64.-STATISTICS RESPECTING CERTAIN FEATURES OF THE VES. SEL FISHERIES OF THE UNITED STATES.

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INTRODUCTORY NOTE.

The statistical information presented herewith was prepared during the years 1886, 1887, and 1888, chiefly in response to requests from Congress, the Executive Departments, and the International Fisheries Commission. In several cases the tables have been modified somewhat and made more comprehensive than they were originally.

It is believed that the presentation of preliminary tables in this form (as distinct from the general fishery statistics of the years referred to), some of them being novel in arrangement and covering many branches and phases of the vessel fisheries, will furnish much that is valuable and instructive to all who are interested in the subjects considered. And also, while a clear conception may thus be gained of the matters dealt with, the peculiar and specific kind of information required by the executive and legislative branches of the Government will be apparent.

The data on which the tables are based were procured chiefly by special investigation and correspondence by the U.S. Fish Commission and by returns forwarded by collectors of customs on Treasury circular for obtaining statistics of the fisheries.

EXPLANATION OF TABLES.

Table I shows, by customs districts and States, the number and citizenship of men on vessels employed in the New England food-fish fisheries in 1886, including lobster and menhaden, but not including oyster and other shell-fish. The men engaged on lobster and menhaden vessels numbered 538; 515 of whom were Americans, 2 British provincials, and 21 other foreigners.

Table II relates to the vessels employed in the cod-fisheries that, during the year 1886, frequented grounds east of longitude 65° west. The fleets on each of the distant off-shore banks are enumerated; and the vessels carrying hand-lines or trawls, or both, are shown separately.

In Table III the vessels following the cod and halibut fisheries on offshore grounds in 1886 are classified according to the localities in which the greater part of their catch was obtained, and also with reference to the kinds of bait used and the source of the bait supply. Each vessel is shown under the ground on which its principal fishing was done, thus explaining any apparent contradiction of Table II, which gives the fleets on the separate grounds. In winter, the vessels fishing for halibut, and those engaged in the cod-fishery on George's, Brown's, La Have, and Western banks, usually take supplies of frozen-herring bait from the home ports.

Table IV shows the New England fleet engaged in the off-shore cod and halibut fisheries in the year 1888, dividing them according to their hailing ports and fishing grounds. The total number of vessels is shown to have been 370, of which 305 were owned in the State of Massachusetts, 60 in Maine, and 5 in Connecticut. One hundred and two of the vessels fished exclusively on the Grand Bank, and 63 others visited that ground at some period in the year.

Table V gives the number of American fishing vessels entering British North American ports, including those of Newfoundland, together with the number of times said ports were visited by the vessels in the several fisheries, and the amount of money expended by them for bait, ice, provisions, repairs, etc., during 1885, the last year of the continuance of the so called Washington treaty. In addition to the expenditures incurred on the part of the vessels, the crews disbursed greater or less amounts, aggregating \$16,800, an estimate based on the assumption that each man would spend only \$5 during the season. The average number of times that each vessel entered foreign ports in 1885 was five.

Table VI shows that in 1886 5,137 barrels of clam-bait, valued at \$28,230, and in 1887 4,430 barrels, valued at \$24,440, were shipped from Maine to be used by the provincials. Sedgwick, Deer Isle, and the vicinity of Portland are the centers of this trade. A large portion of the clam-bait received at Portland is transhipped by way of Boston, the custom-house records of which city show that in 1886 1,905 barrels, and in 1887 1,313 barrels, valued at \$9,789 and \$9,102, respectively, were exported to the provinces.

The mackerel fishery is treated of in four tables (VII to X).

Table VII shows, by customs districts, the quantity of mackerel caught by the New England fleet in 1886, with the fishing grounds on which the fish were taken. Three hundred and thirty-eight vessels used purseseines; these schooners are generally of large size, ranging from 40 to 140 tons, and carrying from 10 to 20 men. The 149 vessels using handlines and nets vary in size from 5 to 70 tons, but are generally small craft, with trom 2 to 13 men. They fished along the coast of the United States with more or less regularity during the summer months. Three fished in the Gulf of St. Lawrence with hand-lines; these were the schooners M. L. Wetherell and William V. Hutchins, of Gloucester, and G. M. Hopkins, of Provincetown.

The total catch of mackerel in 1886 was 130,170 barrels, of which 38,583 barrels were sold fresh and 91,587 barrels were brine-salted. The catch of the Southern fishery amounted to 19,812 barrels, of which all but 3,676 barrels were sold fresh, chiefly in New York. The New England shore yielded 39,303 barrels, of which 21,687 barrels were disposed of in a fresh state. The catch on the Nova Scotia shore and in the Gulf of St. Lawrence included more than half of the total product of the fleet, aggregating 71,055 barrels, of which 760 barrels were landed fresh in Portland. The vessels fishing with hand lines and nets secured 39 barrels of fresh mackerel and 27 barrels of salt mackerel in the Southern spring fishery; 3,357 barrels of fresh and 2,142 barrels of salt fish off the New England shore, and 191 barrels of salt mackerel in the Gulf of St. Lawrence. The total value of the mackerel taken by the fleet in 1886 was about \$1,716,372.

The extent of the mackerel fishery in 1887 is given in Table VIII, which shows, in addition to the number of vessels and the catch, as set forth in Table VII, the aggregate tonnage and value of the vessels in each district, together with the number and citizenship of the men employed in the fishery and the value of the catch by districts. The table includes all vessels that during any portion of the year fished especially for mackerel. The mackerel catch of vessels not regularly engaged in the fishery is shown in a foot-note.

The extent of the American mackerel-fishery in the Gulf of St. Lawrence in 1887 is presented in Table IX. The average catch per vessel, only 98 barrels, is considerably less than half the average catch of vessels fishing on the American shore, which was 220 barrels in 1887. A list of the vessels, 178 in number, which entered the Gulf for mackerel, follows the table, the arrangement being alphabetical under ports.

The information contained in Table X was furnished by Messrs. D. L. Fernald & Co., of Portland. It shows the quantity and value of salt mackerel packed at Portland in 1887, with the percentage of same caught in the Gulf of St. Lawrence. The table includes all salt mackerel packed in Portland, regardless of where the vessels landing the fish were owned. The six packers handled 9,940 barrels, valued at \$140,144.40; of which 2,198 barrels, valued at \$26,407, were taken in the Gulf of St. Lawrence by 40 vessels that fished from six to twenty weeks in those waters; the average time being nine weeks, and the average catch 55 barrels.

In Tables XI, XII, and XIII the New England lobster-vessel fishery in 1887 is dealt with, the first table relating to Maine, the second to the other States having lobster fisheries, while the third is a condensed statement for the whole of New England. Reference to the tables, which give the statistics in great detail, shows, among other things, that Maine leads the other States in the number of vessels engaged in the fishery, the tonnage of same, the number of men employed, and the number and value of the lobsters transported ; and that Connecticut is second to Maine in all these respects, and excels in the value of the vessels and outfits, and the number and value of the lobsters actually caught by the vessels' crews. The total output of this fishery was 1,960,939 lobsters, of which 639,294. valued at \$49,908, were caught by the crews of the vessels; while the remaining 1,321,645, valued at \$70,399, were caught by men Bull, U. S. F. C. 87-29

fishing in small open boats along the shores adjacent to their homes, and were merely purchased by the vessels and transported by them to the city markets.

In Table XIV a comparative statement is furnished of the extent of the menhaden fishery in 1880 and 1886, the former figures obtained by agents of the U.S. Fish Commission for the Tenth Census, the latter by special field investigations of the Commission. Reference to the table discloses certain features of the fishery the mention of which will be of interest.

Number of factories.—The State having the largest number of factories, both in 1880 and 1886, is Virginia, 38 and 37 being the respective figures. A large proportion of the factories in 1880, however, were not in existence in 1886; many of those operating in the latter year representing new capital invested or a change in the location of plants.

Massachusetts, Rhode Island, Connecticut, New York, and New Jersey show a decrease in the number of factories, while whatever increase took place was south of New Jersey, and the increase was really more than can be judged from a bare statement of the number of factories, as is shown by the greatly augmented amount of capital invested in the Southern States. A noticeable impetus to the industry in the South, partially compensatory with its decline in the North, is seen in the number of works in 1886 in North Carolina, where in 1880 there were none.

Number of vessels.—Fewer steam and sail vessels were employed in 1886 than in 1880. Vessels of finer build, larger size, and with more men, however, made up for fewer numbers in 1886. While in 1880 the average value of steamers was \$8,160, in 1886 it was \$10,095. The value of sailing vessels shows a corresponding increase, the average in 1880 being \$835 and in 1886 \$1,425.

Number of men.—More men in the capacity of factory hands and fishermen were employed in 1886, notwithstanding the smaller number of factories and vessels.

Capital invested.—The total investment in 1880 was \$2,061,654; in 1886 it was \$2,921,632, or an increase of \$859,978, made up chiefly of improved machinery and other shore property.

The yield of the fishery.—In 1886 the quantity of menhaden taken was less by 1,105,825 barrels, or about 368,608,000 fish, than in 1880. The yield of oil in the latter year was at the rate of 3 gallons to a thousand fish, and in 1886 averaged $5\frac{1}{2}$ gallons; the actual increase in oil amounting to 914,878 gallons. The production of fertilizer was less in 1886 than in 1880 by 27,281 tons. The total value of the output of the fishery was \$2,116,787 in 1880 and \$1,517,330 in 1886; the decrease in the latter year being \$599,457

Table XV shows the average quantity of fish taken per vessel and per man, for the years 1879, 1880, 1885, 1886, 1887, and 1888, of 20 vessels belonging at ports in the State of Maine, and employed in the cod fisheries of Quereau, Western, and Grand banks. Tables XVI to XX give comparative statistics for several different years of the operations of vessels hailing from New England ports and engaged in the cod or the market fisheries.

Table XVI shows the average catch per vessel and per man, for the years 1879, 1885, 1886, 1887, and 1888, of 20 Gloucester vessels engaged in the George's cod-fishery, and 20 others in the Grand, Western, and Quereau banks cod-fishery. The figures given show that the catch of the average bank vessel was from 7,000 to 40,000 pounds larger in 1888 than in 1879, and the catch per man had increased during the same period by from 1,000 to 4,000 pounds, except in the George's cod-fishery, where there was a falling off of 1,265 pounds in that particular. The cod-fishery seems to have been most successful in 1886 on George's Bank, while on the other banks, although the increase in the quantity taken by each vessel is most marked for 1887 and 1888, the catch per man was largest in 1885.

Table XVII shows the average annual catch per vessel and per man, from the years 1885 to 1888, of 14 vessels belonging to Provincetown, Massachusetts, and employed in the cod-fisheries on Quereau, Western, and Grand banks. The figures given show that the average catch of each vessel in 1887 was 8,350 pounds greater than in 1885, and the average to each man had increased by 816 pounds during the same period; but the year 1888 was a less fortunate one, and the averages were 4,205 pounds to a vessel and 2,722 pounds to a man below what they had been in 1885. The apparent disproportion between the decrease per vessel and per man is due to the fact that the crews carried in 1888 numbered more men than in 1885.

Table XVIII shows the American cod fishery in the Gulf of St. Lawrence between 1885 and 1888, inclusive. For a number of years the only American vessels entering the Gulf of St. Lawrence for the purpose of taking fish other than mackerel have belonged at the port of Provincetown, and these have fished only for cod, chiefly with trawls. It will be seen from the table that the average catch of these vessels in so-called Canadian waters is very much less than the catch of other vessels following the cod-fishery on the ocean banks.

Table XIX shows the largest catch of a single vessel and average catch and stock of 20 vessels of the fleet engaged in the Boston market fishery between 1885 and 1888, inclusive. The catch consists of cod, haddock, pollock, etc., and is marketed fresh in Boston. The Boston market schooners are among the finest and largest of the New England fishing fleet, and are specially noted for speed. Their average net tonnage is §4.45 tons, and the average number of men constituting a crew is 17.

Table XX shows the largest individual catch and the average catch and stock of 16 vessels, chiefly welled smacks, engaged in the market fishery from the port of Greenport, New York, taking chiefly cod and bluefish, with trawls and hand-lines, and landing their catch in New York City. The average tonnage of the vessels is 43.33 net, and 9 men constitute the average crew.

Table XXI shows the vessel fishery for the year 1887, of the customs district of Philadelphia, comprising the ports of Philadelphia, Pa., and Camden, N. J. Oystering is the most important fishery interest of the district, 77 vessels out of the entire fleet of 90 vessels being engaged in the oyster fishery, while 4 other vessels followed both fishing and oystering. Four vessels fishing only and 5 transporting fish complete the enumeration. The vessels had an aggregate value of \$184,651, including apparatus and outfit, and carried 515 men. The value of the fishery products taken and transported was \$335,179, of which \$264,029 represented oysters and \$71,150 fish.

TABLE INumber and	nationality of men	on vessels employed in	New Fingland food-fish-
	eries	in 1886.	· · · · ·

Customs district.	American citizens.	British provin- cials.	Other for- eigners.	Total number of men on vessels.	Percent- age of American citizens.	Percent- age of British provin- cials.	Percent- age of other for eigners.
MAINE.			1				
Passamaquoddy	93	34		127	73.0	27.0	
Machias Frenchman's Bay	81 310	43	4	81 357	100.0 87.0	12.0	1.0
Castine	429	42		471	91.0	9.0	
Bangor	4 352	4		4 356	100.0 99.0	1.0	
Waldoborough	438	4		442	99.0	1.0	
Wiscasset	300	113		413	73.0	27.0	
Bath Portland	26	151	15	•27 1,877	96.0 89.0	4.0 10.0	1.0
Saco	24	1	15	25	96.0	10.0	i i
Kennebunk	60			60	j 100.0		
York	. 11			11	100.0		
Total	3, 339	393	.19	8, 751	89. 0	10.5	
NEW HAMPSHIRE.							
Portsmouth	130	12	. 4	146	89.0	8.0	3.
MASSACHUSETTS.		<u> </u>					
Newburyport	49	4		53	92.0	8.0	
Gloncester	3, 365	1, 102	726	5, 193	65.0	21.0	14.0
Salem and Beverly Marblehead	113 251	26	2	139 255	81.0 98.0	19.0 1.0	1.
Boston	569	106	84	759	75.0	14.0	11.
Plymouth	58	3		61	95.0	5.0	
Barnstable	940	604	869	2, 418	39.0 100.0	25.0	36.
Nantucket	14 25			14 25	100.0		
Edgartown New Bedford	78		25	103	76.0		24.
Total	5, 462	1, 847	1, 706	9, 015	60.6	20. 5	18.
BHODE ISLAND.							
Newport	341			841	100.0		
Bristol and Warren	6]	6	100.0		
Providence	22	2		24	83.0	17.0	
Total	369	. 2		371	99.5	, 5	
CONNECTICUT.							
Stonington	284		17	301	94.0		6.
New London	297		49	346	86.0		14.
New Haven	8	*****		8	100.0		
Total	589		66	655	89, 9		10.
Grand total	9, 889	2, 254	1, 795	13, 938	70.9	16.2	12.

Locality where fishing.	Vessels carrying hand-lines only.	Vessels carrying trawls only.	Vessels carrying both hand- lines and trawls.	Total.
A. Vessels fishing for cod only: Grand Bank exclusively Grand and Western banks Grand Bank and banks west of longitude 65° W.	47 5	9	2	56 9 2
Western Banks exclusively Western Banks and banks west of longitude 65° W	49 74	3	2	54. 74
Total	175	16	4	195
 B. Vessels employed in cod and other fisheries during the year, but when in the cod fishery, at times fishing east of longitude 65° W.: Grand Bank exclusively. Grand Banks and banks west of longitude 65° W. Western Bank exclusively. Western Banks and banks west of longitude 65° W. 	1 1 15	6 7 8 2 4	3	6 11 7 17 13
Total	23	25	6	54

TABLE II.—The New England cod fleet fishing east of longitude 65° west in 1886.

Nore.—Vessels mentioned as having fished a portion of the year west of longitude 65° west are those which engaged for a short time in either the market fishery or the so-called George's cod fishery. The term Western Banks should, in every case, be understood to include not only Western Bank proper, but also Quereau and La Have.

TABLE III.—The	New Engl	and off-shore co	d and halibut	fleets in	1886, classified accord-
	ing	to fishing-group	ids and bait i	supply.	

	1	Ves-	Fresh	bait.		
Fishery.	Fishing-grounds.	sels.	Kinds used.	Whence obtained.		
Cođ	Grand Bank	95	Herring, capelin, mackerel, and squid, and occasionally Bank clams, cod-roe, birds, and porpoise.	Chiefly Newfoundland; also New England and Nova- Scotia occasionally on hanks.		
Do	Quereau and West- ern banks.	80	Herring, mackerel, and squid.	New England, Nova Scotia, and occasionally New Brunswick.		
Do	George's and Brown's banks.	180	Herring, alewives, menhaden, mackerel, and squid.	New England, New Bruns- wick, Nova Scotia, and oc- casionally Long Island, N. V.		
Halibut:.	La Have, Western, Quereau, Grand, Green, and St.	ve, Western, 55 Herring, mackerel, ood, had- cau, Grand, dock, and refuse fish taken sometin n. and St. first da				
Do	Do Pierre banks. Off Greenland and Iceland.		Chiefly halibut, but also cod and refuse fish taken on trawls.	wards on banks. Caught by crow.		
ng manager and a second			• Salt	bait.		
Fishery.	Fishing-grounds.	Ves- aels.	Proportion of the vessels us- ing salt bait.	Kinds used.		
Cod	Grand Bank	95	Three-fifths	Squid and clams; occasionally herring and capelin.		
Do	Quereau and West- ern banks.	80	One half	Squid and clams.		
Do		180	None			
Halibut	La Have, Western, Quereau, Grand, Green, and St.	55	do .			
Do	Pierre banks. Off Greenland and Iceland.	6	All for first two or three days fishing.	Chiefly herring.		

Norg. -Bait such as bank clams, cod-roe, birds, halibut, porpoises, etc., obtained on the banks, is usually called "shack," and the capture of fish with such lures is denominated "shack fishing." Squid, capelin, or herring taken in quantities on the banks are not included among the material known as shack.

Customs district.	Fisheries in which the vessels are employed.	Grand Bank only.	Grand Bank and other banks east of Cape Sable.	Grand Bank and banks west of Cape Sable.	Banks east of Cape Sable, excluding the Grand Bank.	Banks west of Cape Sable.	Both on banks east and west of Cape Sable, excluding the Grand Bank.	Total number of ves- sels fishing on Grand Bank.	Total number of ves- sels engaged in off- shore bank fisheries.
Castine Belfast Waldoborough	do	16 			1 1 2 15 13			11 16 27	12 16 1 2 16 13 60
Gloucester	Total for Maine Cod Halibut Cod and halibut	27 15 13	20 7 5	27 1	32 14 *6 1	92 1 3	30 1	62 21 5	198 28 10
Salem and Beverly Marblehead		3	32	28	21	96 1 1	81	88 3	236 4 1
Boston	Cod and halibut	I				21	1		8 1 4
Barnstable	Cod and halibut	44	8		3	44	1	47	55 4 59
New Bedford	Total	44	3				_	47	
	do Halibut Cod and halibut	62 13	23 7 5	27 1	18 6 1	100 1 8	32 1	112 21 5	262 28 15
Stonington New London	Total for Massachusetts Halibutdo.	75	35	28	25	109 1 3	33	138	805 1 4
•	Total for Connecticut					4	1	100	5
	Cod Halibut Cod and halibut	89 13 	23 7 5	27 1	50 6 1	100 5 8	83 1 1	139 .21 5	822 83 15
	Grand total	1	85	28	57	113	85	165	870

TABLE IV.—Off-shore vessel fleet of New England in 1888, by hailing ports and fishinggrounds.

• Iceland.

			Number of ves- sels entering for- eign ports.				r of t ig for orts.		<u> </u>	Amounts expended.			
State and district.	In cod fishery.	In mackerel fishery.	In halibut and other fishery.	Total.	Cod vessels.	Mackerel vessels.	Halibut and other vessels.	Total.	For bait.	For ice.	For provisions and gear.	For repairs and other purposes.	Total
Maine : Portland district Other districts Massachusetts : Gloucester . Barnstable district Other districts Total.	12 19 86 18 6 141	2 5 88 3 1 49	3 11 35 1 50	17 35 159 21 8 240	48 429 364 29 13 885	8 4 232 3 8	17 49 152 5 223	32 23	885 563	98 • 167	\$376 386 19,557 1,161 889 22,379	525 14, 726 976 1, 482	\$1, 434 1, 440 54, 061 2, 570 3, 111 62, 62

	Bar	rels.	Ve	Value.		
Place whence exported.	1886.	1887.	1886.	1887.		
Sedgwick, Me Deer Isle, Me Portland, Me., and vicinity.	650 700 3, 787	652 550 3, 228	\$3, 580 3, 850 20, 800	\$3, 590 3, 050 17, 800		
Total	5, 137	4, 430	28, 230	24, 440		

TABLE VI.-Exportation of clam-bait to the British Provinces.

TABLE VII.—The New England mackerel fishery in 1886.

a tan Ital tak	sels f	r of ves- lshing h —	Souther	n spring lery.	New E sho	Ingland ore.		otia shore if of St. sence.
Cnstoms district.	Purse seines.	Hooks, nets, and traps.	Sold fresh.	Brine- salted.	Sold fresh.	Brine- salted.	Sold fresh.	Brine- salted.
Passamaquoddy	1	4	Barrels. 145	Barrels.	Barrels.	Barrels. 73	Barrels.	Barrels. 384
Frenchman's Bay Castine Belfast		1 6	445	130 364	91 125 7	282 1, 045 462	•••••	1, 545 3, 015
Waldoborough Wiscasset	6 18	27	89 929	60	1, 348 441	821 468		500
Portland Kennebunk Portsmouth		4 2 1	4, 058 200	461	2,417 17 1,448	8, 590 24 150	760	5, 888
Newburyport		1 19	9, 250	770	200 2, 379	8,510		252 48, 123
Salem and Beverly Marblehead Boston		1 1 2	370	511	6, 175 1, 944	296 1, 147		8, 08
Plymouth Barnstable	· 2 73	$\begin{array}{c}1\\22\\3\end{array}$	700	8 1, 369	1, 003 2, 814 11	13 4, 546 23	•••••	6, 032
Vantucket Idgartown New Bedford		68		3	5 69	109 438		*********
Newport rovidence		19 2			422 86 519	434 20 2		
tonington New London	<u> </u>	8 4			59	223		75
Total	338	149	16, 136	3, 676	21, 687	17, 616	760	70, 29

			Vess	els.			М	en.		Catch.		
Customs district.	Using purse seines.	Using nets and hand-lines.	Net tonnage.	Value of vessels.	Value of apparatus and outfit.	Americans.	British provincials.	Other foreigners.	Total.	Sold fresh.	Brine-salted.	Value of catch.
MAINE.										70.1.0	The	
Passamaquoddy Frenchman's Bay Castine Belfast. Waldoborongh Wiscasset Portland Kennebunk	1 8 13 2 11 36	1 14 1	92. 48 41. 00 549. 98 828. 07 307. 19 766. 80 3, 055. 19 6, 50	3,000 25,200 37,700 25,650 57,000 210,750	700 16, 200 17, 830 925 16, 300 62, 770	7 103 156 70 149 550	21 33 21	2	14 7 124 191 70 170 625 3	Bbls. 66 973 629 3, 831 16	95 2, 044 8, 058	\$1, 705 53 26, 839 20, 941 11, 539 29, 084 150, 068 155
Total	71	27	5, 647. 21	367, 700	122, 125	1, 052	132	_ 20	1, 204	5, 515	14, 168	240, 384
NEW HAMPSHIRE.												
Portsmouth	. 4	1	218.40	14, 850	6, 325	44	4	2	50	805	248	9, 250
MASSACHUSETTS.												
Newburyport	1 132 13 16 2 60 	3 1 6	$\begin{array}{c} 57.13\\ 10,957.12\\ 36.87\\ 695.48\\ 1,189.17\\ 145.37\\ 4,863.01\\ 5.34\\ 70.16\\ 158.93\end{array}$	656, 805 850 46, 300 73, 700 223, 000 400 5, 800	382, 490 260 15, 600 26, 425 2, 700 92, 265 65 1, 675	1, 535 8 165 164 26 855 3 19	1 3 58	44 58	$17 \\ 2,280 \\ 9 \\ 168 \\ 266 \\ 26 \\ 1,063 \\ 3 \\ 19 \\ 49$	2, 140 268 4, 721 6 200	85 500 5, 287 60 20, 896 15 203	2, 250 625, 278 938 50, 722 69, 684 3, 120 272, 077 340 2, 243 8, 570
Total	225	89	18, 178. 58	1, 023, 105	525, 535	2, 819	822	259	3, 900	25, 376	74, 799	1, 035, 2 22
RHODE ISLAND.				· ·								
Newport Providence		17 1	189. 87 10. 07						53 4	179 29	1, 453	20, 563 250
Total		18	199. 94	21, 200	660	57			57	208	1, 453	20, 813
CONNECTICUT.												
Stonington New London	1	2 4	32. 33 135. 08				 10	. . . 	6 28	204 103	368	1, 785 5, 182
Total	1	6	167.41	9, 250	2, 985	24	10		34	307	368	6, 917
Grand total	301	141	24, 411. 54	1, 436, 105	657, 630	3, 996	968	281	5, 245	32, 211	91,038	1, 312, 586

TABLE VIII. - The New England mackerel fishery in 1887.

NOTE.-Twelve other vessels, including one in Connecticut, three in Massachusetts, and eight in Maine, took incidentally 53 barrels of fresh mackerel and 13 barrels of salt mackerel on the New England shore. These were valued at \$531, and are not included in the above figures.

TABLE IX.-The American mackerel fishery in the Gulf of St. Lawrence, 1887.

District.	Vessels.	Net ton- nage.	Mack. erel taken.
Portland district, Maine Other districts in Maine Gloncester district, Massachusetts Barnstable district, Massachusetts. Other districts in Massachusetts.	*22 19 109 †15 13	1, 782. 04 1, 381. 41 8, 722. 83 1, 163. 91 959. 95	Barrels. 1, 101 967 12, 976 898 1, 490
Total	178	14, 010. 14	17, 432

* Including one New York vessel fishing from Portland. † Including one New London vessel fishing from Provincetown.

List of American mackerel vessels entering the Gulf of St. Lawrence in 1887.

Hailing port.	Name of vessel.	Ton- nage.	Hailing port.	Name of vessel.	Ton- nage.
Eastport, Me	Christina Ellsworth Augusta E. Herrick	92.48	Gloucester, Mass	Harry G. French Hattie B. West	95, 16
Swan's Island, Me	Augusta E. Herrick	94.61)) · · · ·	Hattie B. West	53. 54
	Daniel Simmons	66.27		Hattie L. Newman	
	John Nye Robert Pettis	63, 58 62, 31		Hattie N. Woods Henry Dennis	84.08
North Haven, Me	Alice C. Fox	59.10		Henry Friend	91.55 64.02
	Amy Wixom	45.06	1	Henry Friend Henry Wilson	88.64
	Charles Haskell	62.34	[[Herald of the Morn-	
1	Eben Dale	55.09		ing	68.05
	Electric Flash F. H. Smith	78.09 70.58]	Howard Holbrook	92,60 80,81
	Maud S.	75.66		Isaac A. Chapman James and Ella	85.75
Vinal Haven, Me	Willie Parkman	73.85	Ì	Jennie Seaverns	106,98
Rockland, Me	Gracie C. Young	83.70		John G. Whittier	99.10
Booth Bay, Me	Ambrose H. Knight	87.04		John S. McQuin	77.68
	Caroline Vought	79.79		John W. Bray	79.24
lantha ant Ma	Cora Louisa	74.50		Joseph Garland	48.87
Southport, Me	Fannie S. Orne	80. 78 76. 58		Knight Templar Lelia E. Norwood	69. 60 74, 39
Portland, Me	Sir Knight Abbie M. Deering	96.25		Leona	95.53
ortana, me	A. H. Lenox	68, 88		Lizzie M. Center	77.64
	Eddie Pierce	91.05		Lizzie W. Hannum.	71.35
1	Elsie M. Smith	106.95		Mabel Leighton	71.00
· · · · · · · · · · · · · · · · · · ·	Emma	77.04		Maggie and Lilly	77. 72
	Ethel and Addie	86, 02 81, 53		Margaret	44.24 75.20
	Fannie A. Spurling. Fleetwood	53.19		Martha C	76, 17
·	Francis M. Loring	73. 20		Mary Fernald Mary H. Thomas	93.08
}	Gertie Lewis	68, 63	1	Mascot	77.06
1	G. W. Brown	61.80		Mascot Matthew M. Murray	75.16
1	Hattie Maud	86.82		Mattie Winship	73.44
	Henry Morganthau. James Dyer	85. 53 81. 23		Maud M. Story	71.73
	John M. Plummer	95. 65		Mayflower Molly Adams	108.18 117.26
	Josephine Swanton.	57.70		Moro Castle	84. 41
1	Lilla B. Fernald	78.36		Nellie M. Davis	89.22
}	Lilla B. Fernald Lucy J. Warren	56.05		Nellie N. Rowe	79.06
	Margaret S. Smith Mattie T. Dyer	109.13		Oresa	82.47
	Mattie T. Dyer	103.48 85.64		Orient	89.07 68.96
ewburyport, Mass-	Solitaire Sarah E. Babson	46, 64		Ossipee Pendragon	68.47
	Ada R. Terry	65.83		Phebe and Emma	61.34
100000001, 110000 00	Albert H. Harding	61. 11		Small.	
	Alice C. Jordan	81.96		Pioneer	62.88
	A. M. Burnham	60.08		Porter S. Roberts	72.00
	Annie C. Hall	84.42 64.03		Ralph E. Eaton Ralph F. Hodgdon	65. 52 85. 79
	Annie H. Frye	81. 35		Rapid Transit	80. 25
	Argonaut	70. 30		Rattler	78. 59
	Barracouta	65.15		Richard Lester	69, 08
1	Bartie Pierce	90.15		Robert J. Edwards .	80.38
	Belle A. Nauss	88.70		Robin Hood	88.23
	Belle Franklin	75.96 110.27		Rushlight Sarah P. Ayer	63, 63 67, 81
	Blue Jacket	68 33		Sea Foam	54.99
	Canopus Carrie E. Parsons	80.05		Senator Frye	85.14
	Carrie W. Babson Charles C. Warren	85.86		Senator Morgan	86.07
1	Charles C. Warren.	103.43		Senator Saulsbury.	102.38
	Col. J. H. French	79.03		S. F. Maker	103. 75
1	Commonwealth	81.23 86.90		Shiloh Starry Flag	81, 68 56, 53
	David A. Story David F. Law	57.73		Vesta	75, 70
1	Edith Rowe	80.00		Volunteer	66. 11
	Edward E. Webster.	93.86		Volunteer Warren J. Crosby	107.90
	Eleazar Boynton	84.53		William D. Daisley .	93.19
1	Electa A. Eaton Ellen M. Adams	73.85		William D. Daisley . William H. Foye William H. Jordan .	66.93
Į		85. 81 62. 02		William H. Wolliss -	86.00
	Enola C Ethel Maud	62.02 77,07		William H. Welling- ton.	81. 30
	Fannie Belle	80.21		William M. Gaffney.	70.92
	Fannie W. Freeman	90.10		W. W. Rice	90. 13
.	Fannie W. Freeman Farmer R. Walker Frank A. Radliffe	90. 10 67. 93	Rockport, Mass	Emma W. Brown Oscar and Hattie	73.97
	Frank A. Radliffe.	99.01	Swampscott, Mass.	Oscar and Hattie	81.28
	Frank Foster	56. 71 67. 34		Paul and Essie	63. 54
	Frederick Gerring, jr Frederick P. Frye	97.34	Boston, Mass	Andrew Burnham Charles H. Kelley	86, 87
	Gatherer	81.10 90.92	•	Grover Cleveland	65.28 87.78
	George Butler	87.87	/	Morning Star	76.43
			ı (
	Georgo F. Edmunds.	141.80		Neponset	69.84

List of American mackerel vessels entering the Gulf of St. Lawrence in 1887-Continued.

Hailing port.	Name of vessel.	Ton- nage.	Hailing port.	Name of vessel.	Ton- nage.
Boston, Mass Cohasset, Mass Plynouth, Mass Wellfleet, Mass	Thetis. Charlotte	47.46 68.08 90.72 72.39 66.33 77.98 70.22 72.14 73.35	Wellfleet, Mass Provincetown, Mass. Orleans, Mass Harwich, Mass New London, Conn. New York, N. Y	Mary Steele Alice 1st Gracie H. Benson Hattie D. Linnell Charlotte Brown Kate Florence Frank Butler Laura Belle	66. 47 84. 87 85. 06 88. 54 80. 27 79. 33 96. 94 70. 85 77. 91

TABLE X.—The pack of salt mackerel in Portland in 1887.

	Tota	l quantity	of s Pc	alt me ortland	ickerel	l pack	ed in	Portion caught in Gulf of St. Lawrence.				
Name of packer.		Eotal.	(extra).			(large).		packing with firms that en- the gulf.	time fishing Gulf.		ckerel in Gulf.	
4	Bbls.	Value.	No. 1's (e	No. 1'8.	No.2'8.	No. 3's (h	No. 3's.	Vessels 1 these f	Average	Bbls.	Value.	
A. M. Smith Lewis, Chase & Whitten. C. D. Thomes Charles A. Dyer. Green & Brower D. L. Fernald & Co Total.	1, 125 100 1, 721 1, 004 4, 240	24, 094. 00 14, 196. 00	145	478 519 20 504		203 	Bbls. 378 229 25 229 98 449 1,408	6 5 1 10 1 17 	8 6	145 20 682 12 1, 232	8, 184. 00	

NOTE.—Two other firms, not included in the foregoing table, packed a few mackerel, but as they went out of business before the close of the season, it was impossible to get accurate statistics of their pack, which is estimated at about 200 barrels.

		Vess in n	els e o oth erie	er fi	sh-	part	of t	ngaş he ti isher	me		Total l	obster	fleet.	1			Produc Other lo	<u>i</u>		
Customs district.	Hailing port.	lobsters y.	-doj	JP.		sters	- 00	g and				vessels.	At.		Lobsters by crews sels	of ves-	transpo by vess	orted	Tota	L
•		Catching lob	Transporting 100- sters only.	transportin	Total.	Catching lobsters only.	Transporting lob- sters only.	Both catching transportin	Total.	Vessels.	Net tonnage.	Value of ves	Value of outfit.	Men.	Number.	Value.	Number.	Value.	Number.	Value.
Machias district, Me Frenchman's Bay district, Me Castine district, Me Belfast district, Me	Jonesport Gouldsborough Castine North Haven			2	2	2 1 1	1 	1 	3 1 1 1	5 1 1 1	49.56 7.35 14.35 10.84	\$1, 175 400- 300 400	\$560 150 100 75	16 3 4 3	28, 567 5, 250 6, 600 3, 000	\$878 80 100 50	140, 750 192, 500	\$2, 224 2, 670	169, 317 197, 750 6, 600 3, 000	\$3,102 2,750 100 50
Waldoborough district, Me	St. George Cushing Bockland Friendship Bristol Waldoboro ugh Damariscotta		1 4 2 		1 4 2 	 1 1 1 1 1	1	2	1 1 5 1 1 1	1 5 1 6 3 1 1	28.59 88.58 9.54 162.23 53.01 7.58 5.85	600 2,800 400 8,600 3,100 125 400	50 600 200 900 300 200 50	2 11 3 23 7 4 2	4,000 82,651 4,000 10,000 4,000	160 1, 776 160 700 300	43, 636 321, 041 68, 801 138, 375	3, 491 17, 802 3, 495 10, 825	43, 636 321, 041 4, 000 151, 452 142, 375 10, 000 4, 000	3, 491 17, 802 160 5, 271 10, 985 700 300
Portland district, Me	Total Portland Harpswell	1	7		8	5	3	2	10 4		355.38 140.74 13.61	16, 025 4, 225 400	2, 300 600 50	52 16 2	104, 651 4, 088	3, 096 286	571, 853 315, 986 37, 556	35, 613 21, 758 2, 984	676, 504 320, 074 37, 556	38, 709 22, 044 2, 984
	Total		4		4	1	3		4	8	154.35	4, 625	650	18	4,088	286	353, 542	24, 742	357, 630	*25, 028
Saco district, Me	Saco Biddeford	1			1	i			····· 1	1 1	6.72 8.75	450 800	400 220	3 9	14, 348 60, 000	500 4, 800			14, 348 60, 000	500 4, 800
•	Total	. 1			1	1			1	2	15.47	1, 250	620	12	74, 348	5, 300			74, 348	5,300
Kennebunk district, Me	Cape Porpoise			•••••		2			2	2	17.24	550	300	7		380			7,700	380
	Total for Maine.	2	11	2	15	13	7	3	23	38	624.54	24, 725	4, 755	115	234, 204	10, 170	1, 258, 645	65, 249	1, 492, 819	75, 419

TABLE XI.—The Maine vessel fishery for lobsters in 1887.

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			io ot	her f	ish-	part	of	enga the	time		Total	lobster	fleet.		÷.		Produ	icts.		·
Customs district.	Hailing port.	sters	only.	pue 5			nly.	fishe pus si	r108.			vessels.	ft.		Lobsi caught b of ves	y crews	tran	lobsters sported essels.	Tot	al.
		Catching lobsters only.	Transporting	Both catching a transporting.	Total.	Catching lobsters only.	Transporting only	Both catching t transporting	Total.	Vessels.	Net tonnage.	Value of ves	Value of outfit.	Men.	Number.	Value.	Number.	Value.	Number.	Value.
Newburyport district, Mass Gloncester district, Mass Salem and Beverly district, Mass.	Newburyport. Gloucester Salem			 	· • • • •	 1 1	1		1 1 1	1 1 1	11.45 11.63 15.58	600	350	4 3 4	3, 500 18, 765	250 2, 023		\$150 	3, 000 3, 500 18, 765	250
Marblehead district, Mass	Marblehead Swampscott					1			1 1	1	12.05 8.83				3, 500 7, 000				3, 500 7, 000	
	Total					2			2	2	20.88	1, 300	300	7	10, 500	900			10, 500	900
Boston district, Mass New Bedford district, Mass	Boston New Bedford	2			2 	1			1 3	3	52.07 35.57	2, 250 3, 500	450 500			1, 770 6, 560			25, 291 42, 467	
•	Total for Massachusetts.	2			2	8	1		9	11	147.18	8, 250	1,900	42	100, 523	11, 503	3, 000	150	103, 523	11, 653
Newport district, R. I Providence district, R. I	Newport Providence	1		 	11	· • • • •			••••	1	11.33 5.10	1,200 300			11, 000 450	1, 100 32			11, 000 450	
	Total for Rhode Island	2			2		••••			2	16.43	1, 500	372	5	11,450	1, 132		•	11, 450	1, 132
Stonington district, Conn New London district, Conn	Stonington New London	14	l	<u>i</u>	14 2	52]		6 2	20 . 4	181.05 81.56	15, 900 11, 700	4, 00 0 1, 500	56 16		20, 113 6, 990	10, 000 50, 000	1,000 4,000	232, 384 120, 733	21, 113 10, 990
•	Total for Connecticut	1	; 	1	16	7]	l .	8	24	262.61	27, 600	5, 500	72	293, 117	27, 103	60, 000	5, 000	353, 117	32, 103

TABLE XII.-The Massachusetts, Rhode Island, and Connecticut vessel fishery for lobsters in 1887.

TABLE XIII.—The New England vessel fishery for lobsters in 1887.

	Vessels	engaged	in no othe	r fishe	ries.	1	Vessels	ongag oth	ed par er fish	rt of the eries.	time	in
State.	Catching lobsters only.	Trans portin only.		To To	tal.	lol	ching osters only.	Trar porti only	ng 7.	Both atching and trans- orting.	To	al.
Maine Massachusetts Rhode Island Connecticut	2 2 2 15	1	1	2	15 2 2 16		13 8 7		7	8		2
Total	20	1	1	3	35		28		9	3	·	4
							T	otal lol	oster f	lcet.		
•	State.	-	. ,		Vess	els.	Net t nag	on-	Value of essels	of	1	ſen
Maine Massachusetts Rhode Island Jennecticut						88 11 2 24	147	. 18 . 43	24, 728 8, 250 1, 500 27, 600		755 900 872 500	11 4 7
Total		•••••		•••••		75	1, 050	. 76	62, 075	5 12,	527	23
							Produ	icts.		,		
Stat	te.	,		s caugh ews of sels.	t		her lol nsport vesse	ed by		Tot	al.	
*			Number.	Valu	e. 1	Num	ber.	Value	. N1	ımber.	Val	ae.
			234, 204 100, 523	\$10, 1 11, 5	03 (, 645 , 000	\$65, 24 15	0 1	192, 849 103, 523 11, 450	\$75 11	, 41 , 65 , 13
Laine Lassachusetts Liede Island Jonneotlout			11, 450 293, 117	1, 1 27, 1	32 03	60	,000	5,00	ο a	353, 117	82	10

t

TABLE XIV.-The menhaden fishery in 1886 compared with 1880.

i en production de la companya de la					i		ands.	nber 1.	St	eamers.
	State		• .	Factories.	Fishermen.		Factory hands	Total number of men.	Number.	Value.
Massachusetts : 1880				. 1	20	51	20	271	*12	\$97, 500
1886 Rhode Island :	· · · · · · · · · · · · · · · · · · ·			·						
1880 1886				73	41 20		$192 \\ 178$	608 469	18 13	141, 500 156, 500
Connecticut : 1880				. 7	50	04	127	631	19	146, 000 63, 000
1886 New York: 1880	•••••	•••••••	•••••	26	10		102 325	254 1 081	7 30	03, 000 270, 000
1886 New Jersey :				. 15	67	73	513	1, 081 1, 186	82	349, 800
1880 1886				. 12 . 11	17		130 146	304 333	1 2	3, 000 25, 000
Delaware: 1880 1886				1 2		8	3 70	11 100	2	20,000
Maryland : 1880			.,	1	1	15	6	21		
1886 Virginia: 1880	• • • • • • • • • • • • • • •			. 3 38	41	39	59 289	148 708	•••••	2 000
1886 North Carolina:	•••••			37	1, 04		605	1,650	9	3, 000 48, 500
1880 1886	••••••			6	25	52	83	335	····.2	13, 600
Total : 1880				93	2, 54		1, 092	8, 635	81	881 000
1886	•••••			82	2, 71	9	1, 756	4, 475	67	661, 000 676, 400
		7essels.	Total app	82	2, 71	9	1, 756	4, 475 	67	
		7essels. Value.	Total cap- ital in- vested.		2, 71	.9	1, 756 nade.	4,475	pre-	676, 400 Total value of products.
1886	Sail v		ital in-	Menha caug	2, 71	Oil 1	1, 756	4, 475	67 pre-	Total value of
1886 State.	Sail v	Value.	ital in- vested.	Menha caug Barre	2, 71	Oil 1 Gal	1,756	4, 475 Scrap pared	67 pre-	Total value of products.
1886 State. Massachusetts : 1880 1886 Bode Island :	Sail T Number.		ital in- vested. \$179, 105	Menha caug Barro 13,	2, 71 aden ht. els. , 030	Oil 1 Gal	1, 756 nade. <i>lons.</i> 50, 400	4, 475	971	Total value of products. \$61, 769
1886 State. Massachusetts : 1880 Rhode Island : 1886 1886	Sail T Number.	Value.	ital in- vested.	Menha caug Barro 13,	2, 71 aden ht. els.	Oil 1 Gal	1, 756 nade.	4, 475	pre- 1. 1	Total value of products.
1886 State. State. 1880 1880 Rhode Island: 1880 1886 1886 1886	Sail 7 Number. 	Value. \$8,900 29,550 4,500 25,950	ital in- vested. \$179, 105 	82 Menhs caug <i>Barra</i> 13, 	2, 71 aden ht. els. , 030 , 727 , 469	Oil 1 Gal 27 66 21	nade. <i>Jons.</i> 50, 400 70, 482 81, 334 56, 300	4, 475 Scrap pared Tons 1, 10, 5, 9,	67 pre- 1. 971 590 620 000	Total value of products. \$61, 769 221, 748 253, 364 256, 205
1886 State. Massachusetts: 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880	Sail v Number. +23 	Value. \$8,900 20,550 4,500 26,950 3,050 121,750	ital in- vosted. \$179, 105 304, 300 393, 780 392, 370 163, 480	82 Menha caug Barra 13, 245, 325, 66,	aden ht. els. , 030 469 ,727 ,460 ,440	Oil 1 Gal 27 66 21	nade. <i>lons.</i> 50, 400 70, 482 31, 334 56, 300 34, 878	4, 475	67 pre- 1. 1 971 590 620 000 933	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755
1886 State. Massachusetts: 1880 1886 1886 1886 1886 1886 1886 1886	Sail 7 Number. 43 6 53 8 117 22	Value. \$8,900 29,550 4,500 25,950 3,050 121,750 29,450	ital in- vosted. \$179, 105 304, 300 393, 780 392, 370 103, 480 819, 990 985, 997	82 Menha caug Barry 13, 245, 325, 66, 1, 444, 501,	aden ht. ,030 ,469 ,727 ,460 ,460 ,456 ,693	Oil 1 Gal 2 2 6 0 2 1 1 1, 18 1, 08	1, 756 nade. <i>lons.</i> 50, 400 70, 482 51, 334 56, 300 34, 878 86, 682 55, 130	4, 475	67 pre- 1. 1 971 590 620 000 933 210 123	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755 1, 114, 158 542, 008
1886 Massachusetts: 1880 1880 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886	Sail v Number. +23 	Value. \$8,900 20,550 4,500 26,950 3,050 121,750	ital in- vosted. \$179, 105 304, 300 393, 780 392, 370 163, 480	82 Menha caug Barry 13, 245, 325, 66, 1, 444, 501,	aden ht. els. , 030 469 ,727 ,460 ,440	Oil 1 Gal 2 2 6 0 2 1 1 1, 18 1, 08	nade. <i>lons.</i> 50, 400 70, 482 31, 334 56, 300 34, 878	4, 475 Scrap pared Tons 1, 10, 5, 9, 1, 32, 12, 4,	67 pre- 1. 1 971 590 620 000 933	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755 1, 114, 158 542, 008
1886 State. 1880 1880 1886	Sail v Number. +23 	Value. \$8,900 29,550 4,500 25,950 3,050 121,750 29,450	ital in- vosted. \$179, 105 304, 300 393, 780 392, 370 103, 480 819, 990 985, 997	82 Menha caug Barra 13, 245, 325, 66, 1,444, 501, 93, 93, 2,	aden ht. ,030 ,469 ,727 ,460 ,460 ,456 ,693	Oil 1 Gal 27 66 21 13 1, 16 20	1, 756 nade. <i>lons.</i> 50, 400 70, 482 51, 334 56, 300 34, 878 86, 682 55, 130	4, 475 Scrap pared Tons 10, 5, 9, 1, 32, 12, 4, 2,	67 pre- 1. I 971 590 620 933 210 123 545	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755 1, 114, 158 542, 008
1886	Sail 7 Number. 43 6 53 8 117 22 30 24 3	Value. \$8,900 29,550 4,500 25,950 3,050 121,750 29,450 32,400 24,500 2,900	1tal in- vested. \$179, 105 304, 300 393, 780 103, 480 819, 990 985, 097 120, 250 223, 300 1, 700 116, 850	82 Menha caug Barra 13, 245, 325, 66, 1, 444, 501, 145, 93, 2, 98,	2,71 hden ht. els. 030 469 727 460 440 456 693 323 198 499 886	Oil 1 Gal 4 27 66 21 13 1,15 1,05 20 22 20 22	1, 756 1, 756	4, 475	67 1 971 590 620 000 933 210 123 545 650 15 875 300	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755 1, 114, 158 542, 008 146, 286 98, 340 941 116, 750
1886	Sail v Number. 43 6 53 8 117 22 24 30 24 3 14	Value. \$8,900 29,550 4,500 25,950 3,050 121,750 29,450 32,400 24,500 24,500 2,900 25,600	1tal in- vested. \$179, 105 304, 300 393, 780 392, 370 103, 480 819, 990 985, 007 120, 250 223, 300 1, 700 116, 850 12, 775 66, 670	82 Menha caug Barra 13, 245, 325, 66, 1,444, 501, 1444, 501, 145, 98, 98, 19, 33,	2,71 hden ht. 030 469 727 460 456 693 323 198 499 886 515 642	Oil 1 Gal 2 2 6 4 2 2 1 1 1 1 2 0 6 4 2 2 2 2 2 2 2 2 2 2 2 2	1, 756 nade. <i>Jons.</i> 50, 400 50, 100 50, 505 50, 700 50, 505 50, 700 50, 505 50, 700 50, 505 50, 700 50, 700 50, 505 50, 700 50, 700	4, 475	67 pre- 3. 971 590 620 000 933 210 123 545 505 515 875 300 129	Total value of products. 221, 769 223, 364 253, 364 255, 205 70, 755 1, 114, 158 542, 008 146, 286 98, 340 941 116, 750 11, 85 31, 600 303, 829
1886 Massachusetts: 1880 1886	Sail 7 Number. 43 6 53 8 117 22 30 24 3	Value. \$8,900 29,550 4,500 25,950 3,050 121,750 29,450 32,400 24,500 2,900	1tal in- vested. \$179, 105 304, 300 393, 780 103, 480 819, 990 985, 097 120, 250 223, 300 1, 700 116, 850	82 Menha caug Barra 13, 245, 325, 66, 1, 444, 501, 145, 93, 2, 98,	2,71 hden ht. 030 469 727 460 456 693 323 198 499 886 515 642	Oil 1 Gal 2 2 6 4 2 2 1 1 1 1 2 0 6 4 2 2 2 2 2 2 2 2 2 2 2 2	1, 756 1, 756 1, 756 1, 756 1, 756 1, 756 1, 755 1, 025 1, 755 1, 025 1, 755 1, 025 1, 755 1, 025 1, 025	4, 475	67 1 971 590 620 000 933 210 123 545 650 15 875 300	Total value of products. \$61, 769 221, 748 253, 364 256, 205 70, 755 1, 114, 158 542, 008 146, 286 98, 340 941 116, 750
1886	Sail v Number. *23 43 6 53 8 117 22 30 24 3 14 101	Value. \$8,900 20,550 4,500 25,950 3,050 121,750 29,450 32,400 24,500 25,600 87,200	1tal in- vosted. \$179, 105 304, 300 393, 780 392, 370 103, 480 819, 990 985, 007 120, 250 223, 300 1, 700 116, 850 12, 775 06, 670 222, 104	82 Menha caug Barra 13, 245, 325, 66, 1, 444, 501, 145, 98, 2, 98, 19, 33, 441, 522,	2,71 hden ht. 030 469 727 460 456 693 323 198 499 886 515 642	Oil 1 Gal (27 64 22 24 13 1, 18 20 24 20 24 20 25	1, 756 nade. <i>Jons.</i> 50, 400 50, 100 50, 505 50, 700 50, 505 50, 700 50, 505 50, 700 50, 505 50, 700 50, 700 50, 505 50, 700 50, 700	4, 475 Scrap pared Tons 1, 10, 5, 9, 1, 32, 12, 4, 2, 2, 1, 10, 13, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	67 pre- 3. 971 590 620 000 933 210 123 545 505 515 875 300 129	Total value of products. 221, 769 223, 364 253, 364 256, 205 70, 755 1, 114, 158 542, 008 146, 286 98, 340 98, 340 941 116, 750 11, 85 31, 600 303, 829
1886	Sail v Number. +23 	Value. \$8,900 20,550 4,500 25,950 3,050 121,750 29,460 32,400 24,500 2,900 25,600 87,200 238,500	1tal in- vested. \$179, 105 304, 300 393, 780 392, 370 103, 480 819, 990 985, 007 129, 250 223, 300 1, 700 116, 850 12, 775 66, 670 222, 164 863, 615	82 Menha caug Barra 13, 245, 325, 66, 1, 444, 501, 145, 98, 2, 98, 19, 33, 441, 522,	2,71 aden ht. els. 030 469 727 460 456 603 323 198 499 886 515 642 069 623 787	Oil 1 Gal 27 64 28 1,16 1,06 20 20 20 20 21 4 4 20 51	1, 756 nade. <i>Jons.</i> 50, 400 70, 482 51, 334 56, 300 34, 878 86, 682 55, 130 37, 747 90, 164 4, 878 4, 878 86, 682 55, 130 37, 747 90, 164 4, 975 11, 025 93, 760 12, 023	4, 475 Scrap pared Tons 1, 10, 5, 9, 1, 32, 12, 4, 2, 1, 1, 10, 13, 1,	67 DFC- 1 971 971 500 620 000 983 210 123 545 650 15 545 650 15 545 650 123 273 801 277 801	Total value of products. 221, 769 223, 364 256, 205 70, 755 1, 114, 158 542, 008 146, 286 98, 340 941 116, 750 11, 85 31, 600 303, 829 355, 500

* These vessels were owned in Massachusetts, but the majority of them were engaged in fishing for factories in Rhode Island and New York.

TABLE XV.—Average catch, by years, of vessels of Maine employed in the cod-fisheries on Quereau, Western, and Grand banks.

•		•	Year.		•		Average catch per vessel.	Average catch per man.
							Pounds.* 136,701 142,548	Pounds.* 10,278 10,718
1885.	 			· · · · · · · · · · · · · · · · · · ·			225, 660 235, 441 237, 030	15, 780 15, 044 15, 441
1888.	 			•••••		••••••	243, 390	13, 415

*These figures represent the weight of the fish after being dried for market.

TABLE XVI.—Average catch, by years, of Gloucester vessels engaged in off-shore cod-fishery.

	George's o	od-fishery.	Grand, Quereau, and Western banks cod- fishery.		
Year.	Average catch per vessel.	Average catch per man.	Average catch per vessel.	Average catch per man.	
1879 1886 1886 1887 1888	Pounds.* 286, 182 226, 311 282, 065 245, 694 247, 967	Pounds.* 22, 073 19, 510 23, 328 20, 333 20, 808	Pounds.* 235, 444 350, 874 322, 879 366, 098 374, 251	Pounds.* 17, 904 26, 087 23, 569 24, 406 22, 308	

*These figures represent the weight of the fish as landed by the vessels before being dried for market.

TABLE XVII.—Average catch, by years, of vessels of Provincetown, Mass., employed in the cod-fisheries on Quereau, Western, and Grand banks.

	Year.		Average catch per vessel.	Average catch per man.
1885	·		Pounds.* 335, 655	Pounds.* 17. 087 *
1886 1887	 	••••••	831, 685 844, 005	17, 195 17, 903
1888	 		331, 450	15, 865

*These figures represent the weight of the fish after being dried for market.

TABLE XVIII.—American cod-fishery in the Gulf of St. Lawrence.

	Year.	•	Vessels.	Net tonnage.	Salt cod taken.	Value.
1885 1886 1887 1888			5 2 3 8	300. 58 127. 97 190. 40 190. 40	Pounds. 544, 320 250, 880 395, 600 816, 760	\$14, 350 6, 800 13, 177 12, 600

TABLE XIX.—Largest and average catch, by years, of vessels of Boston, Mass., engaged in the market fishery.

	Year.	Largest catch.	' Average catch.	Average stock.
1886 1887		1, 534, 000 1, 430, 000	Pounds. 782, 775 864, 737 875, 359 997, 683	\$11, 933 11, 820 16, 378 16, 965

TABLE XX.—Largest and average catch, by years, of vessels of Greenport, N. Y., engaged in the market fishery.

Year.	Largest	Average	Average
	catch.	catch.	stock.
1885 1886 1887 1888	Pounds. 257,000 353,500 284,770 287,000	Pounds. 201, 000 200, 552 185, 037 211, 950	\$7, 782 7, 167 6, 807 10, 811

TABLE XXI.—The vessel fishery of the Philadelphia customs district in 1887.

	Number.	Net ton- nage.	Value of vessels.	Value of appara- tus and outfit.		Value of products.		
						Oysters.	Fish.	Total.
PHILADELPHIA, PA.								
Vessels oystering Vessels fishing	48 4	1, 140. 68 112. 12	\$81, 161 7, 600	\$11, 365 2, 100	271 43	\$150, 819	\$15, 0 00	\$150, 819 15, 000
Vessels both oystering and fish- ing	4	122.31	13, 850	1, 550	37	19, 000	10, 200	29, 200
Total	56	1, 375.06	102, 611	15, 015	351	169, 819	25, 200	195, 019
CAMDEN, N. J.						н. 		
Vessels oystering Vessels fishing Vessels both oystering and fish-	29 	626. 49	59, 4 00	8, 675	150	94, 210		94, 210
ing	5	74. 83	3, 700	250	14		45, 950	45, 950
Total	34	701.32	63, 100	3, 925	164	94, 210	45, 950	140, 160
TOTALS FOR DISTRICT.						-		
Vessels oystering Vessels fishing Vessels both oystering and fish-	77 4	1, 767. 12 112. 12	140, 56 7, 600 .	15, 040 2, 100	421 43	245, 029	15, 000	245, 029 15, 000
Vessels transporting fish	4 5	122. 31 74. 83	13, 850 3, 700	1, 550 250	37 14	19, 000	10, 200 45, 950	29, 200 45, 950
Grand total	90	2, 076. 38	165, 711	18, 940	515	264, 029	71, 150	835, 179