6
2	312.9	Salmon. . . . .	3	37.8
3	306.1	Tuna and tunalike fishes:	2	47.0
	2.2	Atlantic. . . . .		.2
	303.9	Pacific . . . . .		47.2
4	260.4	Shrimp:	1	76.6
	257.6	Atlantic. . . . .		76.3
	2.8	Pacific . . . . .		.3
5	154.4	Herring, sea:	19	2.5
	111.2	Atlantic. . . . .		1.8
	43.2	Pacific . . . . .		.7
6	153.9	Ocean perch, Atlantic <u>1/</u> . . . . .	12	6.0
7	144.1	Crabs:	11	10.2
	112.8	Atlantic. . . . .		5.9
	31.3	Pacific . . . . .		4.3
8	139.6	Haddock <u>1/</u> . . . . .	9	10.5
9	100.0	Flounders:	10	10.3
	63.5	Atlantic. . . . .		8.1
	36.5	Pacific . . . . .		2.2
10	89.6	Whiting . . . . .	23	1.8
11	86.0	Anchovies . . . . .	24	1.7
12	79.7	Oysters:	4	29.1
	69.3	Atlantic. . . . .		27.3
	10.4	Pacific . . . . .		1.8
13	55.8	Jack mackerel . . . . .	21	2.0
14	51.2	Alewives. . . . .	40	1.0
15	47.1	Halibut:	13	5.6
	.3	Atlantic. . . . .		.1
	46.8	Pacific . . . . .		5.7
16	43.9	Scup or porgy . . . . .	17	2.6
17	41.3	Cod: <u>1/</u>	18	2.6
	32.7	Atlantic. . . . .		2.2
	8.6	Pacific . . . . .		.4
18	37.6	Clams:	6	11.5
	35.3	Atlantic. . . . .		11.0
	2.3	Pacific . . . . .		.5
19	34.5	Mullet. . . . .	16	3.0
20	34.3	Carp. . . . .	22	1.9
21	28.4	Catfish and bullheads . . . . .	14	5.7
22	28.1	Lobsters, northern. . . . .	7	10.9
23	25.6	Buffalofish . . . . .	15	3.5
24	25.6	Rockfishes (Incl., Pacific ocean perch) . . . . .	37	1.1
25	23.9	Pollock <u>1/</u> . . . . .	43	.7
26	23.6	Scallops, sea . . . . .	8	10.5
27	23.1	Mussel shells . . . . .	59	.4
28	18.6	Herring, lake . . . . .	36	.9
29	14.5	Sea bass, black, Atlantic . . . . .	26	1.5
30	14.5	Squid . . . . .	54	.5
31	11.3	Chub. . . . .	25	1.7
32	10.8	Spot. . . . .	49	.6
33	10.3	Hake, white <u>1/</u> . . . . .	55	.5
34	9.5	Sardines, Pacific . . . . .	51	.5
35	9.2	Shad. . . . .	27	1.5
		Mackerel:		
		Atlantic. . . . .	35	1.0
		Pacific . . . . .	62	.3
38	8.5	Striped bass. . . . .	33	1.1
43	7.5			
52	5.1			

1/ If the catch of groundfish, considered in this tabulation to consist of cod, cusk, haddock, white hake, pollock, and Atlantic ocean perch were listed as a single item, the volume of the catch (372.1 million pounds) would rank second, while the value (20.4 million dollars) would rank fifth.

## CATCH OF CERTAIN IMPORTANT SPECIES, 1953

Rank	Species	Catch	Percentage of Total	Record Catch	Record Catch through 1953
		Thousand Pounds	Percent	Year	Thousand Pounds
1	Menhaden. . . . .	1,696,076	38.0	1953	1,696,076
2	Salmon. . . . .	312,934	7.0	1936	790,924
3	Tuna and tunalike fishes. . .	306,092	6.9	1950	392,273
4	Shrimp. . . . .	260,357	5.8	1953	260,357
5	Fresh-water fish 1/ . . . . .	180,624	4.0	(2)	(2)
6	Herring, sea. . . . .	154,432	3.5	1950	363,765
7	Ocean perch, Atlantic . . . . .	153,898	3.4	1951	258,320
8	Crabs . . . . .	144,147	3.2	1950	159,278
9	Haddock . . . . .	139,603	3.1	1930	267,123
10	Flounders . . . . .	99,952	2.2	1948	138,924
11	Whiting . . . . .	89,625	2.0	1951	120,076
12	Oysters . . . . .	79,719	1.8	1908 3/	152,046
13	Jack mackerel . . . . .	55,751	1.2	1952	146,522
14	Halibut . . . . .	45,730	1.0	1915	66,696
15	Scup or porgy . . . . .	43,945	1.0	1953	43,945
16	Clams . . . . .	37,581	.8	1951	43,385
17	Mullet. . . . .	34,473	.8	1902	43,137
18	Other . . . . .	633,021	14.3	-	-
	Total. . . . .	4,467,960	100.0	-	-

1/ Data on the catch of fresh-water fish in the Mississippi River and its tributaries are for 1950.

2/ Data not available.

3/ First year in which an oyster survey was made in all regions.

## CATCH OF FINFISH BY ATLANTIC COAST OTTER TRAWLERS, 1953

Species	Thousand pounds
*Groundfish. . . . .	340,738
Whiting . . . . .	86,093
Flounders . . . . .	61,216
Unclassified:	
For food. . . . .	91,264
Other than for food . . . . .	88,760
Total. . . . .	668,071

\*Includes Atlantic cod, cusk, haddock, white hake, pollock, and ocean perch.

## VALUE OF THE CATCH OF CERTAIN IMPORTANT SPECIES, 1953

Rank	Species	Value	Percentage of Total	Record Value	Record Value through 1953
		Thousand Dollars	Percent	Year	Thousand Dollars
1	Shrimp . . . . .	76,641	21.8	1953	76,641
2	Tuna and tunalike fishes . . . . .	47,173	13.4	1950	61,419
3	Salmon . . . . .	37,806	10.7	1951	52,509
4	Oysters . . . . .	29,054	8.2	1952	32,339
5	Fresh-water fish 1/ . . . . .	19,708	5.6	(2)	(2)
6	Menhaden . . . . .	18,578	5.3	1953	18,578
7	Clams . . . . .	11,467	3.3	1952	11,700
8	Lobsters, northern . . . . .	10,870	3.1	1953	10,870
9	Haddock . . . . .	10,528	3.0	1946	13,043
10	Scallops, sea . . . . .	10,476	3.0	1952	10,832
11	Flounders . . . . .	10,291	2.9	1951	13,253
12	Crabs . . . . .	10,200	2.9	1946	12,678
13	Ocean perch . . . . .	6,213	1.8	1951	12,597
14	Halibut . . . . .	5,733	1.6	1950	8,457
15	Herring . . . . .	3,422	1.0	1948	5,832
16	Mullet . . . . .	2,982	.8	1945	4,647
17	Scup or porgy . . . . .	2,614	.7	1951	2,994
18	Cod . . . . .	2,577	.7	1948	5,075
19	Other . . . . .	35,942	10.2	-	-
	Total . . . . .	352,275	100.0	-	-

1/ Data on the catch of fresh-water fish in the Mississippi River and its tributaries are for 1950.

2/ Data not available.

## VALUE OF THE CATCH OF FINFISH BY ATLANTIC COAST OTTER TRAWLERS, 1953

Species	Thousand dollars
*Groundfish . . . . .	18,813
Flounders . . . . .	7,708
Whiting . . . . .	1,723
Unclassified:	
For food . . . . .	5,885
Other than for food . . . . .	815
Total . . . . .	34,944

\*Includes Atlantic cod, cusk, haddock, white hake, pollock, and ocean perch.

## RANK OF STATES AND ALASKA IN VOLUME OF CATCH, 1953

Rank	State	Million Pounds	Percent of Total
1	California . . . . .	544	12.2
2	Massachusetts . . . . .	510	11.4
3	New Jersey . . . . .	459	10.3
4	Louisiana . . . . .	434	9.7
5	Delaware . . . . .	367	8.2
6	Alaska . . . . .	297	6.6
7	Virginia . . . . .	278	6.2
8	Maine . . . . .	244	5.5
9	Florida . . . . .	210	4.7
10	North Carolina . . . . .	193	4.3
11	Washington . . . . .	149	3.3
12	Texas . . . . .	142	3.2
13	New York . . . . .	138	3.1
14	Rhode Island . . . . .	92	2.1
15	Mississippi . . . . .	85	1.9
16	Maryland . . . . .	65	1.5
17	Oregon . . . . .	40	.9
18	Wisconsin . . . . .	30	.7
19	Michigan . . . . .	25	.6
20	Ohio . . . . .	23	.5
21	Tennessee . . . . .	20	.4
22	Alabama . . . . .	20	.4
23	Georgia . . . . .	18	.4
24	Minnesota . . . . .	18	.4
25	Connecticut . . . . .	17	.4
26	South Carolina . . . . .	14	.3
27	Arkansas . . . . .	13	.3
28	Illinois . . . . .	10	.2
29	South Dakota . . . . .	3	.1
30	Kentucky . . . . .	2	.04
31	Iowa . . . . .	2	.04
32	Pennsylvania . . . . .	2	.04
33	Oklahoma . . . . .	2	.04
34	New Hampshire . . . . .	1	.02
35	Missouri . . . . .	1	.02
36	Indiana . . . . .	(1)	-
Total		4,468	100.0

1/ Less than 500,000 pounds.

## RANK OF STATES AND ALASKA IN VALUE OF CATCH, 1953

Rank	State	Million Dollars	Percent of Total
1	California . . . . .	59.4	16.9
2	Massachusetts . . . . .	37.8	10.7
3	Florida . . . . .	31.8	9.0
4	Louisiana . . . . .	28.2	8.0
5	Texas . . . . .	27.2	7.7
6	Alaska . . . . .	26.5	7.5
7	Washington . . . . .	19.9	5.6
8	Maine . . . . .	16.8	4.8
9	Virginia . . . . .	16.0	4.5
10	New Jersey . . . . .	14.5	4.1
11	Maryland . . . . .	10.4	3.0
12	New York . . . . .	9.7	2.8
13	North Carolina . . . . .	8.3	2.4
14	Delaware . . . . .	6.2	1.8
15	Oregon . . . . .	4.8	1.4
16	Mississippi . . . . .	4.4	1.2
17	Rhode Island . . . . .	4.0	1.1
18	Alabama . . . . .	3.5	1.0
19	Michigan . . . . .	3.3	.9
20	Georgia . . . . .	3.2	.9
21	Ohio . . . . .	3.0	.9
22	Wisconsin . . . . .	2.6	.7
23	South Carolina . . . . .	2.3	.7
24	Minnesota . . . . .	1.8	.5
25	Arkansas . . . . .	1.6	.5
26	Tennessee . . . . .	1.4	.4
27	Connecticut . . . . .	1.3	.4
28	Illinois . . . . .	1.0	.3
29	Pennsylvania . . . . .	.4	.1
30	Kentucky . . . . .	.3	.1
31	New Hampshire . . . . .	.2	.05
32	Oklahoma . . . . .	.2	.05
33	Iowa . . . . .	.1	-
34	South Dakota . . . . .	.1	-
35	Missouri . . . . .	.1	-
36	Indiana . . . . .	(1)	-
	Total . . . . .	352.3	100.0

1/ Less than \$50,000.

## VOLUME OF THE UNITED STATES AND ALASKA CATCH, BY GEAR, 1953

Rank	Gear	Catch		Principal Species
		Million Pounds	Percent of Total	
1	Purse seines . . . . .	2,041	45.7	Menhaden, salmon, tuna, mackerel, herring
2	Otter trawls . . . . .	1,016	22.7	Groundfish, shrimp, flounders, whiting
3	Lines . . . . .	443	10.0	Tuna, crabs, salmon
4	Gill nets . . . . .	201	4.5	Salmon, mullet, fresh-water fish
5	Pound nets . . . . .	184	4.1	Salmon, menhaden, alewives
6	Traps and pots . . . . .	118	2.6	Crabs, lobsters
7	Dredges . . . . .	108	2.4	Oysters, crabs, scallops
8	Other . . . . .	357	8.0	-
	Total . . . . .	4,468	100.0	

## VALUE OF THE UNITED STATES AND ALASKA CATCH, BY GEAR, 1953

Rank	Gear	Catch		Principal Species
		Million Dollars	Percent of Total	
1	Otter trawls . . . . .	116	33.0	Shrimp, groundfish, flounders, whiting
2	Lines . . . . .	63	17.9	Tuna, salmon, crabs
3	Purse seines . . . . .	46	13.0	Menhaden, salmon, tuna
4	Dredges . . . . .	36	10.2	Oysters, scallops, crabs
5	Gill nets . . . . .	23	6.5	Salmon, fresh-water fish, mullet
6	Traps and pots . . . . .	19	5.4	Lobsters, crabs
7	Tongs . . . . .	11	3.1	Oysters
8	Pound nets . . . . .	9	2.6	Salmon, menhaden, alewives
9	Haul seines . . . . .	8	2.3	Salmon, mullet, spot
10	Other . . . . .	21	6.0	-
	Total . . . . .	352	100.0	



## NUMBER OF FISHERMEN, CATCH, AND CATCH PER FISHERMAN FOR THE MAJOR FISHERIES, 1953

Fishery	Fishermen		Catch		Fishery	Catch per Fisherman	
	Rank	Number	Rank	Thousand Pounds		Rank	Thousand Pounds
Fresh-water 1/ . . . . .	1	24,000	7	180,624	Menhaden. . . . .	1	403.8
Salmon. . . . .	2	21,000	5	312,934	Sardine, Pacific 2/ . . . . .	2	183.2
Clam. . . . .	3	16,957	12	37,581	North Atlantic trawl. . . . .	3	133.6
Shrimp. . . . .	4	15,000	6	260,357	Herring, Maine. . . . .	4	95.8
Oyster. . . . .	5	13,941	10	79,719	Tuna. . . . .	5	39.5
Crab. . . . .	6	7,873	8	144,147	Halibut . . . . .	6	21.3
Tuna. . . . .	7	7,750	4	306,092	Crab. . . . .	7	18.3
Lobster, northern . . . . .	8	7,400	14	28,115	Shrimp. . . . .	8	17.4
Scallop . . . . .	9	6,000	15	26,471	Salmon. . . . .	9	14.9
North Atlantic trawl. . . . .	10	5,000	3	668,071	Fresh-water 1/ . . . . .	10	7.5
Mullet. . . . .	11	4,631	13	34,473	Mullet. . . . .	11	7.4
Menhaden. . . . .	12	4,200	1	1,696,076	Oyster. . . . .	12	5.7
Sardine, Pacific 2/ . . . . .	13	3,900	2	714,522	Scallop . . . . .	13	4.4
Halibut . . . . .	14	2,200	11	46,765	Lobster, northern . . . . .	14	3.8
Herring, Maine. . . . .	15	1,050	9	100,587	Clam. . . . .	15	2.2

1/ Data are for 1950.

2/ The 1950 catch of Pacific sardines has been used in this table because the take during that year is more representative of an average year than the 1953 production.

## NUMBER OF FISHERMEN, VALUE OF CATCH, AND VALUE OF CATCH PER FISHERMAN FOR THE MAJOR FISHERIES, 1953

Fishery	Fishermen		Value of Catch		Fishery	Value of Catch per Fisherman	
	Rank	Number	Rank	Thousand Dollars		Rank	Thousand Dollars
Fresh-water 1/ . . . . .	1	24,000	6	19,708	North Atlantic trawl. . . . .	1	7.0
Salmon. . . . .	2	21,000	3	37,806	Tuna. . . . .	2	6.1
Clam. . . . .	3	16,957	10	11,467	Shrimp. . . . .	3	5.1
Shrimp. . . . .	4	15,000	1	76,641	Menhaden. . . . .	4	4.4
Oyster. . . . .	5	13,941	5	29,054	Sardine, Pacific 2/ . . . . .	5	3.1
Crab. . . . .	6	7,873	12	10,200	Halibut . . . . .	6	2.6
Tuna. . . . .	7	7,750	2	47,173	Oyster. . . . .	7	2.1
Lobster, northern . . . . .	8	7,400	11	10,870	Scallop . . . . .	8	2.0
Scallop . . . . .	9	6,000	9	11,886	Salmon. . . . .	9	1.8
North Atlantic trawl. . . . .	10	5,000	4	34,944	Herring, Maine. . . . .	10	1.5
Mullet. . . . .	11	4,631	14	2,982	Lobster, northern . . . . .	11	1.5
Menhaden. . . . .	12	4,200	7	18,578	Crab. . . . .	12	1.3
Sardine, Pacific 2/ . . . . .	13	3,900	8	12,140	Fresh-water 1/ . . . . .	13	0.8
Halibut . . . . .	14	2,200	13	5,733	Clam. . . . .	14	0.7
Herring, Maine. . . . .	15	1,050	15	1,621	Mullet. . . . .	15	0.6

1/ Data are for 1950.

2/ The 1950 catch of Pacific sardines has been used in this table because the take during that year is more representative of an average year than the 1953 production.

Note:--Some fishermen fished for two or more of the species shown in the tables above. Many of the fishermen operating in the fresh-water, clam, and various other fisheries were casual fishermen who derived less than one-half of their annual income from fishing. In some fisheries, fishermen were employed during the entire year in making the catch shown above, while in others the catch was made in a few weeks or months.

## RANK OF STATES AND ALASKA IN NUMBER OF FISHERMEN, 1953

Rank	State	Number of Fishermen
1	Alaska. . . . .	13,906
2	Washington. . . . .	12,717
3	California. . . . .	12,483
4	Massachusetts . . . . .	11,195
5	Louisiana . . . . .	<u>1/</u> 10,931
6	Florida . . . . .	10,654
7	Maine . . . . .	9,331
8	Virginia. . . . .	8,911
9	Maryland. . . . .	8,269
10	North Carolina. . . . .	7,513
11	New York. . . . .	<u>2/</u> 5,887
12	New Jersey. . . . .	5,878
13	Texas . . . . .	4,595
14	Mississippi . . . . .	4,240
15	Oregon. . . . .	3,733
16	Arkansas. . . . .	3,634
17	Rhode Island. . . . .	2,767
18	Connecticut . . . . .	2,620
19	Wisconsin . . . . .	2,513
20	Iowa. . . . .	2,316
21	South Carolina. . . . .	2,235
22	Michigan. . . . .	2,083
23	Alabama . . . . .	1,996
24	Tennessee . . . . .	1,813
25	Missouri. . . . .	1,207
26	Minnesota . . . . .	1,172
27	Kentucky. . . . .	1,145
28	Delaware. . . . .	1,050
29	Georgia . . . . .	1,046
30	Illinois. . . . .	898
31	Ohio. . . . .	749
32	New Hampshire . . . . .	479
33	Oklahoma. . . . .	202
34	Pennsylvania. . . . .	166
35	South Dakota. . . . .	93
36	Indiana . . . . .	34
	Total, Exclusive of Duplication. . . . .	152,907

1/ Includes 3,637 fishermen operating in the Mississippi River.

2/ Includes 226 fishermen operating in Lake Erie.

Note:--Employment data in the Great Lakes and Mississippi River States are for 1950. The number of fishermen shown in the above table includes both regular and casual fishermen. Casual fishermen are those who receive less than one-half of their annual income from fishing.

## RANK OF STATES AND ALASKA IN NUMBER OF FISHING CRAFT OPERATED, 1953

Rank	State	Vessels	Boats	Total Number of Fishing Craft
1	California. . . . .	2,960	7,279	10,239
2	Louisiana. . . . .	777	6,836	7,613
3	Alaska. . . . .	1,897	5,157	7,054
4	Maine. . . . .	210	6,329	6,539
5	Maryland. . . . .	180	5,461	5,641
6	Virginia. . . . .	393	5,126	5,519
7	Florida. . . . .	894	4,408	5,302
8	Washington. . . . .	1,420	3,290	4,710
9	Massachusetts. . . . .	638	3,467	4,105
10	Arkansas. . . . .	-	3,918	3,918
11	North Carolina. . . . .	474	2,989	3,463
12	New York. . . . .	266	2,445	2,711
13	New Jersey. . . . .	422	2,218	2,640
14	Mississippi. . . . .	404	2,068	2,472
15	Rhode Island. . . . .	138	2,105	2,243
16	Texas. . . . .	851	1,255	2,106
17	Tennessee. . . . .	-	2,044	2,044
18	Oregon. . . . .	428	1,312	1,740
19	Iowa. . . . .	-	1,739	1,739
20	Wisconsin. . . . .	194	1,458	1,652
21	Connecticut. . . . .	86	1,470	1,556
22	Alabama. . . . .	134	1,346	1,480
23	South Carolina. . . . .	265	1,022	1,287
24	Michigan. . . . .	287	846	1,133
25	Kentucky. . . . .	-	1,092	1,092
26	Missouri. . . . .	-	975	975
27	Illinois. . . . .	20	931	951
28	Minnesota. . . . .	3	836	839
29	Georgia. . . . .	204	499	703
30	Ohio. . . . .	103	312	415
31	Delaware. . . . .	54	295	349
32	New Hampshire. . . . .	-	219	219
33	Oklahoma. . . . .	-	170	170
34	Pennsylvania. . . . .	37	8	45
35	South Dakota. . . . .	-	36	36
36	Indiana. . . . .	4	17	21
	Total, Exclusive of Duplication. . .	10,621	76,060	86,681

Note:--Operating unit data in the Mississippi River States and the Great Lakes are for 1950. Vessels are craft of 5 net tons and over, while boats are craft of less than 5 net tons.

## RANK OF REGIONS IN NUMBER OF FISHERMEN, 1953

Region	Fishermen		Catch			
			Volume		Value	
	Rank	Number	Rank	Thousand Pounds	Rank	Thousand Dollars
Pacific. . . . .	1	27,283	4	734,018	2	84,187
New England. . . . .	2	25,434	2	864,005	3	60,112
Lakes and Mississippi River. . . . .	3	24,038	8	180,624	8	19,708
Gulf . . . . .	4	21,359	3	759,422	1	85,158
Chesapeake . . . . .	5	17,113	5	342,537	6	26,364
South Atlantic . . . . .	6	14,319	6	326,545	7	20,157
Alaska . . . . .	7	13,906	7	296,966	5	26,467
Middle Atlantic. . . . .	8	12,351	1	963,843	4	30,122
Total, Exclusive of Duplication. . . . .	-	152,907	-	4,467,960	-	352,275

Note:--Catch and employment data for the Mississippi River and employment data for the Great Lakes are for 1950.

## VALUE OF CERTAIN FISHERIES AT VARIOUS LEVELS, 1953

Fishery	Value to Fisherman		Value to Primary Wholesaler and Processor <u>1/</u>		Value to Retailer, Restaurants, Etc. <u>1/</u>	
	Rank	Thousand Dollars	Rank	Thousand Dollars	Rank	Thousand Dollars
Shrimp. . . . .	1	76,641	3	99,907	2	195,787
Tuna and tunalike fishes. . . . .	2	47,173	1	133,666	1	207,925
Salmon. . . . .	3	37,806	2	105,474	3	171,228
North Atlantic trawl. . . . .	4	34,944	5	51,805	4	134,771
Oyster. . . . .	5	29,054	4	52,598	5	85,462
Fresh-water . . . . .	6	19,708	8	29,808	6	69,349
Menhaden. . . . .	7	18,578	6	34,266	9	47,287
Scallop . . . . .	8	11,886	12	14,263	11	24,842
Clam. . . . .	9	11,467	9	22,098	10	35,375
Lobster, northern . . . . .	10	10,870	11	16,599	8	52,790
Crab. . . . .	11	10,200	7	30,143	7	55,215
Halibut . . . . .	12	5,733	14	7,689	13	20,337
Sardine, Pacific. . . . .	13	3,701	13	11,283	14	14,556
Mullet. . . . .	14	2,982	16	4,026	16	6,490
Mackerel, Pacific and jack. . . . .	15	2,323	15	6,509	15	8,982
Herring, Atlantic . . . . .	16	1,821	10	17,788	12	24,585
Total. . . . .	-	324,887	-	637,922	-	1,154,981
Other . . . . .	-	27,388	-	45,628	-	60,685
Grand Total. . . . .	-	352,275	-	683,550	-	1,215,666

1/ The values shown were calculated from available data.

CATCH OF MAJOR FISHERIES OF THE UNITED STATES AND ALASKA, 1921-1955

(IN THOUSANDS OF POUNDS)

YEAR	SALMON	MENHADEN	SARDINE, PACIFIC	TUNA, PACIFIC
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921.	1/317,510	691,132	59,332	21,240
1922.	1/462,574	812,342	92,114	35,950
1923.	1/512,258	743,895	159,197	38,695
1924.	1/514,710	344,284	242,686	28,327
1925.	1/496,155	532,118	315,295	53,911
1926.	1/596,421	382,781	286,741	42,654
1927.	432,358	392,763	342,275	69,218
1928.	597,962	362,213	420,270	62,050
1929.	584,494	442,443	651,802	72,193
1930.	526,057	409,513	494,451	99,347
1931.	601,024	236,432	300,204	56,658
1932.	528,624	375,479	312,172	60,251
1933.	574,040	357,726	509,805	68,325
1934.	711,744	517,403	1,135,959	94,222
1935.	533,454	434,386	1,168,213	117,070
1936.	*790,884	516,104	*1,502,299	125,254
1937.	689,045	529,202	1,139,505	154,841
1938.	653,942	517,530	1,110,401	136,426
1939.	526,976	574,825	1,240,975	171,297
1940.	500,562	634,589	913,944	204,882
1941.	629,480	775,087	1,328,378	123,739
1942.	508,597	482,644	974,680	116,587
1943.	506,408	615,554	997,001	125,852
1944.	443,007	685,980	1,147,295	166,320
1945.	498,884	759,074	849,971	180,873
1946.	478,256	916,013	530,994	214,509
1947.	498,045	948,156	272,236	253,941
1948.	403,749	1,007,889	373,159	316,003
1949.	484,204	1,072,630	633,540	330,239
1950.	328,644	1,000,498	714,522	*389,852
1951.	374,225	1,103,915	328,894	316,433
1952.	352,274	1,383,592	14,330	324,914
1953.	312,934	1,696,076	9,469	306,092
1954 5/	324,716	1,750,000	136,504	324,000
1955 5/	286,000	*1,800,000	143,000	264,000

YEAR	MACKEREL, PACIFIC AND JACK	SHRIMP	OCEAN PERCH, ATLANTIC	HADDOCK 4/	HERRING, ALASKA
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921.	2/2,975	(3)	-	90,630	37,772
1922.	2/2,496	(3)	-	99,294	82,327
1923.	2/3,592	(3)	-	104,652	85,723
1924.	2/3,241	(3)	-	114,000	100,567
1925.	2/3,522	(3)	-	128,934	181,991
1926.	2/3,623	(3)	-	135,318	178,331
1927.	5,208	(3)	-	191,976	127,537
1928.	35,802	(3)	-	247,836	152,756
1929.	58,684	(3)	-	*293,808	153,106
1930.	16,900	92,327	-	270,759	145,672
1931.	14,815	99,432	-	195,419	103,567
1932.	13,010	91,704	-	166,514	127,578
1933.	70,626	(3)	264	166,406	140,580
1934.	115,429	122,028	1,841	164,730	165,637
1935.	156,411	(3)	17,157	202,008	189,287
1936.	105,141	121,562	66,592	185,478	172,829
1937.	67,478	143,448	58,357	177,498	*206,446
1938.	83,982	143,101	65,005	175,788	179,735
1939.	84,669	150,250	78,206	178,524	185,462
1940.	121,937	152,663	85,270	155,952	94,158
1941.	80,236	(3)	145,387	-	163,467
1942.	57,902	(3)	128,107	145,687	43,833
1943.	87,961	(3)	114,744	125,693	90,549
1944.	96,434	(3)	120,216	140,566	113,278
1945.	62,750	191,345	131,834	154,988	139,769
1946.	68,968	(3)	178,152	155,035	198,231
1947.	*175,526	(3)	146,587	166,371	187,889
1948.	112,285	(3)	238,096	156,375	174,449
1949.	101,021	(3)	236,987	134,971	33,061
1950.	165,906	191,474	207,793	158,559	165,367
1951.	123,356	224,316	*258,320	154,103	81,625
1952.	167,127	227,221	189,042	161,497	45,802
1953.	63,253	*260,357	153,898	139,603	34,812
1954 5/	42,727	245,000	181,000	155,000	35,322
1955 5/	55,122	250,000	157,000	136,000	63,000

1/ PARTLY ESTIMATED. 2/ PACIFIC MACKEREL ONLY. 3/ NOT AVAILABLE. 4/ 1921 THROUGH 1940 FROM SPECIAL HADDOCK TABULATION PREPARED BY WILLIAM C. HERRINGTON. 5/ PRELIMINARY.

SOURCE:--COMPILED FROM RECORDS OF THE FISH AND WILDLIFE SERVICE, DEPARTMENT OF THE INTERIOR.

FEDERAL, STATE, AND INTERNATIONAL COMMISSION EXPENDITURES  
FOR RESEARCH AND SERVICES IN THE COMMERCIAL FISHERIES OF  
THE UNITED STATES, ALASKA, AND HAWAII

The table and graphs following were prepared to show the total effort directed to research and services for the major domestic commercial fisheries by the Federal, State, and Territorial Governments of the United States, and by the several international fisheries commissions to which the United States is a party. Wherever possible, the expenditures were broken down for the major species or fisheries listed. In some few instances, however, such a breakdown was not possible and the lump sum involved was placed in the "all other" category.

These data were prepared for use primarily by the American Fisheries Advisory Committee appointed by the Secretary of the Interior, under the terms of the Saltonstall-Kennedy Act, to advise him in the formulation of policy, rules, and regulations pertaining to requests for assistance under the Act. It is expected that this information will help to indicate where deficiencies exist and where additional effort might be directed.

The Saltonstall-Kennedy Act makes available a maximum of \$3,000,000 annually. Of this amount, \$189,000 was allotted in Fiscal Year 1956 for direct administrative costs, which accounts for the total funds shown for the Act as only \$2,811,000. Similarly, direct administrative costs are not included in any of the other activities or sources of funds shown except perhaps in the data supplied by the States and Territories, where the amounts involved may have been allocated to a particular species or fishery and not shown separately. The fiscal data for the States and Territories are for the latest calendar or fiscal year for which information is available, generally 1954, 1955, or 1956. All other data are for the Fiscal Year ending June 30, 1956. The catch and value data are for Calendar Year 1953.

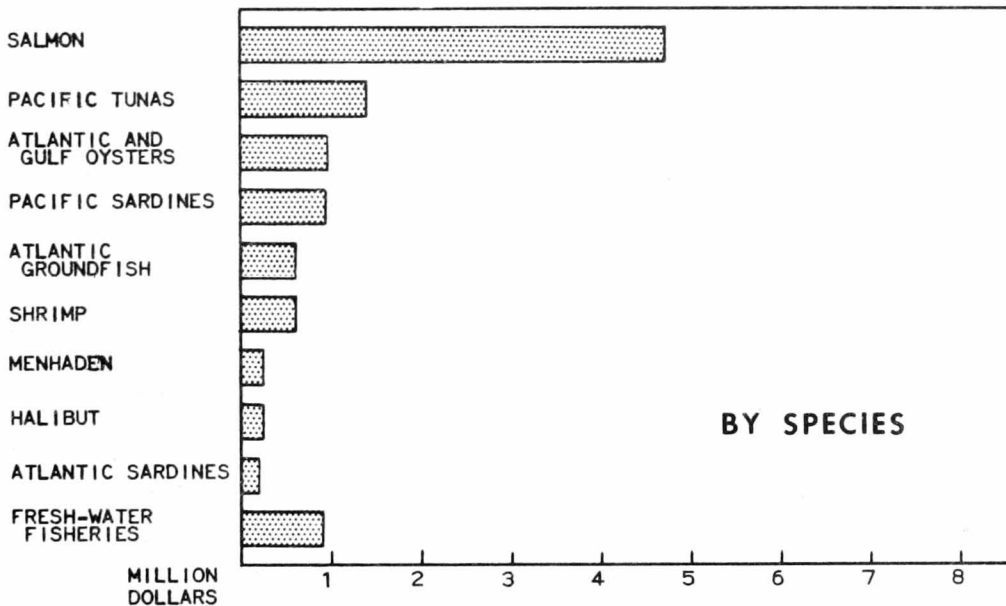
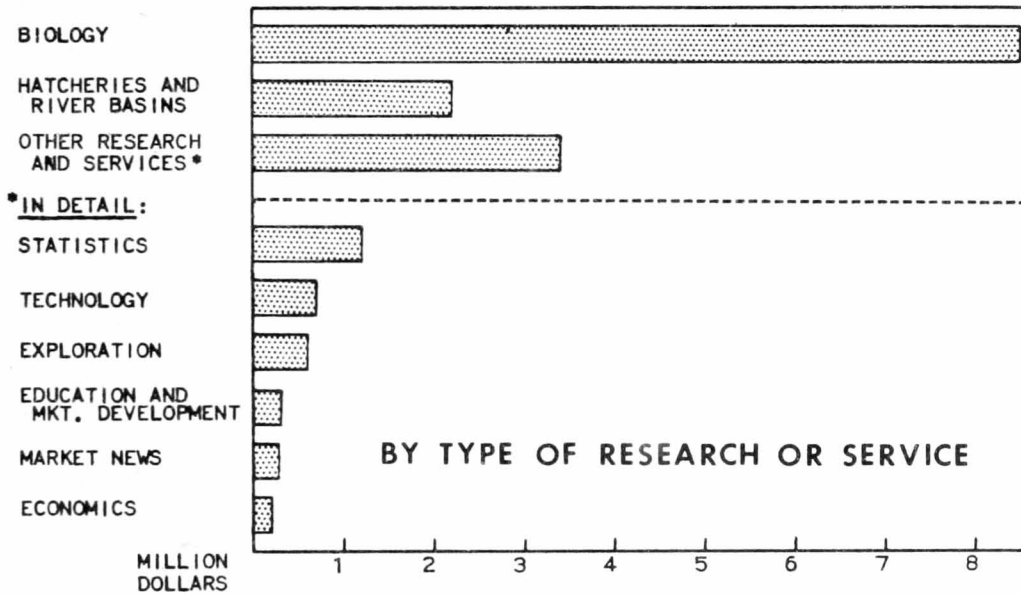
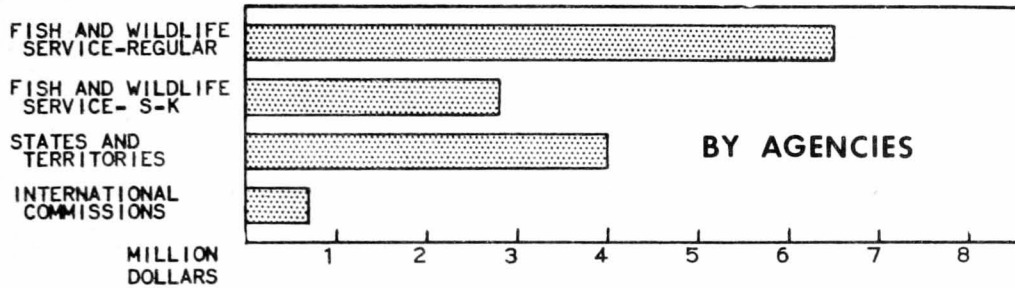
Research and services are deemed to include all investigations and studies of a technical nature, fishery management projects, and statistical, marketing, and similar services. Law enforcement activities are not included.

The Fish and Wildlife Service is indebted to the 32 State and Territorial departments for furnishing the necessary data for their respective jurisdictions in which commercial fisheries are prosecuted.

Line No.	Activity and Source of Funds	Bottom Fisheries									Fresh-water fisheries	All Other 2/	Total	Line No.
		Pacific			Atlantic			lf						
		Rock-fishes	Floun-ders	Hali-but	Ocean Perch	Ground-fish 1/	Floun-ders	rs	Shrimp	Northern lobster				
1	BIOLOGICAL RESEARCH:													
2	Regular FWS Appropriation. . .	-	-	-	30	150	-	-	-	576	383	3,186	2	
3	Saltonstall-Kennedy Act. . . .	-	-	-	30	154	50	130	-	-	134	1,385	3	
4	Total . . . . .	-	-	-	60	304	50	130	-	576	517	4,571	4	
5	HATCHERIES AND RIVER BASIN												5	
6	STUDIES: 3/												6	
7	Regular FWS Appropriation. . .	-	-	-	-	-	2	-	-	33	6	2,157	7	
8	Saltonstall-Kennedy Act. . . .	-	-	-	-	-	-	-	-	-	-	-	8	
9	Total . . . . .	-	-	-	-	-	2	-	-	33	6	2,157	9	
10	OTHER RESEARCH AND SERVICES:												10	
11	EXPLORATORY:												11	
12	Regular FWS Appropriation. . .	10	10	-	2	-	-	113	1	1	46	353	12	
13	Saltonstall-Kennedy Act. . . .	-	-	-	32	65	5	64	22	-	34	299	13	
14	Total . . . . .	10	10	-	34	65	5	177	23	1	80	652	14	
15	TECHNOLOGY:												15	
16	Regular FWS Appropriation. . .	-	1	2	5	55	4	12	2	16	22	282	16	
17	Saltonstall-Kennedy Act. . . .	3	2	8	7	45	2	42	2	17	50	464	17	
18	Total . . . . .	3	3	10	12	100	6	54	4	33	72	746	18	
19	STATISTICS:												19	
20	Regular FWS Appropriation. . .	1	2	2	17	32	9	16	3	3	37	180	20	
21	Saltonstall-Kennedy Act. . . .	2	2	-	2	4	5	87	1	25	26	200	21	
22	Total . . . . .	3	4	2	19	36	14	103	4	28	63	380	22	
23	ECONOMICS:												23	
24	Regular FWS Appropriation. . .	2	-	2	1	5	1	3	1	5	4	43	24	
25	Saltonstall-Kennedy Act. . . .	10	10	10	3	16	1	12	1	10	8	148	25	
26	Total . . . . .	12	10	12	4	21	2	15	2	15	12	191	26	
27	MARKET NEWS:												27	
28	Regular FWS Appropriation. . .	8	2	17	4	35	10	25	9	21	28	280	28	
29	Saltonstall-Kennedy Act. . . .	-	-	-	-	-	-	-	-	-	-	-	29	
30	Total . . . . .	8	2	17	4	35	10	25	9	21	28	280	30	
31	MARKET DEVELOPMENT AND												31	
32	EDUCATION:												32	
33	Regular FWS Appropriation. . .	-	-	-	-	-	-	-	-	-	-	-	33	
34	Saltonstall-Kennedy Act. . . .	6	6	16	17	53	8	14	13	18	21	315	34	
35	Total . . . . .	6	6	16	17	53	8	14	13	18	21	315	35	
36	Total (10-35) OTHER RESEARCH												36	
37	AND SERVICES:												37	
38	Regular FWS Appropriation. . .	21	15	23	29	127	24	169	16	46	137	1,138	38	
39	Saltonstall-Kennedy Act. . . .	21	20	34	61	183	21	219	39	70	139	1,426	39	
40	Total . . . . .	42	35	57	90	310	45	388	55	116	276	2,564	40	
41	Total Regular FWS Appropria-												41	
42	tion . . . . .	21	15	23	59	277	26	169	16	655	526	6,481	42	
43	Total Saltonstall-Kennedy Act.	21	20	34	91	337	71	349	39	70	273	2,811	43	
44	Total Fish & Wildlife Service	42	35	57	150	614	97	518	55	725	799	9,292	44	
45	States, Alaska, and Hawaii . .	11	92	-	-	2	95	24	192	739	4,015	45		
46	International Commissions. . . .	-	-	4/188	-	-	-	-	-	-	-	7/668	46	
47	GRAND TOTAL . . . . .	53	127	245	150	614	99	613	79	917	1,538	13,975	47	
48	1953 Catch - Millions of												48	
49	Pounds . . . . .	26	36	47	154	302	63	258	28	181	572	4,468	49	
50	1953 Value - Millions of												50	
51	Dollars . . . . .	1.1	2.2	5.6	6.0	16.0	8.0	76.3	10.9	19.7	34.3	352.3	51	

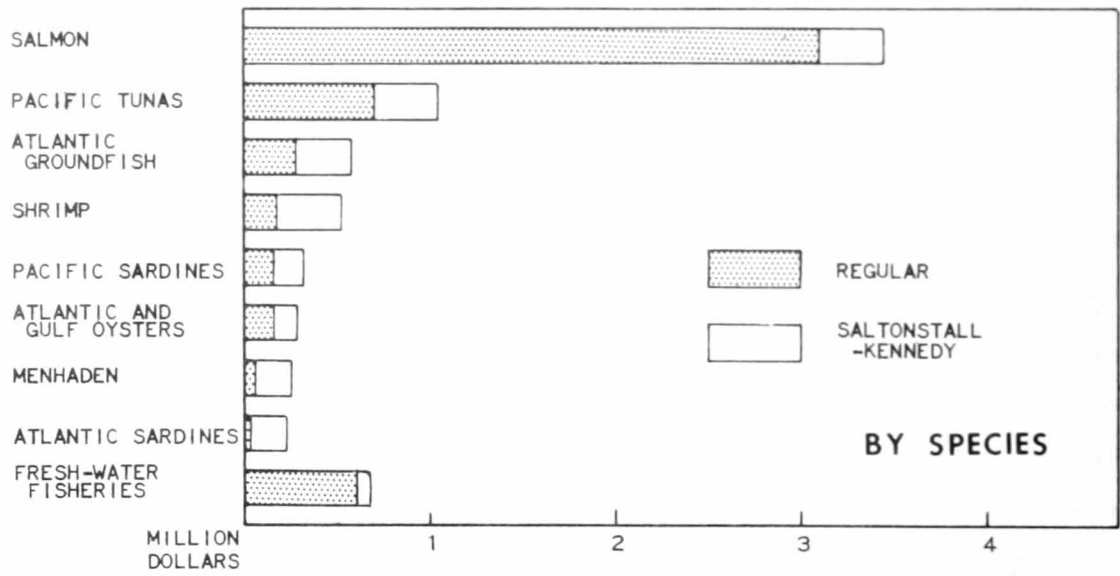
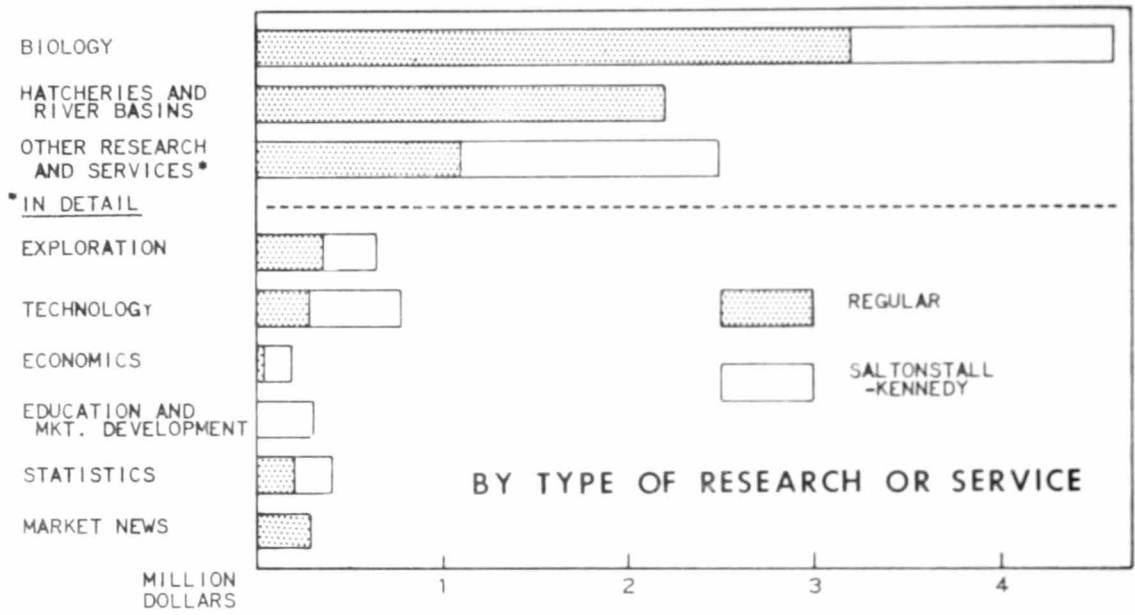
1/ In this table, groundfish includes cod, haddock, hake, pollock, cusk, and includes species and fisheries not separately shown; includes some amount  
 2/ Includes contributed funds from Bureau of Reclamation and Corps of Engineers  
 3/ Includes contributed funds from Bureau of Reclamation and Corps of Engineers  
 4/ International Pacific Halibut Commission (funds from the United States and Inter-American Tropical Tuna Commission; this amount represents all available  
 5/ International Pacific Salmon Fisheries Commission (funds from the United States and Inter-American Tropical Tuna Commission; this amount represents all available  
 6/ International Pacific Salmon Fisheries Commission (funds from the United States and Inter-American Tropical Tuna Commission; this amount represents all available  
 7/ In addition to this total, there are included in Biological Research, Research, International North Pacific Fisheries Commission, \$730,600 (U. S. funds), \$218,000 (U. S. funds).  
 8/ Less than 500,000 pounds.  
 9/ Less than \$500,000.

# TOTAL EXPENDITURES FOR RESEARCH AND SERVICES

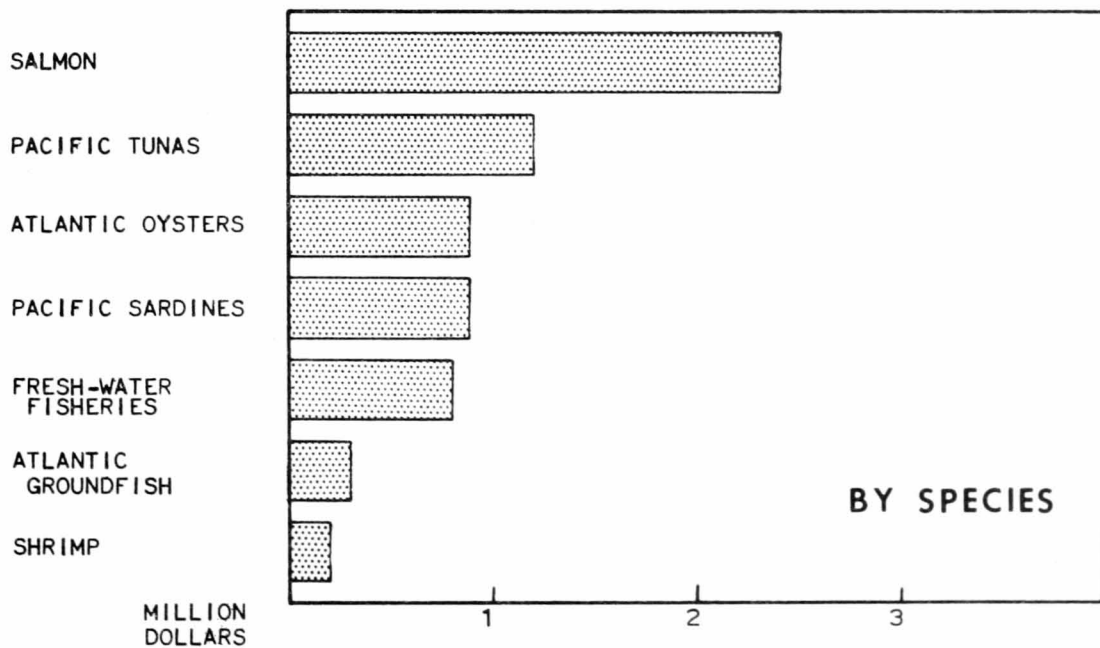
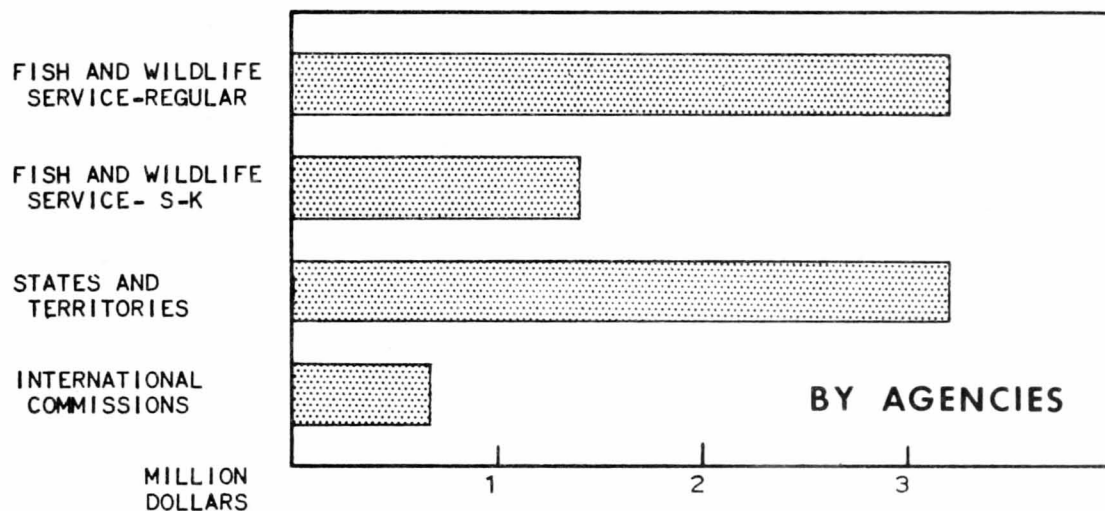




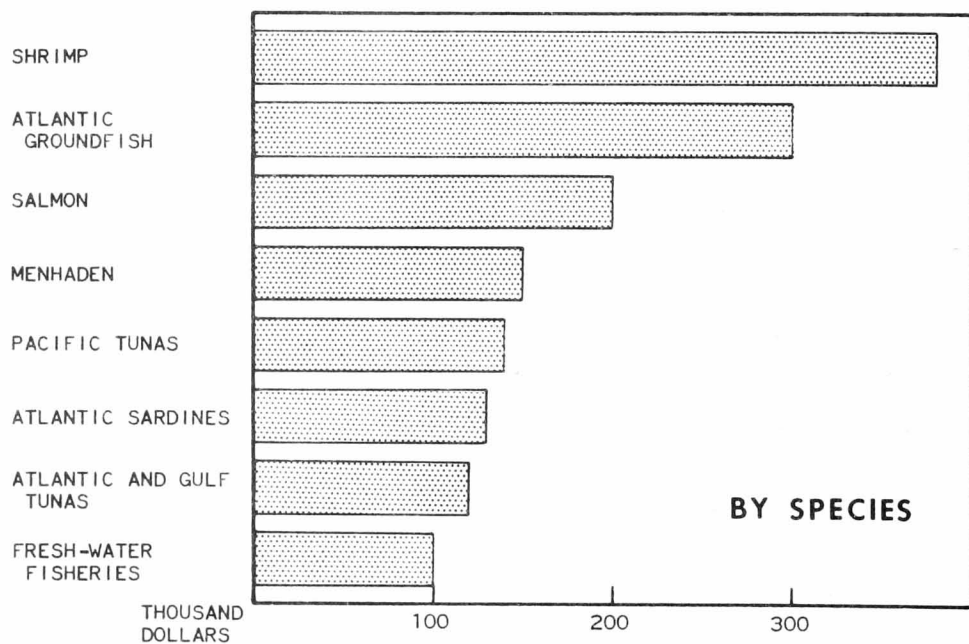
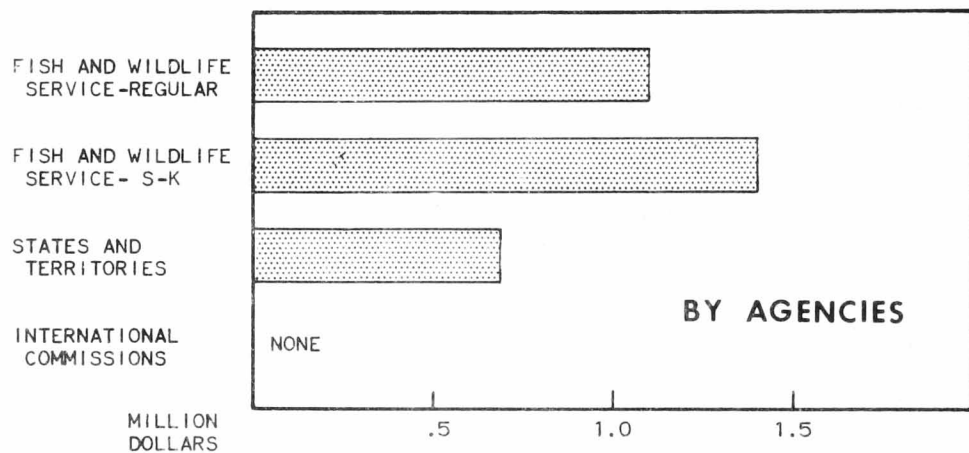
# TOTAL FISH AND WILDLIFE SERVICE EXPENDITURES FOR RESEARCH AND SERVICES



# TOTAL EXPENDITURES FOR BIOLOGY

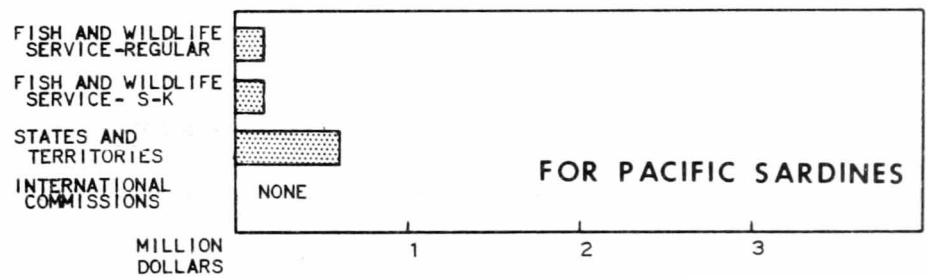
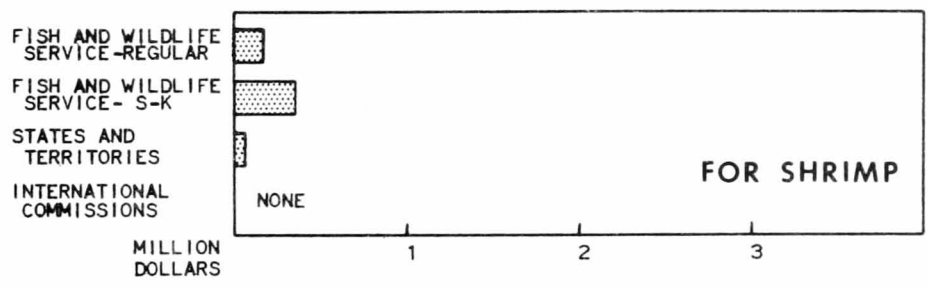
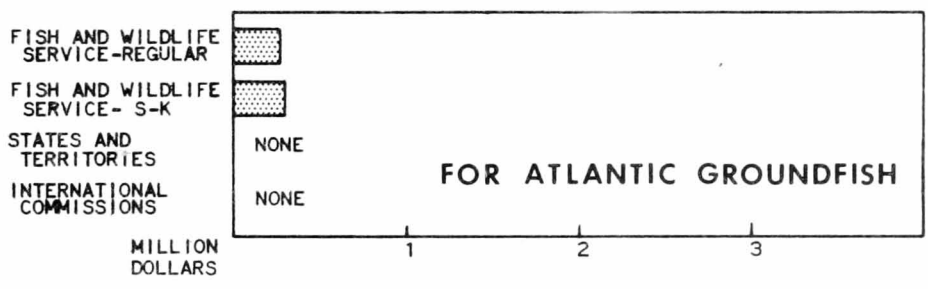
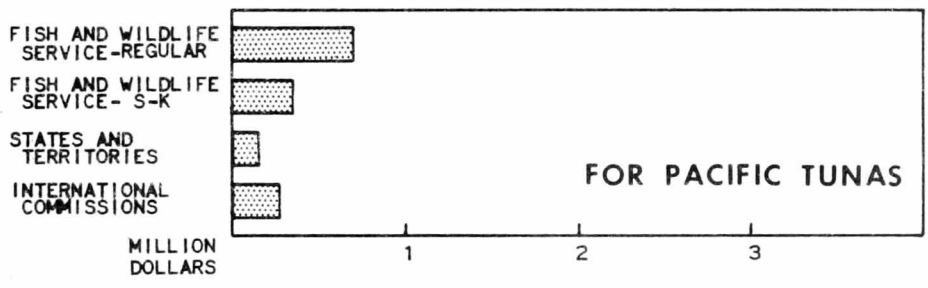
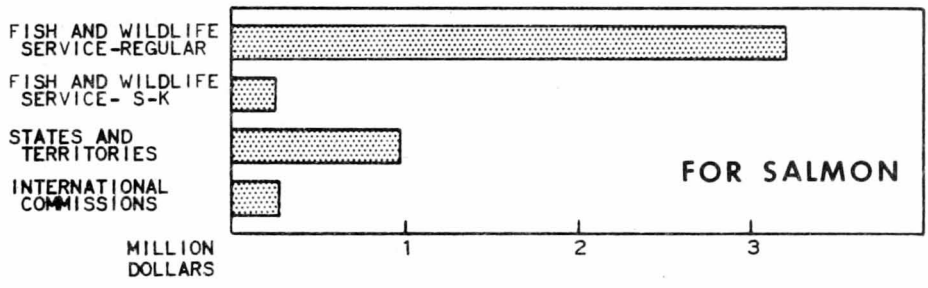


# TOTAL EXPENDITURES FOR OTHER RESEARCH AND SERVICES\*



\*Includes Statistics, Technology, Exploration, Education and Market Development, Market News, and Economics.

# TOTAL EXPENDITURES FOR MAJOR SPECIES



# TOTAL EXPENDITURES FOR MAJOR SPECIES

## Continued

