

## 21.—A STATISTICAL REPORT ON THE FISHERIES OF THE MIDDLE ATLANTIC STATES.

### INTRODUCTORY NOTE.

The following report relating to the fisheries of the Middle Atlantic States is the last of a series of papers on the economic fisheries of the different geographical coast sections, emanating from the Division of Statistics and Methods of the Fisheries of this Commission. The regions previously covered by printed reports were the New England States, the Pacific States, the Gulf States, and the South Atlantic States, in the order named.

As was the case with the previous similar reports, the present article is based entirely on original field inquiries carried on by agents of the Commission. The investigations were conducted during parts of the fiscal years 1891, 1892, and 1893, and the statistics and other information obtained relate to the calendar years 1889, 1890, and 1891, and, in part, to 1892. The canvass of New York was assigned to Messrs. H. M. Smith, E. E. Race, and W. A. Wilcox. The fisheries of New Jersey were covered by Messrs. H. M. Smith, Ansley Hall, and E. E. Race. Pennsylvania was visited by Messrs. C. H. Stevenson and E. E. Race. The waters of Delaware, tributary to Chesapeake Bay, were canvassed by Mr. Race; the remainder of the State by Mr. Stevenson. The agents reporting on Maryland and Virginia were Messrs. W. A. Wilcox, T. M. Cogswell, H. M. Smith, C. E. Ingersoll, C. H. Stevenson, Ansley Hall, and E. E. Race. The special sections of these States investigated by each agent will be found recorded in my annual reports for the fiscal years 1891, 1892, and 1893.

The commercial fisheries of these States are more important than those of any other section in the United States in the items of persons engaged in the industry and the value of products. The capital invested in the fisheries is, however, much less than in the New England States. The returns for the last year covered by the statistics show that 90,923 persons found employment in the different branches of the industry; \$19,318,664 was the value of the vessels, boats, apparatus, and other property used, and \$19,023,474 was the value of the products to the fishermen.

The special fisheries which in the Middle Atlantic region are noticeably important and surpass in value those of all other regions combined are the alewife, bluefish, sea bass, shad, Spanish mackerel, squeteague, striped bass, white perch, yellow perch, clam, crab, terrapin, and oyster. The oyster fishery alone is worth \$12,400,000, or more than one-fourth the value of the entire fishing industry of the United States, and more than that of the combined fisheries of the New England States. Next to the oyster in prominence is the shad, with a value of \$1,216,000.

The report has been prepared by Dr. Hugh M. Smith, assistant in charge of the division. In the elaboration and compilation of the field agents' returns he has been aided by Mr. Charles H. Stevenson, principal office assistant, Mr. S. L. Pritchard, and other members of the divisional force.

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# A STATISTICAL REPORT ON THE FISHERIES OF THE MIDDLE ATLANTIC STATES.

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## GENERAL CONSIDERATIONS.

*Geographical features of the region.*—The group of coast States embraced by the title of this paper consists of New York, New Jersey, Pennsylvania, Delaware, Maryland (including District of Columbia), and Virginia. The Middle Atlantic States are sometimes regarded as including only the four States first named, but from the standpoint of the commercial fisheries the inclusion of Maryland and Virginia with the others mentioned and their exclusion from the group of States lying further to the south, are not only proper but are fully warranted by numerous considerations. While it is true that the fisheries of Maryland and Virginia have certain features that resemble those of North Carolina and other States of the South Atlantic seaboard, by far the strongest affiliations and resemblances are with the Middle Atlantic region.

These States have an area of 159,700 square miles, or about the same as Great Britain and Ireland, Denmark, Holland, and Belgium combined. The land area is 152,065 square miles and the water area 7,635 square miles. New York has the greatest land area, but Maryland, next to the smallest of the States, has relatively and actually the largest water area; this amounts to 2,350 square miles, or about 20 per cent of the total surface. The water areas subject to the jurisdiction of the several States are as follows:

States.	Square miles.
New York .....	1,550
New Jersey .....	360
Pennsylvania .....	250
Delaware .....	90
Maryland (including District of Columbia) .....	2,360
Virginia .....	2,325
Miscellaneous (unassigned waters in Delaware, lower New York, and Raritan bays) .....	720
Total .....	7,635

The length of the coast line of this section, following the indentations of the bays and including both sides of the rivers to the limits of commercial fishing, is approximately 5,400 miles. The extreme northern and southern points on the coast of these States, however, are only 340 miles apart in an air line.

This region had a population in 1890 more than one-fourth that of the entire country, namely, 15,798,055, while the counties having a frontage on the salt and fresh waters of the section and maintaining economic fisheries had a population of nearly one-eighth that of the United States, namely, 7,685,220.

This section is indented by three bays, which are among the largest on the coast of the United States and are extremely important in connection with the fisheries; these are New York Bay (with its several tributary bays), Delaware Bay, and Chesapeake Bay, which have a combined area of about 3,720 square miles. Into these bodies of water all the important rivers of the region drain; these are the Hudson, Delaware, Susquehanna, Potomac, Rappahannock, and James.

*Scope and aims of the report.*—The inquiry on which this report is based disclosed no very marked changes in the methods of conducting the fisheries of this region since the publication of the very full discussion of the subject in the Fisheries and Fishery Industries of the United States, relating primarily to the years 1879 and 1880. The chief purpose of this paper, therefore, is to show the condition and extent of the industry by means of detailed statistics. Noteworthy changes in methods of fishing, abundance of species, etc., will be referred to in the explanatory text for each State.

The paper is based on field investigations carried on during the fiscal years 1891, 1892, and 1893 by the agents of the division of statistics and methods of the fisheries of this Commission. The information has been obtained by the personal inquiries of the agents, and the statistics represent actual records of fishermen, fish dealers, and transportation agencies whenever such records were available. The statistical canvass was addressed principally to the calendar years 1889, 1890, and 1891, and the figures for New York, Maryland, and Virginia in the accompanying tables relate to those years; but owing to the lateness of the field inquiries in New Jersey, Delaware, and Pennsylvania it was possible to secure data for those States for the year 1892.\*

The investigations of the river fisheries of this region were carried as far up the streams as commercial fishing existed. Thus the Hudson River was canvassed to Stillwater, N. Y.; the Delaware to Shawnee, N. J.; the Susquehanna to Columbia, Pa.; the Potomac to Washington, D. C.; the Rappahannock to Port Royal, Va.; the James to Richmond, Va.

Whenever available, records have been consulted in ascertaining the quantity and value of the catch, and in the case of a very large proportion of the professional fishing the figures presented may be regarded as being as nearly correct as it is possible to obtain. On the other hand, in the case of the semiprofessional fishing, especially that carried on in the upper courses of the rivers, it is the exception to find fishermen who keep a record of their catch, and in order to determine the approximate output of the various kinds of fishes taken it is often necessary to follow up very slight clues. A certain proportion of the fishermen know how much their fish sold for, and with this item as a basis the agents can, by judicious questioning, prepare a fairly accurate statement of the quantity of the yield, although the separation of the catch into species involves elements of uncertainty which must always render a fishery census of these minor fisheries unsatisfactory.

The statistical matter to be presented consists (1) of general condensed tables showing by States the extent of the fishing industry in the entire region, (2) of detailed tabulations for each State by counties, (3) of a series of statements giving the extent of some of the more important fisheries, and (4) of comparative statistics by States for 1880 and 1891.

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\* A paper on the statistics of the fisheries of the United States, embracing the region under discussion, was presented by the writer to the World's Fisheries Congress, convened at Chicago in October, 1893, and was published in the Bulletin of the U. S. Fish Commission for the same year. The figures therein contained, which were provisional, will be found to differ in some slight respects from those given in the present report, which is to be regarded as final.



In order to show the aggregate weight of the products of the fisheries, it has been necessary to reduce to the common unit of pounds certain articles which are not ordinarily sold on that basis, among these being oysters, clams, scallops, and crabs. In the case of mollusks, the quantities given in the tables represent the weights of the edible parts of those animals; thus, with oysters, round clams, long clams, and scallops, the weight of the meat and liquor is taken into consideration, while with scallops only the "eye" or "heart" is shown. The weights assigned to a bushel of each of these shellfish are 7 pounds to oysters, 8 pounds to round clams, 10 pounds to long clams and mussels, and  $4\frac{1}{2}$  pounds to scallops. The common edible crab is regarded as having an average weight of one-third of a pound; the horseshoe or king crab is rated at 2 pounds.

*Nature of the fisheries and fishery resources.*—The Middle Atlantic States have the distinction of maintaining more valuable fisheries than are carried on in any other region of the United States. The fishing population is about as numerous as that in all the other coast and lake States combined. The number of vessel fishermen, of shore and boat fishermen, and of factory hands and other shore employés is larger than in any other geographical division.

The aggregate value of the investment in fishing property is less than in the New England States. This is largely due to the relatively expensive class of vessels employed in the latter region. In the items of seines, fyke nets, oystering apparatus, number of vessels, and number of boats, the Middle Atlantic States take first rank.

The value of the fisheries, which affords the best basis for determining the importance of the industry, is much greater in this region than in any other, being one and a half times that of the next prominent section, New England.

Among especially prominent features of these fisheries are the very large fleet of small vessels, chiefly schooner and sloop rigs, engaged in taking oysters; the extensive use of pound nets, fyke nets, gill nets, and seines in the bays and rivers; the numerous small boats employed for oysters and clams; the employment of steam and sail vessels in the capture of menhaden, and the very valuable shore industries dependent on the oyster and menhaden fisheries.

Features of the fishing industry of the Middle Atlantic region which contrast very strongly with that of the geographical section adjoining on the north are the general unimportance of the food-fish industries carried on with vessels and the practical absence of any fishing on the high seas. Only in New York is the use of vessels for the capture of food-fish important, and only in New Jersey are the operations of the shore fishermen noticeably extensive on the ocean grounds beyond jurisdictional limits. It is estimated that fully 90 per cent of the value of the fishery products of this section is from waters within the control of the States.

The waters of this region are perhaps more remarkable for the great abundance of the important fishery objects there found than for an especially large variety of desirable fish and other animals, such as is present on the coasts of the Gulf and Pacific States. While some seventy fishes of recognized food value occur regularly on the ocean shores, in the bays, or in the rivers of the region, and while the number of invertebrate and other aquatic products is not small, the great prominence which the fishing industry of these States has attained may be said to depend on two products, namely, the shad and the oyster, which are here more abundant and valuable than in all the remainder of the country combined.

The following list embraces all the important food and bait fishes of this region, as well as some others that are of considerable value during certain years. The more acceptable common names are given, the local names employed in the different States are shown, and the scientific identifications are added for accuracy.

*Common and scientific names of the important fishes of the Middle Atlantic States.*

Common names.	Local names.	Scientific names.
Albacore; Little tunny.....	Albacore..... Applecore, N. J. Horse-mackerel, Va.	Gymnosarda alletterata.
Alewife; River herring.....	Alewife..... Glut herring, Potomac River. Herring. Summer herring.	Clupea vestivalis.
Alewife; River herring.....	Alewife..... Branch herring, Potomac River. Herring.	Clupea pseudoharengus.
Bluefish.....	Bluefish..... Greenfish, Md., Va. Horse-mackerel, N. Y. Mackerel, N. J. Salt-water tailor, Md., Va. Skipjack, Md. Skip mackerel, N. Y. Snap mackerel, N. J. Snapping mackerel, N. J. Snapper, N. J. Tailor, Md., Va. Whitesfish, N. Y.	Pomatomus saltatrix.
Bonito.....	Bone-eater, N. J. Bonejack, N. J. Bonito. Skipjack.	Sarda sarda.
Brier ray; Prickly ray.....	Bob-tailed skate, N. J..... Prickly skate, Md.	Raja eglanteria.
Butter-fish.....	Butter-fish..... Dollar-fish, N. J. Harvest-fish, N. J., Md., Va. Starfish, Va.	Stromateus paru.
Carp.....	Carp.....	Cyprinus carpio.
Catfish, channel.....	Black cat..... Channel cat. Schuylkill cat, Pa.	Ameiurus albidus.
Catfish, common; Bullhead.....	White cat. Bullhead..... Mud cat. Yellow cat.	Ameiurus nebulosus.
Cero; Kingfish.....	Cero..... Kingfish. Searer, N. J. Searing, N. J. Sier, N. J.	Scomberomorus regalis.
Cobia; Crab-eater.....	Bonito, Chesapeake Bay..... Coalfish, Chesapeake Bay.	Elacate canada.
Cod.....	Cod.....	Gadus morrhua.
Conger eel.....	Conger eel..... Sea eel.	Leptocephalus conger.
Croaker.....	Croaker..... Crocus, Chesapeake Bay. Grumbler, Potomac River.	Micropogon undulatus.
Cunner; Chogset.....	Bengall, N. J. Burgall, N. Y. Gall, N. J.	Ctenolabrus adspersus.
Drum, black.....	Banded drum (young)..... Black drum.	Pogonias cromis.
Drum, red.....	Drum..... Red drum.	Sciaen ocellata.
Eel.....	Eel.....	Anguilla chrysa. Paralichthys dentatus.
Flounder, summer; Plaice.....	Chicken halibut, Chesapeake Bay. Flatfish. Flounder. Fluke, N. J. Plaice. Splaiice, N. J.	
Flounder, winter.....	Flatfish..... Flounder. Winter flounder.	Pseudopleuronectes americanus.
Haddock.....	Haddock.....	Melanogrammus æglifinus.
Hake.....	Hake..... Ling, N. J.	Phycis chuss, P. tennis.
Halibut.....	Halibut.....	Hippoglossus hippoglossus.

Common and scientific names of the important fishes of the Middle Atlantic States—Continued.

Common names.	Local names.	Scientific names.
Hickory shad.....	Autumnal herring, Md..... Fresh-water tailor, Potomac River. Greenback, N. Y. Herring, N. J. Hick, Chesapeake Bay. Hickory jack. Hickory shad, Chesapeake Bay. Shadine, N. J. Tailor shad, Potomac River.	Clupea mediocris.
Kingfish.....	Barb, N. J..... Black mullet, Chesapeake Bay. Hake, N. J., Del. Kingfish. Sea mullet, Va.	Menticirrhus nebulosus.
Mackerel.....	Boston mackerel, N. J.....	Scomber scombrus.
Menhaden.....	Mackerel. Alewife, Del., Md., Va..... Bay alewife, Chesapeake Bay. Bugfish, Va. Bughead, Va. Bug shad, Va. Bunker, N. J., Chesapeake Bay. Chebang, N. J. Greentail. Marshbunker, N. J. Menhaden. Moss bunker, N. Y. Oldwife, Va. Pilcher, Va.	Brevoortia tyrannus.
Moonfish.....	Angol-fish..... Moonfish. Porgee.	Chaetodipterus faber.
Mullet, striped.....	Fatback, Va..... Jumping mullet, Va. Mullet.	Mugil cephalus.
Pigfish.....	Striped mullet. Grunt, Chesapeake Bay..... Hogfish, Chesapeake Bay. Speckled redmouth, Chesapeake Bay.	Pomadysys fulvomaculatus.
Pike; Chain pickerel.....	Pickerel.....	Lucius reticulatus.
Pike; Banded pickerel.....	Pike. Pickerel..... Pike. Brook pickerel, Hudson River. Ditch pike, Delaware River.	Lucius americanus.
Pollock.....	Pollock.....	Pollachius virens.
Pompano.....	Pompano.....	Trachinotus carolinus.
Redhorse.....	Sunfish, Va. Large-scaled sucker..... Mullet. Mullet sucker, Potomac River. Redhorse. Red mullet, Potomac River.	Moxostoma macrolepidotum.
Salmon.....	Salmon.....	Salmo salar.
Scup.....	Fair maid, Va..... Porgy, N. Y., N. J. Sea porgy, N. J.	Stenotomus chrysops.
Sea bass.....	Black bass, Va..... Blackfish. Black will, Chesapeake Bay. Black perch, Md. Black nell, Md. Sea bass.	Serranus atrarius.
Sea-robin.....	Flying-fish, N. J., Va..... Pigfish, N. J. Sea robin.	Prionotus strigatus, P. pal- mipes.
Shad.....	Shad.....	Clupea sapidissima.
Sheepshead.....	Sheepshead.....	Archosargus probatocephalus.
Skate, smooth; Barn-door skate.....	Smooth skate.....	Raja levis.
Smelt.....	Smelt.....	Osmerus mordax.
Spanish mackerel.....	Bay mackerel, Chesapeake Bay.. Spaniard, N. J. Spanish mackerel.	Scomberomorus maculatus.
Spot.....	Cape May goody, N. J..... Croaker, Md. Crocus, Md. Goody, N. J. Lafayette-fish, N. Y. Porgy, N. J. Ronch, Va. Spot.	Leiostomus xanthurus.

## Common and scientific names of the important fishes of the Middle Atlantic States—Continued.

Common names.	Local names.	Scientific names.
Squeteague, spotted .....	Salmon trout, Va. .... Spotted sea trout, Chesapeake Bay. Trout.	<i>Cynoscion nebulosus</i> .
Squeteague; Weakfish .....	White trout, Va. Bluefish, N. Y., N. J., Del., Md., Va. Chickwit, N. Y. Gray trout, Va. Salt-water trout, Chesapeake Bay. Sea trout, Chesapeake Bay. Squeteague. Trout, Chesapeake Bay. Weakfish.	<i>Cynoscion regalis</i> .
Striped bass .....	Rock .....	<i>Roccus lineatus</i> .
Sturgeon .....	Rockfish. Striped bass. Mamoose, Delaware River .....	<i>Acipenser sturio oxyrhynchus</i> .
Sucker, black .....	Moose (young), N. J. Sturgeon. Black sucker, Md., Va. ....	<i>Catostomus nigricans</i> .
Sucker, brook .....	Mud sucker, Md. Mullet. Sucker.	<i>Catostomus commersoni</i> .
Tautog .....	Fine-sealed sucker .....	
	Mud sucker, Md. Sucker. Blackfish .....	<i>Tautoga onitis</i> .
	Chub, N. J., Va. Moll, Va. Salt-water chub, ' Chesapeake Bay. Smooth blackfish, N. J. Sea-tog, N. J. Tautog. Will George, Va.	
Tomcod .....	Frostfish .....	<i>Microgadus tomcodus</i> .
White perch .....	Tomcod. Black perch, N. J. ....	<i>Morone americana</i> .
Yellow perch .....	Perch. White perch. Yellow perch, N. J.	<i>Perca flavescens</i> .
Yellow-tail .....	Perch. .... Yellow nod, Md. Yellow perch. King William perch, Va. ....	
	Silver perch, N. J. White perch, N. J., Md.	<i>Bairdiella chrysura</i> .

The principal molluscan resources of this region are the oyster (*Ostrea virginica*), the quahog, round clam or hard clam (*Venus mercenaria*), the soft clam or long clam (*Mya arenaria*), the mussel (*Mytilus edulis*), the scallop (*Pecten irradians*), the "jingle" (*Anomia ephippium*), the "quarter deck" (*Crepidula fornicata*), and the squid (*Loligo pealei*). The scallop and two shells employed in oyster planting, the "jingle" and "quarter deck," are taken only in New York, but the other mollusks are found in all the other States having frontage on salt water, although all except the oyster are somewhat more abundant in the more northern States of the section.

The economic crustaceans of this region are the lobster (*Astacus americanus*), the king crab or horseshoe crab (*Limulus polyphemus*), the common blue crab (*Callinectes hastatus*), the shrimp (*Crangon vulgaris*), and crawfishes (*Cambarus*). The lobster is restricted to the coast waters of the States north of Maryland, and the crawfishes are taken only in Maryland and Virginia, but the other crustaceans named are generally distributed throughout the Middle Atlantic region.

The reptilian resources of these States include the diamond-back terrapin (*Malaclemmys palustris*), the slider or red-bellied terrapin (*Pseudemys rugosa*), the bullfrog (*Rana catesbiana*), and several sea turtles.

## CONDENSED STATISTICS.

The statistical aspect of the fisheries of the Middle Atlantic States is shown in a general way in the following series of tables. These tabulations make it possible to ascertain at a glance the relative importance of the fishing industry in each State as compared with the entire region and with each of the other States, and are preliminary to the very detailed statistics which are afterwards presented. The general tables which are given pertain to the persons engaged; the apparatus, vessels, boats, etc., employed, and the quantity and value of the catch, viewed from several standpoints.

It appears that of the 90,923 persons employed in the fishing industry of this region in 1891, 15,213 were vessel fishermen, 54,906 were shore and boat fishermen, 2,500 were carriers of fishery products, and 18,304 were shore help, factory hands, etc. Considerably more than two-fifths of the fishery employes, viz, 39,944, were in Maryland and nearly one-fourth, namely, 23,591, were in Virginia. The order of rank of the other States was New York, New Jersey, Pennsylvania, and Delaware.

*Persons engaged in the fisheries of the Middle Atlantic States.*

States.	Vessel fishermen.	Shore fishermen.	Trans-porters.	Shores-men.	Total.
New York.....	2,250	7,858	96	2,042	12,246
New Jersey.....	2,017	7,889	201	532	10,639
Pennsylvania.....	348	1,631	5	289	2,273
Delaware.....	103	1,053	43	491	2,230
Maryland (including District of Columbia)	6,892	19,867	1,450	11,735	39,944
Virginia.....	3,603	16,008	705	3,275	23,591
Total.....	15,213	54,906	2,500	18,304	90,923

The money invested in this industry was \$19,318,664, of which Maryland is credited with \$7,466,718, New York with \$5,283,200, Virginia with \$2,948,659, New Jersey with \$2,467,865, Pennsylvania with \$944,140, and Delaware with \$208,082. The factors entering most conspicuously into this large amount are vessels, boats, shore property, and working capital.

No less than 3,169 vessels of over 5 tons register were engaged in the actual taking of fishery products, and 758 others were employed exclusively in transporting the catch. This fleet was valued, with the outfits, at \$4,701,818, and its tonnage was 68,714. Over 1,625 of the vessels were in Maryland and about 945 in Virginia, the other four States having 1,356.

Boats to the number of 32,824, valued at \$1,889,138, exclusive of those constituting a part of the vessels' equipment, were used. Of these 9,825 were in Maryland, 9,247 in Virginia, 6,227 in New York, 5,742 in New Jersey, and 1,783 in Pennsylvania and Delaware.

The various kinds of property used on shore in connection with the business, such as factories, fish-houses, reels, etc., had a value of \$5,863,606. Maryland, owing chiefly to its extensive and numerous oyster-packing establishments, had the largest share in this amount, \$2,446,327 being thus credited; New York followed, with \$1,794,969, and Virginia with \$717,787. The working or cash capital required to properly conduct the fishing industry was \$5,140,955. This is a somewhat uncertain though very important item, which may be viewed in several different ways, and varies with the method of consideration. As here regarded, it is the amount of ready money which must be kept by fishery operators, wholesale purchasing agents, and factory owners in order to meet the current demands for fish, wages, materials, etc.

This element is largest in Maryland and New York, and smallest in Virginia, of the four States having a noticeably large fishery investment.

Foremost in value among the appliances used in the capture of fishery products are the gill nets; 30,158 of these were employed in 1891, with a value of \$419,722, these figures including a few trammel nets, which are structurally gill nets. Maryland leads in the number of gill nets, but New Jersey takes precedence in the value of such nets; and while Virginia leads New York in the number of nets, the latter State surpasses in value.

The dredges, scrapes, rakes, tongs, and forks used mostly in the extensive molluscan fisheries together had a value of \$474,304, a sum representing 51,578 such appliances. In the vessel fisheries, 8,875, valued at \$235,071, were employed; and in the boat fisheries 42,703, valued at \$239,233. The investment of Maryland in these items was \$198,920.

Pound nets, trap nets, and weirs constitute an important class of fishing appliances, which is represented in every State except Pennsylvania and is prominent in New York, New Jersey, Maryland, and Virginia. The number of such nets was 2,414, having a value of \$365,783, of which 1,005, worth \$71,778, were in Maryland, and 941, worth \$166,990, were in Virginia. In New York, 90 traps, valued at \$32,350, were operated from small vessels.

Haul and purse seines, to the number of 1,808, were fished in this region, the former being well distributed among all the States, while the latter are chiefly in New York and Virginia. The value of all seines was \$278,230.

The number and value of other important kinds of apparatus used in these States were as follows: Fyke and bag nets, 21,736, \$125,565; pots, 27,214, \$27,722; lines, \$23,310; miscellaneous appliances, including spears, dip nets, etc., \$8,511.

*Vessels, boats, apparatus, shore property, and cash capital employed in fisheries of the Middle Atlantic States.*

Designation.	New York.		New Jersey.		Pennsylvania.	
	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	618	\$773,442	524	\$541,520	47	\$84,900
Tonnage.....	8,496		7,883		1,194	
Outfit.....		168,388		122,433		19,410
Vessels transporting.....	41	44,100	83	108,150	2	2,875
Tonnage.....	790		1,437		26	
Outfit.....		5,710		13,255		110
Boats.....	6,227	373,070	5,742	412,373	837	30,652
Apparatus—vessel fisheries:						
Seines.....	69	39,850	12	6,100		
Trap nets.....	90	32,350				
Lines, hand and trawl.....		8,870		370		206
Eel pots.....	90	248	40	20		
Lobster pots.....	490	1,137	230	225		
Dredges, rakes, and tongs.....	1,860	43,322	2,032	44,251	143	5,035
Apparatus—shore fisheries:						
Seines.....	258	35,790	360	31,922	151	19,405
Gill nets and trammel nets.....	6,402	88,450	3,983	129,832	209	21,450
Pound nets and weirs.....	173	38,090	185	55,370		
Fyke nets and bag nets.....	6,246	55,465	1,692	18,881	2,534	5,264
Lines.....		2,875		4,808		427
Eel pots.....	13,568	13,074	3,760	3,901		
Lobster pots.....	1,750	2,332	725	1,103		
Spears.....	3,489	3,728	210	404		
Dredges and scrapes.....	4,872	43,200	1,184	8,334		
Tongs and forks.....	6,987	33,390	3,474	15,025		
Minor apparatus.....		250		487		494
Shore and accessory property.....		1,794,900		409,561		450,182
Cash capital.....		1,679,000		538,850		303,750
Total.....		5,283,200		2,467,865		944,140

Vessels, boats, apparatus, shore property, and cash capital employed in fisheries, etc.—Continued.

Designation.	Delaware.		Maryland.*		Virginia.		Total.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	25	\$21,525	1,225	\$876,705	730	\$498,440	3,180	\$2,796,532
Tonnage .....	304		21,033		0,087		47,097	
Outfit .....		3,390		331,700		169,923		815,293
Vessels transporting .....	16	13,250	402	570,150	214	241,695	758	980,220
Tonnage .....	224		13,150		5,084		20,717	
Outfit .....		1,975		50,085		29,068		109,803
Boats .....	940	20,233	0,325	579,488	9,247	463,722	32,824	1,889,138
Apparatus—vessel fisheries:								
Seines .....			15	8,450	41	25,050	137	80,050
Trap nets .....							90	32,350
Lines, hand and trawl .....						30		9,476
Bel pots .....								130
Lobster pots .....								720
Dredges, rakes, and tongs .....	110	2,110	2,913	115,001	1,827	24,692	8,875	235,071
Apparatus—shore fisheries:								
Seines .....	203	10,263	521	68,330	178	32,470	1,671	198,180
Gill nets and trammel nets .....	1,586	33,946	11,939	100,014	5,979	46,030	30,158	419,722
Pound nets and weirs .....	20	305	1,005	71,778	941	106,990	2,324	353,433
Fyke nets and bag nets .....	567	1,261	10,358	38,924	339	5,770	21,736	125,565
Lines .....		20		2,272		3,432		13,834
Bel pots .....	1,775	784	4,036	4,013	110	95	23,849	22,467
Lobster pots .....	40	100					2,515	3,625
Spears .....	170	85				15	10	3,590
Dredges and scrapes .....			2,063	10,509	198	4,040	8,322	66,683
Tongs and forks .....	243	522	12,921	72,750	10,750	50,263	34,381	172,550
Minor apparatus .....		113		2,498		442		4,284
Shore and accessory property .....		44,800		2,446,327		717,787		5,863,606
Cash capital .....		44,400		2,107,455		407,500		5,140,953
Total .....		208,082		7,400,718		2,948,659		19,318,664

\* Includes District of Columbia.

The yield of the fisheries of this region was 590,454,369 pounds, having a first value of \$19,023,474. The quantity given includes only the net weights of shellfish. Owing to the large catch of a comparatively cheap fish (menhaden) in New York and Virginia, the quantity of products there taken was considerably larger than in Maryland, the fisheries of which were far more valuable. The table shows that the fisheries of the latter State were worth \$6,460,759, those of New York \$4,817,369, those of Virginia \$3,647,845, those of New Jersey \$3,520,057, those of Pennsylvania \$322,021, and those of Delaware \$255,423.

Products of the fisheries of the Middle Atlantic States.

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	2,104,560	\$23,526	2,066,820	\$14,260	2,331,775	\$13,440
Black bass .....			0,250	1,166	22,885	2,368
Bluefish .....	5,506,575	237,010	7,227,026	284,183		
Bonito .....	1,750	150	150,033	0,857		
Butter-fish .....	837,246	12,988	230,802	6,582		
Carp .....			2,000	160	3,800	199
Catfish .....	117,180	5,144	193,824	8,265	182,408	6,223
Cod .....	2,277,458	89,921	841,011	26,001		
Drum .....			124,240	980		
Eels .....	1,616,213	97,999	623,280	38,594	40,950	2,174
Flounders .....	1,501,698	45,231	987,895	33,620		
Frostfish or tomcod .....	278,400	10,468		42		
Haddock .....	147,730	3,890	17,040	675		
Kingfish .....	157,541	10,792	33,097	2,298		
Mackerel .....			25,117	2,316		
Menhaden .....	104,800,114	295,005	20,070,542	56,974		
Mullet .....	100,000	7,878	88,350	4,902		
Perch, white .....	41,209	2,037	193,724	13,539	6,020	341
Perch, yellow .....	46,916	3,692	500,238	27,219	12,625	674
Pike .....	8,215	740	19,485	1,004	4,975	697
Scup .....	350,858	7,016	25,082	855		
Sea bass .....	679,180	35,915	3,731,538	147,083	947,500	33,805
Shad .....	3,044,956	161,209	10,225,455	443,438	2,692,864	128,274
Sheepshead .....	19,523	3,500	20,290	4,013		
Skates .....	101,897	2,022	7,050	353		
Spanish mackerel .....	74,836	7,255	78,391	12,620		

## Products of the fisheries of the Middle Atlantic States—Continued.

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Spots and croakers	17,501	\$700	106,680	\$4,521		
Squeteague	2,852,653	111,301	6,002,563	201,515		
Striped bass	205,449	21,389	208,104	43,206	24,615	\$2,406
Sturgeon	30,261	929	452,630	10,610	52,700	640
Suckers	25,378	1,545	56,680	4,008	42,550	2,115
Tautog	171,172	7,618	99,437	3,894		
Other fish	236,991	8,028	167,320	3,684	84,230	4,236
Refuse fish	1,118,913	2,733				
Oysters	18,277,434	2,748,509	16,114,567	1,639,648	1,183,700	124,420
Soft clams or long clams	1,505,500	105,891	827,000	47,700		
Quahogs or hard clams	4,524,520	650,621	3,454,024	371,933		
Scallops	313,042	48,340				
Mussels	21,000	900	6,000	200		
Squid	40,836	1,633				
Shells	16,706,100	15,950				
Crabs, hard	435,566	7,589	230,111	0,499		
Crabs, soft	93,500	3,450	289,500	35,380		
Lobsters	165,093	15,655	165,664	12,403		
Shrimp			1,200	600		
King crabs			2,798,980	7,534		
Terrapins			3,280	1,074		
Total	170,885,022	4,817,369	79,116,380	3,520,057	7,583,657	322,021

Species.	Delaware.		Maryland.*		Virginia.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	863,760	\$12,412	17,418,850	\$131,245	11,013,485	\$93,905	35,889,250	\$288,797
Black bass					7,000	430	39,135	3,904
Bluefish			516,364	22,761	1,842,264	67,545	15,003,129	591,479
Bonito							152,383	10,007
Butterfish			31,955	785	120,000	2,900	1,220,003	23,255
Carp			27,628	780	13,370	576	46,798	1,715
Catfish	73,800	4,074	1,296,752	45,502	935,244	28,487	2,689,268	97,695
Cobia or crab-eater					195,250	4,948	195,250	4,948
Cod							3,118,400	115,922
Drum	30,000	380			179,502	4,011	333,742	5,371
Eels	223,500	8,967	792,044	32,919	71,610	2,907	3,367,606	183,560
Flounders	5,000	168	33,443	1,008	127,295	4,109	2,715,329	84,139
Frostfish or tomcod							279,800	10,510
Haddock							165,070	4,565
Kingfish	960	48			149,565	7,097	341,793	20,235
Mackerel							25,117	2,316
Menhaden	67,000	420	30,952,120	65,307	105,980,334	197,523	262,530,110	615,829
Mullet	38,900	1,125	101,540	2,974	110,700	2,736	499,550	19,615
Perch, white	212,945	14,113	1,109,273	57,038	290,813	12,010	1,862,884	99,678
Perch, yellow	42,910	2,026	1,885,352	48,040	160,020	6,760	2,157,061	88,450
Pike	24,950	1,548	563,264	35,201	12,415	705	639,304	40,945
Pompano					93,700	9,520	93,700	9,520
Scup							376,540	7,871
Sea bass			118,370	4,544	66,310	2,270	5,537,898	224,227
Shad	1,500,196	64,699	6,224,873	211,575	6,498,242	207,394	30,180,586	1,216,589
Sheepshead			3,185	396	23,871	1,344	72,866	9,253
Shates							108,947	2,375
Spanish mackerel			44,837	5,369	730,910	50,756	937,974	76,000
Spots and croakers	42,400	2,280	273,283	12,110	1,725,847	62,122	2,165,771	81,742
Squeteague	1,164,730	17,524	750,465	25,902	3,929,899	124,645	14,700,310	480,887
Striped bass	94,910	12,758	1,264,093	97,770	483,436	42,127	2,371,267	219,746
Sturgeon	1,304,800	30,448	72,445	2,343	723,646	21,364	2,636,482	66,343
Suckers	11,050	501	285,238	7,533	116,364	3,153	537,260	18,855
Tautog	8,000	320					278,609	11,832
Other fish	4,380	164	438,683	14,561	1,514,657	38,675	2,446,261	69,348
Refuse fish							1,118,913	2,733
Oysters	1,097,040	70,134	69,615,406	5,295,866	43,184,602	2,524,248	149,422,749	12,402,925
Soft clams or long clams							2,332,500	153,591
Quahogs or hard clams	21,920	2,094	147,760	8,226	559,278	30,030	8,707,502	1,068,904
Scallops							313,042	48,340
Mussels							27,000	1,100
Squid							40,836	1,633
Shells							16,706,100	15,950
Crabs, hard			2,776,898	37,460	2,308,071	32,683	5,750,646	87,231
Crabs, soft	86,250	4,713	4,828,872	266,256	585,956	29,379	5,884,078	339,178
Lobsters	8,200	410					338,957	28,528
Crawfish			7,350	605	833	75	8,183	770
Shrimp	740,000	647	8,044	3,960			9,244	4,560
King crabs							3,538,980	8,181
Frogs					21,000	2,754	21,000	2,754
Terrapins	11,988	2,190	89,780	22,333	52,215	18,494	157,293	44,091
Turtles	18,000	1,200	4,000	231	189,121	3,934	211,181	5,425
Total	7,697,649	255,423	141,177,827	6,460,750	183,993,834	3,647,845	590,454,369	10,023,474

\* Includes District of Columbia.



The products of the fisheries of this region may be classified as general food-fish, mollusks, crustaceans, reptiles, and menhaden utilized for oil and guano. The extent of the fisheries for each of these classes is given in the following table, which shows that the yield of the molluscan fisheries was \$13,692,443; the general food-fish fisheries, \$4,194,484; the menhaden fishery, \$615,829; the crustacean fisheries, \$468,448; and the reptilian fisheries, \$52,270.

The mollusks are the most important products in all the States except Pennsylvania and Delaware, in which food-fish are most prominent. Maryland holds the first place in the value of mollusks and crustaceans, New Jersey leads in the value of its fisheries for fish proper; New York takes precedence in the value of its menhaden fishery, and Virginia occupies the first rank for reptilian fisheries.

*Classification of the products of the fisheries of the Middle Atlantic States.*

States.	General food-fish fisheries.		Oyster and other molluscan fisheries.		Crustacean fisheries.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
New York.....	23,882,317	\$923,226	41,448,432	\$3,571,844	694,159	\$26,694
New Jersey.....	34,555,512	1,337,052	20,401,501	2,059,481	3,485,455	65,476
Pennsylvania.....	6,399,957	107,601	1,183,700	124,420	.....	.....
Delaware.....	5,647,251	173,555	1,118,060	72,228	834,450	5,770
Maryland.....	32,747,547	760,425	60,763,166	5,304,092	7,621,164	308,371
Virginia.....	31,162,424	802,625	43,093,880	2,560,378	2,894,860	62,137
Total.....	134,394,098	4,194,484	177,609,729	13,092,443	15,530,088	468,448

  

States.	Reptilian fisheries.		Menhaden fishery.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
New York.....	.....	.....	104,860,114	\$295,605	170,885,022	\$4,817,369
New Jersey.....	3,280	\$1,074	20,670,542	56,974	79,116,380	3,520,057
Pennsylvania.....	.....	.....	.....	.....	7,583,657	322,021
Delaware.....	29,988	3,450	67,000	420	7,697,649	255,423
Maryland.....	93,840	22,564	30,952,120	65,307	141,177,827	8,460,759
Virginia.....	262,336	25,182	105,980,334	197,523	183,093,834	3,647,845
Total.....	389,444	52,270	262,530,110	615,829	590,454,369	19,023,474

Considerable general interest attaches to the relative quantities of fishery products destroyed or sacrificed by the different kinds of apparatus employed. In the following table the quantity and value of the catch with each principal class of appliances are shown, and in a supplementary table the facts disclosed by the first table are reduced to the basis of percentage. In every State, except Delaware, dredges, tongs, and other similar apparatus employed in taking shellfish are the most important means of capture. Of the remaining forms of apparatus, lines are the most prominent in New Jersey; seines in New York, Pennsylvania, and Maryland; gill nets in Delaware, and pound nets in Virginia.

Considering the entire region, the order of rank based on value of catch is (1) dredges, tongs, etc., (2) seines, (3) gill nets, (4) lines, (5) pound nets, trap nets, and weirs, (6) miscellaneous apparatus, (7) fyke nets, and (8) pots. The figures for seines, gill nets, pound nets, fyke nets, pots, and lines refer only to fish proper, while the crustaceans and other products taken with these appliances appear under miscellaneous apparatus.



Table showing the relative quantity and value of the products taken with each kind of apparatus in each State and the entire region as compared with the total quantity and value of the catch of each State and the entire region—Continued.

Apparatus.	Maryland.		Virginia.		Total.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Dredges, tongs, etc.....	49.41	82.10	23.75	70.19	30.07	71.97
Seines.....	30.55	5.04	57.00	7.79	47.11	7.50
Gill nets.....	6.07	3.36	2.64	3.42	5.70	6.09
Pound nets, traps, etc.....	6.29	2.50	12.96	12.96	8.58	4.67
Lines.....	.60	.55	1.75	2.88	4.43	5.27
Fyke nets.....	1.10	.94	.18	.35	.80	.89
Pots.....	.27	.25	[.002]	.01	.80	.51
Miscellaneous.....	5.62	5.20	1.72	2.40	2.92	3.10
Total.....	100.00	100.00	100.00	100.00	100.00	100.00

The relative value of each important fishery product in each State as compared with the entire region is exhibited in the following table, which brings out some interesting points. Cod, eels, flounders, soft clams, and hard clams, among the more prominent products, are taken in largest quantities in New York; bluefish, sea bass, shad, and squeteague in New Jersey; sturgeon in Delaware; alewives, catfish, white perch, yellow perch, striped bass, crabs, and oysters in Maryland; menhaden, spots and croakers, and Spanish mackerel in Virginia. Of the species of which more than half the catch in the entire region is taken in a single State, are cod, flounders, soft clams, and hard clams in New York; sea bass in New Jersey; white perch, yellow perch, striped bass, and crabs in Maryland; spots and croakers and Spanish mackerel in Virginia.

Statement of the percentage of weight of certain products in each State compared with the total yield in the entire region.

Species.	New York.	New Jersey.	Pennsylvania.	Delaware.	Maryland.	Virginia.	Total.
Alewives.....	6.11	5.76	6.50	2.41	48.53	30.09	100.00
Bluefish.....	36.48	47.89			3.42	12.81	100.00
Catfish.....	4.36	4.98	4.92	2.74	48.22	34.78	100.00
Cod.....	73.03	29.97					100.00
Eels.....	47.99	18.51	1.22	6.64	23.52	2.12	100.00
Flounders.....	57.51	36.38		.19	1.23	4.69	100.00
Menhaden.....	39.94	7.87		.03	11.79	40.37	100.00
Perch, white.....	2.21	10.40	.82	11.43	59.54	16.10	100.00
Perch, yellow.....	2.17	23.10	.58	1.98	64.22	7.83	100.00
Sea bass.....	12.26	67.38	17.11		2.04	1.19	100.00
Shad.....	10.00	33.87	8.92	4.97	20.02	21.53	100.00
Spots and croakers.....	7.98	8.36			4.78	78.88	100.00
Spanish mackerel.....	.81	4.92		1.00	12.02	79.69	100.00
Squeteague.....	19.41	40.83		7.92	5.11	26.73	100.00
Striped bass.....	8.07	12.07	1.04	4.00	53.33	20.39	100.00
Sturgeon.....	1.15	17.17	1.99	49.49	2.75	27.45	100.00
Crabs, hard.....	7.57	4.00			48.29	40.14	100.00
Crabs, soft.....	1.59	4.92		1.46	82.07	9.06	100.00
Oysters.....	12.23	10.79	.79	.73	46.59	28.87	100.00
Soft clams or long clams.....	64.54	35.40					100.00
Quahogs or hard clams.....	51.95	39.07		.25	1.70	6.42	100.00
All other products.....	68.83	13.36	.52	2.95	5.13	9.21	100.00
All products.....	28.94	13.40	1.29	1.30	23.91	31.16	100.00

## FISHERIES OF NEW YORK.

*General features of the fisheries.*—In the value of its fisheries New York ranks second among the States of the Middle Atlantic region and third in the entire country, being surpassed only by Maryland and Massachusetts.

Owing chiefly to the large coastal population, the proximity of the best markets, and the ready demand for nearly all forms of water products, there is probably no State whose fishery resources are more fully utilized than New York. Fishing is systematically prosecuted along all the shores of the State bordering on salt water and is also extensive in the Hudson River.

The fisheries which give special prominence to the State are those for fish and other animals inhabiting the rivers and inshore waters. The vessel fisheries in the open ocean, while very important, are practically restricted to the taking of menhaden with seines and bluefish and cod with lines. Chief among the products are oysters, hard clams, soft clams, scallops, shad, squeteague, and eels in addition to those mentioned.

The products in the value of which New York surpasses the other States of this region are scallops (which are taken only in this State), soft clams, hard clams, lobsters, butter-fish, eels, flounders, menhaden, and scup. In salt water the cultivation and taking of oysters is by far the most prominent branch of the fisheries, while in the fresh waters the capture of shad is the principal fishery.

*Statistical summary.*—Condensed statistics of the commercial fisheries of New York as they existed in the years 1889, 1890, and 1891 are shown in the following series of tables, relating respectively to the persons employed, the capital invested, and the products.

The fishing population of this State in 1891 was 12,246, an increase of somewhat more than 1,000 as compared with 1889. Vessel fishing engaged the attention of 2,250 persons, shore and boat fishing was participated in by 7,858 persons, shore fishery industries gave employment to 2,042 persons, and the transporting trade was conducted by 96 persons.

The investment in the fisheries of this State in 1891 was \$5,283,200, or \$705,977 more than in the second preceding year, thus compensating for the increase in the fishing population. The details of the investment are shown in the table, which indicates the items in which the changes have occurred during the three years.

In 1891 the yield of the fisheries of this State was 170,885,022 pounds, valued at \$4,817,369. While the quantity of the catch was less than in 1889 or 1890, the value was considerably greater, owing to a larger catch of products with a relatively high valuation per pound.

*Persons employed in the fisheries of New York.*

How engaged.	1889.	1890.	1891.
In vessel fisheries.....	2,071	2,181	2,250
In shore fisheries.....	7,312	7,740	7,858
On transporting vessels.....	122	116	96
On shore, in factories, etc.....	1,715	1,904	2,042
Total.....	11,220	11,941	12,246

Vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of New York.

Designation.	1880.		1890.		1891.	
	Number.	Value.	Number.	Value.	Number.	Value.
Vessels fishing	605	\$714,437	608	\$760,674	618	\$773,442
Tonnage	8,081		8,338		8,496	
Outfit		159,451		164,185		168,388
Vessels transporting	52	52,600	49	50,780	41	44,100
Tonnage	949		952		796	
Outfit		7,470		6,580		5,710
Boats	5,750	344,440	6,036	368,050	6,227	373,670
Apparatus—vessel fisheries:						
Purse seines	64	39,250	71	40,975	69	39,850
Trap nets	79	28,625	86	31,750	90	32,350
Lines		7,230		8,225		8,870
Pots, lobster and eel	635	1,540	500	1,140	580	1,385
Dredges, rakes, and tongs		44,144		44,038		43,322
Apparatus—shore fisheries:						
Seines	292	42,790	298	42,135	258	35,790
Gill nets	6,094	98,380	6,056	96,106	6,402	88,450
Fyke nets	6,006	57,023	6,753	59,202	6,246	55,405
Pound nets and trap nets	183	41,350	180	41,950	173	38,990
Lines		2,775		2,780		2,875
Eel pots	14,980	15,191	14,894	15,328	13,608	13,074
Lobster pots	1,764	2,461	1,800	2,419	1,750	2,332
Spears	4,050	4,193	3,945	4,120	3,489	3,728
Dredges	1,165	18,400	1,354	13,990	1,475	15,550
Rakes	3,453	27,229	3,363	26,815	3,397	27,650
Tongs	5,000	20,570	5,313	30,855	5,512	31,820
Forks	1,333	1,378	1,401	1,490	1,475	1,570
Minor apparatus		250		250		250
Scows, floats, etc.	651	82,962	698	90,200	752	90,314
Shore property		1,353,081		1,573,580		1,695,655
Cash capital		1,406,000		1,575,500		1,670,000
Total		4,577,223		5,062,717		5,283,200

Products of the fisheries of New York.

Species.	1889.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	2,522,435	\$29,061	2,268,204	\$24,785	2,194,500	\$23,520
Bluefish	5,027,573	219,592	5,739,757	249,504	5,506,575	237,010
Bonito	3,125	250	2,500	200	1,750	150
Butter-fish	365,562	11,570	423,674	13,310	837,246	12,988
Catfish	119,422	6,259	115,915	5,059	117,180	5,144
Cod	1,886,289	75,899	1,938,950	78,595	2,277,458	89,921
Eels	1,745,002	95,964	1,680,083	101,071	1,616,213	97,909
Flounders	1,427,508	41,755	1,575,824	45,005	1,501,696	45,231
Haddock	160,450	4,053	155,720	3,870	147,790	3,890
Kingfish	164,505	11,132	183,997	13,011	157,541	10,792
Mackerel		5,000		400		
Menhaden	115,452,296	298,468	128,736,016	340,958	104,860,114	295,605
Milwons	66,000	990	45,100	750	25,600	480
Mullet	191,610	9,443	182,600	9,033	160,060	7,878
Perch	84,990	5,761	92,061	6,500	88,125	6,329
Pike	7,465	672	6,840	615	8,215	740
Scup	348,316	0,972	368,843	7,326	350,858	7,016
Sea bass	557,841	30,119	750,829	40,972	679,180	35,915
Shad	4,332,532	217,988	3,776,975	190,180	3,044,956	161,209
Sheepshead	20,926	3,347	22,788	3,874	19,523	3,500
Skates	86,432	1,642	98,025	1,873	101,897	2,022
Spanish mackerel	68,490	6,510	70,258	7,040	74,896	7,255
Spots	13,516	635	21,954	837	17,501	700
Squetague	2,892,341	112,356	2,989,711	117,355	2,852,653	111,301
Striped bass	212,430	20,734	207,540	21,046	205,449	21,389
Sturgeon	39,988	1,168	39,336	1,153	30,261	929
Suckers	27,265	1,637	24,969	1,535	25,378	1,545
Tautog	181,740	8,453	170,432	8,255	171,172	7,618
Tomcod	241,990	9,084	308,640	12,215	278,400	10,468
Other fish	265,418	10,230	267,170	10,105	211,391	7,548
Rafuse fish	1,220,439	2,927	1,342,000	8,142	1,118,913	2,733
Crabs, hard	423,193	6,925	430,016	7,470	435,566	7,589
Crabs, soft	108,433	4,750	88,408	3,350	99,500	3,450
Lobsters	124,023	12,780	150,400	14,754	165,093	15,055
Mussels	1,400	67	49,350	1,928	21,000	900
Oysters	14,028,208	2,132,772	16,456,104	2,457,589	18,277,484	2,748,509
Quahogs or hard clams	4,161,164	602,502	4,209,224	607,129	4,524,520	650,621
Soft clams or long clams	1,411,000	100,100	1,580,000	103,370	1,595,500	105,891
Scallops	457,425	62,180	593,890	71,250	518,412	48,340
Squid	38,945	1,557	39,140	1,504	40,836	1,633
Shells	14,944,500	13,800	15,230,700	14,170	10,760,100	15,950
Total	175,936,098	4,181,794	192,470,691	4,002,157	170,885,022	4,817,369

The quantities of oysters, clams, crabs, etc., taken in the fisheries of this State are specified by bushels or number in the following supplementary table:

Products..	1889.	1890.	1891.
Soft clams or long clams .....	141, 100	158, 000	150, 550
Quahogs or hard clams .....	520, 146	525, 278	565, 565
Oysters .....	2, 089, 744	2, 350, 872	2, 611, 062
Scallops .....	101, 650	132, 420	69, 565
Mussels .....	140	4, 935	2, 100
Shells .....	332, 100	338, 460	372, 580
Crabs, soft .....	325, 299	265, 398	280, 500
Crabs, hard .....	1, 269, 399	1, 290, 048	1, 306, 698

*Statistics of the fisheries by counties.*—There are in New York six counties bordering on the ocean or on the bays and sounds tributary thereto, in all of which important fishing is carried on; these are Kings, New York, Queens, Richmond, Suffolk, and Westchester. Nine other counties abutting on the Hudson River have fisheries of considerable value; these are Albany, Columbia, Dutchess, Greene, Orange, Putnam, Rensselaer, Rockland, and Ulster. The extent of the fisheries in each of these is shown for the years 1890 and 1891 in the following series of tables.

The use of vessels is restricted to the six counties which border on salt water. Some forms of apparatus are found in every county, and others are operated in only a few localities. Thus gill nets, fyke nets, and eel pots are means of capture in every county except New York; while pound nets and traps are operated only in three counties on Long Island.

The preponderating importance of the fishing industry of Suffolk County is clearly brought out in the tables. Here, in 1891, 5,201 persons were employed in the fisheries, \$1,787,444 was invested, 120,737,349 pounds of products were taken, and the value of the catch was \$1,536,649. On comparing these figures with the total for the State, it appears that this county represents about 43 per cent of the fishing population, 34 per cent of the investment, and 32 per cent of the value of the industry.

Next to Suffolk County in importance are Queens, Kings, Richmond, Westchester, and New York counties, in the order named, in all of which the oyster is of prime importance, followed by the other products which give prominence to the salt-water fisheries of the State, as menhaden, bluefish, clams, etc. The counties maintaining the most extensive fisheries in the Hudson River are Dutchess, Ulster, Rockland, and Orange. The principal kinds of apparatus there used are seines, gill nets, and fyke nets, and the bulk of the catch consists of shad, alewives, and catfish.

*Statement by counties of the number of persons employed in the fisheries of New York.*

Counties.	In vessel fish-eries.		In shore fish-eries.		On transporting vessels.		On shore, in factories, etc.		Total.	
	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.
Albany .....			65	64					65	64
Columbia .....			133	131					133	131
Dutchess .....			301	297					301	297
Greene .....			122	118					122	118
Kings .....	234	231	451	510	16	12	178	103	870	955
New York .....	112	115			9	9	795	887	916	1, 011
Orange .....			124	113					124	113
Putnam .....			35	30					35	30
Queens .....	296	310	1, 061	2, 024	47	37	141	158	2, 445	2, 529
Rensselaer .....			64	62					64	62
Richmond .....	310	314	406	440	44	38			700	792
Rockland .....			146	143					146	143
Suffolk .....	1, 155	1, 209	3, 175	3, 188			790	804	5, 120	5, 201
Ulster .....			199	186					199	186
Westchester .....	74	71	553	543					632	614
Total .....	2, 181	2, 250	7, 740	7, 858	116	96	1, 904	2, 042	11, 941	12, 240

FISHERIES OF THE MIDDLE ATLANTIC STATES.

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Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of New York.

Designation.	Albany.				Columbia.				Dutchess.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Boats.....	15	\$565	15	\$485	54	\$2,245	55	\$2,150	163	\$9,240	158	\$8,715
Apparatus:												
Seines.....	10	1,025	7	775	16	1,470	14	1,220	9	1,800	7	1,000
Gill nets.....	245	426	255	448	290	2,594	301	2,375	518	12,440	533	11,656
Fyke nets.....	285	1,345	295	1,565	68	480	71	495	136	710	136	840
Eel pots.....	28	26	23	23	29	34	30	35	22	25	28	28
Scows, floats, etc.....	0	639	0	639	9	108	8	96	55	1,636	54	1,624
Shore property.....		570		453		1,113		1,232		2,060		1,935
Total.....		4,536		4,388		8,044		7,603		28,011		26,398

Designation.	Orange.				Putnam.				Queens.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....									119	\$81,520	116	\$82,220
Tonnage.....									1,102		1,120	
Outfit.....										14,875		14,500
Vessels transporting.....									19	20,300	15	16,500
Tonnage.....									417		330	
Outfit.....										1,900		1,500
Boats.....	64	\$3,055	60	\$3,005	16	\$815	13	\$580	2,069	109,260	2,158	110,035
Apparatus—vessel fisheries:										8,470		8,521
Dredges, rakes, and tongs.....												
Apparatus—shore fisheries:									69	9,095	60	7,245
Seines.....									48	4,350	41	3,380
Gill nets.....	278	5,943	287	5,505	142	1,418	136	1,200	275	2,825	213	2,340
Fyke nets.....	167	1,000	156	933	21	109	17	102	5	1,000	4	800
Pound nets.....										225		210
Lines.....									100	149	81	121
Eel pots.....	33	41	31	35	13	13	13	13	3,265	3,418	2,910	3,053
Lobster pots.....									100	149	81	121
Spears.....									1,645	1,650	1,595	1,620
Dredges.....									545	5,900	600	6,500
Rakes.....									1,000	9,385	1,167	10,480
Tongs.....									1,575	9,120	1,605	9,440
Forks.....									500	544	543	593
Scows, floats, etc.....									243	33,100	240	35,000
Shore property.....		1,150		975		125		125		40,000		44,400
Cash capital.....										105,000		110,000
Total.....		11,195		10,513		2,480		2,110		462,986		468,458

Designation.	Rensselaer.				Richmond.				Rockland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....					119	\$126,075	118	\$125,850				
Tonnage.....					1,526		1,529					
Outfit.....						17,850		17,700				
Vessels transporting.....					18	19,700	16	17,900				
Tonnage.....					376		334					
Outfit.....						1,800		1,000				
Boats.....	18	\$795	10	\$715	398	30,000	433	42,500	113	\$4,980	113	\$4,325
Apparatus—vessel fisheries:						580		490				
Lines.....					390	900	440	1,050				
Pots (lobster).....						10,600		9,434				
Dredges, rakes, and tongs.....												
Apparatus—shore fisheries:												
Seines.....	7	775	6	710	3	525	3	525				
Gill nets.....	275	480	253	444	252	1,200	240	1,200	847	4,565	745	4,050
Fyke nets.....	174	925	161	885	218	2,180	215	2,150	115	1,400	125	1,525
Lines.....						120		125				
Eel pots.....	27	27	20	20	350	350	335	335	48	48	43	43
Lobster pots.....					380	680	720	720				
Rakes.....					380	8,800	400	4,000				
Tongs.....					390	3,250	430	3,440				
Forks.....						85		30				
Scows, floats, etc.....	3	235	3	235	59	7,000	69	7,000				
Shore property.....		533		468		11,700		11,700		300		275
Total.....		3,770		3,477		248,305		247,749		11,303		10,218

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of New York—Continued.

Designation.	Greene.				Kings.				New York.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....					63	\$84,200	61	\$81,850	29	\$64,429	29	\$64,150
Tonnage .....					896		889		548		548	
Outfit .....						14,875		14,625		20,100		21,500
Vessels transporting .....					8	7,500	6	6,500	4	3,280	4	3,200
Tonnage .....					100		73		60		60	
Outfit .....						880		660		2,000		1,950
Boats .....	39	\$2,005	38	\$1,995	601	33,180	746	36,150				
Apparatus—vessel fisheries:												
Purse seines .....					11	7,600	11	7,900				
Lines .....						565		970		2,400		2,340
Pots (lobster and eel)					95	200	140	335	24	40		
Dredges, rakes, and tongs .....						2,855		2,610		1,020		1,085
Apparatus—shore fisheries:												
Seines .....	18	2,675	15	2,500								
Gill nets .....	310	1,918	338	1,884	153	10,170	151	10,200				
Fyke nets .....	52	290	52	290	218	1,962	205	1,860				
Pound nets .....					6	2,100	6	2,000				
Lines .....						225		215				
Eel pots .....	24	24	20	20	525	525	485	485				
Lobster pots .....					260	520	250	500				
Spears .....					310	285	225	210				
Dredges .....					475	4,750	540	5,400				
Rakes .....					175	1,050	175	1,050				
Tongs .....					650	4,550	775	5,425				
Forks .....					115	135	115	135				
Scows, floats, etc .....	10	120	9	108	85	12,250	112	16,100				
Shore property .....		751		664		36,500		38,500		1,085,000		1,190,000
Cash capital .....						62,000		70,000		967,000		1,023,000
<b>Total .....</b>		<b>7,783</b>		<b>7,461</b>		<b>288,877</b>		<b>303,680</b>		<b>2,146,169</b>		<b>2,308,125</b>

  

Designation.	Suffolk.				Ulster.				Westchester.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	249	\$394,200	266	\$401,522					29	\$18,350	28	\$17,850
Tonnage .....	4,009		4,166						258		240	
Outfit .....		93,585		97,363						2,900		2,700
Boats .....	1,933	133,175	1,950	133,120	95	\$4,065	97	\$4,225	368	25,720	360	25,070
Apparatus—vessel fisheries:												
Purse seines .....	60	33,375	58	31,950								
Trap nets .....	86	31,750	90	32,350								
Lines .....		4,680		5,070								
Dredges, rakes, and tongs .....		18,542		18,002						2,251		2,170
Apparatus—shore fisheries:												
Seines .....	151	22,425	124	19,165	12	1,195	9	1,000	3	1,050	3	1,050
Gill nets .....	848	27,155	785	23,815	429	6,070	390	5,608	2,015	17,337	1,945	19,535
Fyke nets .....	4,840	43,010	4,430	40,515	89	485	72	400	95	1,575	98	1,505
Pound nets .....	178	38,850	163	36,180								
Lines .....		2,100		2,220						110		105
Eel pots .....	10,237	10,409	9,329	9,279	45	48	41	45	250	250	260	260
Lobster pots .....	645	840	589	771					115	230	110	220
Spears .....	1,970	2,155	1,654	1,875					20	30	15	23
Dredges .....	239	2,590	275	3,050					75	750	60	600
Rakes .....	1,438	9,790	1,360	9,465					310	2,790	295	2,655
Tongs .....	2,438	12,115	2,477	11,940					200	1,820	225	1,575
Forks .....	711	736	757	782					40	40	30	30
Minor apparatus .....		250		250								
Scows, floats, etc .....	171	25,800	195	23,200	6	72	6	72	51	9,240	51	9,240
Shore property .....		390,850		402,950		1,778		1,728		250		250
Cash capital .....		441,500		476,000								
<b>Total .....</b>		<b>1,740,852</b>		<b>1,787,444</b>		<b>13,713</b>		<b>13,078</b>		<b>84,693</b>		<b>82,498</b>



Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of New York—Continued.

Designation.	Total for State.				Designation.	Total for State.			
	1890.		1891.			1890.		1891.	
	No.	Value.	No.	Value.		No.	Value.	No.	Value.
Vessels fishing .....	608	\$769,674	618	\$773,442	Apparatus—shore fisheries—Continued.				
Tonnage .....	8,338		8,496		Fyke nets .....	6,753	\$59,202	6,246	\$55,405
Outfit .....		164,185		168,388	Pound nets .....	189	41,950	173	38,990
Vessels transporting .....	49	50,780	41	44,100	Lines .....		2,780		2,875
Tonnage .....	952		796		Eel pots .....	14,894	15,328	13,568	13,674
Outfit .....		6,580		5,710	Lobster pots .....	1,800	2,419	1,475	2,332
Boats .....	6,036	368,050	6,227	373,670	Spears .....	3,945	4,120	3,489	3,728
Apparatus—vessel fisheries:					Dredges .....	1,394	13,990	1,475	15,550
Purse seines .....	71	40,975	69	39,850	Rakes .....	3,303	26,815	3,397	27,650
Trap nets .....	86	31,750	90	32,350	Tongs .....	5,313	30,855	5,512	31,820
Lines .....		8,225		8,870	Forks .....	1,401	1,490	1,475	1,570
Pots (lobster and eel) .....	509	1,140	580	1,385	Minor apparatus .....		250		250
Dredges, rakes, and tongs .....		44,638		43,322	Scows, floats, etc. ....	698	90,200	752	99,314
Apparatus—shore fisheries:					Shore property .....		1,673,580		1,695,655
Seines .....	298	42,135	258	35,790	Cash capital .....		1,575,500		1,679,000
Gill nets .....	6,456	96,106	6,402	88,450	Total .....		5,062,717		5,283,200

Statement by counties and species of the yield of the fisheries of New York.

Species.	Albany.				Columbia.				Dutchess.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	120,700	\$1,539	121,366	\$1,537	230,000	\$3,122	108,440	\$2,133	154,033	\$1,950	146,933	\$1,904
Catfish .....	7,453	385	7,855	406	10,578	560	10,530	554	5,742	286	6,100	305
Eels .....	780	55	825	58	940	56	950	57	675	47	725	51
Perch .....	5,542	462	5,915	492	9,736	666	9,180	613	3,488	285	3,890	303
Shad .....	3,300	165	1,600	80	70,400	3,480	49,500	2,485	650,600	32,980	287,800	20,390
Striped bass .....	4,118	494	3,500	420	1,419	170	1,330	160	1,863	223	1,815	218
Sturgeon .....	250	10	150	6	1,050	42	980	39	1,460	58	1,375	55
Suckers .....	4,067	235	4,120	228	2,228	139	2,558	165	2,621	167	2,780	178
Other fish .....	4,282	285	4,095	268	5,682	187	5,915	212	1,767	122	2,660	161
Total .....	150,492	3,630	149,426	3,495	332,033	8,422	249,383	6,418	831,249	36,118	454,078	23,565

Species.	Greene.				Kings.				New York.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	336,233	\$4,324	328,633	\$4,236	219,570	\$8,826	94,500	\$5,050	431,000	\$22,120	409,000	\$19,160
Bluefish .....					5,000	200	12,500	500				
Butter-fish .....					14,474	572	13,120	520				
Catfish .....	5,178	282	5,107	283	172,200	7,362	167,507	7,510	437,500	15,910	458,070	16,085
Cod .....					61,328	6,166	78,141	5,105	6,000	500		
Eels .....	675	41	575	35	26,156	924	28,040	1,035				
Flounders .....									94,000	1,700	87,000	1,650
Hadlock .....					5,000	400						
Mackerel .....					21,960,000	65,880	22,380,000	70,870				
Menhaden .....					5,246	196	4,460	170				
Perch .....	6,287	482	6,312	484	500	30	500	30	155,000	6,400	142,500	6,280
Sea bass .....					166,564	8,672	147,360	7,600				
Shad .....	50,500	2,825	42,800	2,140	13,689	789	13,180	713				
Squeteague .....					5,320	693	4,920	617				
Striped bass .....	1,828	222	1,725	194								
Suckers .....	1,760	116	1,730	114	1,430	73	1,130	60				
Tautog .....					800	36	1,230	50				
Tomcod .....					12,665	419	12,693	435				
Other fish .....	4,669	181	4,271	139	6,920	625	5,730	573				
Lobsters .....					118,416	2,475	85,400	2,229				
Crabs, hard .....					33,460	1,600	40,166	1,750				
Crabs, soft .....					3,386,845	639,435	3,781,120	725,890	859,250	120,350	800,750	126,265
Oysters .....					127,000	11,460	117,000	10,581				
Soft clams .....					349,600	43,702	385,800	48,553	25,840	2,960	24,640	29810
Quahogs .....					42,000	1,700	21,000	900				
Mussels .....												
Total .....	413,130	8,473	391,213	7,625	26,764,189	739,220	27,395,407	890,773	2,008,590	169,940	2,012,500	172,250

Statement by counties and species of the yield of the fisheries of New York—Continued.

Species.	Orange.				Putnam.				Queens.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives									200,667	\$1,550	163,333	\$1,225
Bluefish									609,208	29,278	530,145	24,687
Catfish	5,157	\$257	4,820	\$241	1,865	\$92	2,050	\$102	12,996	444	12,955	460
Cod									82,000	3,800	68,750	3,350
Eels	1,150	80	1,080	75	375	26	575	40	429,303	25,931	422,120	25,514
Flounders									166,047	6,979	143,472	6,000
Kingfish									63,993	4,439	58,247	3,734
Mullet									40,600	1,933	37,560	1,778
Perch	3,249	283	3,035	277	1,552	124	1,085	142	9,320	475	9,000	452
Sea bass									69,360	5,800	59,434	3,256
Shad	259,600	12,980	149,200	7,460	55,100	2,755	31,156	1,558	29,925	1,859	27,285	1,704
Spanish mack'l.									20,471	1,433	17,605	1,231
Squeteague									361,516	20,774	309,056	18,083
Striped bass	1,161	140	1,070	130	1,028	123	925	111	57,403	4,279	49,789	4,602
Sturgeon	675	39	1,050	42	835	33	925	37				
Suckers	2,119	135	2,050	132	980	67	850	56				
Tautog									44,600	2,652	39,755	2,182
Tomcod or frost-fish									70,880	3,246	68,690	2,740
Other fish	1,700	119	1,775	121	1,527	129	1,300	107	45,440	1,990	18,721	692
Lobsters									6,320	575	4,840	485
Oysters									4,511,619	735,804	4,636,135	745,944
Soft clams									500,000	33,770	553,000	37,735
Quahogs									1,829,184	282,599	2,084,280	321,215
Mussels									7,350	228		
Total	275,111	14,033	164,080	8,478	63,202	3,349	39,466	2,153	9,174,202	1,169,937	9,314,172	1,207,237

Species.	Suffolk.				Ulster.				Westchester.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Alewives	837,451	\$7,157	828,323	\$6,923	172,233	\$2,201	177,233	\$2,260	115,267	\$1,470	150,166	\$1,914
Bluefish	4,199,979	176,570	4,202,930	175,903								
Bonito	2,500	200	1,750	150								
Butter fish	418,674	13,110	824,746	12,488								
Catfish	16,225	392	17,610	453	7,206	379	7,313	384	6,840	346	7,730	388
Cod	1,178,350	48,743	1,420,531	56,710								
Eels	1,081,427	62,695	1,047,720	61,924	975	58	875	52	36,000	3,600	33,500	3,350
Flounders	1,340,526	35,092	1,351,039	36,327					34,470	1,710	31,365	1,495
Haddock	44,320	1,770	44,230	1,815								
Kingfish	122,004	8,572	99,204	7,058								
Menhaden	106,776,016	275,078	82,480,114	224,735								
Minnows	45,100	750	25,000	480								
Mullet	142,000	7,100	122,500	6,100								
Perch	14,300	1,040	12,500	984	5,108	390	5,076	404	15,275	1,108	14,285	1,110
Scup	368,843	7,326	350,858	7,016								
Sea bass	515,969	28,203	476,746	26,349								
Shad	113,524	6,205	98,005	7,094	369,000	18,450	252,020	12,585	1,040,150	32,308	1,595,600	79,780
Sheepshead	22,788	3,874	19,523	3,500								
Skates	98,625	1,873	101,897	2,022								
Spanish mack-erel	55,787	5,607	57,231	6,024								
Spot	20,954	837	17,501	700								
Squeteague	2,499,561	89,748	2,440,497	88,010								
Striped bass	84,108	8,968	93,392	9,442	1,555	186	1,685	202	25,115	3,013	20,580	2,460
Sturgeon	29,801	773	21,001	559	1,250	50	1,050	42	1,550	62	1,600	64
Suckers					1,847	132	2,000	144	3,040	136	3,340	148
Tautog	117,687	4,750	117,247	4,726					12,300	610	10,040	500
Tomcod or frost-fish	198,028	7,025	168,280	5,794					36,802	1,840	37,000	1,775
Other fish	176,166	6,285	148,080	5,123	2,329	102	3,061	170	4,307	241	4,180	219
Refuse fish	1,342,090	3,142	1,118,913	2,733								
Lobsters	27,588	2,646	24,498	2,435					12,000	1,500	10,000	1,250
Crabs, hard	311,600	4,995	350,166	5,369								
Crabs, soft	55,000	1,750	53,334	1,700								
Oysters	2,671,515	370,458	3,310,615	460,740					1,085,000	123,500	980,000	112,000
Soft clams	848,000	50,240	757,500	51,895					40,000	4,000	25,000	2,500
Quahogs	1,372,200	186,388	1,413,200	187,448					388,000	62,250	368,000	59,000
Scallops	595,890	71,250	313,042	48,340								
Squid	39,140	1,504	40,836	1,633								
Shells	15,230,700	14,170	16,766,100	15,950								
Total	143,014,436	1,516,340	120,737,349	1,536,640	561,504	21,948	450,313	16,243	3,462,206	287,784	3,292,366	267,962

Statement by counties and species of the yield of the fisheries of New York—Continued.

Species.	Rensselaer.				Richmond.				Rockland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	108,700	\$1,385	103,733	\$1,314	6,920	\$87	6,400	\$80				
Bluefish					280,000	12,710	270,000	12,210				
Catfish	9,730	517	9,820	518	8,475	348	8,510	350	3,996	\$199	3,600	\$180
Cod					68,900	2,780	162,000	6,200				
Eels	850	59	750	53	27,320	1,597	26,163	1,530	2,285	100	2,214	155
Flounders					8,625	300	7,780	275				
Haddock					17,400	400	16,500	425				
Perch	5,072	427	5,265	448	4,765	229	4,762	221	3,120	261	2,760	229
Sea bass					10,000	440						
Shad					58,792	3,075	77,680	3,995	288,520	14,426	285,550	14,278
Squeteague					114,945	6,050	89,920	4,405				
Striped bass	3,489	418	3,835	400	16,302	1,780	18,458	2,005	2,831	337	2,425	299
Sturgeon	250	10	180	7					1,915	76	1,950	78
Suckers	3,351	216	3,425	218					2,966	102	2,525	162
Tautog					3,415	170	3,000	150				
Tomcod					2,130	68	3,200	100				
Other fish	6,204	384	6,105	394	5,750	180	5,415	157	1,452	96	1,265	90
Lobsters					97,572	9,408	120,025	10,910				
Oysters					3,041,875	471,042	4,678,814	577,700				
Soft clams					65,000	3,900	53,000	3,180				
Quahogs					237,400	29,230	248,600	31,595				
Total	137,946	3,416	133,203	3,412	4,975,586	543,785	5,799,627	655,638	307,055	15,747	302,289	15,471

SUMMARY.

Species.	1890.		1891.		Species.	1890.		1891.	
	Lbs.	Value.	Lbs.	Value.		Lbs.	Value.	Lbs.	Value.
Alewives	2,298,204	\$24,785	2,194,560	\$23,526	Squeteague	2,989,711	\$117,355	2,852,653	\$111,301
Bluefish	5,739,757	240,504	5,506,575	237,010	Striped bass	207,540	21,046	205,449	21,389
Bonito	2,500	200	1,750	150	Sturgeon	39,336	1,153	30,261	920
Butter-fish	423,674	13,310	397,246	12,988	Suckers	24,969	1,535	25,378	1,545
Catfish	115,915	5,059	117,180	5,144	Tautog	179,432	8,255	171,172	7,618
Codfish	1,938,950	78,595	2,277,458	89,921	Tomcod or frostfish	308,640	12,215	278,400	10,468
Eels	1,680,083	101,071	1,616,213	97,999	Other fish	274,010	10,720	219,006	8,288
Flounders	1,575,824	45,005	1,561,090	45,231	Refuse fish	1,942,090	3,142	1,118,913	2,733
Haddock	155,720	3,870	147,730	3,890	Lobsters	150,400	14,754	165,063	15,055
Kingfish	185,997	13,011	157,541	10,792	Crabs, hard	430,016	7,470	495,506	7,589
Mackerel	5,000	400			Crabs, soft	88,468	3,350	93,500	3,450
Menhaden	128,736,016	340,958	104,860,114	295,605	Oysters	16,456,104	2,457,589	18,277,434	2,748,509
Minnows	45,100	750	25,000	480	Soft clams or long clams	1,580,000	103,370	1,505,500	105,891
Mullet	182,600	9,033	100,060	7,878	Quahogs or hard clams	4,202,224	607,129	4,524,520	650,021
Perch	92,061	6,509	88,125	6,329	Scallops	595,890	71,250	313,042	48,340
Scup	368,843	7,326	350,868	7,016	Squid	39,140	1,564	40,836	1,633
Sea bass	750,829	40,072	679,180	35,915	Mussels	49,350	1,928	21,000	900
Shad	3,776,975	190,180	3,044,056	161,209	Shells	15,230,700	14,170	16,766,100	15,950
Sheepshead	22,788	3,874	19,523	3,500	Total	192,470,691	4,602,157	170,885,022	4,817,369
Skates	98,625	1,873	101,897	2,022					
Spanish mackerel	76,258	7,040	74,836	7,255					
Spot	20,954	837	17,501	700					

Statistics of the products by each form of apparatus.—In preceding tables the importance of each principal form of apparatus employed in the fisheries of this State has been shown. In the following tables the details of the quantity and value of the products taken with the various appliances are given for each county, the vessel fisheries and the shore fisheries being separately indicated.

Much the larger part of the vessel fishing is done with dredges, rakes, and tongs for oysters, clams, scallops, mussels, and shells, and in Queens and Westchester counties vessels are only used for those products. In Kings, New York, Richmond, and Suffolk counties there is additional vessel fishing with seines, lines, trap nets, and pots for menhaden, bluefish, cod, haddock, sea bass, lobsters, etc. The value of the vessel fisheries of the State in 1891 was \$1,965,228, of which sum \$1,352,769 represented shellfish. Seines are employed for menhaden in Kings and Suffolk counties, taking 99,057,690 pounds of fish in 1891, having a value of \$288,123. Lines

are extensively used in all but two counties, chiefly for bluefish, cod, haddock, and sea bass. The catch in 1891 was 5,660,870 pounds, worth \$228,263. Eels are taken with pots in Kings County, and lobsters with the same means in Richmond County. A vessel fishery of great interest and value is that carried on from Suffolk County with trap nets, which are operated in a manner entirely similar to that in which gill nets or other nets are used from vessels. The nets, to the number of 90 in 1891, are set at the eastern end of Long Island, and take large quantities of all the fish common to those waters, the principal part of the catch consisting of squeteague, bluefish, butter-fish, flounders, scup, sea bass, and menhaden. The yield in 1891 was 7,200,080 pounds, valued at \$84,413.

The yield of the shore fisheries in 1891 was 32,030,141 pounds, having a value of \$2,852,141. The catch of the various mollusks and crustaceans was 15,191,386 pounds, worth \$2,234,241. Considering the output of fish, it appears that gill nets take the largest quantities and give the greatest money returns of all the forms of apparatus employed. The fishes thus obtained which are caught in largest quantities are the shad, bluefish, squeteague, and alewives. The aggregate gill-net catch was 4,953,280 pounds, valued at \$222,014. The quantity and value of the seine yield come next; 4,130,684 pounds, worth \$157,828, were secured in this kind of apparatus. The species which enter most conspicuously into the seine fishery are alewives, bluefish, kingfish, mullet, sea bass, shad, squeteague, and tomcod, the most important being bluefish and squeteague. Pound nets took 2,742,412 pounds in 1891 and 3,228,198 pounds in 1890, valued, respectively, at \$40,849 and \$43,829; squeteague is the most prominent fish thus taken, although the menhaden is caught in larger quantities. Fyke nets yield larger money returns than pound nets, but the catch is smaller. Flounders constitute the largest and most valuable part of the output. The fyke-net yield was 2,382,882 pounds, worth \$48,903. The catch of eels with pots is very large, 957,331 pounds, valued at \$58,441, being secured in 1891. Spears took eels to the value of \$32,123, and flounders worth \$9,026. The line catch was 995,735 pounds of bluefish, cod, squeteague, etc., valued at \$48,716.

*Statement by counties, apparatus, and species of the yield of the vessel fisheries of New York.*

Apparatus and species.	Kings.				New York.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>								
Menhaden .....	21,960,000	\$65,880	22,380,000	\$70,870				
<b>Lines:</b>								
Bluefish .....	196,950	7,695	86,000	4,625	431,000	\$22,120	409,000	\$19,160
Cod .....	164,500	6,900	158,340	6,960	437,500	15,910	458,670	16,085
Haddock .....					94,000	1,700	87,000	1,650
Mackerel .....	5,000	400						
Sea bass .....	500	30	500	30	155,000	6,400	142,500	6,280
Tautog .....	300	15	300	15				
<b>Total</b> .....	<b>367,250</b>	<b>15,040</b>	<b>245,140</b>	<b>11,630</b>	<b>1,117,500</b>	<b>46,130</b>	<b>1,097,170</b>	<b>43,175</b>
<b>Pots:</b>								
Eels .....	25,700	2,325	17,700	1,560	6,000	500		
<b>Tongs, rakes, and dredges:</b>								
Oysters .....	828,345	119,685	729,120	111,540	859,250	120,350	890,750	126,265
Quahogs or hard clams .....	81,200	9,890	69,200	8,735	25,840	2,960	24,640	2,810
Mussels .....	42,000	1,700	21,000	900				
<b>Total</b> .....	<b>951,545</b>	<b>131,275</b>	<b>819,320</b>	<b>121,175</b>	<b>885,090</b>	<b>123,310</b>	<b>915,390</b>	<b>129,075</b>
<b>Grand total</b> .....	<b>23,304,495</b>	<b>214,520</b>	<b>23,462,160</b>	<b>205,235</b>	<b>2,008,590</b>	<b>169,940</b>	<b>2,012,560</b>	<b>172,250</b>

Statement by counties, apparatus, and species of the yield of the vessel fisheries of New York—Continued.

Apparatus and species.	Queens.				Richmond.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Lines:</b>								
Bluefish .....					280,000	\$12,710	270,000	\$12,210
Cod .....					68,900	2,780	162,000	6,260
Haddock .....					17,400	400	16,500	425
Sea bass .....					10,000	440		
<b>Total .....</b>					<b>376,300</b>	<b>16,330</b>	<b>448,500</b>	<b>18,895</b>
<b>Pots:</b>								
Lobsters .....					88,312	8,520	111,875	10,100
<b>Tongs, rakes, and dredges:</b>								
Oysters .....	1,591,210	\$225,024	1,612,065	\$221,004	3,101,175	368,322	3,726,814	452,450
Quahogs or hard clams .....	202,544	46,324	209,320	46,435	163,800	17,730	180,600	20,970
Mussels .....	7,350	228						
<b>Total .....</b>	<b>1,891,113</b>	<b>272,176</b>	<b>1,911,385</b>	<b>268,039</b>	<b>3,264,975</b>	<b>386,052</b>	<b>3,907,414</b>	<b>473,420</b>
<b>Grand total .....</b>	<b>1,891,113</b>	<b>272,176</b>	<b>1,911,385</b>	<b>268,039</b>	<b>3,720,587</b>	<b>410,902</b>	<b>4,467,789</b>	<b>502,415</b>

  

Apparatus and species.	Suffolk.				Westchester.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>								
Menhaden .....	100,172,100	\$267,125	76,677,690	\$217,253				
<b>Lines:</b>								
Bluefish .....	2,295,400	91,816	2,501,350	100,054				
Cod .....	1,019,175	41,831	1,281,300	50,052				
Haddock .....	30,800	1,432	32,910	1,532				
Sea bass .....	59,237	2,369	54,500	2,325				
<b>Total .....</b>	<b>3,404,612</b>	<b>137,448</b>	<b>3,870,000</b>	<b>154,563</b>				
<b>Trap nets:</b>								
Alewives .....	23,021	414	20,305	380				
Bluefish .....	117,006	4,564	104,800	4,194				
Butter-fish .....	203,368	8,091	559,249	8,388				
Eels .....	58,676	2,609	54,000	2,520				
Flounders and flatfish .....	165,032	2,805	151,312	2,268				
Kingfish .....	10,440	1,568	8,763	1,315				
Menhaden .....	4,238,264	5,084	3,849,440	4,804				
Scup .....	233,800	4,670	223,440	4,468				
Sea bass .....	106,960	5,348	101,144	5,107				
Shad .....	6,160	616	4,782	504				
Sheepshead .....	16,139	2,744	14,056	2,520				
Skate .....	69,848	1,327	73,300	1,456				
Spanish mackerel .....	7,369	1,709	7,817	1,954				
Spot .....	14,540	593	12,000	504				
Squeteague .....	1,105,440	33,163	1,110,110	33,303				
Striped bass .....	34,115	4,435	32,048	4,244				
Sturgeon .....	21,108	548	15,120	403				
Tautog .....	47,460	1,898	52,500	2,100				
Other fish .....	41,732	856	37,070	779				
Refuse fish .....	883,889	2,044	734,884	1,774				
Lobsters .....	4,071	313	3,264	252				
Squid .....	27,729	1,108	29,400	1,176				
<b>Total .....</b>	<b>7,496,445</b>	<b>87,203</b>	<b>7,200,080</b>	<b>84,413</b>				
<b>Tongs, rakes, and dredges:</b>								
Oysters .....	1,382,465	190,508	1,597,015	219,090	455,000	\$58,500	420,000	\$54,000
Quahogs or hard clams .....	89,000	11,688	109,000	14,080	52,000	9,750	48,000	9,000
Scallops .....	595,890	71,250	313,042	48,340				
Shells .....	15,230,790	14,170	10,760,100	15,950				
<b>Total .....</b>	<b>17,298,655</b>	<b>287,610</b>	<b>18,785,157</b>	<b>298,000</b>	<b>507,000</b>	<b>68,250</b>	<b>468,000</b>	<b>63,000</b>
<b>Grand total .....</b>	<b>128,371,812</b>	<b>779,452</b>	<b>106,632,987</b>	<b>754,289</b>	<b>507,000</b>	<b>68,250</b>	<b>468,000</b>	<b>63,000</b>

Statement by counties, apparatus, and species of the yield of the vessel fisheries of New York—Continued.

Apparatus and species.	Total for State.				Apparatus and species.	Total for State.			
	1890.		1891.			1890.		1891.	
	Pounds.	Value.	Pounds.	Value.		Pounds.	Value.	Pounds.	Value.
<b>Trap nets:</b>					<b>Lines:</b>				
Alewives .....	23,021	\$414	20,505	\$380	Bluefish .....	3,203,350	\$134,341	3,266,350	\$136,049
Bluefish .....	117,006	4,564	104,800	4,194	Cod .....	1,690,075	67,421	2,060,310	79,957
Butter fish .....	263,368	8,691	559,249	8,388	Haddock .....	142,200	3,552	136,410	3,607
Eels .....	58,676	2,609	54,006	2,520	Mackerel .....	5,000	400	.....	.....
Flounders .....	165,032	2,805	151,312	2,268	Sea bass .....	224,737	9,239	197,500	8,635
Kingfish .....	10,449	1,568	8,763	1,315	Tautog .....	300	15	300	15
Menhaden .....	4,238,264	5,084	3,849,440	4,804	<b>Total</b> .....	<b>5,265,662</b>	<b>214,948</b>	<b>5,600,870</b>	<b>228,263</b>
Scup .....	233,800	4,676	223,440	4,468	<b>Pots:</b>				
Sea bass .....	106,960	5,348	101,144	5,107	Eels .....	31,700	2,825	17,700	1,560
Shad .....	6,160	616	4,732	504	Lobsters .....	88,312	8,520	111,875	10,100
Sheepshead .....	16,139	2,744	14,056	2,520	<b>Total</b> .....	<b>120,012</b>	<b>11,345</b>	<b>129,575</b>	<b>11,660</b>
Skate .....	69,848	1,327	73,360	1,456	<b>Tongs, rakes, and dredges:</b>				
Spanishmackerel .....	7,369	1,769	7,817	1,954	Oysters .....	8,217,454	1,082,989	8,975,764	1,185,549
Spot .....	14,840	593	12,600	504	Quahogs .....	704,984	98,342	730,760	102,030
Squeteague .....	1,105,440	33,163	1,110,110	33,303	Scallops .....	595,890	71,250	313,042	48,340
Striped bass .....	34,115	4,435	32,648	4,244	Shells .....	15,230,700	14,170	16,766,100	15,950
Sturgeon .....	21,106	548	15,120	403	Mussels .....	49,350	1,928	21,000	900
Tautog .....	47,460	1,898	52,500	2,100	<b>Total</b> .....	<b>24,798,378</b>	<b>1,268,679</b>	<b>26,800,666</b>	<b>1,352,769</b>
Other fish .....	41,732	856	37,070	779	<b>Grand total.</b>	<b>159,812,597</b>	<b>1,915,240</b>	<b>138,854,881</b>	<b>1,965,228</b>
Refuse fish .....	883,869	2,044	734,884	1,774					
Lobsters .....	4,071	313	3,264	252					
Squid .....	27,720	1,108	29,400	1,176					
<b>Total</b> .....	<b>7,496,445</b>	<b>87,263</b>	<b>7,200,080</b>	<b>84,413</b>					
<b>Seines:</b>									
Menhaden .....	122,132,100	333,005	90,057,690	288,123					

Statement by counties, apparatus, and species of the yield of the shore fisheries of New York.

Apparatus and species.	Albany.				Columbia.				Dutchess.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	120,700	\$1,539	121,366	\$1,537	207,833	\$2,820	149,433	\$1,889	154,033	\$1,950	146,933	\$1,904
Catfish .....	1,250	75	1,325	79	4,550	273	4,250	255	2,250	112	2,500	125
Perch .....	1,500	120	1,600	128	5,150	283	4,980	269	980	59	1,500	90
Shad .....	3,300	165	1,600	80	38,300	1,875	26,800	1,350	93,200	4,600	33,600	1,680
Striped bass .....	1,800	216	1,200	144	.....	.....	.....	.....	.....	.....	.....	.....
Other fish .....	2,250	110	2,275	112	4,000	79	4,145	101	770	29	1,500	60
<b>Total</b> .....	<b>130,800</b>	<b>2,225</b>	<b>129,366</b>	<b>2,080</b>	<b>259,833</b>	<b>5,330</b>	<b>180,608</b>	<b>3,864</b>	<b>251,233</b>	<b>6,810</b>	<b>186,033</b>	<b>3,859</b>
<b>Gill nets:</b>												
Alewives .....	.....	.....	.....	.....	22,167	293	19,007	244	.....	.....	.....	.....
Perch .....	2,570	225	2,765	240	1,850	161	1,850	112	1,175	120	1,015	103
Shad .....	.....	.....	.....	.....	32,100	1,605	22,700	1,135	506,400	28,320	254,200	18,710
Striped bass .....	2,200	264	2,175	201	1,175	141	1,075	129	1,800	210	1,750	210
Sturgeon .....	250	10	150	6	1,050	42	980	39	1,400	58	1,375	55
Suckers .....	875	70	780	60	675	54	640	76	875	70	980	78
Other fish .....	1,860	173	1,680	153	1,375	93	1,450	65	915	80	1,075	96
<b>Total</b> .....	<b>7,775</b>	<b>742</b>	<b>7,510</b>	<b>720</b>	<b>60,392</b>	<b>2,380</b>	<b>47,502</b>	<b>1,830</b>	<b>572,025</b>	<b>28,873</b>	<b>260,395</b>	<b>19,252</b>
<b>Fykenets:</b>												
Catfish .....	6,208	310	6,530	327	6,028	287	6,280	299	3,492	174	3,600	180
Perch .....	1,472	117	1,550	124	2,736	222	2,850	232	1,333	106	1,375	110
Striped bass .....	118	14	125	15	244	29	255	31	63	7	65	8
Suckers .....	3,182	165	3,360	168	1,553	85	1,618	89	1,740	97	1,800	100
Other fish .....	152	2	160	3	307	15	320	16	82	4	85	5
<b>Total</b> .....	<b>11,137</b>	<b>608</b>	<b>11,725</b>	<b>637</b>	<b>10,868</b>	<b>638</b>	<b>11,323</b>	<b>667</b>	<b>6,716</b>	<b>388</b>	<b>6,925</b>	<b>403</b>
<b>Pots:</b>												
Eels .....	780	55	825	58	940	56	950	57	675	47	725	51
<b>Grand total.</b>	<b>150,492</b>	<b>3,630</b>	<b>149,426</b>	<b>3,495</b>	<b>332,033</b>	<b>8,422</b>	<b>249,383</b>	<b>6,418</b>	<b>831,249</b>	<b>30,118</b>	<b>454,078</b>	<b>23,565</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New York—Continued.

Apparatus and species.	Greene.				Kings.				Orange.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seknes:</b>												
Alewives .....	286, 233	\$3, 687	275, 133	\$3, 562								
Catfish .....	2, 318	139	2, 417	145								
Perch .....	2, 987	170	3, 112	187								
Shad .....	41, 600	2, 080	33, 600	1, 680								
Other fish .....	2, 095	82	2, 671	78								
<b>Total .....</b>	<b>335, 833</b>	<b>6, 167</b>	<b>316, 933</b>	<b>5, 652</b>								
<b>Gill nets:</b>												
Alewives .....	50, 000	637	53, 500	674								
Perch .....	2, 130	210	2, 075	207					1, 350	\$135	1, 260	\$120
Shad .....	14, 900	745	9, 200	409	130, 000	\$6, 500	118, 000	\$5, 900	259, 600	12, 980	140, 200	7, 400
Striped bass .....	1, 750	210	1, 650	185					1, 000	127	975	117
Sturgeon .....									975	39	1, 050	42
Suckers .....	880	78	950	70					675	54	700	56
Other fish .....	1, 870	93	1, 500	55					1, 540	111	1, 025	113
<b>Total .....</b>	<b>71, 630</b>	<b>1, 973</b>	<b>68, 875</b>	<b>1, 657</b>	<b>130, 000</b>	<b>6, 500</b>	<b>118, 000</b>	<b>5, 900</b>	<b>265, 200</b>	<b>13, 440</b>	<b>154, 810</b>	<b>7, 914</b>
<b>Pound nets:</b>												
Bluefish .....					18, 000	900	3, 000	150				
Butter-fish .....					5, 000	200	12, 500	500				
Flounders .....					5, 000	300	7, 500	450				
Shad .....					9, 000	450	6, 000	300				
Squeteague .....					4, 725	350	3, 750	300				
<b>Total .....</b>					<b>41, 725</b>	<b>2, 200</b>	<b>32, 750</b>	<b>1, 700</b>				
<b>Fyke nets:</b>												
Catfish .....	2, 800	143	2, 750	138	10, 974	424	9, 300	360	5, 157	257	4, 820	241
Eels .....					12, 811	672	10, 857	570				
Flounders .....					12, 083	330	10, 240	280				
Perch .....	1, 170	93	1, 125	90	3, 481	120	2, 950	110	1, 890	148	1, 775	151
Shad .....					27, 564	1, 722	23, 360	1, 460				
Squeteague .....					5, 804	283	4, 970	240				
Striped bass .....	78	12	75	9	4, 720	613	4, 000	520	101	13	95	13
Suckers .....	780	38	780	38					1, 444	81	1, 350	76
Other fish .....	104	6	100	0	6, 865	188	5, 818	160	190	8	150	8
<b>Total .....</b>	<b>4, 992</b>	<b>292</b>	<b>4, 830</b>	<b>281</b>	<b>84, 362</b>	<b>4, 361</b>	<b>71, 495</b>	<b>3, 700</b>	<b>8, 761</b>	<b>597</b>	<b>8, 190</b>	<b>489</b>
<b>Lines:</b>												
Bluefish .....					4, 620	231	5, 500	275				
Catfish .....					3, 500	148	3, 820	161				
Cod .....					7, 700	462	9, 167	550				
Flounders .....					8, 140	238	10, 300	395				
Perch .....					1, 765	67	1, 510	60				
Squeteague .....					3, 100	150	4, 400	173				
Striped bass .....					600	80	920	97				
Tantog .....					1, 130	58	830	45				
Tomcod .....					800	36	1, 230	50				
Other fish .....					5, 800	231	6, 875	275				
<b>Total .....</b>					<b>37, 155</b>	<b>1, 701</b>	<b>44, 612</b>	<b>1, 090</b>				
<b>Spears:</b>												
Eels .....					22, 817	1, 369	17, 084	1, 025				
Flounders .....					933	56						
<b>Total .....</b>					<b>23, 750</b>	<b>1, 425</b>	<b>17, 084</b>	<b>1, 025</b>				
<b>Pots:</b>												
Eels .....	675	41	575	35	30, 000	1, 800	32, 500	1, 950	1, 150	80	1, 080	75
<b>Miscellaneous:</b>												
Oysters .....					2, 558, 500	516, 750	3, 052, 000	614, 320				
Soft clams or long clams .....					127, 000	11, 400	117, 000	10, 581				
Quahogs or hard clams .....					268, 400	33, 812	316, 600	39, 818				
Lobsters .....					6, 920	625	5, 730	575				
Crabs, hard .....					118, 410	2, 475	85, 400	2, 229				
Crabs, soft .....					33, 466	1, 600	40, 166	1, 750				
<b>Total .....</b>					<b>3, 112, 702</b>	<b>566, 722</b>	<b>3, 616, 896</b>	<b>669, 273</b>				
<b>Grand total.</b>	<b>413, 130</b>	<b>8, 473</b>	<b>391, 213</b>	<b>7, 625</b>	<b>3, 450, 694</b>	<b>584, 709</b>	<b>3, 933, 337</b>	<b>685, 636</b>	<b>275, 111</b>	<b>14, 033</b>	<b>164, 080</b>	<b>8, 478</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New York—Continued.

Apparatus and species.	Putnam.				Queens.				Rensselaer.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives					319,875	\$14,528	265,115	\$11,612	108,700	\$1,385	103,733	\$1,314
Bluefish												
Catfish									4,150	249	3,820	229
Eels					2,260	132	1,648	90				
Flounders					1,200	60	900	40				
Kingfish					59,783	4,199	51,817	3,409				
Mullet					40,600	1,933	37,560	1,778				
Perch					9,320	475	9,000	452	1,000	84	975	78
Sea bass					61,300	5,499	52,434	2,906				
Shad					6,342	444	6,685	408				
Spanish mack'l					20,471	1,433	17,605	1,231				
Squeteague					115,078	6,774	80,563	4,863				
Striped bass					44,085	3,128	36,029	3,482	1,050	120	1,500	180
Tomcod					65,200	3,016	61,650	2,466				
Other fish					33,600	1,652	7,880	389	4,065	195	3,930	196
<b>Total</b>					<b>779,774</b>	<b>43,273</b>	<b>628,916</b>	<b>33,186</b>	<b>119,025</b>	<b>2,039</b>	<b>113,958</b>	<b>1,997</b>
<b>Gill nets:</b>												
Alewives					206,667	1,550	163,333	1,225				
Bluefish					260,333	13,950	247,500	12,375				
Perch	1,075	886	1,160	8100					2,385	213	2,540	230
Shad	55,100	2,755	31,150	1,558								
Squeteague					103,428	6,000	101,143	6,100				
Striped bass	900	115	850	102					2,360	283	2,250	270
Sturgeon	835	33	925	37					250	10	180	7
Suckers	525	42	350	28					1,050	84	950	76
Other fish	1,450	125	1,215	102					2,070	186	2,190	104
<b>Total</b>	<b>59,945</b>	<b>3,156</b>	<b>35,656</b>	<b>1,927</b>	<b>579,428</b>	<b>21,500</b>	<b>511,076</b>	<b>19,700</b>	<b>8,115</b>	<b>776</b>	<b>8,110</b>	<b>777</b>
<b>Pound nets:</b>												
Flounders					900	46	860	44				
Shad					23,583	1,415	20,600	1,236				
Striped bass					3,335	237	4,120	206				
Tautog					1,100	72	1,020	67				
Other fish					3,150	78	2,470	53				
<b>Total</b>					<b>32,118</b>	<b>1,848</b>	<b>29,070</b>	<b>1,606</b>				
<b>Fyko nets:</b>												
Catfish	1,865	92	2,050	102	9,166	304	7,835	260	5,580	268	6,000	269
Eels					10,697	561	9,143	480				
Flounders					66,970	1,674	57,240	1,431				
Perch	477	38	525	42					1,627	130	1,750	140
Striped bass	68	8	75	9	908	74	520	64	70	9	85	10
Suckers	455	25	500	28					2,301	132	2,475	142
Other fish	77	4	85	5	5,950	175	5,080	150	60	3	75	4
<b>Total</b>	<b>2,942</b>	<b>167</b>	<b>3,235</b>	<b>186</b>	<b>93,391</b>	<b>2,788</b>	<b>79,824</b>	<b>2,385</b>	<b>9,656</b>	<b>542</b>	<b>10,385</b>	<b>585</b>
<b>Lines:</b>												
Bluefish					20,000	800	17,500	700				
Catfish					3,850	140	5,120	200				
Cod					82,000	3,800	68,750	3,350				
Flounders					38,860	1,720	29,372	1,278				
Kingfish					4,210	240	6,480	325				
Sea bass					8,000	400	7,000	350				
Squeteague					143,010	8,000	127,350	7,120				
Striped bass					8,725	840	9,120	910				
Tautog					43,500	2,580	38,735	2,115				
Tomcod					5,680	230	7,040	283				
Other fish					2,740	85	3,285	100				
<b>Total</b>					<b>360,555</b>	<b>18,635</b>	<b>310,702</b>	<b>16,731</b>				
<b>Spears:</b>												
Eels					219,383	13,163	235,316	14,110				
Flounders					58,117	3,479	55,100	3,306				
<b>Total</b>					<b>277,500</b>	<b>16,642</b>	<b>290,416</b>	<b>17,425</b>				
<b>Pots:</b>												
Eels	375	26	575	40	106,963	12,075	176,013	10,825	850	59	750	53
<b>Miscellaneous:</b>												
Oysters					2,920,400	510,180	3,024,070	524,340				
Soft clams					500,000	33,770	553,000	37,735				
Quahogs					1,536,640	236,275	1,784,960	274,780				
Lobsters					9,320	575	4,840	485				
<b>Total</b>					<b>4,963,360</b>	<b>780,800</b>	<b>5,366,870</b>	<b>837,340</b>				
<b>Grand total</b>	<b>63,282</b>	<b>3,340</b>	<b>39,466</b>	<b>2,153</b>	<b>7,283,089</b>	<b>807,761</b>	<b>7,402,787</b>	<b>939,198</b>	<b>137,646</b>	<b>3,416</b>	<b>133,203</b>	<b>3,412</b>



Statement by counties, apparatus, and species of the yield of the shore fisheries of New York—Continued.

Apparatus and species.	Richmond.				Rockland.				Suffolk.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives									18,500	\$340	12,000	\$235
Bluefish									1,125,175	45,013	965,350	38,616
Eels									10,800	760	9,100	635
Flounders									22,000	865	14,750	710
Kingfish									93,660	5,500	72,501	4,350
Minnows									45,100	750	25,000	480
Mullet									142,000	7,100	122,500	6,100
Perch									10,500	850	9,250	810
Sea bass									207,745	10,387	196,180	8,800
Shad	28,000	\$1,400	36,000	\$1,800								
Spanish mack'l.									42,132	2,850	39,999	2,800
Squeteague	30,000	1,800	22,000	1,100					319,500	15,085	208,467	13,840
Striped bass									31,471	2,200	44,274	3,100
Tautog									2,000	130	1,800	110
Tomcod									150,000	6,000	117,500	4,700
Other fish									35,600	1,800	27,100	1,450
<b>Total</b>	<b>58,000</b>	<b>3,200</b>	<b>58,000</b>	<b>2,900</b>					<b>2,256,180</b>	<b>100,230</b>	<b>1,956,971</b>	<b>87,745</b>
<b>Gill nets:</b>												
Alewives									756,067	5,674	751,600	5,637
Bluefish									482,850	26,901	462,150	25,092
Perch					1,150	\$104	985	\$97				
Sea bass									85,937	7,208	75,041	6,617
Shad	24,000	1,200	34,000	1,700	286,800	14,340	284,000	14,200	100,540	5,930	88,219	6,174
Squeteague	26,000	1,300	13,600	680					861,754	16,302	323,774	16,373
Striped bass					1,000	120	775	103				
Sturgeon					750	30	900	36				
Suckers					875	70	650	52				
Other fish					600	47	515	45	44,580	2,239	37,727	1,839
<b>Total</b>	<b>50,000</b>	<b>2,500</b>	<b>47,600</b>	<b>2,380</b>	<b>291,175</b>	<b>14,711</b>	<b>287,825</b>	<b>14,523</b>	<b>1,832,328</b>	<b>63,360</b>	<b>1,738,511</b>	<b>61,732</b>
<b>Pound nets:</b>												
Alewives									14,484	420	17,898	847
Bluefish									64,206	2,680	58,100	2,501
Bonito									2,500	200	1,750	150
Butter-fish									114,007	3,800	222,297	13,452
Eels									24,174	1,121	21,008	980
Flounders									72,159	1,375	62,026	2,172
Kingfish									8,471	916	7,565	761
Menhaden									1,746,164	2,095	1,304,984	1,868
Scup									90,325	1,876	86,918	1,738
Sea bass									45,567	2,393	39,345	1,986
Shad									6,824	553	5,054	410
Sheepshead									0,640	1,130	5,467	980
Skates									28,777	546	28,537	566
Spanish mack'l.									6,286	988	9,415	1,270
Spot									6,114	244	4,901	196
Squeteague									481,199	15,076	465,146	14,504
Squid									11,420	456	11,436	457
Striped bass									14,055	1,827	12,700	1,050
Sturgeon									8,695	225	5,881	156
Tautog									19,553	781	20,422	816
Tomcod									800	42	800	42
Other fish									22,048	617	13,459	276
Refuse fish									365,298	876	286,825	716
<b>Total</b>									<b>3,165,775</b>	<b>40,237</b>	<b>2,692,028</b>	<b>38,000</b>
<b>Fyke nets:</b>												
Alewives									24,770	309	25,020	324
Bluefish									25,102	1,084	28,350	1,134
Butter-fish									41,290	610	43,200	648
Catfish	6,475	258	5,980	235	3,996	199	3,000	180	11,615	232	12,150	243
Eels	4,820	247	5,330	260					5,822	904	6,090	320
Flounders									642,287	23,206	686,700	24,277
Kingfish									253	35	265	40
Menhaden									619,488	774	648,000	810
Perch	2,230	90	1,980	80	1,970	157	1,775	142				
Scup									38,718	774	40,500	810
Sea bass									7,743	387	8,100	405
Shad	6,792	475	7,080	495	1,720	86	1,650	78				
Squeteague									103,248	3,097	108,000	3,246
Striped bass	1,742	205	1,525	183	1,831	217	1,650	196	1,577	191	1,650	200
Sturgeon					1,165	40	1,050	42				
Suckers					2,081	122	1,275	110				
Tautog									9,070	387	10,125	405
Tomcod									38,813	738	40,600	772
Other fish	4,000	120	3,235	97	832	49	750	45	26,156	576	27,360	603
Refuse fish									92,923	222	97,200	243
<b>Total</b>	<b>32,979</b>	<b>1,482</b>	<b>31,530</b>	<b>1,450</b>	<b>13,595</b>	<b>870</b>	<b>12,250</b>	<b>793</b>	<b>1,989,502</b>	<b>32,940</b>	<b>2,084,210</b>	<b>34,474</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New York—Continued.

Apparatus and species.	Richmond.				Rockland.				Suffolk.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Lines:</b>												
Bluefish									90,240	\$4,512	82,080	\$4,312
Catfish	2,000	\$90	2,530	\$115					4,610	160	5,460	210
Cod									159,175	6,012	139,231	6,064
Flounders	8,625	300	7,780	275					45,685	1,367	38,920	1,180
Haddock									13,520	338	11,320	283
Kingfish									9,165	550	10,200	592
Perch	2,535	130	2,782	141					3,800	190	3,250	174
Sea bass									2,780	111	2,436	100
Squeteague	58,945	2,950	54,320	2,715					128,420	6,425	135,000	6,750
Striped bass	14,560	1,575	16,933	1,822					2,890	315	2,120	248
Tautog	3,415	170	3,000	150					38,995	1,554	32,400	1,295
Tomcod	2,130	68	3,200	100					8,415	245	9,380	280
Other fish	1,750	60	2,180	60					6,050	197	5,364	176
<b>Total</b>	<b>93,960</b>	<b>5,343</b>	<b>92,725</b>	<b>5,378</b>					<b>513,745</b>	<b>22,876</b>	<b>477,781</b>	<b>21,664</b>
<b>Spears:</b>												
Eels									272,106	15,428	268,100	16,629
Flounders									93,363	5,472	97,331	5,720
<b>Total</b>									<b>365,469</b>	<b>20,900</b>	<b>365,431</b>	<b>22,349</b>
<b>Pots:</b>												
Eels	22,500	1,350	20,833	1,250	2,285	\$160	2,214	\$155	709,849	42,383	689,416	40,840
<b>Miscellaneous:</b>												
Oysters	840,700	102,720	952,000	125,250					1,289,050	179,950	1,713,600	241,050
Soft clams	65,000	3,900	53,000	3,180					848,000	50,240	757,500	51,895
Quahogs	73,600	11,500	68,000	10,625					1,282,000	174,700	1,304,200	173,368
Lobsters	9,260	888	8,150	810					23,517	2,333	21,234	2,133
Crabs, hard									311,600	4,995	350,166	5,300
Crabs, soft									55,000	1,750	53,334	1,700
<b>Total</b>	<b>988,560</b>	<b>119,008</b>	<b>1,081,150</b>	<b>139,865</b>					<b>3,809,767</b>	<b>413,968</b>	<b>4,200,034</b>	<b>475,556</b>
<b>Grand total</b>	<b>1,245,099</b>	<b>132,883</b>	<b>1,331,883</b>	<b>153,223</b>	<b>307,055</b>	<b>15,747</b>	<b>302,289</b>	<b>15,471</b>	<b>14,042,624</b>	<b>736,894</b>	<b>14,204,362</b>	<b>782,360</b>

Apparatus and species.	Ulster.				Westchester.				Total.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
<b>Seines:</b>												
Alewives	172,233	\$2,201	177,233	\$2,260	115,267	\$1,470	150,166	\$1,914	1,183,409	\$15,401	1,136,597	\$14,015
Bluefish									1,445,050	59,541	1,230,465	50,228
Catfish	2,836	170	2,713	163					17,354	1,018	17,025	990
Eels									13,060	892	10,748	725
Flounders									23,200	925	15,650	750
Kingfish									153,449	9,099	124,318	7,750
Minnows									45,100	750	25,600	480
Mullet									182,600	9,033	160,000	7,878
Perch	1,742	105	1,191	71	11,200	896	10,200	816	44,439	3,051	41,808	2,901
Sea bass									209,105	15,886	248,614	12,715
Shad	151,600	7,580	90,600	4,530	118,400	5,920	103,200	5,160	480,742	24,124	332,085	16,748
Spanish mackerel									62,603	4,283	57,604	4,031
Squeteague									464,578	24,259	401,030	19,803
Striped bass					15,400	1,848	12,500	1,500	94,406	7,518	95,503	8,406
Tautog									2,000	130	1,800	110
Tomcod									215,200	9,016	179,150	7,166
Other fish	1,422	25	1,596	41	1,800	108	1,500	90	86,202	4,080	52,597	2,517
<b>Total</b>	<b>329,833</b>	<b>10,081</b>	<b>273,333</b>	<b>7,065</b>	<b>262,067</b>	<b>10,242</b>	<b>277,566</b>	<b>9,480</b>	<b>4,782,587</b>	<b>189,606</b>	<b>4,130,684</b>	<b>157,828</b>
<b>Gill nets:</b>												
Alewives									1,035,501	8,154	987,440	7,780
Bluefish									752,183	40,851	709,650	37,467
Perch	1,610	145	2,035	185	2,180	150	1,965	137	17,475	1,549	17,150	1,527
Sea bass									85,937	7,208	75,041	6,617
Shad	217,400	10,870	161,420	8,055	1,526,800	76,340	1,401,600	74,580	3,213,440	160,691	2,643,695	139,032
Squeteague									491,182	23,602	438,517	23,153
Striped bass	1,475	177	1,000	192	1,250	150	1,100	132	15,030	1,803	14,200	1,701
Sturgeon	1,250	50	1,050	42	850	34	650	38	7,670	306	7,560	302
Suckers	865	68	950	76	1,440	72	1,440	72	8,820	662	8,070	650
Other fish	750	69	1,315	120	1,157	80	1,085	73	58,202	3,305	51,357	2,885
<b>Total</b>	<b>223,350</b>	<b>11,370</b>	<b>168,370</b>	<b>8,670</b>	<b>1,533,677</b>	<b>76,826</b>	<b>1,408,140</b>	<b>75,032</b>	<b>5,085,040</b>	<b>248,131</b>	<b>4,053,280</b>	<b>222,014</b>

FISHERIES OF THE MIDDLE ATLANTIC STATES.

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Statement by counties, apparatus, and species of the yield of the shore fisheries of New York—Continued.

Apparatus and species.	Ulster.				Westchester.				Total.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
<b>Pound nets:</b>												
Alewives									14,484	\$420	17,898	\$347
Bluefish									82,206	3,580	61,190	2,051
Bonito									2,500	200	1,750	150
Butter-fish									110,007	4,000	234,797	3,932
Eels									24,174	1,121	21,008	980
Flounders									78,059	1,721	70,386	2,066
Kingfish									8,471	916	7,565	761
Menhaden									1,746,164	2,095	1,304,984	1,868
Scup									96,325	1,876	86,918	1,738
Sea bass									45,567	2,393	39,345	1,986
Shad									39,407	2,418	31,054	1,952
Sheepshead									6,040	1,130	5,467	980
Skates									28,777	546	28,537	566
Spanish mack'l.									6,286	988	9,415	1,270
Spot									6,114	244	4,901	196
Squeteague									485,924	15,426	468,896	14,804
Striped bass									17,440	2,064	16,820	1,856
Sturgeon									8,695	225	5,881	156
Tautog									20,653	853	21,442	883
Tomcod									800	42	800	42
Other fish									25,198	695	15,920	329
Refuse fish									365,298	876	286,820	716
Squid									11,420	456	11,436	457
<b>Total</b>									<b>3,239,618</b>	<b>44,285</b>	<b>2,753,848</b>	<b>41,306</b>
<b>Fyke nets:</b>												
Alewives									31,699	396	32,320	404
Bluefish									25,102	1,084	28,350	1,134
Butter-fish									41,209	619	43,200	648
Catfish	4,370	\$200	4,600	\$221	2,000	\$100	2,450	\$123	79,781	3,257	77,945	3,198
Eels									34,150	1,781	31,420	1,050
Flounders					15,000	750	10,000	500	1,036,340	25,962	1,064,180	26,488
Kingfish									253	38	265	40
Menhaden									619,488	774	648,000	810
Perch	1,757	140	1,850	148	1,275	102	1,050	84	21,427	1,472	20,555	1,453
Scup									38,718	774	40,500	810
Sea bass									7,743	387	8,100	405
Shad					950	48	800	40	37,026	2,331	32,790	2,073
Squeteague									100,112	3,380	112,970	3,480
Striped bass	80	9	85	10	7,250	870	6,100	732	18,559	2,271	16,305	2,000
Sturgeon					700	28	650	26	1,865	74	1,700	68
Suckers	997	64	1,050	68	1,600	64	1,900	76	16,149	873	16,708	895
Tautog					10,000	500	8,000	400	10,679	867	18,125	805
Tomcod					10,000	500	8,000	400	48,813	1,238	48,600	1,172
Other fish	142	8	150	9	300	18	275	16	45,196	1,176	43,649	1,127
Refuse fish									92,923	222	97,200	243
<b>Total</b>	<b>7,346</b>	<b>430</b>	<b>7,735</b>	<b>456</b>	<b>49,075</b>	<b>2,980</b>	<b>39,225</b>	<b>2,397</b>	<b>2,325,322</b>	<b>48,990</b>	<b>2,382,882</b>	<b>48,903</b>
<b>Lines:</b>												
Bluefish									114,860	5,543	105,680	5,287
Catfish					4,840	246	5,280	265	18,780	784	22,210	950
Cod									248,875	11,174	217,148	9,964
Flounders					10,470	960	21,365	995	129,780	4,565	107,737	4,033
Haddock									13,520	838	11,320	283
Kingfish									13,375	790	16,630	917
Perch					620	50	1,070	73	8,720	437	8,612	448
Sea bass									10,730	511	9,436	450
Squeteague									333,475	17,525	321,130	16,758
Striped bass					1,215	145	880	145	27,090	2,055	29,973	3,182
Tautog					2,300	110	2,040	100	89,340	4,472	77,005	3,705
Tomcod					29,802	1,940	29,000	1,375	43,827	1,019	49,850	2,088
Other fish					1,140	35	1,300	49	17,480	608	19,004	651
<b>Total</b>					<b>56,987</b>	<b>2,886</b>	<b>60,935</b>	<b>2,953</b>	<b>1,061,802</b>	<b>51,641</b>	<b>995,735</b>	<b>48,716</b>
<b>Spears:</b>												
Eels					5,000	500	3,500	350	519,306	30,460	524,000	32,123
Flounders									152,413	9,007	152,431	9,026
<b>Total</b>					<b>5,000</b>	<b>500</b>	<b>3,500</b>	<b>350</b>	<b>671,719</b>	<b>39,467</b>	<b>676,431</b>	<b>41,149</b>
<b>Pots:</b>												
Eels	975	58	875	52	31,000	3,100	30,000	3,000	999,017	61,280	957,331	58,441
<b>Miscellaneous:</b>												
Oysters					630,000	65,000	560,000	58,000	8,238,650	1,374,600	9,301,670	1,562,960
Soft clams					40,000	4,000	25,000	2,500	1,580,000	103,370	1,505,500	105,891
Quahogs					336,000	52,500	320,000	50,000	3,497,240	508,737	3,793,760	548,591
LOBSTERS					12,000	1,500	10,000	1,250	58,017	5,921	49,954	5,303
Crabs, hard									430,016	7,470	435,566	7,589
Crabs, soft									88,466	3,350	93,500	3,450
<b>Total</b>					<b>1,018,000</b>	<b>123,000</b>	<b>915,000</b>	<b>111,750</b>	<b>13,892,359</b>	<b>2,003,498</b>	<b>15,179,950</b>	<b>2,233,784</b>
<b>Grand total</b>	<b>561,504</b>	<b>21,948</b>	<b>450,313</b>	<b>16,243</b>	<b>2,955,206</b>	<b>219,534</b>	<b>2,824,366</b>	<b>204,962</b>	<b>32,658,094</b>	<b>2,686,917</b>	<b>32,030,141</b>	<b>2,852,141</b>

## FISHERIES OF NEW JERSEY.

*Importance and prominent features of industry.*—The rank of New Jersey among the States of this section, as determined by the value of the products, is fourth, although the difference between it and Virginia is so slight that a comparatively unimportant advance in the catch of one of a dozen species would place this State ahead. Its position is only one point lower when the entire country is considered.

The natural features of this State are extremely favorable to the prosecution of extensive fisheries. The long ocean frontage permits the carrying on of various fisheries for the typical salt-water fishes, which are unusually abundant on this coast; the large bays of the northern and southern extremities of the State and the smaller bays on the ocean side afford uncommonly fine opportunities for oyster fishing and cultivation, in addition to being the haunts of numerous shore and anadromous fishes of recognized food value, while the two foremost shad rivers in the country skirt the borders of the State, the Delaware forming practically its entire western boundary and the Hudson its eastern border for a distance of 22 miles above its mouth.

Every part of the State is within easy rail communication with New York, Brooklyn, Philadelphia, Jersey City, Newark, Trenton, and other large cities of New York, Pennsylvania, and New Jersey, thus insuring a ready and constant market, while the enormous summer population of the seaside communities is in itself sufficient to maintain profitable fisheries of large proportions.

The specially prominent fisheries of this State are the taking of oysters and clams in lower New York, Delaware, and the smaller bays of the outer coast; the pound-net fishing on the northern part of the ocean shore; the line fishing for bluefish and sea bass carried on in the ocean from small boats; the gill-net and seine fishing for shad, alewives, and sturgeon in the Hudson and Delaware Rivers; the pound-net fishery for shad and other fishes along the shore west of Sandy Hook, and the menhaden industry. The fisheries in which New Jersey surpasses the other States of this region are the shore bluefish, the sea bass, the shad, the squeteague, and the king crab, and in the output of these same products the State takes precedence of the entire country.

*Statistical summary.*—In the following series of tables, condensed statistics of the fisheries of this State in 1889, 1890, 1891, and 1892 are presented.

The number of persons employed in the industry varied but little in the years named. In 1892, 10,447 persons were engaged, of whom 2,157 were vessel fishermen, 7,560 shore and boat fishermen, 194 transporters, and 536 shore employés, such as factory hands.

In the last year covered by the returns, \$2,571,413 was represented by the vessels, boats, apparatus, shore property, and cash capital devoted to the business. The principal factors in this large amount were 540 fishing vessels, valued, with their outfits, at \$718,060; 79 transporting vessels, worth \$117,565; 5,591 boats, with a value of \$414,321; 3,941 gill nets, worth \$129,791; 234 pound nets, valued at \$83,913; shore property and cash capital, \$969,243. The investment in 1892 was larger than in any of the three preceding years, and was about \$350,000 more than in 1889.

The yield of the fisheries in 1892 was 73,267,434 pounds, valued at \$3,646,382. The quantity of the catch was less and the value was greater than in any of the other years. The decrease in the output was due chiefly to a diminished catch of bluefish and menhaden, while the augmented value of the yield depended chiefly on larger sales of market and seed oysters.

FISHERIES OF THE MIDDLE ATLANTIC STATES.

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Persons employed in the fisheries of New Jersey.

Designation.	1889.	1890.	1891.	1892.
In vessel fisheries .....	1,871	1,893	2,017	2,157
In shore fisheries .....	7,783	7,822	7,889	7,560
On transporting vessels .....	169	181	201	194
On shore, in factories, etc .....	524	532	532	536
Total .....	10,347	10,428	10,639	10,447

Vessels, boats, shore property, and cash capital employed in the fisheries of New Jersey.

Designation.	1889.		1890.		1891.		1892.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Vessels fishing .....	499	\$490,880	500	\$502,400	524	\$541,520	540	\$589,965
Tonnage .....	7,387		7,510		7,883		8,255	
Outfit .....		104,728		111,089		122,433		128,095
Vessels transporting .....	60	85,600	71	96,050	83	108,150	79	104,150
Tonnage .....	1,094		1,296		1,437		1,329	
Outfit .....		9,390		11,167		13,255		13,415
Boats .....	5,600	396,665	5,616	401,718	5,742	412,373	5,591	414,321
Apparatus—vessel fisheries:								
Seines .....	10	5,650	11	6,100	12	6,100	10	5,450
Lines and trawls .....		322		315		370		450
Pots, lobster and eel .....	200	199	341	305	270	245	235	210
Oyster dredges and tongs .....	1,427	34,712	1,453	35,917	1,533	38,980	1,603	40,398
Clam rakes and tongs .....	459	6,787	368	3,799	397	4,793	388	4,660
Crab dredges .....	24	96	60	240	102	408	92	402
Apparatus—shore fisheries:								
Seines .....	340	30,832	353	31,931	360	31,922	357	32,268
Gill nets .....	4,120	127,196	4,045	129,911	3,983	129,832	3,951	129,791
Pound nets and weirs .....	102	43,015	141	40,571	185	55,370	234	83,913
Fyke nets and bag nets .....	1,730	17,331	1,794	18,256	1,692	18,881	1,625	18,431
Pots, eel and lobster .....	4,100	4,811	4,036	4,824	4,485	5,094	4,335	4,518
Lines and trawls .....		4,339		4,189		4,808		4,358
Oyster tongs, rakes, and dredges .....	2,495	12,501	2,492	12,392	2,493	12,307	2,642	13,470
Clam tongs, rakes, and hoes .....	2,077	11,368	2,155	11,625	2,160	11,652	2,217	12,996
Minor apparatus .....		894		903		891		909
Shore and accessory property .....		375,389		395,875		409,561		420,743
Cash capital .....		468,450		530,650		538,501		548,500
Total .....		2,231,155		2,350,377		2,467,865		2,571,413

Products of the fisheries of New Jersey.

Species.	1889.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Albacore .....	3,708	\$94	3,796	\$90	4,176	\$100	6,410	\$186
Alewives .....	3,328,235	33,829	1,860,740	14,453	2,006,820	14,260	1,985,555	14,361
Black bass .....	5,535	663	6,935	873	9,250	1,166	12,035	1,542
Bluefish .....	8,564,600	313,805	9,291,125	340,939	7,227,926	264,163	4,765,873	178,691
Bonito .....	177,850	6,411	144,750	5,144	150,633	9,857	105,643	4,000
Butter-fish .....	236,900	7,027	238,685	7,091	230,802	6,582	368,862	10,845
Carp .....	2,725	218	2,625	202	2,000	160	2,025	162
Catfish .....	214,423	12,892	157,925	9,735	133,824	8,265	144,938	8,877
Cero .....	956	42	4,500	26	847	38	3,610	172
Cod .....	981,535	26,284	729,747	19,164	841,011	26,001	676,859	20,691
Dogfish .....	36,000	90	60,000	150	77,000	190	56,000	140
Drum .....	22,683	671	26,900	726	134,240	980	39,650	892
Eels .....	570,180	37,357	579,438	37,300	623,280	38,594	505,210	36,283
Flounders .....	885,912	31,374	923,365	32,091	987,895	33,620	1,221,172	36,645
Frostfish or tomcod .....	3,000	90	135	1,400	42	2,000	60	
Haddock .....	21,620	709	18,710	638	17,940	675	16,070	487
Hake .....	13,800	240	12,400	188	12,080	204	8,526	89
Kingfish .....	33,050	2,073	49,550	2,730	33,697	2,298	20,783	1,908
Mackerel .....	12,987	1,172	9,919	987	25,117	2,316	22,907	2,747
Menhaden .....	22,240,576	64,084	30,391,227	63,535	20,670,542	56,974	16,565,541	48,535
Mullet .....	48,670	1,860	92,400	5,131	88,350	4,062	43,500	2,458
Perch, white .....	198,104	13,491	215,273	15,261	193,724	13,539	182,887	12,636
Perch, yellow .....	463,370	24,796	488,524	26,291	500,238	27,219	304,332	21,767

## Products of the fisheries of New Jersey—Continued.

Species.	1889.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Pike .....	19,584	\$1,812	18,940	\$1,859	19,485	\$1,904	18,880	\$1,811
Scup .....	12,000	422	16,220	630	25,682	855	48,150	1,579
Sea bass .....	2,968,328	118,658	3,560,419	139,992	3,731,538	147,693	3,892,311	153,431
Shad .....	10,423,572	372,543	10,622,719	409,659	10,225,455	443,438	8,746,518	582,221
Sheepshead .....	59,754	8,508	23,566	3,772	26,290	4,013	37,337	5,461
Skates .....	7,400	370	9,300	465	7,050	353	5,700	286
Spanish mackerel .....	57,232	9,555	59,050	9,700	78,391	12,620	117,254	15,907
Spots and croakers .....	43,260	1,938	78,010	3,336	106,680	4,521	184,182	7,424
Squeteague or weakfish .....	4,716,330	138,106	4,073,008	180,465	6,002,563	201,515	7,540,196	298,051
Striped bass .....	305,884	42,610	328,196	47,645	298,164	43,296	219,675	33,395
Sturgeon .....	3,592,188	67,498	455,775	11,868	452,630	10,619	448,887	8,829
Suckers .....	50,843	3,756	56,546	3,914	56,080	4,008	53,430	3,667
Tautog .....	84,395	3,696	89,945	3,654	99,437	3,894	93,630	3,723
Other fish .....	85,411	2,864	63,622	3,053	73,217	3,152	105,122	3,258
Crabs, soft .....	239,700	31,805	275,500	31,675	289,500	35,880	409,520	37,642
Crabs, hard .....	53,866	2,034	142,333	5,317	230,111	9,499	164,433	7,267
Crabs, king .....	1,974,188	6,162	3,335,700	8,573	2,798,980	7,534	2,025,400	5,369
Lobsters .....	188,347	14,301	185,321	13,683	165,664	12,463	143,905	10,861
Shrimp .....			1,050	525	1,200	600	750	500
Mussels .....					6,000	200		
Oysters, market .....	7,457,408	1,060,182	7,956,515	1,218,792	7,686,322	1,227,909	8,047,151	1,270,568
Oysters, seed .....	7,706,965	356,510	7,856,030	375,388	8,428,245	411,739	10,157,140	496,060
Quahogs or hard clams .....	3,414,192	311,601	3,396,364	342,637	3,454,024	371,933	2,990,572	349,221
Clams, soft or long .....	772,110	44,660	815,270	47,090	827,000	47,700	595,450	34,620
Terrapins .....	2,250	683	2,560	770	3,280	1,074	2,598	997
Turtles .....							2,795	60
Total .....	82,361,635	3,170,376	88,730,048	3,447,351	79,116,380	3,520,057	73,267,434	3,646,382

The molluscan and crustacean products shown in the preceding table, which are usually designated by a different unit than pounds, are separately shown by number or bushels in the following table:

Species.	1889.	1890.	1891.	1892.
Crabs, soft .....	number..	893,100	826,500	868,500
Crabs, hard .....	do .....	161,598	426,999	690,333
Crabs, king .....	do .....	987,094	1,667,850	1,399,490
Oysters, market .....	bushels..	1,065,344	1,136,645	1,098,046
Oysters, seed .....	do .....	1,100,995	1,122,290	1,204,035
Quahogs or hard clams .....	do .....	426,774	424,546	431,753
Clams, soft or long .....	do .....	77,211	81,527	82,700
Mussels .....	do .....			600

*Statistics of the fisheries by counties.*—Commercial fishing is carried on in 17 counties in this State bordering on the ocean, the bays tributary thereto, and the Delaware and Hudson rivers. Seven of these, viz, Atlantic, Burlington, Cape May, Cumberland, Middlesex, Monmouth, and Ocean abut on salt water, and several others have vessels which follow fishing for salt-water species. The counties named are those maintaining the most important fisheries.\*

The preeminent county of New Jersey, viewed from the fishing standpoint, is Cumberland. More persons are there employed, a greater amount of money is invested, and the value of the products is more than in any other county. The importance of the fisheries of this county is due entirely to the oyster industry, as the business of taking other products is insignificant. In 1892, 2,005 persons were employed in the fisheries of this county; of these 1,481 were vessel fishermen, 245 shore fishermen, and 279 shore employes. The capital invested was \$372,570. The principal items entering into this investment were 336 vessels, valued at \$454,363, a much larger number than was found in the remainder of the State; 133 boats, valued at \$15,335; 1,412 oyster dredges and tongs, with a value of \$33,890; and \$362,371 representing shore property

\* In 1892 a large amount of fishing is shown in Ocean County which was credited to Burlington County in previous years. In the year named the county line of Burlington County was moved south, throwing a considerable part of that county into Ocean County.

and working capital. The value of the products was \$1,006,232. Of this sum the oyster yield constituted \$963,755. The only other objects worthy of mention were shad, worth \$33,457, and sturgeon, worth \$7,310.

Next in importance to Cumberland is Monmouth County, which has varied fishing interests, and in respect to its food-fish fisheries is one of the most prominent sections on the Atlantic seaboard. It has a frontage on the ocean and also on Sandy Hook Bay, and includes all that part of the New Jersey coast north of Manasquan and east of Keyport. In the years 1890 and 1891 the number of fishermen and value of the catch were greater than in any other county. In 1892, 1,981 persons were employed, of whom 1,534 were shore fishermen. The decrease of over 400 persons, as compared with the previous year, was almost entirely due to the very disastrous fire which visited Seabright, the principal fishing center, in the latter part of 1891, causing many line fishermen to leave that community and seek employment elsewhere or engage in other occupations. The aggregate investment was \$572,003. Vessels to the number of 132 were operated; these were valued at \$147,465. The 1,119 small boats used had a value of \$67,640. The most valuable apparatus employed were pound nets, 48 of which were worth \$67,540. All other apparatus had a value of only \$34,538.

The catch in Monmouth County consisted of a large variety of water products. Oysters had a value of \$226,864, hard clams \$183,671, bluefish \$130,653, squeteague \$103,049, sea bass \$61,034, crabs \$37,308, soft clams \$32,780, menhaden \$30,762, and other products \$105,732, the whole being worth \$911,853 to the fishermen. In 1890 and 1891 the fishermen received \$1,059,229 and \$1,092,440, respectively, for their catch. The decline indicated from 1891 to 1892 was due principally to the smaller number of fishermen engaged in line fishing, and was made up largely of bluefish and sea bass; there was also, however, a diminished yield of menhaden, oysters, and soft clams, while the catch of squeteague was much larger.

Each of the counties of Atlantic, Ocean, and Salem has over 1,000 persons engaged in the fishing industry, over \$130,000 invested, and products worth over \$250,000. Burlington, Camden, and Cape May counties also have important fisheries.

The following tables, relating to the years 1890, 1891, and 1892, present detailed statistics for each county:

*Statement by counties of the number of persons employed in the fisheries of New Jersey.*

Counties.	In vessel fisheries.			In shore fisheries.			On transporting vessels.			On shore, in factories, etc.			Total.		
	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.
Atlantic .....	79	77	90	1,013	1,035	967	43	46	42	61	62	61	1,106	1,220	1,160
Bergen .....				121	112	114							121	112	114
Burlington...	30	43		917	911	930	17	19	2	31	43	12	905	1,016	644
Camden .....	149	160	184	170	174	173	15	12	15				334	346	352
Cape May .....	63	69	83	587	672	734	16	18	19	8	8	10	674	767	846
Cumberland..	1,269	1,357	1,481	187	201	245				230	260	270	1,695	1,818	2,005
Essex .....										25	26	26	25	26	26
Gloucester ..	5		5	174	170	167							179	170	172
Hudson .....	10	8	8	182	185	181	2	4	4	5	5	6	109	202	199
Hunterdon and Warren ..				81	81	78							81	81	78
Mercer .....				53	49	50							53	49	50
Middlesex ..	5	2		282	266	279	16	16	16				302	284	295
Monmouth...	270	287	278	1,958	1,942	1,534	54	72	61	151	116	108	2,433	2,417	1,981
Ocean .....	13	14	48	682	694	908	18	14	35	6	6	30	710	728	1,111
Salem .....				1,305	1,307	1,309							1,305	1,307	1,309
Union .....				110	90	101				6	6	4	116	90	105
Total...	1,893	2,017	2,157	7,822	7,889	7,560	181	201	194	532	532	536	10,428	10,639	10,447

Statement by counties of the apparatus and capital employed in the fisheries of New Jersey.

Designation.	Atlantic.						Bergen.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	24	\$27,400	24	\$24,600	25	\$37,050						
Tonnage	297		289		325							
Outfit		5,931		6,360		6,739						
Vessels transporting	17	27,800	13	30,000	17	24,350						
Tonnage	442		454		393							
Outfit		2,850		3,045		2,978						
Boats	935	57,259	984	62,083	907	61,421	102	\$4,560	90	\$4,000	92	\$4,080
Apparatus—vessel fisheries:												
Seines	2	1,500	2	1,500	2	1,500						
Lines		205		275		360						
Oyster dredges and tongs	46	804	30	558	44	702						
Clam rakes and tongs	22	118	23	124	19	103						
Apparatus—shore fisheries:												
Seines	66	3,135	71	3,268	62	3,355						
Gill nets	60	202	60	202	46	142	1,283	8,855	1,181	8,278	1,179	8,218
Fyke nets and bag nets	26	456	29	546	29	546						
Pots, lobster and eel							100	200	120	240	120	240
Lines		1,315		1,363		1,163						
Oyster tongs, rakes, and dredges	360	1,517	383	1,620	431	1,865						
Clam tongs, rakes, and hoes	482	1,874	492	1,909	503	1,944						
Minor apparatus		4		4		4						
Shore property		30,460		31,455		30,980		5,255		4,780		4,700
Cash capital		62,400		65,400		68,400						
Total		225,230		234,312		243,578		18,870		17,298		17,298

  

Designation.	Burlington.						Camden.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	3	\$16,500	4	\$23,500			30	\$42,700	31	\$47,300	30	\$49,150
Tonnage	87		151				636		688		689	
Outfit		3,715		4,475				9,360		9,845		10,325
Vessels transporting	7	7,300	8	8,800	1	\$350	5	5,550	4	3,850	5	5,300
Tonnage	110		134		13		78		56		76	
Outfit		1,070		995		20		515		400		500
Boats	739	34,550	743	35,930	401	17,915	47	0,990	49	7,385	48	7,350
Apparatus—vessel fisheries:												
Seines	2	1,200	3	1,700								
Lines								5				
Oyster dredges and tongs	3	12	3	12			114	2,800	123	3,050	117	2,925
Apparatus—shore fisheries:												
Seines	35	6,100	36	5,930	31	5,150	4	3,300	4	3,250	4	3,300
Gill nets	141	9,414	142	8,925	149	8,937	35	4,150	37	4,550	37	4,475
Fyke nets and bag nets	1,282	8,185	1,168	7,935	1,000	7,595						
Pots, lobster and eel	315	158	315	158	18	9						
Lines		441		419		407						
Oyster tongs, rakes, and dredges	318	1,141	328	1,177	76	228						
Clam tongs, rakes, and hoes	373	1,516	375	1,524	76	304						
Minor apparatus		35		35								
Shore property		25,735		31,435		8,025		1,265		1,270		1,265
Cash capital		26,000		28,500		4,000						
Total		143,072		161,450		52,940		76,035		80,900		84,590

  

Designation.	Essex.						Gloucester.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing							1	\$1,000			1	\$1,000
Tonnage							25				25	
Outfit								200				135
Boats							85	10,775	83	\$10,435	82	10,540
Apparatus—vessel fisheries:												
Oyster dredges and tongs							4	100			4	100
Apparatus—shore fisheries:												
Seines							1	300	1	275	1	250
Gill nets							83	9,325	81	9,300	80	9,125
Shore property		\$17,400		\$17,500		\$17,500		917		917		917
Cash capital		16,000		15,000		13,500						
Total		33,400		32,500		31,000		22,677		20,927		22,067



FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties of the apparatus and capital employed in the fisheries of New Jersey—Continued.

Designation.	Cape May.						Cumberland.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	22	\$18,350	24	\$18,950	28	\$23,550	303	\$315,415	323	\$334,145	336	\$368,240
Tonnage .....	248		284		344		5,045		5,333		5,597	
Outfit .....		3,125		3,070		3,990		74,747		78,607		86,123
Vessels transporting .....	16	6,900	7	8,700	7	8,900						
Tonnage .....	38		154		153							
Outfit .....		415		555		575						
Boats .....	521	11,123	548	12,800	585	14,636	98	12,168	106	12,715	133	15,335
Apparatus—vessel fisheries:												
Lines .....		38		35		25		15				15
Pots, lobster and eel .....	35	35	70	70	35	35						
Oyster dredges and tongs .....	60	1,575	68	1,725	84	2,125	1,175	29,146	1,257	31,281	1,304	32,291
Apparatus—shore fisheries:												
Seines .....	105	3,465	105	3,445	112	3,610	1	200	1	100	1	175
Gill nets .....	17	770	33	1,465	47	2,270	59	6,075	62	6,375	61	6,395
Pound nets .....	102	3,081	140	3,640	174	6,003	4	40	4	40	7	70
Fyke nets and bag nets .....	3	150	3	150	3	150						
Pots, lobster and eel .....												
Lines .....		243		830		666						
Oyster tongs, rakes, and dredges .....	136	247	143	292	149	271	54	790	64	855	108	1,555
Clam tongs, rakes, and hoes .....	222	923	184	719	257	2,130						
Minor apparatus .....		134		133		150						
Shore property .....		19,235		19,285		22,410		127,717		132,832		139,871
Cash capital .....		27,800		25,000		28,000		191,500		211,500		222,500
Total .....		97,639		100,834		119,526		757,813		808,540		872,570

Designation.	Hudson.						Hunterdon and Warren.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	5	\$7,000	4	\$5,800	4	\$5,800						
Tonnage .....	68		50		56							
Outfit .....		635		500		480						
Vessels transporting .....	1	700	2	1,900	2	1,900						
Tonnage .....	6		18		18							
Outfit .....		50		200		200						
Boats .....	96	4,695	99	4,770	98	4,490	40	\$1,380	41	\$1,385	34	\$1,375
Apparatus—vessel fisheries:												
Pots, lobster and eel .....	200	175	200	175	200	175						
Oyster dredges and tongs .....	8	140	6	100	6	100						
Apparatus—shore fisheries:												
Seines .....			1	50	1	50	21	4,020	20	4,190	20	4,140
Gill nets .....	700	6,000	700	6,000	630	5,400						
Fyke nets and bag nets .....	210	3,750	210	3,750	210	3,750						
Pots, lobster and eel .....	80	80	75	75	75	75						
Oyster tongs, rakes, and dredges .....	65	325	68	340	70	350						
Shore property .....		3,765		3,765		3,765		890		875		850
Total .....		27,315		27,425		26,535		6,290		6,450		6,365

Designation.	Mercer.						Middlesex.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....							2	\$1,100	1	\$300		
Tonnage .....							16		7			
Outfit .....								350		130		
Vessels transporting .....							6	8,700	6	8,000	6	\$8,000
Tonnage .....							83		86		86	
Outfit .....								930		930		930
Boats .....	35	\$1,230	33	\$1,220	31	\$1,195	293	17,890	259	17,430	261	17,565
Apparatus—vessel fisheries:												
Pots, lobster and eel .....							100	150				
Clam rakes and tongs .....							4	50	4	50		
Apparatus—shore fisheries:												
Seines .....	8	1,475	8	1,550	8	1,525	4	2,500	4	2,500	5	2,900
Gill nets .....	19	1,090	21	1,290	19	1,120	50	1,000	50	1,000	50	1,000
Pound nets .....								1		1		500
Fyke nets and bag nets .....							20	610	22	990	17	800
Pots, lobster and eel .....							10	25	10	25	10	25
Oyster tongs, rakes, and dredges .....							513	3,078	496	2,976	502	3,012
Clam tongs, rakes, and hoes .....							8	80	10	100	7	70
Shore property .....		475		485		445		20,550		20,400		14,250
Cash capital .....								25,800		25,300		20,800
Total .....		4,270		4,545		4,285		82,813		80,631		69,852

Statement by counties of the apparatus and capital employed in the fisheries of New Jersey—Continued.

Designation.	Monmouth.						Ocean.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	104	\$70,275	108	\$85,475	107	\$87,225	6	\$2,750	5	\$1,450	9	\$17,950
Tonnage	1,040		1,053		1,075		48		32		144	
Outfit		12,630		18,776		15,488		336		670		4,815
Vessels transporting	20	31,450	31	40,200	25	38,500	9	7,650	7	6,700	16	16,850
Tonnage	307		454		379		95		83		212	
Outfit		4,787		6,080		6,252		550		440		1,900
Boats	1,326	77,503	1,335	80,147	1,110	67,640	689	71,130	705	70,448	1,075	98,329
Apparatus—vessel fisheries:												
Seines	7	3,400	7	2,900	6	2,850					2	1,100
Lines		43		60		50		9				
Pots, lobster and eel	6	5										
Oyster dredges and tongs	43	1,340	46	2,264	39	2,137					5	18
Clam rakes and tongs	326	3,619	356	4,608	349	4,541	16	12	14	11	20	16
Crab dredges	60	240	102	468	92	402						
Apparatus—shore fisheries:												
Seines	22	867	25	700	23	673	81	4,704	79	4,614	84	5,240
Gill nets	778	6,510	750	7,120	721	6,887	220	6,920	204	5,857	341	6,867
Pound nets	35	37,450	40	51,190	48	67,540					4	9,800
Fyke nets and bag nets	193	3,455	213	4,430	202	3,955	60	1,659	47	1,080	74	1,635
Pots, lobster and eel	1,991	3,398	2,020	3,505	1,712	2,906	1,540	963	1,945	1,091	2,360	1,233
Lines		1,174		1,150		1,023		1,016		1,046		1,099
Oyster tongs, rakes, and dredges	595	3,072	581	2,982	565	2,882	321	1,312	325	1,325	621	2,467
Clam tongs, rakes, and hoes	683	5,731	688	5,774	692	5,792	363	1,297	387	1,422	657	2,540
Minor apparatus		450		433		440		280		286		319
Shore property		98,723		100,472		104,520		18,568		18,765		47,355
Cash capital		167,150		153,650		150,300		11,000		12,000		39,500
Total		533,272		573,054		572,003		130,147		127,205		259,093

  

Designation.	Salem.						Union.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Boats	575	\$87,215	612	\$88,875	605	\$89,450	65	\$3,250	55	\$2,750	60	\$3,000
Apparatus—shore fisheries:												
Seines	5	1,865	5	1,900	5	1,900						
Gill nets	600	69,600	602	69,470	591	68,955						
Oyster tongs, rakes, and dredges							130	910	110	770	120	840
Clam tongs, rakes, and hoes							24	204	24	204	25	216
Shore property		22,400		22,925		22,850		2,400		2,400		1,000
Cash capital								3,000		2,500		1,500
Total		181,170		183,170		183,155		9,764		8,624		6,556

  

Designation.	Total for State.					
	1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	500	\$502,490	524	\$541,520	540	\$589,065
Tonnage	7,510		7,863		8,255	
Outfit		111,080		122,433		128,095
Vessels transporting	71	96,050	83	108,150	79	104,150
Tonnage	1,256		1,437		1,320	
Outfit		11,107		13,255		13,415
Boats	5,616	401,718	5,742	412,373	5,591	414,321
Apparatus—vessel fisheries:						
Seines	11	6,100	12	6,100	10	5,450
Lines		315		370		450
Pots, lobster and eel	341	365	270	245	235	210
Oyster dredges and tongs	1,453	35,917	1,533	38,990	1,603	40,398
Clam rakes and tongs	368	3,709	397	4,793	388	4,660
Crab dredges	60	240	102	468	92	402
Apparatus—shore fisheries:						
Seines	353	31,931	360	31,922	357	32,268
Gill nets	4,045	129,911	3,983	129,832	3,951	129,791
Pound nets	141	40,571	185	55,370	234	83,013
Fyke nets and bag nets	1,794	18,256	1,692	18,881	1,625	18,431
Pots, lobster and eel	4,036	4,824	4,485	5,094	4,335	4,518
Lines		4,189		4,808		4,358
Oyster tongs, rakes, and dredges	2,492	12,392	2,498	12,397	2,642	13,470
Clam tongs, rakes, and hoes	2,155	11,625	2,160	11,652	2,217	12,996
Minor apparatus		903		891		909
Shore property		395,875		409,561		420,743
Cash capital		530,650		538,850		548,500
Total		2,350,877		2,467,865		2,571,413

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties of the product of the fisheries of New Jersey.

Species.	Atlantic.						Bergen.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alowives ...	30,180	\$617	34,080	\$600	25,880	\$407						
Bluefish ...	92,400	5,705	92,700	5,640	96,000	5,485						
Cod ...	66,660	1,460	83,500	2,890	79,000	3,600						
Drum ...	7,500	112	11,000	145	3,500	52						
Eels ...	10,000	500	9,000	450	4,300	210	10,000	\$800	12,000	\$960	12,800	\$1,025
Flounders ...	77,900	2,857	79,800	3,540	62,900	2,097						
Kingfish ...	11,000	580	10,000	510	5,200	352						
Menhaden ...	4,371,500	9,109	2,424,000	5,051	1,818,000	4,543	20,800	62	25,000	75	25,000	75
Perch, white	54,500	3,695	46,700	2,910	40,500	2,230						
Pike ...	835	50	600	48	500	40						
Sea bass ...	63,200	3,105	53,000	2,660	56,100	2,411						
Shad ...	800	57	760	56	1,360	81	450,200	18,040	391,200	10,764	425,600	20,560
Sheepshead	5,700	870	3,200	420	2,500	250						
Spots and croakers ...	14,000	582	34,000	1,385	92,500	3,830						
Squeteague	1,618,800	74,890	1,040,100	76,839	1,201,125	54,115						
Striped bass	21,300	3,839	20,600	2,760	16,700	2,504	31,500	3,780	27,000	3,240	25,300	3,035
Tautog ...	2,500	125	2,000	100	1,000	50						
Other fish ...	6,000	300	7,700	385	6,000	300						
Oysters, market	731,514	127,250	720,412	123,565	813,750	134,978						
Oysters, seed	518,560	10,186	600,950	20,095	750,395	24,938						
Quahogs or hard clams	601,904	58,242	552,104	56,128	454,520	50,330						
Terrapins ...	1,510	395	1,340	366	1,200	308						
Total ...	8,308,063	313,586	6,428,446	306,629	5,541,830	293,201	521,500	22,682	455,200	21,039	488,700	24,695

Species.	Cape May.						Cumberland.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alowives ...	84,200	\$938	66,400	\$795	71,680	\$828	17,350	\$173	16,500	\$165	15,400	\$154
Bluefish ...	228,400	12,302	130,500	6,927	267,700	13,415						
Butterfish ...	35,200	1,276	14,100	613	23,000	810						
Bonito ...	1,000	50	2,000	100	2,000	100						
Catfish ...	1,000	80	1,000	80	500	40	2,000	126	2,183	131	1,600	96
Cod ...			10,000	200	46,000	2,760						
Drum ...	10,900	514	24,200	647	33,250	742						
Eels ...	74,950	4,614	80,450	4,757	79,150	4,772						
Flounders ...	72,400	3,509	73,100	3,419	81,600	3,954						
Kingfish ...	34,200	1,680	18,800	1,174	17,800	1,073						
Menhaden ...	191,900	794	224,500	1,620	161,750	1,179						
Mullet ...	91,900	5,111	87,700	4,870	42,900	2,435						
Perch, white	26,700	2,229	20,400	1,680	14,115	1,182	2,110	127	1,800	108	2,350	141
Perch, yellow	500	25	500	25	100	5	3,332	200	4,186	251	3,500	210
Pike ...	4,000	480	3,500	420	2,000	240	175	17	200	20	150	15
Scup ...	5,500	280	9,500	395	10,000	400						
Sea bass ...	614,800	24,417	1,015,400	40,671	1,896,000	75,950	9,000	360			10,000	300
Shad ...	4,300	343	3,650	282	1,700	137	569,912	19,752	600,400	24,161	491,300	33,457
Sheepshead	2,300	545	100	15								
Spanish mackerel			200	20	700	70						
Spots and croakers ...	53,600	2,414	63,200	2,768	83,000	3,356						
Squeteague	720,500	26,780	655,500	24,520	449,350	18,957						
Striped bass	84,030	8,323	60,750	5,063	33,910	3,692	2,016	235	1,083	105	2,333	275
Sturgeon ...					12,750	255	438,350	11,233	428,700	9,562	390,125	7,310
Suckers ...							400	22	250	15	150	9
Tautog ...	4,600	400	5,500	440	4,000	320						
Other fish ...	1,500	60	1,200	48	1,000	40						
Crabs, hard	33,200	2,925	38,000	2,625	40,000	2,700						
King crabs	3,094,100	7,781	2,552,600	6,719	1,810,460	4,728	241,600	792	226,380	690	194,000	510
Oysters, market	383,250	60,023	351,225	58,031	413,385	67,136	3,971,688	575,583	3,706,871	570,526	4,210,255	653,015
Oysters, seed	173,000	8,805	180,550	9,583	285,600	14,625	4,635,918	209,583	5,158,970	240,881	6,986,380	310,740
Quahogs or hard clams	212,800	16,510	293,600	20,816	395,200	25,256						
Total ...	6,260,330	192,558	5,994,125	200,935	6,280,600	251,157	9,893,956	813,203	10,146,123	855,705	11,707,543	1,006,232

Statement by counties of the product of the fisheries of New Jersey—Continued.

Species.	Burlington.						Camden.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives ..	715,710	\$3,943	697,590	\$3,869	657,675	\$3,629	126,200	\$1,262	118,400	\$1,184	110,320	\$1,103
Black bass ..	6,935	873	9,250	1,166	12,035	1,542						
Bluefish ..	4,200	175	3,500	145			800	40				
Butter-fish ..	2,900	65	2,950	67								
Carp .....	2,525	202	2,000	160	2,025	162						
Catfish .....	51,500	3,717	49,215	3,566	45,775	3,334						
Drum .....			87,240	116								
Eels .....	57,165	3,446	53,830	3,186	29,680	1,998						
Flounders ..	24,520	1,046	22,500	965	4,900	245						
Kingfish .....	900	42	800	38	500	25						
Menhaden ..	7,090,600	10,655	4,739,160	7,783								
Perch, white ..	67,630	5,306	69,450	5,446	69,795	5,531						
Perch, yellow ..	15,800	1,249	12,480	998	13,025	1,042						
Pike .....	4,850	422	5,300	458	5,900	518						
Sea bass .....	7,200	300	4,900	290			3,700	148				
Shad .....	569,049	31,273	537,586	29,668	475,437	26,292	685,650	32,892	645,400	32,910	638,050	43,838
Sheepshead ..	1,200	120	600	60								
Spots and croakers ..	1,000	50	1,000	50	500	25						
Squeteague ..	274,000	10,445	201,500	8,900	13,000	620	4,500	135				
Striped bass ..	56,575	10,010	46,885	8,221	39,110	7,235	2,000	240	2,124	255	1,000	120
Suckers .....	47,025	3,503	49,100	3,660	45,460	3,358						
Other fish .....	22,250	1,414	22,950	1,442	20,005	1,255						
Oysters, market ..	274,295	28,502	279,524	29,288	71,050	6,598	363,398	52,990	395,738	61,070	469,350	73,625
Oysters, seed ..	364,042	11,626	359,800	10,974	120,000	3,600	488,000	22,130	570,500	28,050	658,700	32,970
Quahogs or hard clams ..	798,104	79,810	764,400	76,442	98,800	9,880						
<b>Total ..</b>	<b>10,459,975</b>	<b>208,194</b>	<b>8,025,510</b>	<b>196,958</b>	<b>1,730,672</b>	<b>76,889</b>	<b>1,674,848</b>	<b>109,837</b>	<b>1,732,162</b>	<b>124,075</b>	<b>1,877,420</b>	<b>151,650</b>

  

Species.	Hunterdon and Warren.						Mercer.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives ..	29,000	\$290	31,500	\$315	29,200	\$292	8,000	\$83	7,050	\$80	7,500	\$75
Catfish .....	20,861	1,170	19,066	1,072	17,963	990	2,565	120	2,420	112	1,850	95
Perch, white ..	2,932	185	2,805	178	2,242	146	800	50	710	45	985	60
Perch, yellow ..	4,862	273	4,732	286	4,387	252	1,130	45	1,340	54	1,070	43
Pike .....	2,360	210	2,770	245	2,450	220	520	40	415	35	680	58
Shad .....	57,928	5,373	58,100	5,354	52,090	4,719	60,164	4,973	45,831	3,775	38,218	2,682
Striped bass ..	1,820	182	2,095	211	1,840	185	610	60	763	75	460	45
Suckers .....	3,150	78	2,730	80	4,120	100						
Other fish .....	7,032	428	6,750	449	7,461	476	4,220	197	2,890	139	3,825	169
<b>Total ..</b>	<b>129,845</b>	<b>8,189</b>	<b>131,088</b>	<b>8,190</b>	<b>121,753</b>	<b>7,380</b>	<b>78,009</b>	<b>5,568</b>	<b>62,019</b>	<b>4,315</b>	<b>54,588</b>	<b>3,227</b>

  

Species.	Gloucester.						Hudson.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives ..	55,786	\$186	80,858	\$267	58,288	\$197	1,000	\$15	800	\$12	900	\$13
Catfish .....	10,071	604	7,200	432	9,428	566						
Eels .....							7,050	353	6,000	330	6,000	300
Menhaden ..									25,000	500	16,000	320
Perch, white ..	4,356	261	3,786	227	8,428	206	2,400	48	2,450	49	2,300	46
Perch, yellow ..	12,914	774	11,500	690	10,714	643						
Pike .....	171	17	171	18	114	11						
Shad .....	607,258	26,388	640,330	28,762	697,993	51,089	526,000	22,425	444,000	20,960	382,000	21,000
Striped bass ..	3,456	405	3,100	359	2,080	240	2,800	140	2,700	135	2,500	125
Suckers .....	514	31	328	19	214	13						
Other fish .....	100	5	71	3	86	4						
Lobsters .....							51,500	3,075	55,400	3,478	49,800	3,186
Oysters, market ..	8,400	900					117,600	18,300	87,500	13,900	84,000	13,200
Oysters, seed ..	17,500	875			17,500	875	247,800	17,700	245,000	17,500	210,000	15,000
<b>Total ..</b>	<b>780,526</b>	<b>30,446</b>	<b>747,344</b>	<b>30,777</b>	<b>799,845</b>	<b>53,844</b>	<b>956,150</b>	<b>62,056</b>	<b>869,459</b>	<b>56,864</b>	<b>753,500</b>	<b>53,700</b>

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties of the product of the fisheries of New Jersey—Continued.

Species.	Middlesex.						Monmouth.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Albacore							1,296	\$40	2,176	\$60	1,810	\$54
Alewives							58,500	933	67,800	931	53,000	830
Bluefish	19,500	\$780	7,000	\$350	3,000	\$171	7,519,525	270,059	6,076,920	213,499	3,714,023	130,653
Butter-fish							196,385	5,623	209,152	5,754	267,762	7,620
Bonito							108,150	4,020	122,733	4,721	71,443	2,802
Cero							630	20	847	38	1,810	98
Cod							638,087	10,704	737,511	22,351	540,859	14,131
Dogfish							00,000	150	77,000	190	56,000	140
Drum											900	18
Eels	800	80	500	50	200	20	234,823	16,091	279,200	17,886	235,130	15,568
Flounders	4,900	239	6,000	285	23,000	1,075	633,445	20,188	649,095	19,683	815,472	19,805
Haddock							11,210	338	12,940	475	13,570	387
Hake							12,040	188	12,060	204	8,526	89
Kingfish							1,450	200	2,747	368	2,183	301
Mackerel							9,819	975	25,017	3,304	18,607	2,105
Menhaden	1,458,333	2,025	1,641,600	3,435	2,179,166	3,983	17,128,894	39,500	11,457,716	37,708	8,279,425	30,762
Perch, white	5,500	330					6,800	426	8,600	514	5,800	350
Scup							10,120	326	15,582	436	23,250	618
Sea bass							2,244,019	86,707	2,364,538	91,944	1,618,286	61,034
Shad	30,500	1,355	28,400	1,155	21,500	995	159,810	9,265	159,118	9,952	159,063	10,298
Sheepshead							9,366	1,405	17,340	2,649	23,223	3,310
Skates							9,300	465	7,050	353	5,700	286
Spanish mackerel							47,275	6,998	63,691	9,115	98,454	12,517
Spots and croakers							7,010	230	7,580	280	6,882	164
Squeteague	8,550	513	9,000	540	3,500	210	1,048,958	52,779	3,202,463	78,288	4,966,521	103,040
Striped bass	12,700	1,116	8,900	712	2,200	176	18,950	2,287	20,159	2,159	14,750	1,494
Sturgeon							17,425	635	23,930	1,057	40,812	1,004
Tautog							77,745	2,948	87,037	3,181	82,030	3,127
Other fish	3,500	175	500	25	300	18	14,320	350	27,177	548	61,481	852
Crabs, hard							109,133	2,092	192,111	6,874	124,433	4,567
Crabs, soft							225,500	26,125	241,100	29,000	365,400	32,610
King crabs									20,000	125	21,000	131
Lobsters	11,250	600					114,571	9,308	105,264	8,585	91,105	7,435
Mussels									6,000	200		
Oysters, market	281,400	47,838	239,400	40,698	250,900	43,673	1,508,010	268,194	1,016,377	284,905	1,277,759	225,764
Oysters, seed	283,500	20,250	301,000	21,500	285,600	20,400	100,800	7,200	21,700	1,550	15,400	1,100
Clams, soft							790,270	45,090	803,000	45,780	572,450	32,780
Quahogs or hard clams	6,400	643	13,440	1,704	2,400	225	1,499,952	160,338	1,538,224	187,549	1,249,248	183,671
Terrapins									848	318	820	304
Turtles											1,545	35
Total	2,126,833	76,544	2,255,806	70,544	2,777,766	70,940	34,634,168	1,059,229	30,271,820	1,092,440	24,906,532	911,859

  

Species.	Salem.						Union.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	334,714	\$1,114	485,142	\$1,508	349,712	\$1,163						
Catfish	60,429	3,026	43,200	2,582	56,572	3,304						
Perch, white	26,144	1,569	22,714	1,363	20,572	1,234						
Perch, yellow	77,486	4,650	69,000	4,140	64,286	3,857						
Pike	1,029	103	1,020	110	688	69						
Shad	6,832,248	237,523	6,670,980	269,633	5,351,707	365,743						
Striped bass	13,039	1,505	12,314	1,401	13,742	1,505						
Suckers	3,057	184	1,972	119	1,280	77						
Other fish	600	30	420	22	514	26						
Oysters, seed							595,000	\$42,500	525,000	\$45,000	420,000	\$36,000
Quahogs or hard clams							14,000	1,750	14,400	1,800	10,000	2,300
Total	7,348,746	250,304	7,306,480	280,978	5,859,077	377,158	609,000	44,250	539,400	46,800	430,000	38,000

## Statement by counties of the product of the fisheries of New Jersey—Continued.

Species.	Ocean.						Total for State.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Albacore...	2,500	\$50	2,000	\$40	4,600	\$132	3,796	\$90	4,176	\$100	6,410	\$186
Alewives...	400,100	4,899	469,200	4,414	606,000	5,580	1,860,740	14,453	2,066,820	14,260	1,085,555	14,361
Black bass...							6,935	873	9,250	1,166	12,035	1,542
Bluefish...	1,426,300	51,878	917,300	37,602	685,150	28,967	0,291,125	340,939	7,227,926	264,163	4,765,873	178,691
Butter-fish...	4,200	127	4,600	148	78,100	2,415	238,085	7,091	230,802	6,582	368,862	10,845
Bonito...	35,600	1,074	25,900	5,036	32,200	1,098	144,750	5,144	150,633	9,857	105,643	4,000
Carp...							2,525	202	2,000	160	2,025	162
Cattish...	8,800	292	9,000	280	11,250	362	157,325	9,735	133,824	8,265	144,038	8,877
Cero...							1,700	74	630	38	3,610	172
Cod...	25,000	1,000	10,000	400	5,000	200	729,747	19,164	841,011	26,001	676,859	20,691
Dogfish...							60,000	150	77,000	190	56,000	140
Drum...	2,500	100	1,800	72	2,000	80	26,900	726	124,240	920	39,050	892
Eels...	184,650	11,425	181,700	10,975	198,050	12,370	579,438	37,300	623,280	38,594	565,210	36,283
Flounders...	110,200	4,252	157,400	5,768	233,300	9,469	923,365	32,091	987,805	33,620	1,221,172	36,645
Frostfish or tomcod...	4,500	135	1,400	42	2,000	60	4,500	135	1,400	42	2,000	60
Haddock...	7,500	300	5,000	200	2,500	100	18,710	638	17,940	675	16,070	487
Hake...							12,040	188	12,080	204	8,526	89
Kingfish...	2,000	222	1,350	178	1,100	157	49,530	2,730	33,697	2,298	26,783	1,908
Mackerel...	100	12	100	12	4,300	642	9,919	987	25,117	2,316	22,907	2,747
Menhaden...	129,200	730	133,500	802	4,092,200	7,673	30,391,227	63,535	20,670,542	56,974	10,565,541	48,535
Muller...	500	20	650	26	600	23	92,400	5,131	88,350	4,902	43,500	2,458
Perch, white...	15,400	1,035	14,300	1,007	20,800	1,510	215,278	15,261	193,724	13,539	182,887	12,686
Perch, yellow...	372,500	19,075	396,500	20,775	297,250	15,715	488,524	26,291	500,238	27,210	394,332	21,767
Pike...	5,200	520	5,500	550	6,400	640	18,940	1,859	19,485	1,904	18,880	1,811
Scup...	600	24	600	24	14,900	561	16,220	630	25,682	855	48,150	1,579
Sea bass...	618,500	24,895	201,700	12,128	311,925	13,736	3,560,419	139,992	3,731,538	147,693	3,892,311	153,431
Shad...							10,622,719	409,659	10,225,455	443,438	8,746,518	582,221
Sheepshead...	5,000	832	5,050	869	11,614	1,901	23,566	3,772	26,290	4,013	37,337	5,461
Skates...							9,300	465	7,050	353	5,700	286
Spanish mackerel...	11,775	2,702	14,500	3,485	18,100	3,320	59,050	9,700	78,391	12,020	117,254	15,007
Spots and coakers...	1,800	60	900	32	1,200	49	78,010	3,396	106,680	4,521	184,182	7,424
Squeteague...	388,700	14,973	294,000	12,428	906,700	31,100	4,073,008	180,465	6,002,563	201,515	7,540,190	208,051
Striped bass...	77,400	15,523	89,100	17,610	63,750	12,704	328,196	47,645	298,164	43,296	219,675	33,395
Sturgeon...							5,200	260	455,775	11,868	452,630	10,610
Suckers...	2,400	96	2,300	115	2,200	110	56,546	3,914	56,680	4,008	53,480	3,667
Tautog...	5,100	181	4,900	173	6,600	236	89,945	3,654	99,437	3,894	93,680	3,723
Other fish...	4,100	94	3,550	91	4,450	118	63,622	3,053	73,217	3,152	105,122	3,258
Crabs, hard...							142,333	5,317	230,111	9,499	164,433	7,267
Crabs, soft...	50,000	5,500	48,400	5,480	44,120	5,032	275,500	31,675	289,500	35,380	409,520	37,612
King crabs...							3,335,700	8,573	2,798,980	7,534	2,025,460	5,399
Lobsters...	8,000	640	5,000	400	3,000	240	185,321	13,683	165,664	12,463	143,905	10,861
Shrimp...	1,050	525	1,200	600	750	500	1,050	525	1,200	600	750	500
Mussels...								6,000		200		
Oysters, market...	316,960	39,212	289,275	35,726	450,702	52,579	7,956,515	1,218,792	7,686,322	1,227,009	8,047,151	1,270,568
Oysters, seed...	430,710	15,533	460,775	16,606	992,565	35,812	7,856,030	375,388	8,428,245	411,739	10,157,140	406,060
Clams, soft...	25,000	2,000	24,000	1,920	23,000	1,840	815,270	47,000	827,000	47,700	595,450	34,620
Quahogs or hard clams...	263,204	25,344	277,856	27,404	774,404	77,859	3,306,364	342,637	3,454,024	371,933	2,990,572	349,221
Terrapins...	1,050	375	1,092	390	1,078	885	2,560	770	3,280	1,074	2,598	997
Turtles...					1,250	25					2,795	60
Total...	4,948,099	245,705	4,151,398	223,808	9,931,608	326,354	88,730,048	3,447,351	79,116,380	3,520,057	73,267,434	3,646,382

*The catch by different forms of apparatus.*—In the ten counties of New Jersey having vessel fisheries, oysters taken with dredges, tongs, etc., constitute a more or less important part of the yield, except in the one county of Middlesex. The yield of the vessel fisheries in 1892 was valued at \$1,294,358, of which \$1,171,641 represented oysters, \$71,566 quahogs, \$4,375 crabs, \$2,436 lobsters, and \$44,340 fish. Purse seines, lines, and pots are used in the capture of fish. In Atlantic, Burlington, Monmouth, and Ocean counties, seines are operated for menhaden, the yield of which fish in 1892 was 10,515,960 pounds, valued at \$30,425. Lines are employed for bluefish, cod, scup, sea bass, and squeteague in Atlantic, Cape May, Cumberland, and Monmouth counties; the output in 1892 was 369,400 pounds, having a value of \$13,540. Pots are used to a limited extent on vessels fishing from Cape May and Hudson counties; 8,700 pounds of eels, worth \$375, and 34,800 pounds of lobsters worth \$2,436, were thus taken in 1892.

The yield of the shore fisheries of New Jersey in 1892 was 49,383,552 pounds, with a value of \$2,352,024. Seines took 6,442,659 pounds, valued at \$153,630; gill nets, 8,945,666 pounds, valued at \$568,484; fyke nets and bag nets, 820,025 pounds, valued at \$39,639; pound nets, trap nets, and weirs, 10,602,607 pounds, valued at \$194,919; lines, 10,568,243 pounds, valued at \$404,692; pots, 247,900 pounds, valued at \$15,005; dredges, tongs, rakes, etc., 11,549,952 pounds, valued at \$963,147, including crabs, lobsters, shrimps, terrapins, and turtles; other minor apparatus, 206,500 pounds, valued at \$12,508.

Considering fish proper, it is seen that pound nets, trap nets, and weirs take larger quantities than any other class of apparatus, squeteague constituting more than half the quantity and value of the yield. Next to the pound nets in quantity of catch and greatly surpassing them in value of products are hand and trawl lines, the bulk of whose yield consists of bluefish and sea bass. Gill nets come next in quantity of fish taken, and surpass all other apparatus in value of products, shad being the only important species thus taken. Seines are fourth in respect to both quantity and value of the yield, and have as the most prominent fish shad, striped bass, alewives, yellow perch, and squeteague. Shad, flounders, alewives, perch, and eels form the larger part of the fyke-net catch, and have more value than all the other fish.

Seines are most important in Ocean and Cape May counties, gill nets in Salem and Cumberland counties, pound nets in Monmouth and Ocean counties, fykes in Burlington and Hudson counties, and lines in Monmouth and Cape May counties.

Statement by counties, apparatus, and species of the yield of the vessel fisheries of New Jersey.

Apparatus and species.	Atlantic.						Burlington.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Drum .....									87,000	\$113		
Menhaden .....	4,350,000	\$9,062	2,400,000	\$5,000	1,800,000	\$4,500	7,067,100	\$10,600	4,702,410	7,700		
Total .....	4,350,000	9,062	2,400,000	5,000	1,800,000	4,500	7,067,100	10,600	4,789,410	7,813		
Lines:												
Bluefish .....	5,200	260	1,700	85	2,000	100						
Cod .....	66,600	1,460	83,500	2,890	79,000	3,000						
Sea bass .....	58,000	2,900	48,000	2,400	53,000	2,300						
Squeteague .....	2,000	100	2,000	100	3,200	160						
Total .....	131,860	4,720	135,200	5,475	137,200	6,160						
Miscellaneous:												
Oysters, market .....	55,664	9,417	38,062	6,657	77,700	10,075						
Oysters, seed .....	134,900	5,836	131,950	4,905	139,825	5,116	17,500	750	17,500	750		
Quahogs .....	40,800	4,797	51,896	5,040	39,618	4,457						
Total .....	237,424	20,050	222,808	17,202	257,141	10,048	17,500	750	17,500	750		
Grand total .....	4,710,284	33,832	2,758,008	27,677	2,194,341	30,308	7,084,600	11,350	4,806,910	8,563		

  

Apparatus and species.	Cumberland.						Gloucester.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Lines:												
Sea bass .....	0,000	\$360			10,000	\$300						
Dredges, rakes, and tongs:												
Oysters, market .....	3,957,513	573,718	3,692,696	\$577,061	4,185,580	649,650	8,400	\$900				
Oysters, seed .....	4,340,275	198,958	4,817,827	228,000	5,887,105	291,905	17,500	875			17,500	\$875
Total .....	8,306,788	772,676	8,510,523	806,267	10,072,685	941,615	25,900	1,775			17,500	875
Grand total .....	8,315,788	773,036	8,510,523	806,267	10,082,685	941,915	25,900	1,775			17,500	875

Statement by counties, apparatus, and species of the yield of the vessel fisheries of New Jersey—Continued.

Apparatus and species.	Camden.						Cape May.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Lines:</b>												
Bluefish .....	800	\$40					8,700	\$385	5,100	\$235	3,700	\$185
Scup .....							3,000	180	1,500	75		
Sea bass .....	3,700	148					91,500	3,410	60,500	2,205	38,000	1,420
Squeteague .....	4,500	135					32,000	1,250	4,000	130	2,000	80
<b>Total .....</b>	<b>9,000</b>	<b>323</b>					<b>135,200</b>	<b>5,225</b>	<b>71,100</b>	<b>2,645</b>	<b>43,700</b>	<b>1,685</b>
<b>Pots.</b>												
Eels .....							8,000	480	9,500	430	3,700	125
<b>Dredges, rakes, and tongs:</b>												
Oysters, market .....	363,398	52,090	395,738	\$81,670	469,350	\$73,625	167,300	25,604	81,550	14,650	127,900	20,680
Oysters, seed .....	488,600	22,130	570,500	28,060	658,700	32,970	126,700	6,325	144,550	7,358	234,500	12,005
<b>Total .....</b>	<b>851,998</b>	<b>75,120</b>	<b>966,238</b>	<b>89,720</b>	<b>1,128,050</b>	<b>106,595</b>	<b>294,000</b>	<b>32,019</b>	<b>220,100</b>	<b>22,008</b>	<b>362,400</b>	<b>32,685</b>
<b>Grand total.</b>	<b>860,998</b>	<b>75,443</b>	<b>966,238</b>	<b>89,720</b>	<b>1,128,050</b>	<b>106,595</b>	<b>437,200</b>	<b>37,724</b>	<b>306,700</b>	<b>25,083</b>	<b>409,800</b>	<b>34,495</b>

  

Apparatus and species.	Hudson.						Middlesex.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Pots:</b>												
Eels .....	6,000	\$300	5,600	\$280	5,000	\$250						
Lobsters .....	30,000	2,000	85,400	2,478	34,800	2,436	11,250	\$600				
<b>Total .....</b>	<b>36,000</b>	<b>2,300</b>	<b>41,000</b>	<b>2,758</b>	<b>39,800</b>	<b>2,686</b>	<b>11,250</b>	<b>600</b>				
<b>Dredges, rakes, and tongs:</b>												
Oysters, market .....	65,100	9,300	38,500	5,500	42,000	6,000						
Quahogs (hard clams) .....							1,600	163	8,000	\$1,250		
<b>Total .....</b>	<b>65,000</b>	<b>9,300</b>	<b>38,500</b>	<b>5,500</b>	<b>42,000</b>	<b>6,000</b>	<b>1,600</b>	<b>163</b>	<b>8,000</b>	<b>1,250</b>		
<b>Grand total.</b>	<b>101,100</b>	<b>11,600</b>	<b>79,500</b>	<b>8,258</b>	<b>81,800</b>	<b>8,686</b>	<b>12,850</b>	<b>763</b>	<b>8,000</b>	<b>1,250</b>		

  

Apparatus and species.	Monmouth.						Ocean.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Menhaden .....	12,265,800	\$24,350	7,535,610	\$25,794	4,834,560	\$19,484					3,881,400	\$6,441
<b>Lines:</b>												
Bluefish .....	271,000	11,130	225,000	6,300	146,500	4,395	20,000	\$1,600				
Sea bass .....	35,000	1,050	40,000	1,000	30,000	900						
Squeteague .....	2,500	125	2,000	100	2,000	100						
<b>Total .....</b>	<b>308,500</b>	<b>12,305</b>	<b>267,000</b>	<b>7,400</b>	<b>178,500</b>	<b>5,395</b>	<b>20,000</b>	<b>1,600</b>				
<b>Pots:</b>												
Eels .....	1,923	115										
<b>Dredges, rakes, and tongs:</b>												
Oysters, market .....	512,750	70,966	564,340	82,195	471,905	67,600					700	80
Oysters, seed .....	84,000	6,000	4,200	300							23,800	1,000
Quahogs (hard clams) .....	505,272	53,007	591,144	72,373	436,048	64,009	10,500	1,109	20,256	\$2,154	24,500	3,100
Mussels .....			6,000	200								
Crabs .....	102,333	2,788	184,111	6,634	118,233	4,375						
<b>Total .....</b>	<b>1,204,355</b>	<b>132,701</b>	<b>1,349,795</b>	<b>161,702</b>	<b>1,026,180</b>	<b>135,984</b>	<b>10,500</b>	<b>1,109</b>	<b>20,256</b>	<b>2,154</b>	<b>49,000</b>	<b>4,180</b>
<b>Grand total.</b>	<b>13,780,578</b>	<b>169,471</b>	<b>9,152,405</b>	<b>194,896</b>	<b>6,039,246</b>	<b>160,863</b>	<b>30,500</b>	<b>2,709</b>	<b>20,256</b>	<b>2,154</b>	<b>3,930,400</b>	<b>10,621</b>



Statement by counties, apparatus, and species of the yield of the vessel fisheries of New Jersey—Continued.

Apparatus and species.	Total for State.					
	1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>						
Drum.....			87,000	\$113		
Menhaden.....	23,682,900	\$44,012	14,638,020	38,494	10,515,960	\$30,425
Total.....	23,682,900	44,012	14,725,020	38,607	10,515,960	30,425
<b>Lines:</b>						
Bluefish.....	305,700	13,415	231,800	6,620	152,200	4,680
Cod.....	60,060	1,460	83,500	2,890	79,000	3,600
Scup.....	3,000	180	1,500	75		
Sea bass.....	197,200	7,868	148,500	5,605	131,000	4,920
Squeteague.....	41,000	1,610	8,000	330	7,200	340
Total.....	613,560	24,533	478,300	15,520	369,400	13,540
<b>Pots:</b>						
Eels.....	15,923	895	15,100	710	8,700	375
Lobsters.....	41,250	2,600	35,400	2,478	34,800	2,436
Total.....	57,173	3,495	50,500	3,188	43,500	2,811
<b>Dredges, rakes, and tongs:</b>						
Oysters, market.....	5,130,125	742,925	4,811,788	748,333	5,975,195	827,710
Oysters, seed.....	5,218,635	240,874	5,636,527	269,969	6,961,430	343,931
Quahogs (hard clams).....	564,172	59,076	671,296	81,417	500,164	71,566
Mussels.....			6,000	200		
Crabs.....	102,333	2,788	184,111	6,634	118,233	4,375
Total.....	11,015,165	1,045,663	11,359,720	1,106,553	12,955,022	1,247,682
Grand total.....	35,368,798	1,117,703	26,608,540	1,103,868	23,883,882	1,294,358

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey.

Apparatus and species.	Gloucester.						Hudson.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	55,786	\$186	80,858	\$267	58,288	\$107						
Catfish.....	10,071	604	7,200	432	9,428	566						
Menhaden.....								25,000	\$500	16,000	\$320	
Perch, white.....	4,356	261	3,786	227	3,428	206						
Perch, yellow.....	12,914	774	11,500	690	10,714	643						
Pike.....	171	17	171	18	114	11						
Shad.....	22,558	600	25,380	650	19,343	675						
Striped bass.....	500	50	643	64	457	45						
Suckers.....	514	31	328	19	214	13						
Other fish.....	100	5	71	3	86	4						
Total.....	106,970	2,528	129,937	2,370	102,072	2,360			25,000	500	16,000	920
<b>Gill nets:</b>												
Shad.....	644,700	25,788	614,950	28,112	678,650	50,414	360,000	\$16,200	320,000	16,000	252,000	15,750
Striped bass.....	2,956	855	2,457	295	1,023	195						
Total.....	647,656	26,143	617,407	28,407	680,273	50,609	360,000	16,200	320,000	16,000	252,000	15,750
<b>Fyke nets:</b>												
Alewives.....							1,000	15	800	12	900	13
Eels.....							1,050	53	1,000	50	1,000	50
Perch, white.....							2,400	48	2,459	49	2,300	46
Shad.....							160,000	6,225	124,000	4,960	130,000	5,850
Striped bass.....							2,300	140	2,700	135	2,500	125
Total.....							173,250	6,481	180,959	5,206	186,700	6,084
<b>Miscellaneous:</b>												
Lobsters.....							21,500	1,075	20,000	1,000	15,000	750
Oysters, market.....							52,500	9,000	49,000	8,400	42,000	7,200
Oysters, seed.....							247,800	17,700	245,000	17,500	210,000	15,000
Total.....							321,800	27,775	314,000	20,900	267,000	22,950
Grand total.....	754,626	28,071	747,344	30,777	782,345	52,909	856,050	50,450	789,959	48,600	871,700	45,104

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Atlantic.						Bergen.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	30,180	\$617	34,980	\$690	25,880	\$407						
Bluefish .....	3,000	150	3,500	175	1,500	75						
Eels .....	6,500	325	6,000	300	4,200	210						
Flounders .....	24,000	1,095	23,800	1,090	15,100	755						
Kingfish .....	3,000	180	4,000	240	4,200	252						
Menhaden .....	21,500	47	24,000	51	18,000	43						
Perch, white .....	28,000	1,500	29,200	1,416	31,500	1,530						
Shad .....	800	57	760	50	1,360	81						
Sheepshead .....	1,200	120	1,200	120	1,500	150						
Squeteague .....	228,800	12,510	256,000	15,130	245,525	13,770						
Striped bass .....	12,000	2,024	14,100	1,450	11,800	1,324						
Other fish .....	6,000	300	7,700	385	6,000	300						
<b>Total .....</b>	<b>364,980</b>	<b>18,925</b>	<b>405,240</b>	<b>21,103</b>	<b>566,565</b>	<b>18,987</b>						
<b>Gill nets:</b>												
Menhaden .....							20,800	\$62	25,000	\$75	25,000	\$75
Perch, white .....	16,500	1,395	12,500	1,100	4,000	300						
Pike .....	635	50	600	48	500	40						
Shad .....							459,200	18,040	391,200	16,764	425,600	20,560
Squeteague .....	500	20	600	24								
Striped bass .....	1,300	115	1,000	85			31,500	3,780	27,000	3,240	25,300	3,035
<b>Total .....</b>	<b>18,935</b>	<b>1,580</b>	<b>14,700</b>	<b>1,257</b>	<b>4,500</b>	<b>340</b>	<b>511,500</b>	<b>21,882</b>	<b>443,200</b>	<b>20,079</b>	<b>475,900</b>	<b>23,670</b>
<b>Fyke nets and bag nets:</b>												
Perch, white .....	10,000	800	5,000	400	5,000	400						
Striped bass .....	6,000	1,500	4,500	1,125	4,000	1,150						
<b>Total .....</b>	<b>16,000</b>	<b>2,300</b>	<b>9,500</b>	<b>1,525</b>	<b>9,000</b>	<b>1,550</b>						
<b>Lines:</b>												
Bluefish .....	84,200	5,295	87,500	5,380	92,500	5,310						
Drum .....	7,500	112	11,000	145	3,500	52						
Flounders .....	53,900	1,762	56,000	2,410	47,800	1,842						
Kingfish .....	8,000	400	6,000	300	1,000	100						
Sea bass .....	5,200	205	5,000	200	3,100	111						
Sheepshead .....	4,500	750	2,000	300	1,000	100						
Spots and croakers .....	14,000	582	34,000	1,385	92,500	3,830						
Squeteague .....	1,387,500	62,260	1,381,500	61,585	952,400	40,185						
Striped bass .....	2,000	200	1,000	100	300	30						
Tautog .....	2,500	125	2,000	100	1,000	50						
<b>Total .....</b>	<b>1,569,300</b>	<b>71,751</b>	<b>1,536,000</b>	<b>71,965</b>	<b>1,195,100</b>	<b>51,110</b>						
<b>Pots:</b>												
Eels .....							10,000	800	12,000	900	12,800	1,025
<b>Minor apparatus:</b>												
Eels .....	3,500	175	3,000	150								
<b>Miscellaneous:</b>												
Terrapins .....	1,510	395	1,340	360	1,200	308						
Quahogs .....	555,104	53,445	500,208	50,488	414,904	45,873						
Oysters, market .....	675,850	117,830	681,450	116,908	739,050	124,903						
Oysters, seed .....	383,600	13,350	469,000	15,100	619,570	19,822						
<b>Total .....</b>	<b>1,616,064</b>	<b>185,023</b>	<b>1,651,998</b>	<b>182,952</b>	<b>1,771,724</b>	<b>190,906</b>						
<b>Grand total .....</b>	<b>3,588,779</b>	<b>279,754</b>	<b>3,670,438</b>	<b>278,952</b>	<b>3,347,489</b>	<b>262,893</b>	<b>521,500</b>	<b>22,682</b>	<b>455,200</b>	<b>21,039</b>	<b>488,700</b>	<b>24,695</b>

  

Apparatus and species.	Hunterdon and Warren.						Mercer.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	29,000	\$290	31,500	\$315	29,200	\$292	8,000	\$83	7,650	\$80	7,500	\$75
Catfish .....	29,861	1,170	19,608	1,072	17,963	690	2,565	120	2,420	112	1,850	95
Perch, white .....	2,932	185	2,805	178	2,242	146	300	50	710	45	685	60
Perch, yellow .....	4,862	273	4,732	286	4,987	252	1,130	45	1,340	54	1,070	48
Pike .....	2,360	210	2,770	245	2,450	220	520	40	415	35	680	58
Shad .....	57,828	5,873	58,100	5,354	52,090	4,710	21,314	2,083	20,981	1,895	18,968	1,666
Striped bass .....	1,820	182	2,085	211	1,840	185	610	60	703	75	400	45
Suckers .....	3,150	78	2,730	80	4,120	100						
Other fish .....	7,032	428	6,750	449	7,461	476	1,320	52	890	39	1,125	84
<b>Total .....</b>	<b>129,845</b>	<b>8,189</b>	<b>131,088</b>	<b>8,190</b>	<b>121,753</b>	<b>7,380</b>	<b>36,259</b>	<b>2,513</b>	<b>35,169</b>	<b>2,335</b>	<b>32,638</b>	<b>2,076</b>
<b>Gill nets:</b>												
Shad .....							38,850	2,910	24,850	1,880	19,250	1,016
Other fish .....							2,900	145	2,000	100	2,700	135
<b>Total .....</b>							<b>41,750</b>	<b>3,055</b>	<b>26,850</b>	<b>1,980</b>	<b>21,950</b>	<b>1,151</b>
<b>Grand total .....</b>	<b>129,845</b>	<b>8,189</b>	<b>131,088</b>	<b>8,190</b>	<b>121,753</b>	<b>7,380</b>	<b>78,009</b>	<b>5,568</b>	<b>62,019</b>	<b>4,315</b>	<b>54,588</b>	<b>3,227</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Burlington.						Camden.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Aloewives .....	532,800	\$3,027	498,040	\$2,870	474,080	\$2,711	120,200	\$1,262	118,400	\$1,184	110,320	\$1,103
Bluefish .....	4,200	175	3,500	145	.....	.....	.....	.....	.....	.....	.....	.....
Butter-fish .....	2,900	65	2,950	67	.....	.....	.....	.....	.....	.....	.....	.....
Catfish .....	3,800	120	4,000	125	3,500	110	.....	.....	.....	.....	.....	.....
Drum .....	.....	.....	240	3	.....	.....	.....	.....	.....	.....	.....	.....
Flounders .....	6,000	900	7,800	355	2,500	125	.....	.....	.....	.....	.....	.....
Kingfish .....	900	42	800	38	500	25	.....	.....	.....	.....	.....	.....
Menhaden .....	23,500	55	36,750	83	.....	.....	.....	.....	.....	.....	.....	.....
Perch, white .....	13,200	970	13,100	950	10,000	760	.....	.....	.....	.....	.....	.....
Perch, yellow .....	600	48	800	64	.....	.....	.....	.....	.....	.....	.....	.....
Pike .....	4,100	350	4,000	340	3,800	320	.....	.....	.....	.....	.....	.....
Sea bass .....	3,000	120	3,200	130	.....	.....	.....	.....	.....	.....	.....	.....
Shad .....	204,184	10,840	197,774	10,505	182,537	10,657	318,850	18,220	298,550	17,060	266,000	15,200
Sheepshead .....	1,200	120	600	60	.....	.....	.....	.....	.....	.....	.....	.....
Spots and croakers .....	1,000	50	1,000	50	500	25	.....	.....	.....	.....	.....	.....
Squeteague .....	109,000	4,505	112,000	4,800	3,000	120	.....	.....	.....	.....	.....	.....
Striped bass .....	14,300	2,045	14,100	2,570	7,200	1,430	.....	.....	.....	.....	.....	.....
Suckers .....	3,100	69	3,150	69	2,900	63	.....	.....	.....	.....	.....	.....
Other fish .....	100	5	100	5	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>928,544</b>	<b>23,596</b>	<b>903,904</b>	<b>23,220</b>	<b>690,517</b>	<b>10,366</b>	<b>445,050</b>	<b>10,482</b>	<b>416,050</b>	<b>18,244</b>	<b>370,920</b>	<b>10,308</b>
<b>Gill nets:</b>												
Perch, white .....	450	93	800	52	1,200	84	.....	.....	.....	.....	.....	.....
Pike .....	750	72	1,300	118	2,100	198	.....	.....	.....	.....	.....	.....
Shad .....	357,625	20,071	333,288	18,835	285,050	15,288	300,800	14,672	346,850	15,856	372,050	28,038
Squeteague .....	.....	.....	4,000	200	10,000	500	.....	.....	.....	.....	.....	.....
Striped bass .....	.....	.....	100	8	300	24	2,000	240	2,124	255	1,000	120
Suckers .....	400	12	500	15	1,000	30	.....	.....	.....	.....	.....	.....
Other fish .....	8,800	440	9,300	465	8,300	415	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>307,925</b>	<b>20,028</b>	<b>349,288</b>	<b>19,693</b>	<b>308,850</b>	<b>10,537</b>	<b>308,800</b>	<b>14,912</b>	<b>348,974</b>	<b>16,111</b>	<b>373,050</b>	<b>28,758</b>
<b>Fykenets and bag nets:</b>												
Aloewives .....	182,850	916	193,550	999	183,595	918	.....	.....	.....	.....	.....	.....
Black bass .....	2,060	288	2,800	392	4,885	684	.....	.....	.....	.....	.....	.....
Carp .....	2,625	202	2,000	160	2,025	162	.....	.....	.....	.....	.....	.....
Catfish .....	37,700	2,896	33,565	2,625	31,925	2,499	.....	.....	.....	.....	.....	.....
Eels .....	22,340	1,518	17,280	1,207	19,200	1,344	.....	.....	.....	.....	.....	.....
Flounders .....	2,920	146	2,200	110	2,400	120	.....	.....	.....	.....	.....	.....
Perch, white .....	53,980	4,303	55,550	4,444	58,595	4,687	.....	.....	.....	.....	.....	.....
Perch, yellow .....	15,200	1,201	11,680	934	13,025	1,042	.....	.....	.....	.....	.....	.....
Shad .....	7,340	362	6,524	328	6,950	349	.....	.....	.....	.....	.....	.....
Striped bass .....	29,075	5,781	21,110	4,254	21,935	4,600	.....	.....	.....	.....	.....	.....
Suckers .....	43,525	3,422	45,450	3,576	41,560	3,265	.....	.....	.....	.....	.....	.....
Other fish .....	11,125	835	10,925	814	9,455	704	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>410,640</b>	<b>21,870</b>	<b>408,634</b>	<b>19,843</b>	<b>395,550</b>	<b>20,374</b>	.....	.....	.....	.....	.....	.....
<b>Lines:</b>												
Black bass .....	4,875	585	6,450	774	7,150	858	.....	.....	.....	.....	.....	.....
Catfish .....	10,000	701	11,650	816	10,350	725	.....	.....	.....	.....	.....	.....
Eels .....	9,325	653	7,550	529	6,480	454	.....	.....	.....	.....	.....	.....
Flounders .....	15,000	600	12,500	500	.....	.....	.....	.....	.....	.....	.....	.....
Sea bass .....	4,200	180	3,700	100	.....	.....	.....	.....	.....	.....	.....	.....
Squeteague .....	105,000	5,850	85,500	3,900	.....	.....	.....	.....	.....	.....	.....	.....
Striped bass .....	13,200	1,584	11,575	1,389	9,675	1,101	.....	.....	.....	.....	.....	.....
Other fish .....	2,225	134	2,025	158	2,250	136	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>223,825</b>	<b>10,287</b>	<b>141,550</b>	<b>8,226</b>	<b>35,905</b>	<b>3,334</b>	.....	.....	.....	.....	.....	.....
<b>Pots:</b>												
Eels .....	20,000	1,000	24,000	1,200	4,000	200	.....	.....	.....	.....	.....	.....
<b>Minor apparatus:</b>												
Eels .....	5,500	275	5,000	250	.....	.....	.....	.....	.....	.....	.....	.....
<b>Miscellaneous:</b>												
Quahogs .....	798,104	79,810	764,400	76,442	98,800	9,880	.....	.....	.....	.....	.....	.....
Oysters, market .....	274,295	28,502	270,524	29,288	71,050	6,598	.....	.....	.....	.....	.....	.....
Oysters, seed .....	349,542	10,876	342,300	10,224	126,000	3,600	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>1,418,941</b>	<b>110,188</b>	<b>1,386,224</b>	<b>115,954</b>	<b>295,850</b>	<b>20,078</b>	.....	.....	.....	.....	.....	.....
<b>Grand total .....</b>	<b>3,375,375</b>	<b>196,844</b>	<b>3,218,600</b>	<b>188,395</b>	<b>1,730,672</b>	<b>76,889</b>	<b>813,850</b>	<b>34,394</b>	<b>765,924</b>	<b>34,355</b>	<b>740,370</b>	<b>45,061</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Cape May.						Cumberland.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	48,800	\$530	36,400	\$384	32,800	\$347	17,350	\$173	16,500	\$165	15,400	\$154
Bluefish.....	27,300	2,087	9,000	642	17,500	675						
Butter-fish.....	15,200	676	14,100	613	23,000	810						
Catfish.....	1,000	80	1,000	80	500	40	2,099	126	2,183	131	1,600	96
Drum.....	3,000	36	8,000	87	13,000	137						
Eels.....	55,000	3,363	54,500	3,298	57,300	3,575						
Flounders.....	50,400	2,644	49,200	2,566	61,800	3,212						
Kingfish.....	13,800	930	12,100	799	8,800	563						
Menhaden.....	156,900	544	84,500	429	91,750	429						
Mullet.....	91,000	5,111	87,700	4,876	42,900	2,435						
Perch, white.....	24,200	2,070	18,000	1,532	12,000	1,048	2,116	127	1,800	108	2,350	141
Perch, yellow.....							3,332	200	4,186	251	3,500	210
Pike.....	4,000	489	3,500	420	2,000	240	175	17	20	20	150	15
Sea bass.....	2,000	140	4,000	280	3,000	210						
Shad.....	2,000	175	1,450	118	800	70	13,500	675	14,500	725	12,500	625
Sheepshead.....	300	45	100	15								
Spanish mack'l.....					500	50						
Spots and croak-ers.....	14,500	710	9,500	445	14,600	500						
Squeteague.....	292,000	12,295	264,500	11,165	192,500	8,800						
Striped bass.....	71,700	7,430	46,850	4,945	27,600	3,228	350	35	350	35	250	25
Suckers.....							400	22	250	15	150	9
Tautog.....	1,600	160	1,500	120	1,000	80						
Other fish.....	1,500	60	1,200	48	1,000	40						
<b>Total.....</b>	<b>877,100</b>	<b>39,566</b>	<b>707,700</b>	<b>32,793</b>	<b>604,350</b>	<b>26,489</b>	<b>39,322</b>	<b>1,375</b>	<b>39,960</b>	<b>1,450</b>	<b>35,900</b>	<b>1,275</b>
<b>Gill nets:</b>												
Alewives.....	5,400	58	6,000	71	5,880	68						
Bluefish.....	45,000	2,250	12,000	710	18,000	1,040						
Butter-fish.....	20,000	690										
Drum.....					5,000	59						
Flounders.....					1,500	40						
Kingfish.....	15,000	450										
Menhaden.....	35,000	250	140,000	1,200	70,000	750						
Perch, white.....	1,000	100	1,000	100	80	80						
Shad.....					200	200	556,412	19,077	585,000	23,436	478,800	32,832
Spanish mack'l.....			200	20	20	20						
Spots and croak-ers.....	10,000	500	1,500	75	1,000	50						
Squeteague.....	35,000	1,400	23,500	990	21,000	880	1,666	200	1,333	160	2,083	250
Striped bass.....							498,350	11,233	428,700	9,562	390,125	7,310
Sturgeon.....					12,750	255						
<b>Total.....</b>	<b>166,400</b>	<b>5,608</b>	<b>184,200</b>	<b>3,166</b>	<b>136,130</b>	<b>3,233</b>	<b>996,428</b>	<b>30,510</b>	<b>1,015,933</b>	<b>33,158</b>	<b>871,008</b>	<b>40,392</b>
<b>Fyke nets:</b>												
Eels.....	650	65	3,750	250	550	55						
Perch, white.....	700	35	600	30	715	36						
Squeteague.....	6,500	195	6,000	180	5,000	150						
Striped bass.....	930	65	1,000	70	1,110	89						
<b>Total.....</b>	<b>8,780</b>	<b>360</b>	<b>11,350</b>	<b>530</b>	<b>7,375</b>	<b>321</b>						
<b>Pound nets:</b>												
Eels.....	1,300	91	1,200	84	600	42						
Flounders.....	7,800	212	7,100	184	3,300	92						
Perch, white.....	800	24	800	24	600	18						
Perch, yellow.....	500	25	500	25	100	5						
Shad.....	2,300	168	2,200	164	900	67						
Squeteague.....	205,000	5,536	172,000	5,180	80,450	2,736						
Striped bass.....	10,400	728	11,400	798	4,200	284						
<b>Total.....</b>	<b>228,100</b>	<b>6,778</b>	<b>195,200</b>	<b>6,459</b>	<b>90,150</b>	<b>3,244</b>						
<b>Lines:</b>												
Bluefish.....	147,400	7,580	103,800	5,340	228,500	11,515						
Bonito.....	1,000	50	2,000	100	2,000	100						
Cod.....			10,000	360	46,000	2,760						
Drum.....	13,900	478	16,200	560	15,250	555						
Flounders.....	14,200	653	16,800	729	15,000	610						
Kingfish.....	5,400	300	6,700	375	9,000	510						
Scup.....	2,500	100	8,000	320	10,000	400						
Sea bass.....	521,300	20,867	950,900	38,186	1,855,000	74,320						
Sheepshead.....	2,000	500										
Spots and croak-ers.....	29,100	1,204	52,200	2,248	67,400	2,806						
Squeteague.....	159,000	6,066	185,500	6,875	148,400	6,311						
Striped bass.....	1,000	100	1,500	150	1,000	100						
Tautog.....	3,000	240	4,000	320	3,000	240						
<b>Total.....</b>	<b>899,800</b>	<b>38,132</b>	<b>1,357,600</b>	<b>55,563</b>	<b>2,400,550</b>	<b>100,227</b>						
<b>Pots:</b>												
Eels.....					5,000	250						
<b>Minor apparatus:</b>												
Alewives.....	30,000	350	24,000	280	33,000	413						
Eels.....	10,000	615	11,500	695	12,000	725						
<b>Total.....</b>	<b>40,000</b>	<b>965</b>	<b>35,500</b>	<b>975</b>	<b>45,000</b>	<b>1,138</b>						

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Cape May.						Cumberland.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Miscellaneous:												
Crabs, hard.....	33,200	\$2,325	38,000	\$2,025	40,000	\$2,700						
Crabs, king.....	3,094,100	7,781	2,552,600	6,719	1,810,400	4,728	241,000	\$702	226,380	\$690	194,000	\$510
Quahogs.....	212,800	16,510	203,600	20,816	305,200	25,256						
Oysters, market.	215,950	34,329	269,675	43,981	285,425	46,456	14,175	1,865	14,175	1,865	24,675	3,865
Oysters, seed...	46,000	2,480	42,000	2,225	51,100	2,620	286,643	10,625	339,143	12,275	499,275	18,775
Total.....	3,602,950	63,425	3,195,875	76,366	2,582,185	81,760	542,418	13,282	579,698	14,830	717,950	22,650
Grand total.	5,823,130	154,894	5,687,425	175,852	5,870,740	216,662	1,578,168	45,167	1,635,000	49,498	1,624,858	64,317

  

Apparatus and species.	Middlesex.						Monmouth.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Alewives.....							11,000	\$220	12,500	\$250	12,000	\$240
Bluefish.....	19,500	\$780	7,000	\$350	2,300	\$115	1,500	60	1,000	40	1,000	30
Eels.....							600	30	600	30	500	25
Flounders.....	4,000	200	4,500	225	7,500	375	900	36	1,000	40	1,000	40
Menhaden.....	1,458,333	2,625	1,541,666	2,775	2,106,666	3,900	4,200	9	3,500	20		
Perch, white.....							2,800	140	3,500	175	3,000	150
Shad.....	5,600	210	6,400	256	6,000	300	10,000	500	12,000	600	9,600	480
Squeteague.....	8,000	480	8,500	510	3,500	210	40,000	1,960	46,000	1,840	40,100	1,203
Striped bass.....	7,500	600	6,500	520	2,000	160	12,000	1,670	10,700	1,270	7,800	858
Total.....	1,502,933	4,895	1,574,566	4,636	2,187,666	5,000	92,000	4,625	90,800	4,265	75,000	3,021
Gill nete:												
Bluefish.....							107,635	4,678	109,600	4,765	104,600	3,587
Butter-fish.....							100	3	100	3	120	4
Cod.....									45,800	1,603	300	15
Dogfish.....							60,000	150	77,000	190	56,000	140
Flounders.....							1,000	30	1,000	40	1,200	48
Menhaden.....							1,275	12	4,263	42	2,200	20
Shad.....	10,400	390	9,500	356	8,000	300	61,700	3,515	52,000	3,250	55,200	3,590
Spanish mack'l.							24,305	3,778	26,210	4,155	21,891	3,010
Squeteague.....							82,765	2,828	90,300	3,349	81,220	2,962
Sturgeon.....											200	10
Other fish.....	2,900	145					400	20	760	38	1,375	75
Total.....	13,300	535	9,500	356	8,000	300	339,180	15,014	407,033	17,435	324,306	14,361
Fyke nets:												
Bluefish.....								45	1,000	50	850	43
Butter-fish.....							1,500	75	3,000	150	2,500	125
Eels.....							24,950	1,130	43,150	2,787	22,750	1,570
Flounders.....	900	39	1,500	60	15,000	670	42,600	1,724	29,000	1,217	29,200	1,210
Menhaden.....							20,166	53	20,167	53	25,000	45
Perch, white.....	5,500	330					4,000	268	5,100	339	2,800	203
Scup.....							1,000	50	2,100	105	400	20
Sea bass.....							1,000	48	1,100	53	800	40
Shad.....	14,500	765	12,500	543	7,500	395	4,500	275	4,000	240	4,000	250
Spots and croakers.....							5,000	180	6,500	265	3,500	125
Squeteague.....	550	33	500	30			4,000	202	6,000	305	4,700	237
Striped bass.....	5,200	516	2,400	192	200	16	2,150	212	2,550	274	1,950	208
Tautog.....							2,400	84	2,900	115	2,100	90
Other fish.....	600	40	500	25			1,700	85	2,700	71	23,050	224
Total.....	27,250	1,703	17,400	850	22,700	1,081	124,866	4,449	139,167	6,054	123,600	4,387
Pound nets:												
Albacore.....							1,296	40	1,176	46	810	34
Alewives.....							47,500	713	45,300	681	41,000	90
Bluefish.....					700	56	104,850	4,770	189,979	8,547	108,013	4,365
Bonito.....							26,500	1,060	54,733	2,141	47,318	1,877
Butter-fish.....							194,785	5,545	206,052	5,601	265,142	7,491
Cero.....							630	26	847	38	1,910	98
Cod.....							3,987	120	2,294	84	4,659	110
Eels.....											50	3
Flounders.....					500	30	122,545	3,145	189,767	4,461	472,747	9,499
Kingfish.....							1,430	206	2,247	278	2,183	301
Mackerel.....							9,819	975	25,017	2,304	18,607	2,105
Menhaden.....			100,000	660	12,500	83	4,828,453	15,136	3,885,176	11,799	3,411,065	11,213
Scup.....							8,720	260	12,982	311	22,400	580
Sea bass.....							15,860	610	29,188	946	91,215	3,502
Shad.....							83,610	4,975	91,118	5,802	91,163	5,978
Sheepshead.....							9,266	1,385	17,240	2,629	23,123	3,290
Spanish mack'l.							22,570	3,100	36,981	4,885	76,163	8,547
Spots and croakers.....							2,610	50	1,030	21	3,482	39

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Middlesex.						Monmouth.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Pound nets:</b>							673,507	\$39,380	2,840,299	\$65,156	4,786,590	\$66,796
Squeteague.....							4,500	300	6,000	480	5,000	400
Striped bass.....							17,425	635	23,930	1,057	40,612	994
Sturgeon.....							4,870	98	12,437	261	4,235	81
Tautog.....					300	\$18	12,220	245	23,217	419	32,056	543
Other fish.....												
<b>Total.....</b>			100,000	\$660	14,000	187	6,196,053	82,894	7,697,000	117,981	9,550,143	158,376
<b>Lines:</b>												
Albacore.....									1,000	20	1,000	20
Bluefish.....							7,033,640	249,376	5,550,347	193,797	3,353,060	118,293
Bonito.....							81,650	2,900	98,000	2,580	24,125	925
Cod.....							634,100	16,584	689,417	20,684	541,900	14,000
Drum.....											900	18
Eels.....							12,300	195	13,700	224	6,380	110
Flounders.....							466,400	15,253	427,428	13,895	311,325	9,008
Haddock.....							11,210	338	12,940	475	13,570	387
Hake.....							12,040	188	12,030	204	8,526	89
Kingfish.....									500	90		
Scup.....							400	16	500	20	450	18
Sea bass.....							2,192,159	84,999	2,294,250	89,945	1,496,271	56,592
Sheepshead.....							100	20	100	20	100	20
Skates.....							9,300	465	7,050	353	5,700	286
Spanish mack'l.....							400	60	500	75	400	60
Squeteague.....							237,186	8,284	217,864	7,538	51,911	1,751
Striped bass.....							300	45	900	135		
Tautog.....							70,475	2,766	71,700	2,805	75,605	2,956
Other fish.....									500	20	5,000	10
<b>Total.....</b>							10,761,600	381,549	9,368,776	332,880	5,896,313	204,549
<b>Pots:</b>												
Eels.....	800	\$80	500	50	200	20	95,750	7,485	129,000	8,175	108,450	7,315
<b>Minor apparatus:</b>												
Eels.....							99,300	7,136	92,750	6,670	97,000	6,565
<b>Miscellaneous:</b>												
Crabs, soft.....							225,500	26,125	241,100	29,900	365,400	32,610
Crabs, hard.....							6,800	204	8,000	240	6,200	192
Crabs, king.....									20,000	125	21,000	131
Lobsters.....							114,571	9,368	105,264	8,585	91,105	7,435
Terrapins.....									848	318	320	304
Turtles.....											1,545	35
Clams.....							790,270	45,090	803,000	45,780	572,450	32,780
Quahogs.....	4,800	480	5,440	544	2,400	225	994,680	107,331	947,080	115,176	813,200	119,662
Oysters, market.....	281,400	47,838	239,400	40,608	256,900	43,673	995,260	197,288	1,052,037	202,710	805,854	158,164
Oysters, seed.....	283,500	20,250	301,000	21,500	285,600	20,400	10,800	1,200	17,500	1,250	15,400	1,100
<b>Total.....</b>	569,700	68,568	545,840	62,742	544,900	64,298	3,143,881	386,606	3,194,829	404,084	2,692,474	352,413
<b>Grand total.....</b>	2,113,983	75,781	2,247,806	69,294	2,777,766	70,966	20,853,590	880,768	21,119,415	897,544	18,867,286	750,990

  

Apparatus and species.	Salem.						Union.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	334,714	\$1,114	485,142	\$1,598	349,712	\$1,163						
Catfish.....	60,429	3,626	43,200	2,592	56,572	3,394						
Perch, white.....	26,144	1,569	22,714	1,363	20,572	1,234						
Perch, yellow.....	77,486	4,650	69,000	4,140	64,286	3,857						
Pike.....	1,029	103	1,029	110	686	69						
Shad.....	135,348	7,295	152,280	8,233	116,057	6,095						
Striped bass.....	3,000	300	3,857	386	2,743	275						
Suckers.....	3,057	184	1,072	110	1,286	77						
Other fish.....	600	30	420	22	514	26						
<b>Total.....</b>	641,807	18,871	779,623	18,563	612,428	16,190						
<b>Gill nets:</b>												
Shad.....	6,696,900	230,228	6,518,400	261,400	5,235,650	359,648						
Striped bass.....	10,039	1,205	8,457	1,015	10,999	1,320						
<b>Total.....</b>	6,706,939	231,433	6,526,857	262,415	5,246,649	360,968						
<b>Miscellaneous:</b>												
Quahogs.....							14,000	\$1,750	14,400	\$1,800	10,000	\$2,000
Oysters, seed.....							593,000	42,500	525,000	45,000	420,000	36,000
<b>Total.....</b>							609,000	44,250	539,400	46,800	436,000	38,000
<b>Grand total.....</b>	7,348,746	250,304	7,306,480	280,978	5,850,077	377,158	609,000	44,250	539,400	46,800	436,000	38,000

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Ocean.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	397,200	\$4,857	461,500	\$4,325	598,500	\$5,490	1,591,090	\$12,359	1,783,470	\$12,128	1,713,080	\$12,269
Bluefish .....	13,400	586	5,300	215	4,600	187	68,900	3,838	29,900	1,567	26,900	1,082
Butter-fish .....	2,000	49	1,700	41	2,500	81	20,100	790	18,750	721	25,500	891
Catfish .....	8,800	292	9,000	280	11,250	362	109,625	6,138	88,600	4,824	102,663	5,653
Drum .....							3,000	36	8,240	90	13,000	137
Eels .....	14,150	1,135	11,100	890	12,100	970	76,250	4,853	72,200	4,518	74,100	4,780
Flounders .....	1,400	56	9,200	44	2,400	100	87,300	4,331	95,500	4,260	90,300	4,607
Kingfish .....	800	100	500	65	400	33	18,500	1,252	17,400	1,142	13,900	873
Menhaden .....	77,000	524	88,000	612	166,300	1,044	1,741,433	3,804	1,803,416	4,461	2,458,716	5,730
Mullet .....	500	20	650	26	600	23	92,400	5,131	88,350	4,902	43,500	2,458
Perch, white .....	7,600	452	9,100	567	12,800	792	112,148	7,324	104,715	6,561	98,877	6,067
Perch, yellow .....	363,500	18,175	377,500	18,875	280,500	14,040	463,824	24,165	469,058	24,360	364,457	19,045
Pike .....	5,200	520	5,500	550	6,400	640	17,555	1,737	17,585	1,738	16,280	1,573
Sea bass .....	1,500	60	1,200	48	1,900	76	6,500	320	8,400	458	4,900	286
Shad .....							791,982	46,008	788,175	45,452	685,255	40,568
Sheepshead .....	3,900	710	4,100	760	2,500	465	6,600	995	6,000	955	4,000	615
Spanish mackerel .....											500	50
<b>Spots and croakers:</b>												
Squeteague .....	900	33	700	26	1,000	43	16,400	793	11,200	521	16,100	568
Squeteague .....	107,600	4,244	88,600	3,544	56,000	2,320	794,400	36,084	775,600	36,989	540,625	26,423
Striped bass .....	70,600	13,965	80,700	15,750	56,050	10,950	194,380	28,961	180,658	27,276	118,200	18,543
Suckers .....	2,400	96	2,300	115	2,200	110	12,621	480	10,730	417	19,870	872
Tautog .....	500	20	400	16	400	16	2,100	180	1,900	130	1,400	96
Other fish .....	2,900	58	2,150	43	2,750	58	10,552	938	10,290	994	18,936	938
<b>Total .....</b>	<b>1,081,850</b>	<b>45,952</b>	<b>1,159,200</b>	<b>46,792</b>	<b>1,221,150</b>	<b>37,800</b>	<b>6,246,660</b>	<b>100,517</b>	<b>6,399,146</b>	<b>184,470</b>	<b>6,442,650</b>	<b>153,630</b>
<b>Gill nets:</b>												
Alewives .....	2,900	42	7,700	89	7,500	90	8,300	100	13,700	160	13,360	158
Bluefish .....	154,700	7,218	133,000	6,292	100,800	4,908	307,335	14,146	254,900	11,767	223,400	9,535
Bonito .....			300	12	200	8			300	12	200	8
Butter-fish .....	2,200	78	2,900	107	2,600	94	22,300	681	3,000	110	2,720	98
Cod .....									45,800	1,603	300	15
Dogfish .....							60,600	150	77,000	190	56,000	140
Drum .....											5,000	50
Flounders .....	2,600	58	2,400	60	1,900	49	3,600	88	3,400	100	4,609	137
Kingfish .....	800	74	550	77	200	35	15,800	524	550	77	200	35
Mackerel .....	100	12	100	12	600	87	100	12	100	12	600	87
Menhaden .....	52,200	206	45,500	190	44,500	188	109,275	530	214,763	1,507	141,700	1,033
Perch, white .....	500	25	200	10	200	10	18,450	1,553	14,500	1,262	6,200	474
Perch, yellow .....	9,000	990	19,000	1,900	16,750	1,075	9,000	900	19,000	1,900	19,750	1,675
Pike .....							1,385	122	1,900	166	2,600	238
Shad .....							9,552,487	350,891	9,190,938	385,889	7,811,150	528,034
Sheepshead .....	1,100	122	950	109	6,500	952	1,100	122	950	109	6,500	952
Spanish mackerel .....	7,275	1,292	9,000	1,535	8,100	1,350	31,580	5,030	35,410	5,710	30,191	5,280
<b>Spots and croakers:</b>												
Squeteague .....	80,100	3,184	92,400	3,844	45,800	1,523	198,365	7,432	210,800	8,407	158,020	5,865
Striped bass .....	3,400	850	6,900	1,500	6,000	1,400	52,861	6,745	49,371	6,618	47,305	6,344
Sturgeon .....							438,350	11,233	428,700	9,562	403,075	7,575
Suckers .....							400	12	500	15	1,000	30
Other fish .....	1,200	36	1,400	48	1,200	40	16,200	786	13,460	651	13,575	605
<b>Total .....</b>	<b>318,975</b>	<b>14,084</b>	<b>322,500</b>	<b>15,851</b>	<b>248,050</b>	<b>12,415</b>	<b>10,857,788</b>	<b>401,584</b>	<b>10,586,442</b>	<b>435,908</b>	<b>8,945,666</b>	<b>568,484</b>
<b>Fyke nets and bag nets:</b>												
Alewives .....							183,850	931	200,350	1,011	184,495	931
Black bass .....							2,000	288	2,800	392	4,885	684
Bluefish .....							900	45	1,000	50	850	43
Butter-fish .....							1,500	75	3,000	150	2,500	125
Carp .....							2,525	202	2,000	160	2,025	162
Catfish .....							37,700	2,890	33,565	2,225	31,925	2,499
Eels .....	8,500	350	4,500	300	4,000	400	57,400	3,616	69,680	4,594	47,500	3,419
Flounders .....	23,700	948	54,500	2,180	104,500	4,180	70,120	2,857	88,100	3,597	151,100	6,180
Frostfish or tomcod .....	4,500	135	1,400	42	2,000	60	4,500	135	1,400	42	2,000	60
Menhaden .....							29,166	53	29,107	53	25,000	45
Perch, white .....	7,300	558	5,000	430	7,800	708	83,880	6,360	73,700	5,692	77,210	6,077
Perch, yellow .....							15,200	1,201	11,680	934	13,025	1,042
Scup .....							1,000	50	2,100	105	400	20
Sea bass .....							1,000	48	1,100	53	800	40
Shad .....							192,340	7,617	147,024	6,071	148,450	6,844
<b>Spots and croakers:</b>												
Squeteague .....							5,000	180	6,500	265	3,500	125
Squeteague .....							11,050	430	12,500	515	9,700	387
Striped bass .....	3,400	708	1,500	300	1,700	354	49,555	8,922	35,760	6,350	33,995	6,583
Suckers .....							43,525	3,422	45,450	3,576	41,560	3,265
Tautog .....	2,300	69	2,300	69	4,000	120	4,700	153	5,200	184	6,100	210
Other fish .....							500	20	13,425	910	33,005	948
<b>Total .....</b>	<b>49,700</b>	<b>3,268</b>	<b>69,200</b>	<b>3,321</b>	<b>124,500</b>	<b>5,842</b>	<b>810,486</b>	<b>40,431</b>	<b>780,210</b>	<b>37,329</b>	<b>820,025</b>	<b>39,639</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of New Jersey—Continued.

Apparatus and species.	Ocean.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Pound nets:												
Albacore					3,100	\$102	1,296	\$40	1,176	\$40	3,910	\$136
Alewives							47,500	713	45,300	681	41,000	590
Bluefish					23,000	1,180	104,850	4,770	189,979	8,547	131,713	5,541
Bonito					21,000	800	20,500	1,060	54,733	2,141	68,318	2,737
Butter-fish					73,000	2,240	194,785	5,545	206,052	5,601	338,142	9,731
Cero					1,700	74	630	26	847	38	3,610	172
Cod							3,987	120	2,294	64	4,659	110
Eels							1,300	91	1,200	84	600	45
Flounders					50,500	1,715	130,345	3,357	196,867	4,645	527,047	11,336
Kingfish					300	65	1,430	206	2,247	278	2,483	366
Mackerel					3,700	555	9,819	975	25,017	2,304	22,307	2,660
Menhaden							4,828,453	15,130	3,985,176	12,459	3,424,165	11,296
Perch, white							800	24	800	24	600	18
Perch, yellow							500	25	500	25	100	5
Scup					14,500	545	8,720	260	12,982	311	36,000	1,125
Sea bass					51,500	2,445	15,860	610	29,188	946	142,715	5,947
Shad					9,600	720	85,910	5,143	93,318	6,026	101,663	6,775
Sheepshead					2,614	484	9,266	1,385	17,246	2,029	25,737	3,774
Spanishmackerel							7,500	1,420	22,570	3,100	36,981	4,885
Spots and croakers							2,610	50	1,080	21	3,482	39
Squeteague					680,900	20,427	878,507	44,910	3,012,299	70,336	5,547,940	119,950
Striped bass							14,900	1,088	17,400	1,278	9,200	684
Sturgeon					5,200	260	17,425	635	23,930	1,057	45,812	1,254
Tautog					200	10	4,870	98	12,437	261	4,435	91
Other fish							12,220	245	23,217	419	32,350	501
Total					948,314	33,112	6,425,053	89,672	7,992,260	125,100	10,602,007	194,919
Lines:												
Albacore	2,500	\$50	2,000	\$40	1,500	30	2,500	50	3,000	60	2,500	50
Black bass							4,875	585	6,450	774	7,150	858
Bluefish	1,238,200	42,474	779,000	31,005	556,750	22,692	8,503,440	304,725	6,520,647	235,612	4,230,810	157,810
Bonito	35,000	1,074	25,000	5,024	11,000	230	118,250	4,084	95,600	7,704	37,125	1,255
Catfish							10,000	701	11,650	816	10,350	725
Cod	25,000	1,000	10,000	400	5,000	200	659,100	17,584	709,417	21,444	592,900	16,960
Drum	2,500	100	1,800	72	2,000	80	23,900	690	29,000	777	21,650	705
Eels							21,625	848	21,250	753	12,860	504
Flounders	82,500	3,190	91,300	3,484	74,000	3,425	632,000	21,458	604,028	21,018	448,125	14,385
Haddock	7,500	300	5,000	200	2,500	100	18,710	638	17,940	675	16,070	487
Hake							12,040	183	12,080	204	8,526	89
Kingfish	400	48	300	36	200	24	13,800	748	13,500	801	10,200	634
Scup	600	24	600	24	400	16	3,500	140	9,100	364	10,850	434
Sea bass	617,000	24,835	290,500	12,080	258,523	11,215	3,339,859	131,146	3,544,350	140,631	3,612,898	142,238
Sheepshead							6,600	1,270	2,100	320	1,100	120
Skates							9,300	405	7,050	353	5,700	286
Spanishmackerel	4,500	1,450	5,500	1,950	2,500	550	4,900	1,510	6,000	2,025	2,900	610
Spots and croakers							43,100	1,786	86,200	3,633	159,900	6,036
Squeteague	201,000	7,545	113,000	5,040	124,000	6,830	2,149,686	89,999	1,983,364	84,938	1,276,711	55,077
Striped bass							16,500	1,829	14,975	1,774	10,975	1,291
Tautog	2,300	92	2,200	88	2,000	80	78,275	3,223	76,900	3,313	81,695	9,326
Other fish							2,225	134	3,125	178	7,250	146
Total	2,219,600	82,182	1,326,800	59,533	1,040,375	45,472	15,674,185	583,901	13,780,726	528,167	10,568,243	404,692
Pots:												
Eels	99,500	4,975	105,100	5,255	117,450	6,195	226,050	14,340	270,000	15,640	247,900	15,005
Minor apparatus:												
Alewives							30,000	350	24,000	280	33,000	413
Eels	62,500	4,465	61,000	4,530	64,500	4,805	180,800	12,666	173,250	12,295	173,500	12,095
Total							210,800	13,016	197,250	12,575	206,500	12,508
Miscellaneous:												
Crabs, soft	50,000	5,550	48,400	5,480	44,120	5,032	275,500	31,075	289,500	35,380	409,520	37,642
Crabs, hard							40,000	2,529	46,000	2,805	46,200	2,892
Crabs, king							3,335,700	8,573	2,798,980	7,534	2,025,460	5,369
Lobsters	8,000	640	5,000	400	3,000	240	144,071	11,083	130,264	9,985	104,105	8,425
Shrimp	1,050	525	1,200	600	750	500	500	525	1,200	600	750	500
Terrapins	1,050	375	1,002	390	1,078	385	2,560	770	3,280	1,074	2,598	997
Turtles					1,250	25	25				2,795	00
Clams	25,000	2,000	24,000	1,920	23,000	1,840	815,270	47,090	827,000	47,700	595,450	34,620
Quahogs	252,704	24,235	257,600	25,250	749,904	74,759	2,832,192	283,561	2,782,728	290,516	2,490,408	277,655
Oysters, market	316,900	39,212	289,275	35,726	450,002	52,499	2,826,390	475,867	2,874,536	479,576	2,671,956	442,858
Oysters, seed	430,710	15,533	460,775	16,606	968,765	34,812	2,037,495	134,514	2,741,718	141,770	3,195,710	152,129
Total	1,085,474	88,070	1,087,342	86,372	2,241,869	170,092	12,910,228	906,187	12,495,206	1,017,000	11,549,952	963,147
Grand total	4,917,500	242,996	4,131,142	221,654	6,001,208	315,733	53,361,250	2,329,648	52,507,840	2,356,189	49,388,552	2,352,024

\* Taken in pots.



## FISHERIES OF PENNSYLVANIA.

*General features of the fisheries.*—The fishing industry of Pennsylvania is of less extent than in any other Middle State except Delaware, and, if only the local waters are considered, the fisheries are insignificant. The rank of Pennsylvania among the coast and lake States, including the fisheries of Lake Erie, which are not covered by the present report, is eighteenth.

Pennsylvania is the only State of this region that does not have a frontage on salt water. By means of a small fleet of vessels, however, it maintains extensive fisheries in salt water, in Delaware Bay and the adjacent ocean. Two very important rivers, the Delaware and the Susquehanna, are within the State, and contain an abundance of resident and anadromous fish. In these all of the commercial fishing is done. The larger part of the yield is marketed in Philadelphia and Baltimore. Besides receiving large quantities of fishery products from points within the State, Philadelphia also has an exceedingly extensive fish trade with Chesapeake Bay, Delaware Bay, and the ocean shores of New Jersey, Delaware, Maryland, and Virginia. The city is the principal catfish and eel market of the United States.

The leading branches of the industry are the extensive seine and gill-net fisheries for shad in the two rivers and the oyster vessel fishery in Delaware Bay tributary to Philadelphia. This is the only State in which the oyster fishery is not of prime importance. Alewives are taken under the same conditions as shad, and rank second among the fishes found in the State limits, but are less valuable than the sea bass caught in the salt-water vessel fisheries.

*Statistical summary.*—The extent of the fisheries of this State in 1889, 1890, 1891, and 1892 is shown in the three following tables.

The number of persons engaged in the industry in 1892 was less than in any of the preceding years, the decrease being mostly due to a reduced fleet of oyster vessels. The fishing population in 1889 was 2,331, and in 1892 was 2,220. In the last year the vessel fishermen numbered 288, the shore and boat fishermen 1,615, the shoresmen 310, and the transporters 7.

The investment in 1892 was \$976,011, and was larger than in any of the other years, the decline in vessel property being more than compensated for in shore property and cash capital. Forty vessels were employed, against 58 in 1889. The small boats numbered 817. Seines, gill nets, and fyke nets were the only important apparatus for fish proper; these were valued at \$45,169, while all other apparatus was worth only \$5,047.

The product of the fisheries in 1892 was 6,324,508 pounds, valued at \$284,031. In 1889, 7,165,777 pounds were taken, worth \$324,530. The decrease was chiefly in shad and oysters, the catch of the former being reduced on account of an unfavorable season, the diminished output of the latter being due to less extensive operations.

*Persons employed in the fisheries of Pennsylvania.*

How engaged.	1889.	1890.	1891.	1892.
In vessel fisheries .....	382	365	348	288
In shore fisheries .....	1,052	1,619	1,631	1,615
On transporting vessels .....	6	5	5	7
On shore, in markets, etc .....	291	302	289	310
Total .....	2,331	2,291	2,273	2,220

*Vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Pennsylvania.*

Designation.	1889.		1890.		1891.		1892.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Vessels fishing .....	56	\$103,350	51	\$93,650	47	\$84,900	37	\$68,125
Tonnage .....	1,388		1,270		1,194		957	
Outfit .....		19,005		19,895		19,410		16,835
Vessels transporting .....	2	3,700	2	3,000	2	2,875	3	3,350
Tonnage .....	42		26		26		33	
Outfit .....		135		120		110		130
Boats .....	850	30,950	837	31,046	837	30,652	817	29,535
Apparatus—vessel fisheries:								
Dredges .....	208	6,210	188	5,675	164	5,035	132	4,025
Lines .....		156		176		206		136
Apparatus—shore fisheries:								
Seines .....	153	20,185	151	19,130	151	19,405	141	18,750
Gill nets .....	220	22,340	219	22,320	209	21,450	205	21,200
Fyke nets .....	2,611	5,523	2,583	5,384	2,534	5,264	2,532	5,219
Lines .....		410		412		427		368
Minor nets .....		501		407		494		488
Shore property and accessories		416,970		440,410		450,162		495,420
Cash capital .....		298,640		295,600		303,750		312,400
Total .....		928,075		937,285		944,140		976,011

*Products of the fisheries of Pennsylvania.*

Species.	1889.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	1,989,985	\$13,325	2,447,500	\$13,894	2,331,775	\$13,449	2,059,015	\$12,144
Black bass .....	22,015	2,278	21,125	2,190	22,885	2,368	21,743	2,242
Carp .....	3,295	177	3,435	180	3,800	199	3,784	197
Codfish .....	147,771	7,038	142,217	6,690	132,468	6,223	134,650	6,293
Eels .....	41,762	2,249	42,545	2,258	40,950	2,174	44,085	2,365
Perch, white .....	7,160	413	7,068	402	6,020	341	6,170	343
Perch, yellow .....	10,415	685	13,160	705	12,625	674	12,308	468
Pike .....	8,805	813	5,520	777	4,975	697	5,481	777
Sea bass .....	614,420	24,140	802,600	28,606	947,500	33,805	901,564	37,555
Shad .....	2,752,572	125,717	2,898,551	131,226	2,692,864	128,274	1,996,482	110,200
Strawberry bass .....	987	89	750	70	880	80	1,050	102
Striped bass .....	24,360	2,374	22,865	2,233	24,615	2,406	23,352	2,320
Sturgeon .....	63,750	750	58,650	810	52,700	640	60,180	728
Suckers .....	53,895	2,568	48,105	2,369	42,550	2,115	43,570	2,213
Other fish .....	87,165	4,394	85,825	4,339	83,350	4,156	84,414	4,294
Oysters .....	* 1,337,420	137,520	† 1,249,290	131,450	‡ 1,183,700	124,420	§ 926,660	101,850
Total .....	7,165,777	324,530	7,849,206	328,199	7,583,657	322,021	6,324,508	284,031

\* 191,060 bushels.

† 178,470 bushels.

‡ 169,100 bushels.

§ 132,380 bushels.

*Statistics of the fisheries by counties.*—Two counties in Pennsylvania on the Susquehanna River and seven on the Delaware River have commercial fisheries. The following tables indicate the extent to which each of these was interested in the fishing industry in 1890, 1891, and 1892.

The counties bordering on the Delaware River, viz, Bucks, Delaware, Monroe, Philadelphia, and Pike, had a fishing population in 1892 of 1,585, and those on the Susquehanna—Lancaster and York—had 635. Of the former number, 940 were in Philadelphia County. Lancaster County had 471 and Bucks County 438 persons, all of whom were shore fishermen.

The capital invested in the fishing industry of the counties bordering on the Delaware River was \$963,570, of which \$916,485 was credited to Philadelphia County. The value of the fishery investment on the Susquehanna River was \$12,441. All the vessels in the State belong in Philadelphia County, which also has rather important fishing carried on with seines, gill nets, and fyke nets. Seines and gill nets, however, are used in larger numbers in Bucks County than elsewhere, while fykes are more numerous in Philadelphia County than in all the remainder of the State.

The yield of the fisheries of the Delaware River, including the salt-water fishing by Philadelphia vessels, was 6,002,268 pounds, having a value to the fishermen of \$262,268, while the counties on the Susquehanna River took products to the quantity of 322,240 pounds, valued at \$21,763. Philadelphia County, with its extensive vessel fishery, easily takes first rank among the counties of the State, the value of the output being \$178,345, of which \$139,405 represents oysters and sea bass. In the extent of the fisheries prosecuted within the limits of the State, Bucks County occupies the first place, with a catch valued at \$44,585. The shad is the preeminent fish in Pennsylvania, and in every fishing county except Philadelphia is more valuable than all other fish combined.

Statement by counties of the number of persons employed in the fisheries of Pennsylvania.

Counties.	In vessel fisheries.			In shore fisheries.			On transporting vessels.			On shore, in markets, etc.			Total.		
	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.
Bucks.....				444	440	438							444	440	438
Delaware.....				188	184	186							188	184	186
Lancaster.....				458	460	471							458	460	471
Monroe and Pike.....				21	21	21							21	21	21
Philadelphia.....	365	348	288	348	340	395	5	5	7	302	289	310	1,020	982	940
York.....				160	168	164							160	168	164
Total.....	365	348	288	1,619	1,631	1,615	5	5	7	302	289	310	2,291	2,273	2,220

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Pennsylvania.

Designation.	Bucks.						Delaware.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Boats.....	254	\$9,770	245	\$9,460	223	\$8,490	93	\$5,960	91	\$5,830	92	\$5,895
Apparatus:												
Seines.....	80	11,060	77	11,180	66	10,460	1	500	1	500	1	500
Gill nets.....	56	4,690	51	4,340	49	4,250	110	12,860	107	12,520	108	12,630
Fyke nets.....	403	1,889	380	1,330	330	1,160	65	130	70	140	72	144
Lines.....		250		245		216						
Shore property and accessories.....		2,500		2,505		2,360		190		190		210
Total.....		29,719		29,060		26,936		19,640		19,180		19,379

  

Designation.	Lancaster.						Monroe and Pike.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Boats.....	278	\$4,287	289	\$4,464	293	\$4,510	8	\$195	8	\$195	8	\$195
Apparatus:												
Seines.....	40	2,370	43	2,495	44	2,550	4	420	4	420	4	420
Fyke nets.....	49	285	43	260	50	297						
Lines.....		121		139		140						
Minor nets.....	129	382	130	400	132	390						
Shore property and accessories.....		1,510		1,527		1,560		160		150		155
Total.....		8,955		9,285		9,447		775		765		770

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Pennsylvania—Continued.

Designation.	Philadelphia.						York.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	51	\$93,650	47	\$84,900	37	\$68,125						
Tonnage	1,270		1,194		957							
Outfit		19,895		19,410		16,835						
Vessels transporting	2	3,000	2	2,875	3	3,350						
Tonnage	26		26		33							
Outfit		120		110		130						
Boats	114	9,410	110	9,200	107	8,970	90	\$1,424	94	\$1,503	94	\$1,475
Apparatus—vessel fisheries:												
Dredges	188	5,675	164	5,035	132	4,025						
Lines		176		206		136						
Apparatus—shore fisheries:												
Seines	12	4,000	11	3,080	11	3,980	14	780	15	830	15	840
Gill nets	53	4,770	51	4,500	48	4,320						
Fyke nets	2,050	3,485	2,026	3,444	2,061	3,504	16	95	15	90	10	114
Lines								41		43		42
Minor nets							31	85	34	94	36	98
Shore property and accessories		435,000		445,300		490,710		390		430		425
Cash capital		295,000		303,750		312,400						
<b>Total</b>		<b>875,381</b>		<b>882,800</b>		<b>916,485</b>		<b>2,815</b>		<b>2,990</b>		<b>2,994</b>

  

Designation.	Total for State.					
	1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	51	\$93,650	47	\$84,900	37	\$68,125
Tonnage	1,270		1,194		957	
Outfit		19,895		19,410		16,835
Vessels transporting	2	3,000	2	2,875	3	3,350
Tonnage	26		26		33	
Outfit		120		110		130
Boats	837	31,046	837	30,652	817	29,535
Apparatus—vessel fisheries:						
Dredges	188	5,675	164	5,035	132	4,025
Lines		176		206		136
Apparatus—shore fisheries:						
Seines	151	19,130	151	19,405	141	18,750
Gill nets	219	22,320	209	21,450	205	21,200
Fyke nets	2,583	5,384	2,534	5,204	2,532	5,219
Lines		412		427		308
Minor nets	160	467	170	494	168	488
Shore property and accessories		440,410		450,162		495,420
Cash capital		295,600		303,750		312,400
<b>Total</b>		<b>937,285</b>		<b>944,140</b>		<b>976,011</b>

Statement by counties and species of the products of the fisheries of Pennsylvania.

Species.	Bucks.						Delaware.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	1,934,500	\$9,072	1,808,275	\$9,047	1,559,575	\$7,800	356,000	\$3,325	366,000	\$3,500	337,640	\$3,350
Black bass	4,845	561	5,385	618	5,635	639						
Carp	275	22	300	24	265	21						
Catfish	15,075	1,657	15,135	1,044	15,300	1,062	4,500	225	5,000	250	5,200	260
Eels	8,025	560	7,225	506	7,190	502	900	50	1,000	55	1,000	50
Perch, white	2,210	141	2,225	135	2,300	138						
Perch, yellow	1,860	112	2,125	122	1,700	108						
Shad	634,380	36,814	659,055	35,911	526,544	29,104	773,500	30,260	741,650	29,090	669,870	29,335
Striped bass	5,075	584	6,460	733	5,685	648						
Sturgeon							58,650	810	52,700	640	60,180	728
Suckers	18,550	1,303	19,850	1,308	19,700	1,378						
Other fish	62,975	3,226	61,450	3,129	61,724	3,185						
<b>Total</b>	<b>2,687,770</b>	<b>54,052</b>	<b>2,587,485</b>	<b>52,587</b>	<b>2,205,618</b>	<b>44,585</b>	<b>1,193,550</b>	<b>34,670</b>	<b>1,166,350</b>	<b>34,135</b>	<b>973,890</b>	<b>33,723</b>

Statement by counties and species of the products of the fisheries of Pennsylvania—Continued.

Species.	Lancaster.						Monroe and Pike.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives.....							99,000	\$537	99,500	\$542	97,800	\$534
Black bass.....	11,025	\$1,163	12,375	\$1,238	10,982	\$1,096	780	78	1,000	100	1,040	104
Carp.....	2,250	112	2,625	131	2,537	127						
Catfish.....	3,019	136	3,375	168	2,800	132	7,117	487	10,333	620	9,050	547
Eels.....	10,163	556	10,350	573	10,315	567						
Perch, white.....							1,858	111	1,595	96	1,470	85
Perch, yellow.....	6,375	319	5,850	292	6,420	322	2,800	168	2,700	162	2,490	138
Pike.....	3,375	506	3,000	450	3,456	524	1,020	102	975	97	1,025	103
Shad.....	130,235	9,303	95,529	6,823	120,484	8,607	70,637	3,619	73,292	3,646	73,706	3,761
Strawberry bass.....							750	70	880	80	1,050	102
Striped bass.....	9,750	878	10,650	959	9,620	869	990	99	953	95	1,175	117
Suckers.....	5,575	140	5,025	125	5,170	142						
Other fish.....	13,000	627	11,850	521	12,190	594	2,250	112	2,100	105	2,480	124
Total.....	195,367	13,740	160,620	11,280	184,574	12,700	187,202	5,383	192,958	5,543	191,286	5,615

Species.	Philadelphia.						York.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives.....	58,000	\$300	58,000	\$300	64,000	\$460						
Black bass.....							3,875	\$388	4,125	\$412	4,086	\$403
Carp.....							910	46	875	44	982	49
Catfish.....	111,500	4,740	97,500	4,085	101,000	4,230	1,006	45	1,125	50	1,240	62
Eels.....	20,000	900	19,000	855	22,000	990	3,457	192	3,375	185	3,580	196
Perch, white.....	3,000	150	2,200	110	2,400	120						
Perch, yellow.....							2,125	106	1,950	98	1,950	99
Pike.....							1,125	169	1,000	150	1,000	150
Sea bass.....	802,600	28,606	947,500	33,805	901,564	37,555						
Shad.....	1,215,375	40,578	1,018,150	45,607	594,050	32,180	74,424	4,652	105,590	6,507	111,228	7,213
Striped bass.....	3,800	380	3,000	300	3,200	320	3,250	292	3,550	319	3,672	366
Suckers.....	22,000	880	16,000	640	16,000	640	1,980	46	1,675	42	2,160	53
Other fish.....							7,900	374	7,950	391	8,020	391
Oysters.....	1,249,290*	131,450	1,183,700†	124,420	926,600‡	101,850						
Total.....	3,485,565	214,044	3,345,050	210,182	2,631,474	178,345	99,752	6,310	131,185	8,294	137,066	8,973

Species.	Total for State.					
	1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives.....						
Black bass.....						
Carp.....						
Catfish.....						
Eels.....						
Perch, white.....						
Perch, yellow.....						
Pike.....						
Sea bass.....						
Shad.....						
Strawberry bass.....						
Striped bass.....						
Sturgeon.....						
Suckers.....						
Other fish.....						
Oysters.....						
Total.....	7,849,206	\$328,199	7,583,657	\$322,021	6,324,508	\$284,031

\* 178,470 bushels.

† 109,100 bushels.

‡ 132,380 bushels.

The products specified by apparatus of capture.—In the vessel fisheries of this State carried on from Philadelphia only sea bass and oysters were taken in 1892, the apparatus used being lines and dredges, respectively. The catch of sea bass was 901,564 pounds, valued at \$37,555, and the oyster production was 132,380 bushels, worth \$101,850. The results of the vessel fisheries in 1890, 1891, and 1892 are given.

The shore fisheries yielded 4,496,284 pounds of fish, with a value of \$144,626, of which seines took 3,104,386 pounds, valued at \$82,913; gill nets 1,118,140 pounds, valued at \$45,741; fyke nets 158,860 pounds, valued at \$7,152; lines 75,319 pounds, valued at \$6,094, and dip nets 39,579 pounds, valued at \$2,726. Seines are the most important means of capture in Bucks, Lancaster, Philadelphia, Pike, and York counties, while in Delaware County gill nets are the principal apparatus. Detailed figures showing the yield of each apparatus in each county are given in the table.

Statement by apparatus and species of the products of the vessel fisheries of Pennsylvania.

Apparatus and species.	1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Lines:						
Catfish .....	9,500	\$400	9,000	\$380		
Sea bass .....	862,600	28,606	947,500	33,805	901,504	\$37,555
Total .....	872,100	29,006	956,500	34,185	901,504	37,555
Dredges:						
Oysters .....	* 1,249,290	131,450	† 1,183,700	124,420	‡ 926,600	101,850
Grand total .....	2,061,390	160,456	2,140,200	158,605	1,828,224	139,405

\* 178,470 bushels.      † 169,100 bushels.      ‡ 132,380 bushels.

Statement by counties, apparatus and species of the yield of the shore fisheries of Pennsylvania.

Apparatus and species.	Lancaster.						Monroe and Pike.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Alewives .....							99,000	\$537	99,500	\$542	97,800	\$534
Black bass .....							780	78	1,000	100	1,040	104
Catfish .....							7,117	487	10,333	620	9,050	547
Perch, white .....							1,858	111	1,595	96	1,470	85
Perch, yellow .....							2,800	168	2,700	162	2,490	138
Pike .....							1,020	102	975	97	1,025	103
Shad .....	94,654	\$6,761	71,435	\$5,102	80,859	\$6,419	70,637	3,619	72,920	3,616	73,706	3,761
Strawberry bass .....							750	70	880	80	1,050	102
Striped bass .....							990	99	953	95	1,175	117
Other fish .....	9,700	480	9,100	403	8,990	450	2,250	112	2,100	105	2,480	124
Total .....	104,354	7,241	80,535	5,505	98,849	6,869	187,202	5,383	192,958	5,543	191,286	5,615
Fyke nets:												
Carp .....	2,250	112	2,625	131	2,537	127						
Eels .....	3,450	207	3,225	194	3,175	190						
Suckers .....	5,575	140	5,025	125	5,710	142						
Total .....	11,275	459	10,875	450	11,422	459						
Dip nets:												
Eels .....	1,575	94	1,800	113	2,000	120						
Shad .....	35,581	2,542	24,094	1,721	30,625	2,188						
Other fish .....	1,500	75	800	40	1,250	62						
Total .....	38,656	2,711	26,694	1,874	33,875	2,370						
Lines:												
Black bass .....	11,625	1,163	12,375	1,238	10,982	1,096						
Catfish .....	3,019	136	3,375	168	2,860	132						
Eels .....	5,138	255	5,325	266	5,140	257						
Perch, yellow .....	6,375	319	5,850	292	6,420	312						
Pike .....	3,375	506	3,000	450	3,456	524						
Striped bass .....	9,750	878	10,650	959	9,620	869						
Other fish .....	1,800	72	1,950	78	1,950	82						
Total .....	41,082	3,320	42,525	3,451	40,428	3,092						
Grand total .....	195,367	13,740	160,629	11,280	184,674	12,790	187,202	5,383	192,958	5,543	191,286	5,615

Statement by counties, apparatus, and species of the yield of the shore fisheries of Pennsylvania—Cont'd.

Apparatus and species.	Bucks.						Delaware.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	1,028,000	\$0,643	1,803,200	\$0,021	1,554,775	\$7,775	140,000	\$975	144,000	\$1,025	124,000	\$910
Black bass .....	595	62	906	93	1,125	121						
Catfish .....	4,225	296	4,650	309	5,050	338						
Shad .....	489,200	29,906	510,580	29,205	392,468	22,907	56,000	2,200	56,350	2,250	46,900	2,085
Striped bass .....	625	87	1,325	96	1,075	108						
Suckers .....	6,450	451	7,100	497	6,400	481						
Other fish .....	49,725	2,509	48,025	2,454	48,574	2,462						
<b>Total .....</b>	<b>2,470,720</b>	<b>42,934</b>	<b>2,382,380</b>	<b>41,716</b>	<b>2,009,467</b>	<b>34,192</b>	<b>196,000</b>	<b>3,175</b>	<b>200,350</b>	<b>3,275</b>	<b>170,900</b>	<b>2,995</b>
<b>Gill nets:</b>												
Alewives .....							216,000	2,350	222,000	2,475	213,040	2,440
Shad .....	144,800	6,889	142,000	6,681	133,600	6,173	717,500	28,080	685,300	27,440	522,970	27,250
Sturgeon .....							58,050	810	62,700	640	60,180	728
Other fish .....	8,300	419	7,800	390	8,200	430						
<b>Total .....</b>	<b>153,100</b>	<b>7,308</b>	<b>149,800</b>	<b>7,071</b>	<b>141,800</b>	<b>6,603</b>	<b>992,150</b>	<b>31,220</b>	<b>980,000</b>	<b>30,555</b>	<b>796,790</b>	<b>30,418</b>
<b>Fyke nets:</b>												
Alewives .....	5,000	29	5,075	26	4,800	25						
Black bass .....	600	61	675	68	525	52						
Carp .....	275	22	300	24	265	21						
Catfish .....	5,650	396	5,025	352	4,575	327	4,500	225	5,000	250	5,200	260
Eels .....	3,200	223	3,100	218	2,675	186	900	50	1,000	55	1,000	50
Perch, white .....	2,210	141	2,225	135	2,300	188						
Perch, yellow .....	1,860	112	2,125	122	1,700	108						
Shad .....	380	19	475	25	470	24						
Striped bass .....	775	77	970	96	575	57						
Suckers .....	12,100	852	12,750	811	13,300	897						
Other fish .....	2,050	154	2,475	142	2,425	142						
<b>Total .....</b>	<b>35,300</b>	<b>2,086</b>	<b>35,195</b>	<b>2,019</b>	<b>33,610</b>	<b>1,977</b>	<b>5,400</b>	<b>275</b>	<b>6,000</b>	<b>305</b>	<b>6,200</b>	<b>310</b>
<b>Lines:</b>												
Black bass .....	3,650	438	3,810	457	3,985	466						
Catfish .....	5,200	365	5,400	383	5,675	397						
Eels .....	4,825	337	4,125	288	4,515	316						
Striped bass .....	3,675	440	4,165	500	4,035	483						
Other fish .....	2,300	144	2,550	153	2,525	151						
<b>Total .....</b>	<b>19,050</b>	<b>1,724</b>	<b>20,110</b>	<b>1,781</b>	<b>20,735</b>	<b>1,813</b>						
<b>Grand total .....</b>	<b>2,087,770</b>	<b>54,052</b>	<b>2,587,485</b>	<b>52,587</b>	<b>2,205,018</b>	<b>44,585</b>	<b>1,193,550</b>	<b>34,070</b>	<b>1,106,350</b>	<b>34,135</b>	<b>973,890</b>	<b>33,723</b>

Apparatus and species.	Philadelphia.						York.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	58,000	\$330	58,000	\$360	64,000	\$460						
Catfish .....	26,000	1,300	16,500	825	19,800	990						
Perch, white .....	3,000	150	2,200	110	2,400	120						
Shad .....	910,000	34,800	757,400	35,280	415,100	23,460	69,900	\$4,373	100,624	\$6,289	106,104	\$6,892
Striped bass .....	3,800	380	3,000	300	3,200	320						
Suckers .....	22,000	880	16,000	640	16,000	640						
Other fish .....							7,000	350	7,300	365	7,280	360
<b>Total .....</b>	<b>1,022,800</b>	<b>37,870</b>	<b>853,100</b>	<b>37,515</b>	<b>520,500</b>	<b>25,990</b>	<b>76,900</b>	<b>4,723</b>	<b>107,924</b>	<b>6,654</b>	<b>113,384</b>	<b>7,252</b>
<b>Gill nets:</b>												
Shad .....	305,375	11,778	260,750	10,327	170,550	8,720						
<b>Fyke nets:</b>												
Carp .....							910	46	875	44	982	49
Catfish .....	70,000	3,040	72,000	2,880	81,200	3,240						
Eels .....	20,000	900	19,000	855	22,000	990	1,120	70	1,075	64	1,280	74
Suckers .....							1,980	46	1,675	42	2,160	53
<b>Total .....</b>	<b>96,000</b>	<b>3,940</b>	<b>91,000</b>	<b>3,735</b>	<b>103,200</b>	<b>4,230</b>	<b>4,010</b>	<b>162</b>	<b>3,625</b>	<b>150</b>	<b>4,422</b>	<b>176</b>
<b>Dip nets:</b>												
Eels .....							620	37	525	32	580	35
Shad .....							4,464	279	4,036	308	5,124	321
<b>Total .....</b>							<b>5,084</b>	<b>316</b>	<b>5,461</b>	<b>340</b>	<b>5,704</b>	<b>356</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Pennsylvania—Cont'd.

Apparatus and species.	Philadelphia.						York.					
	1890.		1891.		1892.		1891.		1890.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Lines:</b>												
Black bass.....							3,875	\$388	4,125	\$412	4,086	\$403
Catfish.....							1,006	45	1,125	56	1,240	62
Eels.....							1,717	85	1,775	89	1,720	87
Perch, white.....							2,125	106	1,950	98	1,608	90
Perch, yellow.....							1,125	169	1,000	150	1,000	150
Pike.....							3,250	292	3,550	319	3,672	366
Striped bass.....							600	24	650	26	740	31
Other fish.....												
<b>Total.....</b>							<b>13,008</b>	<b>1,109</b>	<b>14,175</b>	<b>1,150</b>	<b>14,156</b>	<b>1,189</b>
<b>Grand total.....</b>	<b>1,424,175</b>	<b>\$53,588</b>	<b>1,204,850</b>	<b>\$51,577</b>	<b>803,250</b>	<b>\$38,940</b>	<b>99,752</b>	<b>6,310</b>	<b>131,185</b>	<b>8,294</b>	<b>137,666</b>	<b>8,973</b>
	<b>Total for the State.</b>											
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	2,225,900	\$11,515	2,104,700	\$10,948	1,840,575	\$9,679						
Black bass.....	1,375	140	1,900	193	2,165	225						
Catfish.....	37,342	2,083	31,483	1,754	33,900	1,875						
Perch, white.....	4,858	261	3,795	206	3,870	205						
Perch, yellow.....	2,800	168	2,700	162	2,490	138						
Pike.....	1,020	102	975	97	1,025	103						
Shad.....	1,690,451	81,659	1,575,309	81,772	1,124,137	65,524						
Strawberry bass.....	750	70	880	80	1,050	102						
Striped bass.....	5,415	546	5,280	532	5,450	545						
Suckers.....	28,450	1,331	23,100	1,137	22,400	1,121						
Other fish.....	68,875	3,451	67,125	3,327	67,324	3,396						
<b>Total.....</b>	<b>4,067,036</b>	<b>101,326</b>	<b>3,817,247</b>	<b>100,208</b>	<b>3,104,386</b>	<b>82,913</b>						
<b>Gill nets:</b>												
Alewives.....	216,000	2,350	222,000	2,475	213,640	2,440						
Shad.....	1,167,875	46,727	1,088,050	44,448	836,120	42,143						
Sturgeon.....	58,650	810	52,700	640	60,180	728						
Other fish.....	8,300	419	7,800	390	8,200	430						
<b>Total.....</b>	<b>1,450,825</b>	<b>50,306</b>	<b>1,370,550</b>	<b>47,953</b>	<b>1,118,140</b>	<b>45,741</b>						
<b>Fyke nets:</b>												
Alewives.....	5,600	29	5,075	26	4,800	25						
Black bass.....	600	61	675	68	525	52						
Carp.....	3,435	180	3,800	199	3,784	197						
Catfish.....	86,150	3,661	32,025	3,482	90,975	3,827						
Eels.....	28,670	1,450	27,400	1,386	30,130	1,490						
Perch, white.....	2,210	141	2,225	135	2,300	138						
Perch, yellow.....	1,860	112	2,125	122	1,700	108						
Shad.....	380	10	475	25	476	24						
Striped bass.....	775	77	970	96	575	57						
Suckers.....	19,655	1,038	19,450	978	21,170	1,092						
Other fish.....	2,650	154	2,475	142	2,425	142						
<b>Total.....</b>	<b>151,985</b>	<b>6,922</b>	<b>146,695</b>	<b>6,659</b>	<b>158,800</b>	<b>7,152</b>						
<b>Dip nets:</b>												
Eels.....	2,195	131	2,325	145	2,580	155						
Shad.....	40,045	2,821	29,030	2,029	35,749	2,509						
Other fish.....	1,500	75	800	40	1,250	62						
<b>Total.....</b>	<b>43,740</b>	<b>3,027</b>	<b>32,155</b>	<b>2,214</b>	<b>39,579</b>	<b>2,726</b>						
<b>Lines:</b>												
Black bass.....	19,150	1,989	20,310	2,107	19,053	1,965						
Catfish.....	9,225	546	9,960	607	9,775	591						
Eels.....	11,680	677	11,225	643	11,375	660						
Perch, yellow.....	8,500	425	7,800	390	8,118	222						
Pike.....	4,500	375	4,000	600	4,450	374						
Striped bass.....	16,675	1,610	18,365	1,778	17,327	1,718						
Other fish.....	4,700	240	5,150	257	5,215	264						
<b>Total.....</b>	<b>74,430</b>	<b>6,162</b>	<b>76,310</b>	<b>6,382</b>	<b>75,319</b>	<b>6,094</b>						
<b>Grand total.....</b>	<b>5,787,816</b>	<b>167,743</b>	<b>5,443,457</b>	<b>163,416</b>	<b>4,496,284</b>	<b>144,626</b>						



## FISHERIES OF DELAWARE.

*Importance and general aspects of the industry.*—The fisheries of this State are the least extensive in the Middle Atlantic region, although, in proportion to the length of shore line, the industry is of considerable importance and is surpassed in value by that of Pennsylvania by only a few thousand dollars. The rank of Delaware as a fishing State is 21.

Delaware has a frontage on the ocean, on Delaware Bay and River, and also has a river of some size, the Nanticoke, tributary to Chesapeake Bay. Fishing is carried on along the ocean shore of the State, in Delaware Bay, and in the rivers mentioned, but is most extensive in Delaware Bay. The proximity of Wilmington, Philadelphia, and Baltimore affords a good market for the fishery products taken.

The oyster fishery is usually of greater importance than any other branch, although at times the shad fishery has become the most valuable. The taking of alewives, eels, perch, squeteague, striped bass, sturgeon, and crabs is also comparatively extensive. In the extent of its sturgeon fishery Delaware not only surpasses the other States of this section, but takes first rank among the coast States of the country. It is also noticeable as being the southernmost State in which lobster fishing is carried on.

*Condensed statistical statement.*—General statistics of the fisheries of Delaware in 1889, 1890, 1891, and 1892 are given in the three tables which follow.

Of the total fishing population in 1892, 153 persons were in the vessel fisheries, 1,692 in the shore fisheries, and 494 in menhaden factories and oyster houses. A slight annual increase in all classes of fishery employés is indicated by the returns.

The \$218,144 invested in the fishing industry of Delaware in 1892 consisted of \$42,540 in vessels and their outfits, \$29,754 in boats, \$50,050 in apparatus of capture, and \$95,800 in shore property and cash capital. During the four years covered by the inquiry, the variation in the aggregate investment and in the individual items was slight. Comparing 1892 with 1889, there was a small increase in the number of vessels, gill nets, pound nets, and eel pots, and a decrease in the number of boats, seines, fyke nets, and lobster pots.

The value of the products in 1892 was less than in any of the three previous years, owing to a diminished catch of shad, squeteague, sturgeon, and perch. The somewhat larger yield of eels, striped bass, crabs, and oysters was not sufficient to overcome the reduction in the other species. The fisheries resulted in the following returns to the fishermen: 1889, \$256,980; 1890, \$267,346; 1891, \$255,423; 1892, \$250,853.

Persons employed in the fisheries of Delaware.

How engaged.	1889.	1890.	1891.	1892.
In vessel fisheries .....	103	103	103	107
In shore fisheries .....	1,645	1,669	1,653	1,692
On transporting vessels .....	25	41	43	46
On shore, in factories, etc. ....	380	366	451	494
Total .....	2,153	2,179	2,250	2,339

*Vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Delaware.*

Designation.	1889.		1890.		1891.		1892.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Vessels fishing .....	25	\$22, 035	25	\$21, 740	25	\$21, 525	26	\$21, 175
Tonnage .....	297		297		304		313	
Outfit .....		3, 575		3, 555		3, 390		3, 030
Vessels transporting .....	11	13, 450	15	12, 550	16	13, 250	17	15, 580
Tonnage .....	225		207		224		256	
Outfit .....		1, 395		1, 865		1, 975		2, 155
Boats .....	971	29, 040	972	28, 965	946	29, 233	908	29, 754
Apparatus—vessel fisheries:								
Dredges .....	100	2, 100	100	2, 070	100	2, 110	104	2, 195
Apparatus—shore fisheries:								
Seine .....	204	10, 610	206	10, 340	203	10, 263	199	10, 083
Gill nets .....	1, 502	33, 469	1, 587	33, 424	1, 586	33, 946	1, 603	34, 373
Pound nets and weirs .....	20	280	22	380	20	305	27	455
Fyke nets .....	622	1, 365	617	1, 355	507	1, 261	540	1, 220
Cast nets .....	11	44	12	48	13	52	9	48
Crab nets .....	170	85	148	74	122	61	167	84
Eel pots .....	1, 695	737	1, 785	771	1, 775	784	1, 870	827
Lobster pots .....	45	112	40	100	40	100	21	53
Lines .....		36		21		20		20
Spears .....	170	85	170	85	170	85	195	100
Tongs and rakes .....	243	522	246	534	243	522	262	592
Shore property .....		49, 080		45, 900		44, 800		48, 300
Cash capital .....		42, 300		43, 000		44, 000		47, 500
Total .....		210, 320		206, 777		208, 082		218, 144

*Products of the fisheries of Delaware.*

Species.	1889.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	843, 700	\$12, 515	827, 050	\$12, 098	863, 760	\$12, 412	848, 800	\$11, 585
Catfish .....	75, 200	4, 231	75, 800	4, 261	73, 800	4, 074	72, 095	4, 010
Croakers and spots .....	68, 200	3, 470	56, 900	2, 995	42, 460	2, 280	39, 190	1, 911
Drum .....	32, 000	400	34, 000	425	30, 000	380	31, 020	393
Eels .....	249, 900	9, 895	226, 100	9, 124	223, 500	8, 967	269, 120	10, 635
Flounders .....	5, 400	162	5, 300	178	5, 000	168	5, 120	172
Kingfish .....	2, 000	100	1, 600	80	960	48	240	12
Menhaden .....	61, 000	385	58, 000	370	67, 000	420	65, 500	405
Mullet .....	36, 750	1, 141	36, 400	1, 116	38, 900	1, 125	40, 300	1, 204
Perch .....	255, 500	16, 563	251, 750	16, 204	255, 855	16, 139	211, 415	14, 019
Pike .....	24, 110	1, 511	24, 460	1, 530	24, 950	1, 548	25, 840	1, 604
Shad .....	1, 498, 653	64, 908	1, 797, 218	66, 812	1, 500, 196	64, 600	1, 110, 369	60, 255
Squeteague .....	3, 211, 900	20, 562	3, 102, 000	19, 845	1, 164, 730	17, 524	837, 510	16, 364
Striped bass .....	109, 610	14, 750	107, 220	14, 432	94, 010	12, 758	115, 042	15, 442
Sturgeon .....	1, 327, 300	26, 730	1, 301, 600	29, 350	1, 304, 800	30, 448	1, 051, 590	24, 610
Suckers .....	10, 800	505	10, 250	500	11, 050	501	8, 930	442
Tautog .....	5, 000	200	5, 000	200	8, 000	320	8, 300	332
Other fish .....	16, 300	805	20, 700	889	4, 380	164	4, 140	148
Crabs, soft .....	124, 125	6, 040	108, 375	5, 970	86, 250	4, 713	115, 475	6, 878
Crabs, horseshoe .....	800, 000	700	760, 000	665	740, 000	647	1, 049, 200	918
Lobsters .....	9, 600	480	7, 200	360	8, 200	410	5, 600	285
Oysters .....	1, 034, 250	64, 671	1, 179, 500	73, 605	1, 097, 040	70, 134	1, 227, 324	73, 863
Quahogs or hard clams .....	19, 840	1, 901	21, 600	2, 067	21, 920	2, 094	21, 240	2, 035
Terrapins .....	18, 025	2, 820	14, 800	2, 740	11, 988	2, 190	11, 638	2, 136
Turtles .....	22, 000	1, 540	21, 000	1, 470	18, 000	1, 260	19, 000	1, 295
Total .....	9, 859, 163	256, 980	10, 053, 823	267, 346	7, 697, 649	255, 423	7, 194, 688	250, 853

The following figures represent the number of bushels of certain products given in pounds in the foregoing table:

Products.	Quantity.			
	1889.	1890.	1891.	1892.
Crabs, soft.....number..	372, 375	325, 125	258, 750	346, 425
Crabs, horseshoe ..do .....	400, 000	380, 000	370, 000	528, 600
Oysters .....	147, 750	168, 500	156, 720	175, 332
Quahogs or hard clams ..do .....	2, 480	2, 700	2, 740	2, 655
Terrapins .....	8, 013	7, 400	5, 994	5, 810

*Statistics by counties.*—The three counties of Delaware are all interested in the fisheries. Newcastle County borders on the Delaware River, Kent County partly on the river and partly on Delaware Bay, and Sussex County on the bay and ocean, as well as having an outlet to Chesapeake Bay through the Nanticoke River. The extent of the fisheries in each county is shown in the following tables.

Sussex County has the largest fishing population and the most invested capital, but the value of the fisheries of Kent County is greatest. The vessel fishing is practically confined to Kent County, and thus the larger part of the oyster product of the State becomes credited to that county, which also leads in the catch of squeteague. Newcastle County ranks second in the value of the yield. It leads the others in the output of shad and sturgeon. In Sussex County the catch of alewives, eels, and crabs is larger than elsewhere. This county also has, at Lewes and Seaford, respectively, important factories for the utilization of menhaden and oysters.

*Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Delaware.*

Designation.	Newcastle.						Kent.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	2	\$1,440	1	\$700	1	\$700	23	\$20,300	24	\$20,825	25	\$20,475
Tonnage.....	18.09		8.29		8.29		278.70		285.97		304.55	
Outfit.....		275		135		115		3,280		3,255		3,515
Vessels transporting.....	1	550	1	500	1	480						
Tonnage.....	5.73		5.73		5.73							
Outfit.....		65		75		75						
Boats.....	254	16,650	261	17,130	262	17,290	215	6,762	214	6,652	231	6,940
Apparatus:												
Dredges.....	8	130	4	85	4	85	92	1,940	96	2,025	100	2,110
Seines.....	9	590	9	570	9	570	56	4,190	56	4,190	55	4,135
Gill nets.....	234	23,130	2 41	23,795	244	24,145	208	4,942	208	4,708	212	4,775
Pound nets and weirs.....							4	200	3	150	10	300
Fyke nets.....	455	910	400	800	348	696	105	237	112	259	135	316
Cast nets.....							12	48	13	52	9	48
Eel pots.....	125	125	160	100	164	104						
Lines.....		5		5		5		0		8		8
Spears.....											25	15
Oyster tongs.....							75	300	72	288	85	334
Clam rakes.....							20	15	20	15	20	15
Shore property.....		4,300		5,300		5,300		2,500		2,500		3,000
Cash capital.....		8,000		10,000		10,000		1,500		1,500		2,000
Total.....		56,170		59,255		59,625		46,223		46,427		47,986

  

Designation.	Sussex.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....							25	\$21,740	25	\$21,525	26	\$21,175
Tonnage.....							296.79		304.26		312.84	
Outfit.....								3,555		3,390		3,630
Vessels transporting.....	14	\$12,000	15	\$12,750	16	\$15,100	15	12,550	16	13,250	17	15,580
Tonnage.....	201.60		218.19		249.87		206.73		223.92		255.60	
Outfit.....		1,800		1,900		2,080		1,865		1,975		2,155
Boats.....	503	5,553	471	5,451	475	5,524	972	28,965	946	29,233	968	29,754
Apparatus:												
Dredges.....							100	2,070	100	2,110	104	2,195
Seines.....	141	5,560	138	5,503	135	5,378	206	10,340	203	10,263	199	10,083
Gill nets.....	1,145	5,352	1,137	5,443	1,147	5,453	1,587	33,424	1,586	33,946	1,603	34,373
Pound nets and weirs.....	18	180	17	155	17	155	22	380	20	305	27	455
Fyke nets.....	57	208	55	202	57	208	617	1,355	567	1,261	540	1,220
Cast nets.....							12	48	13	52	9	48
Crab nets.....	148	74	122	61	167	84	148	74	122	61	167	84
Eel pots.....	1,660	646	1,615	624	1,712	663	1,785	771	1,775	784	1,876	827
Lobster pots.....	40	100	40	100	21	53	40	100	40	100	21	53
Lines.....		7		7		7		21		20		20
Spears.....	170	85	170	85	170	85	170	85	170	85	195	100
Oyster tongs.....	31	124	31	124	37	148	106	424	103	412	122	482
Clam rakes.....	120	95	120	95	120	95	140	110	140	110	140	110
Shore property.....		39,100		37,000		40,000		45,900		44,800		48,300
Cash capital.....		33,500		32,000		35,500		43,000		44,400		47,500
Total.....		104,384		102,400		110,533		206,777		208,082		218,144

Statement by counties of the number of persons employed in the fisheries of Delaware.

Counties.	In vessel fisheries.			In shore fisheries.			On transporting vessels.			On shore, in factories, etc.			Total.		
	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.	1890.	1891.	1892.
Kent	95	99	103	459	462	490	.....	.....	.....	5	5	6	550	566	590
Newcastle	8	4	4	351	360	367	2	2	2	22	25	25	383	391	398
Sussex	.....	.....	.....	859	831	835	39	41	44	339	401	463	1,237	1,273	1,342
Total	103	103	107	1,669	1,653	1,692	41	43	46	366	431	494	2,179	2,230	2,339

Statement by counties and species of the products of the fisheries of Delaware.

Species.	Kent.						Newcastle.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	42,200	\$1,050	42,940	\$1,095	40,540	\$1,048	383,600	\$6,016	379,600	\$6,040	345,520	\$4,908
Catfish	23,600	1,344	24,600	1,411	25,640	1,475	33,900	2,122	32,760	1,998	29,960	1,820
Croakers	9,000	470	8,000	519	6,100	345	.....	.....	.....	.....	.....	.....
Drum	26,000	325	19,000	240	19,600	248	.....	.....	.....	.....	.....	.....
Eels	2,400	144	2,700	162	38,200	1,407	12,400	705	14,000	805	13,900	800
Mullet	5,000	150	4,500	135	4,500	135	.....	.....	.....	.....	.....	.....
Perch	34,200	2,317	35,920	2,427	36,340	2,441	33,300	2,510	33,500	2,523	33,200	2,514
Pike	4,000	244	3,900	237	4,000	247	4,750	320	4,600	304	4,600	304
Shad	175,700	10,110	155,875	9,102	126,811	7,494	1,314,600	43,104	1,166,025	44,230	837,732	42,510
Squeteague	2,398,600	14,128	881,200	11,918	644,640	11,579	.....	.....	.....	.....	.....	.....
Striped bass	36,120	4,709	33,280	4,493	34,157	4,516	33,050	4,069	34,230	4,065	37,930	4,619
Sturgeon	306,000	4,400	230,350	3,380	173,910	2,557	995,600	24,950	1,074,450	27,068	877,680	21,953
Suckers	4,850	230	5,400	249	5,180	247	2,400	180	2,150	147	2,150	147
Oysters	1,046,500	65,205	1,002,890	63,554	1,076,194	65,133	30,100	2,850	12,950	1,300	7,350	940
Quahogs or hard clams	2,560	256	2,400	240	2,280	228	.....	.....	.....	.....	.....	.....
Crabs, horseshoe	760,000	665	740,000	647	1,049,200	918	.....	.....	.....	.....	.....	.....
Terrapins	5,000	1,080	1,988	450	1,778	426	.....	.....	.....	.....	.....	.....
Turtles	13,000	910	10,000	700	11,500	805	.....	.....	.....	.....	.....	.....
Total	4,894,730	107,737	3,204,943	100,959	3,300,770	101,249	2,843,700	86,826	2,754,265	88,480	2,100,022	80,521

  

Species.	Sussex.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	401,250	\$5,032	441,220	\$5,277	462,830	\$5,629	827,050	\$12,098	863,760	\$12,412	848,890	\$11,585
Catfish	18,300	795	16,440	665	17,995	715	75,800	4,261	73,800	4,074	72,695	4,010
Croakers	47,900	2,525	34,460	1,761	33,090	1,566	56,900	2,695	42,460	2,260	39,190	1,911
Drum	8,000	100	11,060	140	11,220	145	34,000	425	30,000	380	31,020	393
Eels	211,300	8,275	206,800	8,000	217,020	8,428	226,100	9,124	223,500	8,967	209,120	10,635
Flounders	5,300	178	5,000	168	5,120	172	5,300	178	5,000	168	5,120	172
Kingfish	1,600	80	960	48	240	12	1,600	80	960	48	240	12
Menhaden	58,000	370	67,000	420	65,500	405	58,000	370	67,000	420	65,500	405
Mullet	31,400	966	34,400	990	35,800	1,069	36,400	1,110	38,900	1,125	40,300	1,204
Perch	184,250	11,437	186,435	11,189	141,875	9,064	251,750	16,264	255,855	16,139	211,415	14,019
Pike	15,710	966	16,450	1,007	17,240	1,053	24,460	1,530	24,950	1,548	25,840	1,604
Shad	306,918	13,598	178,296	11,367	145,826	10,245	1,797,218	66,812	1,500,196	64,669	1,110,360	60,255
Squeteague	703,400	5,717	283,530	5,606	192,870	4,785	3,162,000	19,845	1,164,730	17,524	837,510	16,364
Striped bass	38,950	5,654	27,400	4,200	42,955	6,307	107,220	14,432	94,910	12,758	115,042	15,442
Sturgeon	.....	.....	.....	.....	.....	.....	1,301,660	29,350	1,304,800	30,448	1,051,590	24,510
Suckers	3,000	90	3,500	105	1,000	48	10,250	500	11,050	501	8,930	442
Tautog	5,000	200	8,000	320	8,300	332	5,000	200	8,000	320	8,300	332
Other fish	20,700	889	4,380	164	4,140	148	20,700	889	4,380	164	4,140	148
Oysters	102,900	5,550	81,200	5,280	143,780	7,790	1,179,500	73,605	1,097,040	70,134	1,227,324	73,863
Lobsters	7,200	360	8,200	410	5,600	285	7,200	360	8,200	410	5,600	285
Quahogs or hard clams	19,040	1,811	19,520	1,854	18,960	1,807	21,600	2,067	21,920	2,094	21,240	2,035
Crabs, horseshoe	.....	.....	.....	.....	.....	.....	760,000	605	740,000	647	1,049,200	918
Crabs, soft	108,375	5,970	86,250	4,713	115,475	6,878	108,375	5,970	86,250	4,713	115,475	6,878
Terrapins	9,800	1,660	10,000	1,740	9,860	1,710	14,800	2,740	11,988	2,190	11,638	2,130
Turtles	8,000	560	8,000	560	7,500	490	21,000	1,470	18,000	1,260	19,000	1,295
Total	2,315,393	72,783	1,738,441	65,984	1,703,896	69,083	10,053,823	267,346	7,097,649	255,423	7,194,688	250,853

*The catch by apparatus.*—The quantity and value of the products taken by each kind of apparatus in each county are indicated in the following tables relating to the years 1890, 1891, and 1892. In the vessel fishery only oysters are taken, dredges being the apparatus employed. The yield in 1892 was 52,610 bushels, valued at \$40,491. In the shore and boat fisheries, gill nets are of prime importance, taking more than half the fish credited to the State and nearly half the money returns. Shad and sturgeon are the prominent fish thus secured. Seines rank next to gill nets in the quantity and value of the catch, squeteague being the most important fish obtained. All other forms of apparatus—pound nets, fyke nets, cast nets, pots, etc.—take very small quantities of fish.

*Statement by counties of the products of the vessel fisheries of Delaware.*

Designation.	1890.		1891.		1892.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
Oysters:						
Kent .....	57,300	\$42,580	57,150	\$42,350	51,560	\$39,551
Newcastle .....	4,300	2,850	1,850	1,300	1,050	940
Total .....	61,600	45,430	59,000	43,650	52,610	40,491

*Statement by counties, apparatus, and species of the yield of the shore fisheries of Delaware.*

Apparatus and species.	Kent.						Newcastle.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	13,000	\$335	13,840	\$350	13,360	\$338	221,200	\$3,280	213,600	\$3,140	193,600	\$2,390
Catfish .....	4,000	200	3,600	180	3,640	182	12,200	790	13,000	785	12,500	745
Croakers .....	2,800	150	2,600	240	2,600	135						
Drum .....	26,000	325	19,000	240	19,800	248						
Perch .....	18,500	1,155	18,980	1,173	19,410	1,201	5,100	345	5,400	350	5,600	360
Pike .....							1,500	102	1,400	88	1,400	88
Shad .....	62,300	3,630	52,955	3,087	42,301	1,706	7,350	304	7,000	300	5,740	310
Squeteague .....	2,380,000	13,720	892,300	11,510	628,980	11,219						
Striped bass .....	19,100	2,310	18,530	2,255	19,282	2,325	4,700	594	6,700	700	6,400	760
Suckers .....	3,000	120	3,400	136	2,980	119	2,100	165	1,800	130	1,800	130
<b>Total .....</b>	<b>2,528,700</b>	<b>21,045</b>	<b>995,205</b>	<b>19,171</b>	<b>751,753</b>	<b>17,473</b>	<b>254,150</b>	<b>5,580</b>	<b>248,900</b>	<b>5,493</b>	<b>227,040</b>	<b>4,783</b>
<b>Gill nets:</b>												
Alewives .....	28,000	685	28,100	720	20,180	685	162,400	2,736	166,000	2,960	151,020	2,518
Catfish .....	3,400	170	3,500	181	3,700	201	1,700	92	2,060	111	2,060	111
Croakers .....	6,200	320	5,400	279	3,500	210						
Mullet .....	5,000	150	4,500	135	4,500	135						
Perch .....	12,950	986	14,000	1,074	14,110	1,085	25,300	2,020	25,600	2,048	25,600	2,048
Pike .....	4,000	244	3,000	237	4,000	247	3,250	218	3,200	216	3,200	216
Shad .....	119,400	6,489	102,920	6,015	84,510	5,788	1,307,250	42,866	1,159,025	43,930	631,992	42,206
Squeteague .....	3,000	108	3,000	108	3,000	100						
Striped bass .....	14,270	2,006	11,900	1,845	13,475	1,975	26,350	3,255	25,630	3,155	29,580	3,640
Sturgeon .....	306,000	4,400	230,350	3,380	173,910	2,557	995,600	24,950	1,074,450	27,068	877,680	21,953
Suckers .....	1,600	100	1,800	105	2,000	120	300	15	350	17	350	17
<b>Total .....</b>	<b>498,420</b>	<b>15,649</b>	<b>410,030</b>	<b>14,079</b>	<b>332,885</b>	<b>13,103</b>	<b>2,522,150</b>	<b>76,086</b>	<b>2,456,315</b>	<b>79,445</b>	<b>1,922,382</b>	<b>72,709</b>
<b>Pound nets and weirs:</b>												
Alewives .....	1,200	30	1,000	25	1,000	25						
Catfish .....	500	40	400	32	100	8						
Perch .....	700	63	640	55	220	15						
Striped bass .....	2,000	300	1,750	265	520	95						
<b>Total .....</b>	<b>4,400</b>	<b>433</b>	<b>3,790</b>	<b>377</b>	<b>1,840</b>	<b>143</b>						
<b>Fyke nets:</b>												
Catfish .....	5,400	324	6,500	390	7,800	468	16,000	960	13,700	822	11,400	684
Eels .....	2,400	144	2,700	162	3,200	182	3,900	195	3,500	175	3,100	155
Perch .....	1,450	77	1,700	89	2,000	104	2,900	145	2,500	125	2,000	106
Striped bass .....	250	33	240	32	280	37	1,000	100	900	90	750	75
Suckers .....	250	10	200	8	200	8						
<b>Total .....</b>	<b>9,750</b>	<b>588</b>	<b>11,340</b>	<b>681</b>	<b>13,480</b>	<b>769</b>	<b>23,800</b>	<b>1,400</b>	<b>20,600</b>	<b>1,212</b>	<b>17,250</b>	<b>1,020</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Delaware—Continued.

Apparatus and species.	Kent.						Newcastle.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Cast nets:												
Catfish.....	9,300	\$560	9,600	\$578	9,400	\$566						
Pots:							8,500	\$519	10,500	\$630	10,800	\$645
Eels.....												
Spears:												
Eels.....					35,000	1,225						
Lines:												
Catfish.....	1,000	50	1,000	50	1,000	50	4,000	280	4,000	280	4,000	280
Perch.....	600	36	600	36	600	36						
Squeteague.....	15,000	300	15,300	300	13,200	260						
Striped bass.....	500	60	800	96	600	84	1,000	120	1,000	120	1,200	144
Total.....	17,100	446	17,700	482	15,460	430	5,000	400	5,000	400	5,200	424
Miscellaneous:												
Oysters.....	645,400	22,625	602,840	21,204	715,274	25,582						
Clams.....	2,560	253	2,400	240	2,280	228						
Crabs, horseshoe.....	760,000	665	740,000	617	1,040,200	918						
Terrapins.....	5,000	1,080	1,985	450	1,778	426						
Turtles.....	13,000	910	10,000	700	11,560	805						
Total.....	1,425,960	25,536	1,357,228	23,241	1,780,032	27,950						
Grand total.....	4,493,630	65,157	2,804,893	58,609	2,939,850	61,698	2,813,600	83,976	2,741,315	87,180	2,182,672	79,581

Apparatus and species.	Sussex.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Alewives.....	291,100	\$3,716	288,200	\$3,688	315,800	\$4,091	525,300	\$7,331	515,640	\$7,178	622,760	\$6,819
Catfish.....	7,300	335	4,400	170	4,600	185	23,500	1,325	21,000	1,135	20,740	1,112
Croakers.....	13,500	685	11,300	571	20,200	918	16,300	835	13,900	811	22,800	1,053
Drum.....	8,000	100	11,000	140	11,220	145	34,000	425	30,000	380	31,020	393
Flounders.....	5,300	178	5,000	168	5,120	172	5,300	178	5,000	168	5,120	172
Menhaden.....	8,000	40	8,000	40	10,000	50	8,000	40	8,000	40	10,000	50
Mullet.....	3,800	114	3,800	114	3,400	102	3,800	114	3,800	114	3,400	102
Perch.....	112,650	6,595	119,400	6,097	62,480	3,876	136,250	8,095	143,780	8,220	87,490	5,437
Pike.....	6,400	470	6,400	470	6,300	465	7,900	572	7,800	558	7,700	553
Shad.....	107,998	5,096	55,419	3,753	45,755	3,544	177,648	9,030	115,374	7,140	93,796	5,560
Squeteague.....	657,600	4,373	252,600	4,678	174,410	4,229	3,037,600	18,093	1,114,900	16,188	802,790	15,448
Striped bass.....	29,300	4,305	19,620	3,003	33,555	4,885	53,100	7,209	44,850	5,958	50,237	7,970
Suckers.....							5,100	285	5,200	266	4,780	240
Other fish.....	8,500	425					8,500	425				
Total.....	1,250,448	26,432	785,139	23,492	692,840	22,662	4,042,298	53,957	2,029,244	48,156	1,671,633	44,918
Gill nets:												
Alewives.....	106,800	1,299	141,000	1,529	136,000	1,482	297,200	4,720	335,100	5,149	314,100	4,685
Catfish.....	6,800	250	7,100	259	6,600	244	11,900	512	12,660	551	12,360	559
Croakers.....	34,400	1,840	23,160	1,190	12,890	648	40,600	2,160	28,560	1,469	16,390	858
Kingfish.....	1,600	80	960	48	240	12	1,600	80	960	48	240	12
Menhaden.....	50,000	330	59,000	380	55,500	355	50,000	330	50,000	330	55,500	355
Mullet.....	27,600	852	30,600	876	32,400	907	32,600	1,002	35,100	1,011	36,900	1,102
Perch.....	58,200	4,092	53,915	3,780	66,170	4,455	96,450	7,098	93,515	6,902	105,880	7,588
Pike.....	8,760	463	9,550	507	10,350	551	16,010	925	16,050	900	17,530	1,014
Shad.....	106,820	8,439	120,385	7,473	97,727	6,580	1,617,470	57,719	1,382,330	57,418	1,014,229	54,374
Squeteague.....	29,300	849	19,930	598	13,600	412	32,600	957	23,500	706	10,660	512
Striped bass.....	8,350	1,289	7,480	1,152	8,840	1,346	48,670	6,550	45,070	6,152	51,895	6,961
Sturgeon.....							1,301,000	29,350	1,304,800	30,448	1,051,590	24,510
Suckers.....	3,000	90	3,500	105	1,600	48	4,900	205	5,650	227	3,950	185
Other fish.....	6,500	325	500	30	400	24	6,500	325	500	30	400	24
Total.....	538,130	20,198	477,080	17,927	442,357	17,124	3,558,700	111,933	3,343,425	111,451	2,697,624	102,936
Pound nets and weirs:												
Alewives.....	3,350	17	12,020	60	11,030	56	4,550	47	13,020	85	12,030	81
Catfish.....	4,200	210	2,940	136	3,095	146	4,700	250	3,340	168	3,195	154
Perch.....	9,400	470	5,650	279	4,795	236	10,100	533	6,290	334	5,015	251
Pike.....	550	33	500	30	610	37	550	33	500	30	610	37
Shad.....	1,050	31	1,491	80	1,419	71	1,050	31	1,491	80	1,419	71
Striped bass.....					160	16	2,000	300	1,750	265	680	111
Other fish.....	900	45	1,500	75	1,170	57	900	45	1,500	75	1,170	57
Total.....	19,450	806	24,101	660	22,279	619	23,850	1,239	27,891	1,037	24,119	782

Statement by counties, apparatus, and species of the yield of the shore fisheries of Delaware—Continued.

Apparatus and species.	Sussex.						Total.					
	1890.		1891.		1892.		1890.		1891.		1892.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Fyke nets:</b>												
Catfish.....			2,000	\$100	2,800	\$140	21,400	\$1,284	22,200	\$1,312	22,000	\$1,292
Eels.....							6,300	339	6,200	337	6,300	337
Perch.....	4,000	\$280	7,470	433	8,430	497	8,350	502	11,670	647	12,430	707
Shad.....	1,050	32	1,001	61	925	50	1,050	32	1,001	61	925	50
Striped bass.....	400	60	300	45	400	60	1,650	193	1,440	167	1,430	172
Suckers.....							250	10	200	8	200	8
Other fish.....	4,800	94	2,380	59	2,570	67	4,800	94	2,380	59	2,570	67
<b>Total.....</b>	<b>10,250</b>	<b>466</b>	<b>13,151</b>	<b>698</b>	<b>15,125</b>	<b>814</b>	<b>43,800</b>	<b>2,454</b>	<b>45,091</b>	<b>2,591</b>	<b>45,855</b>	<b>2,633</b>
<b>Cast nets:</b>												
Catfish.....							9,300	560	9,600	578	9,400	566
<b>Pots:</b>												
Eels.....	91,300	3,715	86,800	3,440	91,420	3,644	99,800	4,225	97,300	4,070	102,220	4,280
Lobsters.....	7,200	360	8,200	410	5,600	285	7,200	360	8,200	410	5,600	285
<b>Total.....</b>	<b>98,500</b>	<b>4,075</b>	<b>95,000</b>	<b>3,850</b>	<b>97,020</b>	<b>3,929</b>	<b>107,000</b>	<b>4,585</b>	<b>105,500</b>	<b>4,480</b>	<b>107,820</b>	<b>4,574</b>
<b>Spears:</b>												
Eels.....	120,000	4,560	120,000	4,560	125,600	4,784	120,000	4,560	120,000	4,560	100,600	6,009
<b>Lines:</b>												
Catfish.....							5,000	330	5,000	330	5,000	330
Perch.....							600	36	600	36	600	36
Squeteague.....	16,500	495	11,000	330	4,800	144	31,500	795	26,300	630	18,060	404
Striped bass.....							1,500	180	1,800	216	1,800	223
Tautog.....	5,000	200	8,000	320	8,300	332	5,000	200	8,000	320	8,300	332
<b>Total.....</b>	<b>21,500</b>	<b>695</b>	<b>19,000</b>	<b>650</b>	<b>13,100</b>	<b>476</b>	<b>43,600</b>	<b>1,541</b>	<b>41,700</b>	<b>1,532</b>	<b>33,760</b>	<b>1,330</b>
<b>Miscellaneous:</b>												
Oysters.....	102,900	5,550	81,200	5,280	143,780	7,790	748,300	28,175	684,040	26,484	859,054	33,372
Clams.....	19,040	1,811	19,520	1,854	18,960	1,807	21,600	2,067	21,920	2,094	21,240	2,035
Crabs, horseshoe.....							760,000	665	740,000	647	1,049,200	918
Crabs, soft.....	108,375	5,970	86,250	4,713	115,475	6,878	108,375	5,970	86,250	4,713	115,475	6,878
Terrapins.....	9,800	1,660	10,000	1,740	9,800	1,710	14,800	2,740	11,988	2,190	11,698	2,136
Turtles.....	8,000	560	8,000	560	7,500	450	21,000	1,470	18,000	1,200	19,000	1,295
<b>Total.....</b>	<b>248,115</b>	<b>15,551</b>	<b>204,970</b>	<b>14,147</b>	<b>295,575</b>	<b>18,675</b>	<b>1,074,075</b>	<b>41,087</b>	<b>1,562,198</b>	<b>37,988</b>	<b>2,075,007</b>	<b>40,634</b>
<b>Grand total.</b>	<b>2,315,393</b>	<b>72,783</b>	<b>1,738,441</b>	<b>63,984</b>	<b>1,703,896</b>	<b>60,083</b>	<b>9,622,923</b>	<b>221,916</b>	<b>7,284,640</b>	<b>211,773</b>	<b>6,826,418</b>	<b>210,362</b>

Statistics of special industries.—The following table shows the extent of the wholesale oyster-opening trade of Seaford, located on the Nanticoke River, a tributary of Chesapeake Bay. While the business is small as compared with that in the adjoining State of Maryland, it is quite important in proportion to the general extent of the fishing industry of Delaware.

Summary of the oyster-packing industry of Delaware.

Designation.	1890.	1891.
Number of firms.....	4	4
Shore employes.....	267	251
Value of plants.....	\$19,100	\$19,100
Cash capital.....	\$20,800	\$20,800
Wages to employes.....	\$28,181	\$24,275
Oysters utilized..... bushels..	270,800	228,600
Cost.....	\$148,940	\$125,730
Opened oysters sold..... gallons..	174,444	155,000
Value.....	\$184,704	\$166,275

The business of preparing fertilizer from king crabs or horseshoe crabs is engaged in by one firm located in Kent County. Five or six men are regularly employed in making the scrap. The extent of this industry is shown for four years in the following table:

Summary of the king-crab industry of Delaware.

Items.	1889.	1890.	1891.	1892.
Number of crabs utilized.....	200,000	190,000	185,000	262,300
Cost.....	\$700	\$605	\$647	\$918
Number of tons of fertilizer made.....	100	94	97	134
Value.....	\$2,850	\$2,800	\$2,900	\$4,020

A very extensive wholesale trade in sturgeon, caviar, and shad is carried on in Newcastle County by firms who purchase the round fish directly from the fishermen and ship the products to the markets. In the case of sturgeon, the fish are dressed before shipment and caviar is prepared from their roe. The extent and principal features of this trade for four years are given in the following table. In other parts of the State the fishermen usually ship their own sturgeon and shad without the intervention of a wholesale dealer.

*Summary of the wholesale sturgeon and shad trade of Delaware.*

Items.	1889.	1890.	1891.	1892.
Number of firms.....	4	5	6	6
Value of plants.....	\$4,150	\$4,300	\$5,300	\$5,300
Cash capital.....	\$8,000	\$8,000	\$10,000	\$10,000
Number of men employed:				
White.....	12	14	16	16
Colored.....	8	8	9	9
Amount of wages paid.....	\$2,100	\$2,440	\$2,480	\$2,300
Number of sturgeon handled.....	3,900	3,740	4,035	3,362
Weight (round)..... pounds.	603,000	635,800	685,900	578,540
Value to fishermen.....	\$16,080	\$17,850	\$19,368	\$12,103
Dressed sturgeon sold..... pounds.	370,500	355,300	383,325	313,390
Value as sold.....	\$13,400	\$12,800	\$13,020	\$11,425
Caviar prepared..... pounds.	105,000	103,000	98,280	50,140
Value as sold.....	\$16,480	\$26,150	\$20,370	8,565
Number of shad handled.....	140,000	190,000	175,000	115,500
Value to fishermen.....	\$21,000	\$21,000	\$23,500	\$21,550
Value as sold.....	\$28,000	\$30,500	\$31,250	\$20,780

#### FISHERIES OF MARYLAND.

*General importance of the industry.*—In the items of persons employed, capital invested, and quantity and value of products, Maryland surpasses all the other States of this region. The fishing population also exceeds that of any other State, although the value of the catch and the investment are less than in Massachusetts.

The large extent of the fisheries of Maryland is due, in great measure, to the very favorable physical conditions. The State has been computed to have 2,170 miles of frontage on the ocean, bays, and navigable rivers. The shape of the State is such that a large part of it is brought into close relation, if not in actual contact, with waters containing commercial products, and few settlements in any of the tide-water counties are distant more than 5 or 6 miles from the water. In addition to an exceedingly tortuous coast line which increases the water area, Maryland has jurisdiction over a large part of Chesapeake Bay—the largest inland body of salt water on the coast of the United States—and has within its boundaries or on its borders several very important rivers, chief of which are the Potomac, Susquehanna, Patuxent, and Choptank. To the foregoing advantageous physical features is added an abundance of resident and migratory fish, crabs, terrapins, and the most productive oyster beds in the world.

Maryland partakes of the same advantage of proximity to excellent markets which is enjoyed by the other States of this section. The accessibility of Washington and Baltimore to steam and sail vessels, and the readiness with which the products may also be sent from the fishing-grounds by rail to these cities, as well as to the larger cities to the north and east, are important factors in the development of the fisheries.

As is well known, this State leads all others in the extent of its oyster fishery, which represents over 81 per cent of the value of the fishery products. This, however, is not the only branch in which the State is preeminent. The crab fishery, the terrapin fishery, the alewife fishery, the catfish fishery, the striped-bass fishery, the white-perch



fishery, the yellow-perch fishery, and the pike fishery are all more valuable than in any other State. The shad fishery ranks after that of New Jersey in importance, and the yield of bluefish, eels, menhaden, and squeteague is very large. This State is noteworthy for having the largest fleet of vessels engaged in the fisheries and the most extensive oyster packing and canning business.

*Summarized statistics.*—From the following series of tables it will be seen that in 1890 Maryland had a fishing population of 40,452, an invested capital of \$7,649,904, and products valued at \$6,019,165. In the next year the fishery employés numbered 39,944, the investment was \$7,466,718, and the gross receipts of the fishermen were \$6,460,759.

The number of persons engaged in vessel fisheries in 1891 was 8,342, the number of shore and boat fishermen was 19,867, and the number of shoemen was 11,735.

The fishing fleet consisted of 1,627 vessels, having a tonnage of 34,183, valued, with their outfits, at \$1,838,249. The 9,825 boats had a value of \$579,488. The apparatus of capture comprised 536 seines, with a value of \$76,780; 733 pound nets, worth \$68,655; 11,976 gill nets, valued at \$97,289; 17,902 dredges and tongs, having a value of \$198,920; and other apparatus to the value of \$53,555.

The value of the oyster output in 1891 was \$5,295,866. The shad catch was worth \$211,575, and the yield of alewives \$131,245. Crabs ranked next to oysters, being worth \$303,716. The fish of which the largest quantity was taken were menhaden, but these were much less valuable than the shad, alewives, and striped bass.

*Persons employed in the fisheries of Maryland.*

How engaged.	1890.	1891.
In vessel fisheries .....	7,121	6,592
In shore fisheries .....	19,500	19,867
On transporting vessels .....	1,268	1,450
On shore, in factories, canneries, etc .....	12,475	11,735
Total .....	40,452	39,944

*Vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Maryland.*

Designation.	1890.		1891.	
	Number.	Value.	Number.	Value.
Vessels fishing .....	1,251	\$912,302	1,225	\$876,705
Tonnage .....	22,072		21,033	
Outfit .....		328,115		331,709
Vessels transporting .....	354	530,485	402	570,150
Tonnage .....	11,805		13,150	
Outfit .....		54,208		59,685
Boats .....	9,815	575,183	9,825	579,488
Apparatus—vessel fisheries:				
Seines .....	14	6,900	15	8,450
Dredges .....	2,700	115,992	2,419	111,374
Tongs .....	439	3,887	494	4,287
Apparatus—shore fisheries:				
Seines .....	529	70,790	521	68,390
Pound nets .....	868	74,730	733	68,655
Gill nets .....	12,641	98,902	11,976	97,289
Fyke nets .....	10,485	30,400	10,358	38,924
Trammel nets .....	25	2,785	23	2,725
Weirs .....	278	3,151	272	3,123
Pots .....	5,113	4,446	4,636	4,013
Lines .....		2,069		2,272
Dredges and scrapes .....	2,088	11,952	2,068	10,509
Tongs .....	12,433	68,810	12,921	72,750
Minor apparatus .....	1,430	2,387	1,503	2,498
Shore property .....		2,467,800		2,446,327
Cash capital .....		2,269,520		2,107,455
Total .....		7,649,904		7,466,718

*Products of the fisheries of Maryland.*

Species.	1890.		1891.		Species.	1890.		1891.	
	Pounds.	Value.	Pounds.	Value.		Pounds.	Value.	Pounds.	Value.
Alewives .....	19,766,994	\$143,773	17,418,850	\$131,245	Spots and croakers ...	272,505	\$11,986	273,283	\$12,119
Butter-fish .....	30,226	738	31,955	785	Squeteague .....	687,173	24,681	750,465	25,002
Bluefish .....	460,160	21,266	516,364	22,761	Striped bass .....	1,365,928	105,759	1,264,693	97,770
Carp .....	26,920	657	27,628	780	Sturgeon ...	99,932	3,313	72,445	2,343
Catfish .....	1,927,552	46,675	1,296,752	45,502	Suckers ...	293,667	7,714	285,238	7,533
Eels .....	791,282	33,005	792,044	32,919	Other fish .....	449,463	14,899	438,683	14,561
Flounders .....	32,378	970	33,443	1,008	Crabs, hard .....	2,388,099	31,723	2,776,898	37,460
Menhaden .....	27,969,566	57,180	30,952,120	65,307	Crabs, soft .....	4,056,110	228,690	4,828,872	266,256
Mullet .....	101,300	2,901	101,540	2,974	Crawfish .....	6,250	562	7,350	695
Perch, white .....	1,150,296	58,898	1,109,273	57,038	Shrimp .....	7,556	3,720	8,044	3,960
Perch, yellow .....	1,369,551	46,981	1,385,352	48,040	Oysters .....	73,150,609	4,854,746	60,615,406	5,295,866
Pike .....	576,557	35,836	563,264	35,261	Quahogs .....	148,800	8,400	147,760	8,228
Sea bass .....	123,320	4,900	113,370	4,544	Terrapins .....	87,701	21,852	89,780	22,333
Shad .....	7,127,486	242,909	6,224,873	211,575	Turtles .....	3,980	227	4,060	231
Sheepshead .....	3,430	426	3,185	396	Total .....	143,905,576	6,019,165	141,177,827	6,460,759
Spanish mackerel .....	28,195	3,758	44,837	5,369					

A better conception of the quantities of certain products taken in this State may be obtained from the following table, in which the units of measure given correspond with those usually adopted in commerce:

Products.	Quantity.		
	1890.	1891.	
Crabs, hard .....	number ..	7,014,297	8,330,694
Crabs, soft .....	do .....	12,168,330	14,486,616
Crawfish .....	do .....	75,000	88,200
Oysters .....	bushels ..	10,450,087	9,945,658
Clams .....	do .....	18,000	18,470
Terrapins .....	number ..	43,860	44,890

*Extent of the fisheries in each county.*—The detailed statistics given in the following tables show the importance and principal phases of the fishing industry in each county in Maryland having commercial fisheries. The data relate to the years 1890 and 1891. There are 16 counties in the State bordering on important bodies of water. One of these, Worcester, abuts on the ocean; the others are on Chesapeake Bay and the rivers already mentioned. The District of Columbia will be considered as a part of Maryland and will be included in the tables for that State.

Each of 11 counties of Maryland has over 1,000 persons engaged in the fishing industry. Baltimore County, owing to its extensive vessel fishery and oyster houses, has the largest number of fishery employes; in 1890 there were 12,153 and in 1891 11,052. No other county in the United States has so large a number of persons engaged in this industry, and only three States besides Maryland, viz, Massachusetts, Virginia, and New York, have such a numerous fishing population. Somerset County has a larger number of persons engaged in actual fishing than Baltimore, and in this respect surpasses any other single county in the United States with the probable exception of Essex County, Massachusetts. Dorchester, Talbot, Anne Arundel, St. Mary, and Wicomico counties also have a relatively large fishing population.

Baltimore County has the same prominence in the amount of its fishery investment that it holds as regards the persons employed. Of the \$4,357,488 credited to that county, however, \$3,752,001 represented the shore industries, and only \$605,487 the fisheries proper. The aggregate investment in Somerset County was \$1,221,669, of which \$878,639 was directly devoted to fishing property. While Baltimore County had 387 vessels employed in the fisheries, Somerset County had 578, a much larger number than is found in any other county in the country. The other counties referred to as having the largest number of fishermen also have the largest investments.

After Somerset comes Dorchester with \$596,546, Anne Arundel with \$223,218, Talbot with \$271,899, Wicomico with \$141,126, and St. Mary with \$121,060.

More than one-third the value of the products of the fisheries of Maryland in 1891 represented the operations of the fishermen of Somerset County, whose receipts were \$2,342,419. Of this sum, \$2,099,352 is to be credited to oysters, and more than half the remainder, or \$177,269, to crabs, in both of which products this county excels all others. Next to Somerset in the value of its fisheries is Dorchester County, \$913,528 accruing to its fishermen in 1891, of which \$825,982 was from the sale of oysters.

Numerous other counties have very valuable fisheries, as will be seen from the table. Those having products valued at over \$200,000 in 1891 were Baltimore with \$637,312, Talbot with \$395,140, Anne Arundel with \$394,847, St. Mary with \$368,469, Wicomico with \$293,880, Queen Anne with \$247,529, Calvert with \$203,684, and Kent with \$200,044.

Besides oysters and crabs, which are taken in largest quantities in Somerset County, the counties ranking first in the value of other important products are as follows: Harford, alewives and shad; Somerset, menhaden; Baltimore, striped bass; Worcester, squeteague; Kent, white perch and yellow perch; Talbot, terrapin.

Statement by counties of the number of persons employed in the fisheries of Maryland.

Counties.	In vessel fisheries.		On transporting vessels.		In shore fisheries.		On shore, in factories, etc.		Total.	
	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.
Anne Arundel.....	103	215	83	78	1,832	1,021	428	410	2,536	2,624
Baltimore.....	2,390	2,015	432	552	595	608	8,736	7,877	12,153	11,052
Calvert.....	100	130	96	84	1,113	1,190	.....	.....	1,300	1,383
Caroline.....	.....	.....	.....	.....	348	328	13	13	361	341
Cecil.....	.....	.....	.....	.....	808	783	85	85	888	868
Charles.....	.....	.....	4	.....	486	488	.....	.....	490	488
Dorchester.....	1,301	1,309	180	198	2,229	2,182	799	745	4,504	4,434
Harford.....	.....	.....	.....	.....	868	906	135	215	1,003	1,121
Kent.....	29	11	73	87	840	916	10	10	852	1,024
Prince George.....	.....	.....	.....	.....	206	143	.....	.....	206	143
Queen Anne.....	12	12	44	45	846	1,025	.....	.....	902	1,082
St. Mary.....	58	85	70	74	1,888	2,007	.....	.....	2,016	2,160
Somerset.....	2,768	2,862	217	260	3,059	3,015	1,498	1,013	7,532	7,756
Talbot.....	166	158	11	11	2,327	2,335	716	632	3,220	3,136
Wicomico.....	97	88	39	46	1,336	1,285	75	135	1,547	1,554
Worcester.....	7	.....	.....	.....	654	588	.....	.....	561	593
District of Columbia.....	.....	.....	11	9	161	170	.....	.....	172	179
Total.....	7,121	6,892	1,266	1,450	19,590	19,867	12,475	11,735	40,452	39,944

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Maryland.

Designation.	Caroline.				Cecil.				Charles,			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels transporting	.....	.....	.....	.....	.....	.....	.....	.....	1	\$1,000	.....	.....
Tonnage.....	.....	.....	.....	.....	.....	.....	.....	.....	26	.....	.....	.....
Outfit.....	.....	.....	.....	.....	.....	.....	.....	.....	145	.....	.....	.....
Boats.....	208	\$3,029	197	\$2,848	346	\$11,782	317	\$11,141	280	12,570	276	\$12,040
Apparatus—shore fisheries:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seines.....	27	2,580	29	2,775	27	4,870	25	4,750	5	1,350	5	1,300
Pound nets.....	31	2,170	24	1,500	161	12,885	127	10,170	90	9,060	87	9,725
Gill nets.....	1,940	9,370	1,785	8,755	389	11,116	384	10,390	123	8,597	123	8,465
Fyko nets.....	237	2,214	239	2,374	2,836	5,732	2,023	5,626	.....	.....	.....	.....
Trammel nets.....	.....	.....	.....	.....	8	1,000	8	1,000	.....	.....	.....	.....
Weirs.....	23	345	25	375	31	205	30	200	.....	.....	.....	.....
Lines.....	.....	37	.....	35	.....	20	.....	22	.....	38	.....	35
Tongs.....	.....	.....	.....	.....	.....	.....	.....	.....	188	996	192	1,020
Minor apparatus.....	.....	.....	.....	.....	.....	30	.....	32	.....	13	.....	11
Shore property.....	.....	6,900	.....	7,000	.....	18,700	.....	18,000	.....	5,500	.....	5,465
Cash capital.....	.....	4,500	.....	4,500	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	.....	31,145	.....	30,222	.....	66,340	.....	61,331	.....	40,159	.....	38,061

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Maryland—Continued.

Designation.	Anne Arundel.				Baltimore.				Calvert.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	55	\$28,840	66	\$35,405	279	\$278,813	235	\$228,645	21	\$20,050	28	\$28,150
Tonnage.....	450		562		8,937		7,591		345		487	
Outfit.....		6,135		6,755		105,944		86,352		3,815		3,785
Vessels transporting....	31	32,785	28	27,050	123	201,875	152	219,675	25	51,650	22	40,175
Tonnage.....	536		492		4,801		5,742		933		894	
Outfit.....		2,555		2,233		14,014		16,890		3,870		3,465
Boats.....	844	49,850	874	52,800	245	9,551	255	9,750	547	27,033	586	27,000
Apparatus—vessel fish-eries:												
Seines.....					9	3,500	5	2,150				
Dredges and scrapes...	20	750	14	550	556	25,020	470	21,150	26	1,040	38	1,235
Tongs.....	130	1,300	175	1,750					20	200	25	250
Apparatus—shore fish-eries:												
Seines.....	23	1,495	24	1,560	69	11,970	72	12,505	15	1,050	16	1,120
Pound nets.....	45	4,950	44	4,840	13	1,240	15	1,420	16	2,400	18	2,700
Gill nets.....	76	266	72	252	28	273	33	303	152	532	158	553
Fyke nets.....	20	360	22	396	1,666	5,979	1,781	6,113				
Weirs.....					20	160	21	165				
Pots.....	320	320	343	343	155	122	167	134				
Lines.....		430		440		30		32		50		50
Dredges and scrapes...	129	645	126	630					43	1,290	7	210
Tongs.....	1,697	10,182	1,782	10,692					931	9,310	1,052	10,520
Minor apparatus.....		86		88		185		194		6		7
Shore property.....		38,347		36,844		2,064,426		2,033,001		689		736
Cash capital.....		40,500		40,500		1,890,000		1,719,000				
Total.....		219,796		222,218		4,622,702		4,357,488		123,585		128,962

  

Designation.	Dorchester.				Harford.				Kent.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	298	\$150,388	299	\$151,150					3	\$2,600	2	\$1,075
Tonnage.....	3,069		3,109						95		31	
Outfit.....		61,387		64,762						1,050		352
Vessels transporting....	42	92,125	45	98,100					32	15,350	40	20,350
Tonnage.....	1,819		1,982						471		637	
Outfit.....		10,175		10,735						3,714		3,873
Boats.....	1,376	72,779	1,312	70,517	218	\$8,705	230	\$9,295	682	26,269	624	27,859
Apparatus—vessel fish-eries:												
Seines.....			2	1,100								
Dredges and scrapes...	610	27,218	612	26,671					6	395	2	125
Tongs.....	72	589	108	823							2	12
Apparatus—shore fish-eries:												
Seines.....	51	4,335	46	4,140	15	15,320	16	14,200	23	2,310	22	2,170
Pound nets.....	127	8,255	108	5,400					51	3,770	55	3,940
Gill nets.....	2,750	11,410	2,425	9,740	217	6,536	296	8,860	338	4,740	336	4,590
Fyke nets.....	1,700	7,994	1,470	6,053	1,230	4,325	1,140	4,010	214	3,908	211	3,856
Trammel nets.....					17	1,785	15	1,725				
Weirs.....	87	1,310	85	1,285					4	50	4	47
Pots.....	1,440	1,296	1,125	1,013	430	473	415	456	68	82	90	110
Lines.....		245		307		55		53		38		39
Dredges and scrapes...	360	1,935	365	1,950								
Tongs.....	1,425	7,125	1,335	6,075					687	3,495	797	4,305
Minor apparatus.....		675		675						48		48
Shore property.....		56,965		57,450		28,824		28,532		10,396		10,440
Cash capital.....		78,350		77,400						4,800		4,800
Total.....		594,556		596,546		66,023		67,131		83,015		87,991

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Maryland—Continued.

Designation.	Prince George.				Queen Anne.				St. Mary.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....					1	\$1,000	1	\$1,000	11	\$5,925	19	\$13,225
Tonnage .....					23		23		128		229	
Outfit .....						575		550		1,685		2,490
Vessels transporting .....					17	10,850	18	14,400	19	26,000	21	23,650
Tonnage .....					280		329		532		530	
Outfit .....						2,182		2,336		2,543		2,742
Boats .....	81	\$2,065	76	\$1,640	504	26,348	594	31,844	931	48,379	1,001	51,024
Apparatus—vessel fish-eries:												
Seines .....					1	600	1	600				
Dredges and scrapes .....									22	933	32	1,355
Tongs .....											3	20
Apparatus—shore fish-eries:												
Seines .....	18	3,000	17	1,360	26	3,620	24	3,495	19	1,455	18	1,980
Pound nets .....	7	700	6	600	11	960	9	710	56	9,950	50	10,450
Gill nets .....	114	479	110	470	373	1,985	335	1,795	137	499	144	556
Fykenets .....					52	863	74	1,435				
Weirs .....					9	45	9	45				
Pots .....					158	155	100	157	180	90	210	105
Lines .....		76		82		32		74		40		40
Dredges and scrapes .....									54	1,585	37	1,025
Tongs .....					827	4,135	1,018	5,065	1,305	9,090	1,401	10,990
Minor apparatus .....		90		90		43		70		90		90
Shore property .....		515		475		3,471		3,829		1,589		1,618
Cash capital .....						1,300		1,300				
Total .....		6,925		4,717		58,104		68,705		109,863		121,000

  

Designation.	Somerset.				Talbot.				Wicomico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	522	\$387,076	518	\$383,805	43	\$19,000	41	\$18,875	15	\$15,425	13	\$14,225
Tonnage .....	8,280		8,332		374		377		343		305	
Outfit .....		133,780		153,453		8,360		8,310		5,299		4,815
Vessels transporting .....	49	80,890	60	91,150	3	5,200	3	5,200	8	16,700	10	19,500
Tonnage .....	1,823		2,005		101		101		332		384	
Outfit .....		11,250		13,822		600		590		2,035		2,495
Boats .....	1,482	150,125	1,457	149,400	1,098	74,440	1,115	72,685	535	37,140	513	35,573
Apparatus—vessel fish-eries:												
Seines .....	4	2,800	7	4,000								
Dredges and scrapes .....	1,281	54,986	1,134	54,866	88	3,760	83	3,680	41	1,890	34	1,742
Tongs .....	208	1,713	172	1,344	2	15	2	18				
Apparatus—shore fish-eries:												
Seines .....	13	1,100	11	950	41	6,355	47	7,755	33	3,270	28	2,765
Pound nets .....	38	2,850	21	1,365	86	8,000	78	8,580	63	4,725	59	4,720
Gill nets .....	1,885	9,425	1,625	8,125	2,136	20,560	2,286	22,272	1,010	6,255	900	5,500
Fyke nets .....	1,172	2,480	1,179	2,595	607	2,614	570	2,888	726	2,791	708	2,867
Weirs .....	28	356	28	350	27	248	19	216	36	380	30	380
Pots .....	1,075	967	940	846	325	293	310	287	362	348	296	272
Lines .....		225		231		348		433		371		367
Dredges and scrapes .....	987	3,437	901	3,449	325	1,910	332	1,985	190	1,140	210	1,260
Tongs .....	2,247	7,932	2,249	7,938	1,875	9,375	1,890	9,450	975	5,850	945	5,670
Minor apparatus .....		260		290		513		515		335		375
Shore property .....		148,257		151,780		57,880		61,855		13,100		18,600
Cash capital .....		176,350		191,250		48,220		46,305		18,500		20,000
Total .....		1,176,769		1,221,669		209,191		271,899		130,554		141,126

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Maryland—Continued.

Designation.	Worcester.				District of Columbia.				Total.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	3	\$1,175	3	\$1,150					1,251	\$912,392	1,225	\$876,705
Tonnage .....	21		26						22,074		21,072	
Outfit .....		85		85						328,315		331,709
Vessels transporting .....					4	\$2,150	3	\$1,900	354	530,465	402	570,150
Tonnage .....					61		55		11,805		13,161	
Outfit .....						525		495		54,208		59,685
Boats .....	367	12,083	322	10,301	71	2,435	76	2,715	9,815	575,183	9,825	579,488
Apparatus—vessel fisheries:												
Seines .....									14	6,900	15	8,450
Dredges and scrapes .....									2,700	115,992	2,419	111,374
Tongs .....	7	70	7	70					439	3,887	494	4,287
Apparatus—shore fisheries:												
Seines .....	116	4,535	115	4,430	8	2,175	6	1,675	529	70,790	521	68,330
Pound nets .....					13	1,325	23	2,475	808	74,730	733	68,655
Gill nets .....	928	4,384	921	4,288	45	2,475	43	2,375	12,041	98,002	11,976	97,289
Fyke nets .....	25	80	32	111					10,485	39,400	10,358	38,024
Trammel nets .....									25	2,785	23	2,725
Weirs .....	13	52	15	60					278	3,151	272	3,123
Pots .....	600	300	580	290					5,113	4,440	4,630	4,013
Lines .....		34		32						2,069		2,272
Dredges and scrapes .....									2,088	11,952	2,068	10,500
Tongs .....	276	1,380	205	1,025					12,433	68,810	12,921	72,750
Minor apparatus .....		13		13						2,387		2,498
Shore property .....		11,596		10,067		645		635		2,467,800		2,446,327
Cash capital .....		3,000		2,400						2,269,520		2,107,455
Total .....		39,387		34,322		11,730		12,270		7,640,904		7,466,718

Statement by counties and species of the yield of the fisheries of Maryland.

Species.	Somerset.				Talbot.				Wicomico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewires .....	377,000	\$1,883	331,500	\$1,056	715,680	\$4,208	635,564	\$3,832	1,788,300	\$8,741	1,675,360	\$8,179
Bluefish .....	30,200	1,026	37,200	1,192	59,600	2,980	53,400	2,658	34,600	1,712	31,950	1,577
Catfish .....	35,200	1,543	34,420	1,489	96,900	2,521	106,000	2,796	214,090	8,158	198,763	7,544
Eels .....	70,010	2,780	62,010	2,458	48,960	1,732	44,775	1,631	84,070	3,318	111,220	4,458
Menhaden .....	12,544,000	25,950	15,481,100	30,578	98,200	230	91,100	200				
Mullet .....	16,300	328	15,900	324								
Perch, white .....	33,150	1,326	30,930	1,237	64,850	2,519	63,305	2,463	80,965	4,305	74,885	3,936
Perch, yellow .....	33,500	1,095	32,940	1,039	106,810	3,039	103,964	2,983	62,076	2,177	65,645	2,295
Pike .....	11,400	684	5,840	351	7,892	463	11,664	690	15,850	954	14,370	865
Sea bass .....	1,320	40	1,280	38								
Shad .....	273,434	9,366	267,975	8,995	917,791	31,467	656,166	22,497	715,874	24,924	621,744	21,517
Sheepshead .....	1,150	130	1,020	115								
Spots and croakers .....	67,450	2,720	67,830	2,760	32,875	1,305	23,600	944	19,900	955	27,188	1,355
Squeteague .....	114,500	4,232	111,560	4,037	39,055	1,602	29,940	1,440	14,160	638	14,350	642
Striped bass .....	58,210	3,053	60,900	3,193	123,550	7,571	119,966	6,637	94,964	7,092	86,500	6,413
Sturgeon .....	2,680	130	2,700	80	16,400	820	9,400	478	18,192	733	11,785	407
Suckers .....	6,900	242	5,000	202	43,130	1,179	49,550	1,364	45,600	1,094	43,560	1,053
Other fish .....	26,600	1,064	26,660	1,064	39,050	1,633	36,989	1,636	47,765	1,640	49,134	1,692
Oysters .....	27,227,564	1,755,730	29,660,974	2,089,352	4,695,355	301,855	4,571,000	320,492	3,140,795	201,908	2,769,830	198,706
Clams (quahogs) .....	38,400	2,880	21,520	1,614								
Crabs, hard .....	482,334	7,250	558,334	8,375	226,134	3,377	291,833	4,377	72,133	1,082	108,433	1,620
Crabs, soft .....	2,498,536	149,913	2,814,885	168,894	166,733	5,002	208,433	6,253	306,734	10,503	648,507	29,185
Terrapins .....	12,500	2,500	16,200	3,240	17,500	5,250	19,200	5,700	6,800	1,980	7,800	2,340
Turtle .....	2,300	127	2,470	136								
Total .....	43,966,238	1,975,909	49,651,128	2,542,419	7,515,465	379,053	7,116,849	395,140	8,822,868	287,914	6,561,084	293,880

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties and species of the yield of the fisheries of Maryland—Continued.

Species.	Anne Arundel.				Baltimore.				Calvert.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	571,800	\$4,548	545,900	\$4,485	375,350	\$2,389	392,400	\$2,550	460,000	\$3,680	322,800	\$2,820
Bluefish .....	51,200	2,560	72,500	3,425	9,920	496	10,100	505	50,400	2,466	64,200	2,924
Catfish .....	9,170	292	9,050	284	128,950	5,708	135,970	6,015	42,857	1,500	40,570	1,420
Eels .....	32,160	1,286	33,840	1,334	52,850	2,211	59,945	2,495	.....	.....	.....	.....
Menhaden .....	25,000	90	23,000	80	3,210,000	17,087	7,576,000	17,783	766,500	1,755	727,500	1,675
Perch, white .....	27,260	1,470	20,990	1,402	148,173	8,099	151,253	8,290	34,650	1,874	35,780	1,799
Perch, yellow .....	95,010	1,345	37,160	1,410	220,480	6,959	244,400	7,424	27,465	973	31,170	1,112
Pike .....	5,940	421	6,056	428	138,534	8,693	142,945	8,974	.....	.....	.....	.....
Shad .....	110,025	5,967	122,500	6,344	78,106	3,311	80,164	3,406	48,517	1,855	57,403	2,096
Spanish mackerel .....	.....	.....	.....	.....	.....	.....	.....	.....	9,500	1,330	16,200	1,944
Spots and croakers .....	27,580	1,655	28,470	1,701	12,050	365	11,600	351	5,000	250	6,000	300
Squeteague .....	1,000	50	1,600	80	6,910	346	5,650	283	9,000	450	10,700	535
Striped bass .....	53,520	5,171	54,930	5,328	189,152	14,499	192,210	14,738	20,460	2,837	29,927	2,602
Suckers .....	.....	.....	.....	.....	5,200	130	6,000	150	.....	.....	.....	.....
Other fish .....	32,285	972	32,400	982	39,660	1,042	40,640	1,070	27,175	810	30,010	920
Oysters .....	6,420,659	379,506	4,307,835	337,830	7,536,172	590,031	5,369,322	554,231	2,530,640	168,353	2,248,960	182,977
Crabs, hard .....	955,333	11,264	897,393	10,768	30,000	450	31,200	498	8,265	97	9,165	110
Crabs, soft .....	180,533	19,020	177,000	18,000	38,000	4,275	40,360	4,641	2,840	342	3,200	360
Shrimp .....	.....	.....	.....	.....	7,556	3,720	8,044	3,960	.....	.....	.....	.....
Total .....	8,553,475	496,217	6,377,104	394,847	18,233,063	670,411	14,498,203	637,312	4,052,260	188,572	3,634,245	203,684

  

Species.	Caroline.				Cecll.				Charles.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	408,680	\$4,241	384,100	\$3,289	5,104,750	\$24,156	4,021,870	\$20,115	1,692,413	\$11,096	993,645	\$10,025
Bluefish .....	.....	.....	.....	.....	.....	.....	.....	.....	1,125	75	1,280	76
Catfish .....	66,803	2,493	61,485	2,280	152,240	5,644	143,210	5,334	25,900	785	28,325	883
Eels .....	20,150	806	19,835	793	107,615	4,864	100,561	4,642	5,750	212	6,790	248
Perch, white .....	29,100	1,473	25,520	1,303	118,685	6,105	110,320	5,730	26,000	1,379	25,093	1,273
Perch, yellow .....	63,835	2,415	50,295	1,878	306,090	8,849	283,890	8,192	16,203	689	16,750	742
Pike .....	17,767	1,068	17,645	1,060	148,514	9,473	135,121	8,622	.....	.....	.....	.....
Shad .....	520,136	17,818	419,302	14,419	1,194,753	37,863	1,042,209	33,098	696,379	19,362	625,440	15,920
Spots and croakers .....	.....	.....	.....	.....	700	35	540	27	1,500	75	1,475	73
Squeteague .....	.....	.....	.....	.....	.....	.....	.....	.....	2,355	150	2,360	148
Striped bass .....	34,669	2,381	37,133	2,546	77,480	5,423	65,650	4,635	124,792	8,997	112,666	7,829
Sturgeon .....	.....	.....	.....	.....	.....	.....	.....	.....	60,000	1,500	45,600	1,140
Suckers .....	18,780	538	24,100	695	60,560	1,603	52,080	1,339	4,750	155	2,760	100
Other fish .....	26,855	790	28,600	839	50,370	1,511	45,445	1,361	8,210	300	7,103	213
Oysters .....	.....	.....	.....	.....	.....	.....	.....	.....	485,520	28,410	381,626	27,849
Crabs, hard .....	.....	.....	.....	.....	.....	.....	.....	.....	86,500	675	96,800	726
Terrapins .....	.....	.....	.....	.....	.....	.....	.....	.....	600	334	630	357
Total .....	1,296,775	34,021	1,068,015	29,102	7,321,757	105,586	6,000,896	93,095	2,630,594	74,220	2,348,343	67,002

  

Species.	Dorchester.				Harford.				Kent.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	703,265	\$3,922	712,220	\$3,669	4,809,700	\$49,904	4,039,500	\$43,004	622,100	\$4,042	670,525	\$4,955
Bluefish .....	21,210	851	20,700	918	.....	.....	.....	.....	44,900	1,715	42,987	1,696
Catfish .....	100,738	3,339	99,696	3,361	105,616	3,756	94,744	3,479	179,792	5,859	163,095	5,434
Eels .....	65,700	2,931	62,740	2,510	97,500	3,953	99,270	4,018	40,830	1,324	39,350	1,172
Menhaden .....	173,600	626	4,898,820	10,443	.....	.....	.....	.....	.....	.....	.....	.....
Perch, white .....	59,325	2,970	52,150	2,596	96,666	5,060	82,204	4,327	159,000	9,352	173,444	10,658
Perch, yellow .....	85,808	2,798	76,125	2,611	97,286	3,405	102,733	3,790	176,363	8,235	181,664	8,245
Pike .....	28,790	1,570	27,485	1,519	57,785	4,045	52,786	3,754	71,100	5,081	70,010	5,277
Shad .....	446,548	15,336	445,865	15,300	1,143,394	42,352	950,431	35,320	360,024	12,843	320,873	11,548
Spanish mackerel .....	.....	.....	.....	.....	.....	.....	.....	.....	10,095	1,320	8,387	1,120
Spots and croakers .....	36,300	1,798	33,800	1,672	.....	.....	.....	.....	7,400	360	6,500	317
Squeteague .....	20,548	754	18,935	687	.....	.....	.....	.....	8,280	164	3,110	155
Striped bass .....	58,125	4,322	57,485	4,265	73,370	6,505	61,577	5,473	65,275	4,869	54,775	4,170
Sturgeon .....	2,660	190	2,060	148	.....	.....	.....	.....	.....	.....	.....	.....
Suckers .....	44,204	1,094	43,038	1,090	47,927	1,255	47,755	1,100	9,090	233	8,950	228
Other fish .....	51,690	1,423	50,831	1,478	35,445	1,064	33,884	1,024	30,005	1,160	30,330	1,081
Oysters .....	11,060,987	711,180	11,563,622	825,082	.....	.....	.....	.....	1,670,984	121,738	1,675,100	143,538
Crabs, hard .....	290,100	4,361	483,400	7,350	.....	.....	.....	.....	43,300	622	27,500	450
Crabs, soft .....	633,500	10,005	700,107	22,805	.....	.....	.....	.....	.....	.....	.....	.....
Terrapins .....	18,300	5,490	17,400	5,220	.....	.....	.....	.....	.....	.....	.....	.....
Total .....	13,901,398	783,899	13,426,394	913,528	6,564,698	121,299	5,564,884	105,289	3,494,378	178,917	3,482,600	200,044

## Statement by counties and species of the yield of the fisheries of Maryland—Continued.

Species.	Prince George.				Queen Anne.				St. Mary.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	320,146	\$2,831	265,581	\$2,515	245,610	\$2,559	208,200	\$2,148	1,105,000	\$7,587	1,306,300	\$9,766
Bluefish					27,330	1,340	25,445	1,242	106,675	5,255	136,542	5,953
Catfish	86,270	3,135	83,340	2,878	62,700	1,886	62,602	1,880	28,000	670	39,208	912
Eels					45,450	1,880	34,230	1,668	6,300	253	8,520	341
Menhaden					4,200,000	8,750	1,200,000	2,500	741,656	1,552	749,500	1,561
Perch, white	9,417	565	11,610	568	106,600	5,958	88,061	4,770	39,889	2,149	43,883	2,426
Perch, yellow	5,725	229	5,200	210	100,070	3,960	123,244	5,075	15,588	547	19,372	687
Pike					18,960	1,403	20,357	1,357				
Shad	92,533	2,851	54,391	1,975	50,610	2,346	61,429	2,823	202,100	6,597	230,200	8,555
Sheepshead									2,280	296	2,165	281
Spanish mackerel									8,600	1,108	20,250	2,305
Spots and croakers					6,050	237	5,220	208	45,200	1,797	50,450	1,977
Squeteague					2,700	147	3,700	208	233,065	7,368	240,410	7,614
Striped bass	5,610	515	6,131	565	156,210	14,717	114,290	11,198	107,070	8,082	105,788	8,115
Suckers					866	13	1,330	20				
Other fish	17,940	486	15,230	395	26,550	601	20,435	537	45,752	1,618	48,908	1,088
Oysters					2,850,150	165,168	2,571,625	204,374	4,189,598	265,826	3,689,511	301,465
Crabs, hard					90,500	1,280	169,000	2,070	63,500	675	68,900	715
Crabs, soft					9,834	590	18,500	1,110	150,400	13,440	157,760	14,108
Crawfish	6,250	562	7,350	695								
Terrapins					29,401	4,408	26,590	3,986				
Turtle					1,680	100	1,590	95				
Total	543,891	11,174	448,833	9,801	8,040,271	217,433	4,755,848	247,529	7,091,273	324,820	6,917,667	368,469

  

Species.	Worcester.				District of Columbia.				Total for State.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives	442,800	\$3,871	441,900	\$3,802	474,400	\$4,135	465,485	\$4,435	19,766,994	\$143,793	17,418,850	\$131,245
Bluefish	23,000	690	20,000	600					400,100	21,166	510,364	22,761
Catfish	19,913	751	21,374	805	7,150	214	11,050	341	1,327,562	46,675	1,299,752	45,502
Eels	79,200	3,876	72,808	3,518					791,282	33,005	792,044	32,910
Menhaden	210,000	540	205,000	472					27,969,556	57,180	30,652,120	65,307
Mullet	85,000	2,575	85,640	2,650					101,300	2,901	101,540	2,974
Perch, white	110,831	3,959	109,595	3,959	5,135	275	4,250	241	1,150,296	58,898	1,109,273	57,038
Perch, yellow	7,820	216	7,680	216	3,425	140	3,120	131	1,369,551	46,981	1,385,352	48,040
Pike	54,025	1,983	58,985	2,164					576,557	35,836	563,264	35,261
Sea bass	122,000	4,860	112,110	4,506					123,320	4,900	113,370	4,544
Shad	51,800	2,371	49,521	2,383	229,462	6,260	213,200	5,370	7,127,486	242,900	6,224,873	211,575
Sheepshead									3,430	426	3,185	396
Spanish mackerel									28,195	3,758	44,837	5,369
Spots and croakers	10,500	425	10,610	434					272,505	11,986	273,283	12,119
Squeteague	240,000	8,450	308,750	10,013					687,173	24,651	750,465	25,902
Striped bass	205,112	9,050	108,375	9,510	7,350	675	5,390	485	1,365,928	105,759	1,264,693	97,770
Sturgeon									99,932	3,313	72,445	2,343
Suckers	5,720	143	5,520	138	1,000	35	1,600	54	293,667	7,714	285,238	7,533
Other fish	28,285	905	31,040	995	7,050	279	3,470	159	541,587	17,394	531,709	17,134
Oysters	1,333,185	165,032	806,061	93,070					73,150,609	4,854,746	69,615,406	5,295,866
Clams (quahogs)	110,400	5,520	126,240	6,612					148,800	8,400	147,760	8,226
Crabs, hard	40,000	600	35,000	525					2,388,099	31,723	2,776,898	37,460
Crabs, soft									4,056,110	228,690	4,828,472	266,256
Crawfish									6,250	562	7,350	695
Shrimp									7,556	3,720	8,044	3,961
Terrapins	2,600	1,899	1,960	1,430					87,701	21,852	89,780	22,331
Turtles									3,980	227	4,060	231
Total	3,082,191	217,707	2,618,109	147,802	734,972	12,013	707,565	11,216	143,905,576	6,019,165	141,177,827	6,400,759



*The products taken by each apparatus.*—In the vessel fisheries of Maryland the only products obtained are oysters and menhaden. The yield of these in each county in 1890 and 1891 is shown in the following table. The use of vessels in the oyster fishery is observed in 10 counties, and menhaden are thus taken in 4 counties. The results of the vessel fisheries in 1891 were 4,814,114 bushels of oysters, valued at \$2,615,840, and 28,816,000 pounds of menhaden, worth \$60,533.

The results of the shore and boat fisheries with reference to the apparatus used are given in great detail for each county in the second table. In 1891 this branch yielded \$3,784,386, of which oysters represented \$2,680,026. The most important apparatus used in the capture of fish proper were seines, which took 14,312,398 pounds, valued at \$265,443; alewives, shad, and striped bass constitute the principal part of the catch. Seines are most prominent in Harford, Baltimore, Worcester, and Cecil counties. Gill nets rank next to seines in the value of the output, although in the quantity of products taken pound nets are second. The gill-net catch was 8,447,291 pounds, valued at \$211,291; more than half this amount represented shad. This form of apparatus is especially important in Cecil, Harford, Kent, and Talbot counties. The pound-net catch in 1891 was 8,458,299, worth \$153,471. The fish thus taken having the greatest value are alewives, shad, and striped bass. St. Mary and Cecil counties excel all others in the value of their pound-net fishery. Of other prominent kinds of apparatus, fyke nets are credited with a catch of 1,546,864 pounds, valued at \$60,549; lines, 970,135 pounds, valued at \$35,271; pots, 389,740 pounds, valued at \$16,030; weirs, 416,891 pounds, valued at \$11,952, and trammel nets, 123,996 pounds, valued at \$5,797. Under the head of miscellaneous apparatus are included all products except fish, although some of these, crabs and terrapins, for instance, are taken with appliances that are also employed in the capture of fish.

*Statement by counties and species of the yield of the vessel fisheries of Maryland.*

Counties.	Menhaden.				Oysters.				Total value.	
	1890.		1891.		1890.		1891.		1890.	1891.
	Pounds.	Value.	Pounds.	Value.	Bushels.	Value.	Bushels.	Value.		
Anne Arundel.....					125,612	\$63,356	118,605	\$67,000	\$63,356	\$67,000
Baltimore.....	9,210,000	\$17,687	7,576,000	\$17,783	1,076,506	590,031	767,046	554,231	607,718	572,014
Calvert.....					61,060	36,348	65,270	40,465	36,348	40,465
Dorchester.....			4,740,000	9,875	1,084,201	488,057	1,141,246	570,732	488,057	580,607
Kent.....					10,737	7,281	2,800	2,150	7,281	2,150
Queen Anne.....	4,200,000	8,750	1,200,000	2,500					8,750	2,500
Somerset.....	12,347,600	23,724	15,300,000	30,375	2,252,091	1,018,824	2,463,227	1,247,804	1,044,548	1,278,179
St. Mary.....					27,250	13,210	34,770	20,400	13,210	20,400
Talbot.....					145,465	65,470	142,500	71,242	65,470	71,242
Wicomico.....					86,285	38,828	75,590	38,656	38,828	38,656
Worcester.....					5,400	2,950	5,060	3,160	2,950	3,160
Total.....	25,757,600	52,161	28,816,000	60,533	4,874,787	2,324,355	4,814,114	2,615,840	2,376,516	2,676,873

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland.

Apparatus and species.	Anne Arundel.				Baltimore.				Calvert.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	45,000	\$340	58,000	\$385	243,600	\$1,580	258,350	\$1,722'	156,000	\$1,300	141,200	\$1,250
Bluefish .....	10,000	500	14,500	725	9,200	400	9,500	475				
Catfish .....	1,250	42	1,500	50	33,550	3,722	87,100	3,884				
Eels .....					12,630	505	13,000	520				
Menhaden .....									364,000	950	340,000	900
Perch, white .....	9,500	570	9,850	591	98,375	5,400	101,500	5,579	19,500	1,090	19,000	1,005
Perch, yellow .....	16,000	640	17,000	680	113,925	3,879	117,300	3,972	13,140	460	14,710	515
Pike .....	3,585	256	3,720	265	82,648	5,320	86,010	5,543				
Shad .....	12,775	657	14,700	800	63,000	2,700	65,338	2,800	11,900	610	14,700	630
Spots and croakers .....	9,000	540	9,300	580	12,050	365	11,000	351				
Squeteague .....	1,000	50	1,600	80	6,910	346	5,650	283				
Striped bass .....	32,160	3,216	34,630	3,463	174,407	13,270	177,370	13,486	4,280	430	4,867	485
Suckers .....					5,206	130	6,000	150				
Other fish .....	6,735	202	7,500	225	26,800	670	29,000	726	8,210	240	11,660	850
<b>Total .....</b>	<b>147,005</b>	<b>7,013</b>	<b>172,800</b>	<b>7,844</b>	<b>932,295</b>	<b>38,347</b>	<b>967,716</b>	<b>39,491</b>	<b>577,030</b>	<b>5,080</b>	<b>546,197</b>	<b>5,185</b>
<b>Pound nets:</b>												
Alewives .....	480,000	3,820	440,000	3,700	91,750	529	92,250	538	280,000	2,000	144,000	1,080
Bluefish .....	22,000	1,100	36,000	1,600	720	36	600	30	5,400	210	7,200	324
Catfish .....	1,125	45	1,060	40	5,100	162	5,670	180				
Eels .....					3,875	153	4,100	164				
Menhaden .....	25,000	90	23,000	86					287,500	575	270,000	540
Perch, white .....	13,000	695	13,420	686	2,966	178	2,800	168	3,550	219	7,200	324
Perch, yellow .....	3,880	155	3,985	159	14,260	403	16,310	442	2,325	93	5,300	212
Pike .....					5,409	332	6,440	389				
Shad .....	103,250	5,310	107,800	5,544	2,604	111	2,261	98	32,000	1,090	37,800	1,290
Span'h mack'l .....									9,500	1,330	16,200	1,944
Spots and croakers .....	18,580	1,115	18,670	1,121					5,000	250	6,000	300
Squeteague .....									9,000	450	10,700	535
Striped bass .....	12,000	1,080	11,500	1,035	6,625	585	6,640	582	14,680	1,462	10,900	1,082
Other fish .....	13,660	410	13,700	414	1,960	47	1,050	25	9,130	275	8,000	260
<b>Total .....</b>	<b>693,095</b>	<b>13,820</b>	<b>669,735</b>	<b>14,385</b>	<b>135,269</b>	<b>2,538</b>	<b>138,121</b>	<b>2,616</b>	<b>658,145</b>	<b>7,960</b>	<b>523,900</b>	<b>7,897</b>
<b>Gill nets:</b>												
Alewives .....	34,800	340	35,400	350	40,000	280	41,800	290	24,000	380	37,000	490
Bluefish .....	19,200	960	22,000	1,100					45,000	2,250	57,000	2,600
Catfish .....	2,800	85	2,620	78								
Menhaden .....									115,000	230	117,500	235
Perch, white .....	4,160	205	3,720	185	3,056	163	4,210	229	11,600	505	9,520	470
Perch, yellow .....	12,300	465	12,850	471	8,320	273	8,980	291	12,000	420	11,160	385
Pike .....	2,145	150	2,050	143	15,227	925	13,750	958				
Shad .....					12,502	500	12,565	508	4,557	155	4,963	170
Striped bass .....	5,860	525	5,000	450	3,750	300	3,860	308	10,500	945	14,160	1,125
Other fish .....	8,630	265	8,300	259	900	25	740	20	9,835	295	10,350	310
<b>Total .....</b>	<b>89,955</b>	<b>2,995</b>	<b>91,940</b>	<b>3,036</b>	<b>83,755</b>	<b>2,466</b>	<b>87,905</b>	<b>2,604</b>	<b>232,492</b>	<b>5,240</b>	<b>262,253</b>	<b>5,785</b>
<b>Fyke nets:</b>												
Alewives .....	12,000	48	12,500	50								
Catfish .....	3,935	120	3,870	116	33,400	1,560	35,860	1,669				
Eels .....					7,200	380	9,040	452				
Perch, white .....					38,956	2,117	37,243	2,039				
Perch, yellow .....	2,830	85	3,325	100	47,125	1,329	58,350	1,627				
Pike .....	210	15	286	20	28,650	1,708	27,875	1,657				
Striped bass .....	3,500	350	3,800	380	1,440	124	1,520	128				
Other fish .....	3,260	95	2,900	84	8,760	269	8,500	205				
<b>Total .....</b>	<b>25,795</b>	<b>713</b>	<b>26,681</b>	<b>750</b>	<b>165,531</b>	<b>7,485</b>	<b>178,388</b>	<b>7,837</b>				
<b>Weirs:</b>												
Catfish .....					5,300	200	5,620	212				
Perch, white .....					4,820	241	5,500	275				
Perch, yellow .....					42,600	1,065	43,100	1,078				
Pike .....					6,060	410	6,870	427				
Striped bass .....					2,930	220	2,820	212				
Other fish .....					1,240	81	1,350	84				
<b>Total .....</b>					<b>63,490</b>	<b>2,167</b>	<b>65,200</b>	<b>2,238</b>				
<b>Lines:</b>												
Catfish .....					1,600	64	1,720	70	42,857	1,500	40,570	1,420
Eels .....					520	26	680	34				
Perch, yellow .....					250	10	360	14				
<b>Total .....</b>					<b>2,370</b>	<b>100</b>	<b>2,760</b>	<b>118</b>	<b>42,857</b>	<b>1,500</b>	<b>40,570</b>	<b>1,420</b>
<b>Pots:</b>												
Eels .....	32,160	1,286	33,840	1,334	28,625	1,145	33,125	1,325				
<b>Miscellaneous:</b>												
Oysters .....	5,541,375	316,150	3,477,600	270,830					2,103,220	132,005	1,806,070	142,512
Crabs, hard .....	955,333	11,264	897,333	10,768	30,000	450	31,200	468	8,265	97	9,105	110
Crabs, soft .....	189,533	19,020	177,000	18,900	38,000	4,275	40,300	4,641	2,840	842	3,200	360
Shrimp .....					7,556	3,720	8,044	3,960				
<b>Total .....</b>	<b>6,686,241</b>	<b>347,034</b>	<b>4,551,933</b>	<b>300,498</b>	<b>75,550</b>	<b>8,445</b>	<b>79,604</b>	<b>9,069</b>	<b>2,114,325</b>	<b>132,444</b>	<b>1,818,435</b>	<b>142,982</b>
<b>Grand total .....</b>	<b>7,674,191</b>	<b>372,861</b>	<b>5,546,929</b>	<b>327,847</b>	<b>1,486,891</b>	<b>62,603</b>	<b>1,552,881</b>	<b>65,298</b>	<b>3,624,849</b>	<b>152,224</b>	<b>3,191,355</b>	<b>163,219</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Caroline.				Cecil.				Charles.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	240,600	\$1,805	185,200	\$1,389	2,780,500	\$13,902	2,650,500	\$13,252	416,600	\$3,125	395,000	\$3,060
Bluefish .....									1,125	75	1,280	76
Catfish .....	17,500	613	16,430	575	7,770	350	6,880	310	9,200	305	9,900	306
Eels .....	9,400	376	9,010	360	885	40	711	32				
Perch, white .....	11,500	565	6,300	325	3,500	175	3,200	100	1,000	55	1,250	58
Perch, yellow .....	21,600	875	18,500	740	68,400	1,710	67,200	1,680	3,600	165	3,850	179
Pike .....	10,200	612	10,920	654	10,571	740	10,060	705				
Shad .....	170,975	5,845	105,088	3,642	300,628	9,637	284,200	8,922	70,000	2,200	57,084	1,712
Spots and croakers .....					700	35	540	27	1,500	75	1,475	73
Squeteague .....									2,355	150	2,360	148
Striped bass .....	10,214	715	9,600	672	11,175	894	9,560	675	2,988	245	3,190	255
Suckers .....	9,900	297	13,900	417	3,600	90	3,280	82				
Other fish .....	9,165	275	8,560	255	5,330	160	4,000	120	900	30	1,100	35
<b>Total .....</b>	<b>511,054</b>	<b>12,008</b>	<b>383,508</b>	<b>9,030</b>	<b>3,199,059</b>	<b>27,733</b>	<b>3,040,131</b>	<b>25,965</b>	<b>509,268</b>	<b>6,425</b>	<b>476,489</b>	<b>5,902</b>
<b>Pound nets:</b>												
Alewives .....	135,800	1,079	105,200	850	1,306,000	5,030	780,500	3,800	600,813	7,071	531,845	6,260
Catfish .....	23,125	925	10,845	795	50,570	1,770	39,285	1,375	16,700	480	18,425	577
Eels .....					41,250	1,650	33,250	1,330	5,750	212	6,790	248
Perch, white .....	6,300	315	8,800	440	52,700	2,635	44,800	2,240	17,900	915	17,260	864
Perch, yellow .....	24,285	860	15,145	530	159,830	4,795	131,865	3,955	12,000	524	12,900	563
Pike .....	1,567	94	1,765	106	74,165	4,450	62,000	3,720				
Shad .....	60,325	2,274	53,638	1,839	131,609	4,509	111,475	3,822	111,956	3,120	114,416	2,860
Striped bass .....	5,850	410	6,070	425	41,930	2,935	33,200	2,410	95,820	6,395	88,580	5,810
Suckers .....	3,000	75	3,280	82	42,800	1,110	36,800	920	4,750	155	2,700	100
Other fish .....	5,020	150	6,000	180	16,330	490	13,560	405	2,350	118	2,550	90
<b>Total .....</b>	<b>271,272</b>	<b>6,182</b>	<b>219,743</b>	<b>5,247</b>	<b>1,917,084</b>	<b>29,374</b>	<b>1,236,735</b>	<b>23,977</b>	<b>868,639</b>	<b>18,906</b>	<b>795,526</b>	<b>17,372</b>
<b>Gill nets:</b>												
Alewives .....	98,600	1,090	70,500	775	945,700	4,728	521,000	2,604	75,000	900	66,800	705
Catfish .....					7,100	284	5,750	230				
Perch, white .....					12,200	620	11,400	570				
Perch, yellow .....					7,300	210	7,500	225	7,700	409	6,583	351
Pike .....					24,613	1,725	20,150	1,410				
Shad .....	276,325	9,474	253,838	8,705	743,400	23,264	634,298	19,935	504,423	14,056	453,040	11,348
Striped bass .....	8,930	625	11,740	822	17,800	1,068	14,050	843	27,984	2,357	20,896	1,704
Sturgeon .....									60,000	1,500	45,000	1,140
Suckers .....					4,360	109	4,600	115				
Other fish .....	7,500	225	8,060	260	6,860	206	6,435	193	4,900	158	3,453	88
<b>Total .....</b>	<b>301,355</b>	<b>11,414</b>	<b>344,738</b>	<b>10,562</b>	<b>1,769,363</b>	<b>92,223</b>	<b>1,225,183</b>	<b>26,125</b>	<b>680,067</b>	<b>19,380</b>	<b>597,272</b>	<b>15,396</b>
<b>Fyke nets:</b>												
Alewives .....	10,800	94	9,200	88	51,300	356	45,800	329				
Catfish .....	7,750	310	5,500	220	57,875	2,315	61,125	2,445				
Eels .....	6,750	270	6,625	265	65,480	3,174	66,000	3,280				
Perch, white .....	2,800	140	1,500	90	35,910	1,975	35,100	1,925				
Perch, yellow .....	6,250	270	4,750	190	44,665	1,340	49,335	1,480				
Pike .....	4,300	258	3,200	192	20,970	1,468	21,228	1,483				
Shad .....	1,530	55	1,313	47	3,068	105	4,361	149				
Striped bass .....	5,075	355	4,643	325	3,125	250	3,525	232				
Suckers .....	3,800	114	4,600	138	9,800	294	7,400	222				
Other fish .....	2,020	60	1,760	52	12,335	370	10,350	310				
<b>Total .....</b>	<b>51,075</b>	<b>1,928</b>	<b>43,091</b>	<b>1,607</b>	<b>304,526</b>	<b>11,647</b>	<b>304,824</b>	<b>11,008</b>				
<b>Trammel nets:</b>												
Catfish .....					5,650	225	6,750	270				
Perch, white .....					6,300	315	7,700	385				
Perch, yellow .....					12,335	370	13,667	410				
Pike .....					15,165	910	18,583	1,115				
Striped bass .....					2,700	216	4,375	350				
Other fish .....					6,105	185	7,500	225				
<b>Total .....</b>					<b>48,315</b>	<b>2,221</b>	<b>58,575</b>	<b>2,755</b>				
<b>Weirs:</b>												
Alewives .....	12,880	173	14,000	187	10,000	50	15,000	62				
Catfish .....	7,857	275	8,570	300	7,100	215	7,430	225				
Eels .....	4,000	160	4,200	168								
Perch, white .....	7,300	363	7,560	380	5,000	250	5,100	255				
Perch, yellow .....	11,700	410	11,900	418	12,500	375	13,000	390				
Pike .....	1,700	102	1,700	108	3,000	180	3,100	186				
Shad .....	4,981	170	5,425	185	10,150	348	7,875	270				
Striped bass .....	4,600	276	5,080	302								
Suckers .....	2,080	62	2,320	58								
Other fish .....	3,150	80	3,620	92	3,350	100	3,000	108				
<b>Total .....</b>	<b>60,248</b>	<b>2,001</b>	<b>64,435</b>	<b>2,198</b>	<b>51,100</b>	<b>1,518</b>	<b>55,105</b>	<b>1,496</b>				

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Caroline.				Cecil.				Charles.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Lines:</b>												
Catfish.....	10,571	\$370	11,140	\$390	16,175	\$485	15,990	\$479				
Perch, white.	1,200	60	1,360	68	1,700	85	1,450	70				
Striped bass.					750	60	940	75				
Total.....	11,771	430	12,500	458	18,625	630	18,380	624				
<b>Minor apparatus:</b>												
Alewives.....					11,250	90	0,070	68				
Perch, white.					1,875	110	1,570	125				
Perch, yellow.					1,060	40	1,323	52				
Total.....					13,685	240	11,963	245				
<b>Miscellaneous:</b>												
Oysters.....									485,520	\$28,410	381,626	\$27,849
Crabs, hard.									86,500	675	96,800	726
Terrapins.....									600	334	630	357
Total.....									572,620	29,419	479,056	28,932
<b>Grand total.</b>	1,296,775	34,021	1,068,015	29,102	7,321,757	105,586	6,000,896	93,095	2,630,594	74,220	2,348,343	67,602

  

Apparatus and species.	Dorchester.				Harford.				Kent.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	210,800	\$1,054	185,400	\$927	4,270,500	\$46,928	3,562,000	\$40,397	36,500	\$223	68,500	\$393
Bluefish.....	9,100	364	8,500	425					20,500	795	22,667	680
Catfish.....	15,290	535	12,575	440	11,625	465	8,550	342	64,400	2,012	58,730	1,810
Eels.....					10,550	475	9,335	420	2,000	100	1,500	75
Menhaden.....	26,800	120	23,400	102								
Perch, white.	13,700	685	10,100	505	53,800	2,690	41,500	2,075	35,400	2,002	35,200	2,100
Perch, yellow.	24,143	845	18,290	640	71,000	2,485	77,733	2,915	31,428	1,100	28,714	1,005
Pike.....	7,875	315	6,720	269	15,143	1,060	11,730	880	11,200	896	11,400	912
Shad.....	83,563	2,865	71,225	2,442	551,250	22,050	442,400	17,696	13,825	504	11,816	445
Spanishmackerel.									5,428	760	4,267	640
Spots and croakers.	11,500	558	11,300	547					4,000	200	4,200	210
Squeteague.	8,648	279	7,280	245								
Striped bass.	9,860	690	8,930	625	21,590	1,835	15,588	1,325	17,700	1,481	16,500	1,485
Sturgeon.....	960	45	1,040	52								
Suckers.....	10,200	204	11,500	230	9,860	250	7,600	190	4,200	105	5,700	142
Other fish.....	11,835	355	10,935	328	9,667	290	7,015	228	6,500	215	5,150	176
Total.....	444,274	8,914	387,195	7,777	5,024,985	78,528	4,183,451	66,468	259,141	10,393	274,344	10,079
<b>Pound nets:</b>												
Alewives.....	170,400	852	160,500	802					349,100	2,072	402,100	2,970
Bluefish.....	11,300	452	10,900	436					2,000	100	3,000	150
Catfish.....	28,143	985	30,571	1,070					28,060	890	24,055	840
Eels.....									8,730	286	6,000	200
Menhaden.....	16,200	114	12,120	98								
Perch, white.	18,600	930	17,500	875					24,800	1,200	28,400	1,615
Perch, yellow.	30,035	95	28,285	990					32,530	1,290	28,500	1,185
Pike.....	3,665	20	4,265	256					5,100	255	4,000	270
Shad.....	74,900	2,568	79,450	2,724					20,209	733	17,066	615
Spots and croakers.	14,000	700	12,400	620					950	38	750	30
Squeteague.	10,650	425	9,875	395					3,280	164	3,110	155
Striped bass.	8,400	630	9,160	687					15,625	1,250	8,875	730
Sturgeon.....	1,700	85	1,920	90								
Suckers.....	25,200	652	22,100	602								
Other fish.....	12,725	380	13,578	475					5,330	120	5,960	140
Total.....	425,918	9,888	412,622	10,120					496,314	8,368	533,015	8,006
<b>Trammel nets:</b>												
Catfish.....					21,104	740	10,505	685				
Perch, white.					10,720	590	9,810	540				
Perch, yellow.					5,000	175	5,429	199				
Pike.....					7,642	535	7,285	510				
Striped bass.					10,722	965	7,606	600				
Suckers.....					11,200	280	8,600	215				
Other fish.....					8,333	250	7,066	212				
Total.....					74,721	3,535	65,421	3,042				

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Dorchester.				Harford.				Kent.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Gill nets:</b>												
Alewives .....	320,800	\$1,604	306,100	\$1,520	425,200	\$2,128	389,500	\$1,947	144,400	\$692	126,100	\$825
Bluefish .....									16,400	820	17,320	860
Catfish .....					1,144	40	915	32	3,500	105	4,100	123
Menhaden .....	130,600	392	122,800	368								
Perch, white .....	16,800	840	14,620	721	14,180	780	13,450	740	69,500	4,350	79,544	5,068
Perch, yellow .....	13,500	468	13,200	458	3,715	130	2,357	100	46,000	2,300	52,500	2,375
Pike .....	10,950	657	9,820	590	23,428	1,640	22,485	1,574	33,000	2,255	30,450	2,260
Shad .....	281,750	9,060	289,275	9,918	592,144	20,302	514,031	17,624	318,115	11,273	285,950	10,243
Spanish mackerel .....									4,667	560	4,120	480
Squeteague .....	1,250	50	1,180	47								
Striped bass .....	23,100	1,848	22,000	1,760	36,445	3,280	33,778	3,040	25,450	1,608	22,900	1,445
Suckers .....					8,400	210	7,600	190				
Other fish .....	19,930	493	18,420	460	6,065	200	5,833	175	6,125	245	6,500	290
<b>Total .....</b>	<b>818,680</b>	<b>10,012</b>	<b>797,415</b>	<b>15,851</b>	<b>1,111,321</b>	<b>28,708</b>	<b>990,440</b>	<b>25,422</b>	<b>667,157</b>	<b>24,388</b>	<b>629,484</b>	<b>23,045</b>
<b>Fyko nets:</b>												
Alewives .....	26,600	132	23,400	117					91,200	846	79,100	760
Catfish .....	8,540	270	7,430	260	53,514	1,873	48,000	1,800	49,265	1,478	40,200	1,208
Eels .....	35,200	1,710	29,700	1,188	38,250	1,530	35,735	1,430	1,500	55	1,100	35
Perch, white .....	2,800	140	1,800	90	15,636	860	14,969	820	25,500	1,530	27,000	1,650
Perch, yellow .....	9,300	325	6,430	225	17,571	615	16,714	585	62,000	3,445	66,650	3,568
Pike .....	4,800	288	5,400	324	11,572	810	11,286	790	21,600	1,683	23,300	1,814
Shad .....	3,500	135	3,220	120					7,875	333	6,041	245
Spots and croakers .....									2,450	122	1,550	77
Striped bass .....	3,285	230	3,995	280	3,722	335	3,560	320	3,000	180	3,500	210
Suckers .....	8,804	238	9,433	258	7,800	105	6,790	170	3,700	111	2,500	75
Other fish .....	4,500	135	5,020	150	7,000	210	9,135	274	10,350	485	10,150	413
<b>Total .....</b>	<b>107,329</b>	<b>3,603</b>	<b>95,828</b>	<b>3,012</b>	<b>155,065</b>	<b>6,428</b>	<b>146,129</b>	<b>6,189</b>	<b>278,440</b>	<b>10,268</b>	<b>261,151</b>	<b>10,055</b>
<b>Weirs:</b>												
Alewives .....	34,665	280	36,820	294					900	9	725	7
Catfish .....	26,800	784	25,310	760								
Eels .....	1,100	45	1,240	50								
Perch, white .....	6,600	330	7,150	355								
Perch, yellow .....	3,250	247	9,420	283					2,680	32	3,490	40
Pike .....	1,500	90	1,280	80					200	12	260	15
Shad .....	2,835	108	2,695	105								
Spots and croakers .....	3,200	160	3,000	150								
Striped bass .....	11,200	784	10,900	763								
Suckers .....									1,130	17	750	11
Other fish .....	2,700	60	2,880	65					600	15	720	18
<b>Total .....</b>	<b>98,850</b>	<b>2,885</b>	<b>100,695</b>	<b>2,905</b>					<b>5,510</b>	<b>85</b>	<b>5,945</b>	<b>91</b>
<b>Lines:</b>												
Bluefish .....	810	35	1,360	52								
Catfish .....	21,065	765	23,810	831	18,220	638	17,714	620	6,670	200	7,300	210
Perch, white .....	825	45	980	50	2,330	140	2,535	152	3,800	270	3,300	225
Perch, yellow .....	580	18	500	15					1,725	68	1,810	72
Spots and croakers .....	7,600	380	7,100	355								
Striped bass .....	2,280	140	2,500	150	900	90	985	98	3,500	350	3,000	300
Other fish .....					1,530	40	2,000	60	2,000	80	1,850	74
<b>Total .....</b>	<b>34,000</b>	<b>1,363</b>	<b>36,250</b>	<b>1,453</b>	<b>22,089</b>	<b>914</b>	<b>23,234</b>	<b>930</b>	<b>17,695</b>	<b>968</b>	<b>17,260</b>	<b>890</b>
<b>Pots:</b>												
Eels .....	29,400	1,170	31,800	1,272	48,700	1,948	54,200	2,168	28,600	883	30,750	862
<b>Minor apparatus:</b>												
Alewives .....					114,000	850	88,000	660				
Catfish .....									27,237	1,204	28,050	1,228
Suckers .....					10,667	320	11,165	335				
Other fish .....					2,250	68	2,835	75				
<b>Total .....</b>					<b>126,917</b>	<b>1,238</b>	<b>102,000</b>	<b>1,070</b>	<b>27,237</b>	<b>1,204</b>	<b>28,050</b>	<b>1,228</b>
<b>Miscellaneous:</b>												
Oysters .....	3,470,050	223,132	3,574,900	255,250					1,595,825	114,457	1,655,500	141,388
Crabs, hard .....	280,100	4,351	483,400	7,250					43,300	622	27,500	450
Crabs, soft .....	633,509	19,005	760,167	22,805								
Terrapins .....	18,300	5,400	17,400	5,220								
<b>Total .....</b>	<b>4,412,850</b>	<b>251,078</b>	<b>4,835,867</b>	<b>290,525</b>					<b>1,639,125</b>	<b>115,079</b>	<b>1,683,000</b>	<b>141,838</b>
<b>Grand total.</b>	<b>6,371,361</b>	<b>295,842</b>	<b>6,097,672</b>	<b>332,921</b>	<b>6,564,098</b>	<b>121,209</b>	<b>5,564,884</b>	<b>105,280</b>	<b>3,419,219</b>	<b>171,636</b>	<b>3,463,000</b>	<b>197,891</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Prince George.				Queen Anne.				St. Mary.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives	263,046	\$2,234	205,981	\$1,835	80,100	\$831	61,800	\$630	100,000	\$750	80,000	\$600
Bluefish					15,800	790	12,210	611	9,550	440	8,762	404
Catfish	32,700	1,200	28,540	960	31,600	944	29,572	873	5,500	125	9,600	208
Eels					1,400	70	2,200	110	100	5	520	21
Menhaden									330,000	880	300,000	800
Perch, white	6,500	390	6,800	400	59,000	3,392	41,661	2,356	20,200	1,090	19,830	1,041
Perch, yellow	5,725	229	5,200	210	60,550	2,800	81,744	3,817	5,865	207	4,615	169
Pike					14,650	1,071	14,492	1,039				
Shad	85,421	2,656	44,786	1,720	15,575	712	21,091	964	9,100	390	10,150	435
Spots and croakers					4,300	172	3,670	147	8,500	420	8,070	417
Squeteague					2,200	132	3,100	250	14,250	665	14,080	608
Striped bass	1,280	125	1,520	150	107,500	10,095	71,240	7,120	12,020	1,050	11,650	1,006
Other fish	15,040	401	12,200	305	20,250	491	14,340	329	6,150	183	4,740	144
<b>Total</b>	<b>409,712</b>	<b>7,295</b>	<b>305,027</b>	<b>5,580</b>	<b>412,925</b>	<b>21,500</b>	<b>357,120</b>	<b>18,246</b>	<b>521,235</b>	<b>6,205</b>	<b>472,017</b>	<b>5,853</b>
<b>Pound nets:</b>												
Alewives	46,000	510	50,000	600	132,500	1,375	115,000	1,200	943,000	6,257	1,165,500	8,606
Bluefish					1,330	40	1,535	46	9,500	455	10,780	499
Catfish					1,400	28	1,610	32	22,500	545	29,608	704
Eels					6,800	300	7,530	350				
Menhaden									411,656	672	449,500	761
Perch, white					17,560	970	17,000	900	6,889	419	11,943	780
Perch, yellow					6,000	120	4,900	80	6,583	230	11,100	390
Shad	5,950	155	8,000	200	5,250	240	4,375	200	193,000	6,207	220,050	8,120
Spanish mackerel												
Spots and croakers					1,750	65	1,550	61	8,500	402	11,240	536
Squeteague					500	15	600	18	36,189	1,810	37,250	1,701
Striped bass					10,100	900	5,500	500	33,200	2,000	30,798	2,355
Other fish	500	25	800	35	2,800	70	2,120	53	31,335	1,180	33,558	1,269
<b>Total</b>	<b>52,450</b>	<b>690</b>	<b>58,800</b>	<b>835</b>	<b>185,930</b>	<b>4,123</b>	<b>160,870</b>	<b>3,440</b>	<b>1,708,552</b>	<b>21,655</b>	<b>2,025,927</b>	<b>27,401</b>
<b>Gill nets:</b>												
Alewives	11,100	87	9,600	80	26,500	290	24,500	250	62,000	580	60,800	560
Bluefish					10,200	510	11,700	585	55,000	2,750	88,000	3,600
Catfish					1,700	44	1,730	46				
Perch, white	2,917	175	4,810	168	7,600	456	4,000	240	12,800	640	12,110	605
Perch, yellow					4,000	160	4,300	165	3,140	110	3,057	128
Pike					1,910	118	1,360	123				
Shad	1,102	40	1,605	55	29,785	1,394	35,963	1,650				
Spanish mackerel									2,400	240	6,250	625
Spots and croakers									2,100	105	2,640	132
Squeteague									3,600	180	6,030	295
Striped bass	4,320	390	4,011	415	20,950	2,092	17,100	1,708	14,000	1,280	18,140	1,690
Other fish	2,400	60	2,230	55					2,187	65	3,210	95
<b>Total</b>	<b>21,909</b>	<b>752</b>	<b>22,856</b>	<b>774</b>	<b>102,045</b>	<b>5,064</b>	<b>100,653</b>	<b>4,776</b>	<b>157,207</b>	<b>5,950</b>	<b>200,847</b>	<b>7,790</b>
<b>Fyke nets:</b>												
Alewives					4,910	48	5,600	55				
Catfish					26,000	810	27,200	854				
Perch, white					19,500	960	22,000	1,144				
Perch, yellow					24,200	825	26,600	943				
Pike					2,600	190	4,005	365				
Striped bass					13,680	1,230	16,890	1,520				
Other fish					2,000	80	2,550	110				
<b>Total</b>					<b>92,870</b>	<b>4,143</b>	<b>105,745</b>	<b>4,991</b>				
<b>Weirs:</b>												
Alewives					1,000	15	1,300	13				
Perch, yellow					5,320	55	6,600	70				
Pike					400	24	500	30				
Suckers					866	13	1,330	20				
Other fish					500	10	600	12				
<b>Total</b>					<b>8,686</b>	<b>117</b>	<b>10,330</b>	<b>145</b>				
<b>Lines:</b>												
Bluefish									32,625	1,610	20,000	1,450
Catfish	53,570	1,875	54,800	1,918	2,000	60	2,500	75				
Perch, white					3,000	180	2,500	130				
Sheepshead									2,280	206	2,165	281
Spots and croakers									20,100	870	28,500	892
Squeteague									179,626	4,713	183,050	5,010
Striped bass					4,000	400	3,500	350	47,850	8,152	45,200	3,064
Other fish					1,000	40	825	33	6,100	180	7,400	180
<b>Total</b>	<b>53,570</b>	<b>1,875</b>	<b>54,800</b>	<b>1,918</b>	<b>10,000</b>	<b>680</b>	<b>9,325</b>	<b>588</b>	<b>204,581</b>	<b>10,821</b>	<b>205,815</b>	<b>10,877</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Prince George.				Queen Anne.				St. Mary.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Pots:												
Eels.....					37,250	\$1,510	24,500	\$1,208	6,200	\$248	8,000	\$320
Miscellaneous:												
Oysters.....					2,859,150	105,168	2,571,625	204,374	3,998,848	252,616	3,446,121	281,065
Crabs, hard.....					90,500	1,280	169,000	2,070	63,500	675	68,900	715
Crabs, soft.....					9,834	590	18,500	1,110	150,400	13,440	157,700	14,108
Crawfish.....	6,250	\$562	7,350	\$695								
Terrapins.....					29,401	4,408	26,500	3,986				
Turtles.....					1,080	100	1,590	95				
Total.....	6,250	562	7,350	695	2,990,565	171,546	2,787,905	211,635	4,212,748	266,731	3,672,781	295,888
Grand total..	543,891	11,174	448,833	9,801	3,840,271	208,683	3,555,848	245,029	6,900,523	311,610	6,674,277	348,069

  

Apparatus and species.	Somerset.				Talbot.				Wicomico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Alewives.....	51,400	\$257	41,500	\$207	135,000	\$687	120,500	\$602	945,000	\$4,715	840,500	\$4,185
Bluefish.....	1,300	52	2,500	100	18,900	945	20,200	1,010	5,300	265	10,400	520
Catfish.....	8,200	410	9,500	475	35,500	1,065	52,000	1,560	28,680	1,095	24,960	875
Eels.....	1,056	31	900	27	2,860	114	3,000	120				
Menhaden.....	11,000	21	9,000	16								
Mullet.....	8,700	174	9,300	186								
Perch, white.....	4,600	184	3,400	136	21,300	852	20,700	828	13,600	680	10,500	525
Perch, yellow.....	5,200	156	4,160	175	31,200	936	85,200	1,056	22,100	775	20,570	720
Shad.....	24,325	834	28,525	978	24,934	855	27,384	939	184,013	6,325	165,746	5,682
Spots and croakers.....	700	30	620	25	9,900	380	11,600	464				
Squeteague.....	13,600	408	12,250	367	12,500	625	13,400	670	8,100	165	2,830	142
Striped bass.....	1,300	65	3,200	160	22,215	1,448	21,231	1,370	14,050	980	13,145	920
Sturgeon.....	1,300	65	900	35	9,400	470	3,200	138	3,060	95	1,800	62
Suckers.....					11,200	336	19,800	597	9,800	195	8,700	175
Other fish.....	2,800	149	3,500	175	20,500	615	17,634	529	8,850	310	9,060	317
Total.....	155,475	2,827	129,265	3,062	356,009	9,334	305,949	9,923	1,238,153	15,510	1,108,211	14,123
Pound nets:												
Alewives.....	80,500	402	51,300	256	130,080	1,230	144,244	1,342	285,700	1,428	805,100	1,533
Bluefish.....	2,000	104	1,200	48	24,600	1,230	18,500	925	27,500	1,375	19,500	975
Catfish.....	8,700	435	6,400	320	38,900	766	34,200	685	27,800	975	24,686	870
Eels.....					9,100	188	8,200	108	20,270	726	20,120	1,054
Menhaden.....	180,000	195	165,000	175	13,200	60	12,500	52				
Mullet.....	6,500	130	5,800	116								
Perch, white.....	9,300	372	7,300	292	19,500	682	17,200	602	21,300	1,065	25,600	1,280
Perch, yellow.....	7,400	222	10,100	393	22,800	513	19,500	430	23,940	840	30,285	1,060
Pike.....	7,300	438	1,700	102	5,800	348	6,700	582	11,200	672	10,500	630
Shad.....	34,216	1,173	41,700	1,251	36,491	1,251	20,741	711	118,370	4,059	108,763	3,729
Spots and croakers.....	10,100	467	9,800	448	17,700	708	7,700	308	13,900	655	20,260	1,010
Squeteague.....	9,800	490	6,500	325	21,200	1,060	10,500	525	8,060	153	2,800	140
Striped bass.....	2,700	135	1,700	85	16,400	984	17,500	1,050	10,900	872	10,475	838
Sturgeon.....	1,380	65	1,800	45	7,000	350	6,200	310	9,715	340	5,285	165
Suckers.....	3,500	140	2,600	130	22,400	563	19,900	491	28,200	705	25,920	648
Other fish.....	6,500	325	4,800	240	8,900	267	8,700	231	9,500	328	12,140	425
Total.....	370,496	5,093	317,700	4,136	393,471	10,200	355,285	8,421	611,355	14,193	627,634	14,377
Gill nets:												
Alewives.....	220,400	1,102	213,800	1,069	416,600	2,082	342,000	1,690	468,900	2,044	450,900	1,954
Bluefish.....	9,100	364	8,900	336	15,000	780	14,100	695				
Menhaden.....	6,000	10	7,100	12	85,000	170	78,000	157				
Perch, white.....	3,100	124	2,860	114	11,625	465	14,125	565	30,365	1,820	23,665	1,420
Perch, yellow.....	2,800	84	2,700	81	10,000	570	18,287	548				
Shad.....	211,043	7,236	193,634	6,634	846,216	20,013	600,600	20,592	387,188	13,380	326,025	11,109
Spots and croakers.....	2,050	63	1,800	55	3,275	131	2,550	102				
Squeteague.....	9,250	413	9,050	396	4,875	195	5,500	220				
Striped bass.....	36,900	1,845	38,900	1,945	62,600	3,756	52,000	2,945	29,850	2,388	21,200	1,696
Sturgeon.....									5,417	298	4,700	250
Other fish.....	6,800	288	7,140	315	1,600	48	1,870	56	17,145	600	14,100	490
Total.....	507,443	11,529	485,884	10,957	1,466,391	37,210	1,129,612	27,570	938,865	20,530	840,590	16,919

Statement by counties, apparatus and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Somerset.				Talbot.				Wicomico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Fyke nets:</b>												
Alewives.....	17,700	\$88	17,400	\$87	17,400	\$87	14,300	\$71	38,800	\$192	32,900	\$159
Catfish.....	3,500	190	3,470	173	15,600	390	14,400	360	64,250	2,570	66,110	2,050
Eels.....	26,500	1,060	21,500	860	12,500	450	10,200	408	32,400	1,296	38,700	1,548
Mullet.....	1,100	22	800	22								
Perch, white.....	1,800	64	1,300	52	10,125	405	9,580	383	5,600	280	4,800	240
Perch, yellow.....	5,700	171	4,800	144	6,350	190	6,182	185	11,286	395	9,610	335
Pike.....	2,900	174	2,800	168	2,082	115	1,964	108	4,200	252	3,500	210
Shad.....	2,275	78	2,541	87	10,150	348	7,441	255	4,813	165	3,570	120
<b>Spots and croakers.....</b>	1,400	64	1,560	70								
Squeteague.....	2,900	104	2,450	98								
Striped bass.....	2,700	135	3,200	160	19,800	1,188	17,500	1,050	37,714	2,640	39,500	2,765
Suckers.....	3,400	102	2,400	72	8,400	252	6,700	250	6,500	194	7,000	190
Other fish.....	2,700	81	2,400	72	2,500	75	2,065	62	0,080	210	7,684	270
<b>Total.....</b>	<b>74,375</b>	<b>2,333</b>	<b>66,621</b>	<b>2,065</b>	<b>104,897</b>	<b>3,500</b>	<b>92,332</b>	<b>3,132</b>	<b>211,043</b>	<b>8,164</b>	<b>213,974</b>	<b>8,487</b>
<b>Weirs:</b>												
Alewives.....	7,900	34	7,500	37	3,200	40	4,800	60	35,300	270	32,460	258
Catfish.....	5,200	181	4,950	167	4,500	225	2,300	115	12,800	348	9,257	224
Perch, white.....	1,400	56	1,220	49	2,300	115	1,700	85	5,000	280	6,000	300
Perch, yellow.....	3,600	108	3,260	98	4,380	130	3,515	105	4,030	145	4,580	160
Pike.....									450	50	370	25
Shad.....	1,575	45	1,575	45					8,815	140	3,360	115
<b>Spots and croakers.....</b>	600	25	500	20								
Squeteague.....	1,100	42	1,000	40								
Striped bass.....	7,060	420	6,800	408	1,250	100	1,550	125	500	45	380	34
Suckers.....					1,130	28	1,050	26	1,100	30	1,340	40
Other fish.....	1,000	25	1,280	35	950	28	1,300	40	900	32	1,000	85
<b>Total.....</b>	<b>28,535</b>	<b>936</b>	<b>28,085</b>	<b>899</b>	<b>17,710</b>	<b>666</b>	<b>16,215</b>	<b>556</b>	<b>64,555</b>	<b>1,320</b>	<b>58,747</b>	<b>1,191</b>
<b>Lines:</b>												
Bluefish.....	17,200	506	24,000	708	500	25	600	28	1,800	72	2,050	82
Catfish.....	9,300	327	10,100	351	1,400	35	1,520	38	80,560	3,200	73,550	2,925
Eels.....	610	15	860	21								
Perch, white.....	13,150	526	14,850	594					4,000	100	3,520	141
Perch, yellow.....	8,800	264	7,920	238								
Pike.....	1,200	72	1,340	81								
Sea bass.....	1,320	40	1,260	38								
Sheepshead.....	1,150	130	1,020	115								
<b>Spots and croakers.....</b>	52,600	2,080	53,550	2,142	2,000	80	1,750	70	6,000	300	6,928	345
Squeteague.....	78,150	2,775	80,300	2,811	480	22	540	25	8,000	320	8,720	360
Striped bass.....	7,550	453	7,100	435	1,285	95	1,185	87	1,100	90	900	80
Other fish.....	6,800	205	7,540	227	750	25	820	28	4,800	145	4,500	135
<b>Total.....</b>	<b>197,830</b>	<b>7,393</b>	<b>210,440</b>	<b>7,764</b>	<b>6,415</b>	<b>282</b>	<b>6,415</b>	<b>276</b>	<b>106,260</b>	<b>4,347</b>	<b>100,168</b>	<b>4,068</b>
<b>Pots:</b>												
Eels.....	41,850	1,674	38,750	1,550	24,500	980	23,375	935	31,400	1,296	46,400	1,856
<b>Minor apparatus:</b>												
Alewives.....					12,800	82	9,720	67	14,000	92	13,500	90
Catfish.....					1,600	40	1,580	38				
Perch, white.....									500	20	800	30
Perch, yellow.....					23,100	700	21,300	650	720	22	900	20
Shad.....									17,675	855	14,280	762
Striped bass.....									850	77	900	80
Other fish.....					3,850	575	4,600	690	430	15	650	20
<b>Total.....</b>					<b>41,350</b>	<b>1,307</b>	<b>37,200</b>	<b>1,445</b>	<b>34,175</b>	<b>1,081</b>	<b>30,730</b>	<b>1,002</b>
<b>Miscellaneous:</b>												
Clams (quahogs).....	38,400	2,880	21,520	1,614								
Oysters.....	11,402,927	786,908	12,418,385	851,548	3,677,100	236,385	3,573,500	255,250	2,536,800	163,080	2,240,700	160,050
Crabs, hard.....	483,334	7,250	558,334	8,375	225,134	3,377	291,833	4,377	72,133	1,082	108,433	1,623
Crabs, soft.....	2,498,536	149,913	2,814,885	168,894	160,733	5,002	208,433	6,253	366,734	10,503	648,537	29,185
Terrapins.....	12,500	2,500	16,200	3,240	17,500	5,250	19,200	5,700	0,860	1,080	7,800	2,340
Turtles.....	2,300	127	2,470	136								
<b>Total.....</b>	<b>14,497,997</b>	<b>899,576</b>	<b>15,831,794</b>	<b>1,033,807</b>	<b>4,086,467</b>	<b>250,014</b>	<b>4,082,966</b>	<b>271,040</b>	<b>2,982,467</b>	<b>182,645</b>	<b>3,005,500</b>	<b>193,201</b>
<b>Grand total.....</b>	<b>15,854,001</b>	<b>981,361</b>	<b>17,108,539</b>	<b>1,064,240</b>	<b>6,497,210</b>	<b>313,583</b>	<b>6,119,349</b>	<b>323,898</b>	<b>6,218,873</b>	<b>249,086</b>	<b>6,031,954</b>	<b>255,224</b>



Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Worcester.				District of Columbia.				Total.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives	330,500	\$3,252	324,000	\$3,103	226,400	\$1,700	177,200	\$1,550	10,532,746	\$84,083	9,356,231	\$75,547
Bluefish									106,775	4,686	110,519	5,026
Catfish	11,670	350	12,420	370	3,350	100	5,000	150	367,845	13,303	373,237	13,194
Eels									40,875	1,716	40,170	1,685
Menhaden	90,000	240	80,000	160					821,800	2,211	752,400	1,978
Mullet	30,000	1,200	35,000	1,400					38,700	1,374	44,300	1,586
Perch, white	59,100	2,364	62,750	2,510	3,435	190	2,340	140	434,010	22,404	395,941	20,334
Perch, yellow	5,720	150	5,280	142	2,125	88	1,660	66	561,721	17,500	521,726	18,681
Pike	31,625	1,245	34,625	1,365					187,497	11,515	189,677	11,632
Sea bass	120,000	4,760	110,000	4,400					120,000	4,760	110,000	4,400
Shad	25,725	909	25,021	1,005	39,375	922	25,600	680	1,692,384	60,671	1,414,854	51,493
<b>S p a n i s h mackerel</b>									5,428	760	4,267	640
<b>Spots and croakers</b>	5,000	150	5,200	156					67,150	2,931	68,075	2,997
Squeteague	115,000	4,000	135,000	5,400					179,563	7,420	197,560	8,193
Striped bass	74,600	6,980	80,500	7,525	5,850	540	3,280	295	523,189	44,059	486,001	41,027
Sturgeon									14,720	675	6,940	317
Suckers	5,000	125	4,520	113					98,060	1,732	81,100	2,006
Other fish	10,960	810	11,780	325	5,750	230	1,200	50	175,442	5,117	159,374	4,617
<b>Total</b>	<b>914,900</b>	<b>26,035</b>	<b>926,696</b>	<b>28,034</b>	<b>286,285</b>	<b>3,770</b>	<b>216,280</b>	<b>2,931</b>	<b>15,878,805</b>	<b>287,517</b>	<b>14,312,398</b>	<b>265,443</b>
<b>Pound nets:</b>												
Alewives					248,000	2,435	288,285	2,885	5,279,643	36,090	4,775,824	36,422
Bluefish									106,950	5,108	109,215	5,033
Catfish					3,800	114	6,050	191	255,923	8,090	242,255	7,679
Eels									95,775	3,517	91,990	3,514
Menhaden									933,556	1,706	932,720	1,712
Mullet									6,500	130	5,800	116
Perch, white					1,700	85	1,910	101	216,065	10,680	221,133	11,167
Perch, yellow					1,300	62	1,460	65	347,768	10,992	318,735	10,373
Pike									114,206	6,899	100,070	6,001
Shad					7,097	388	29,600	740	943,177	33,194	957,135	33,740
<b>S p a n i s h mackerel</b>									15,700	2,198	30,200	3,624
<b>Spots and croakers</b>									90,480	4,400	88,370	4,484
Squeteague									93,079	4,567	81,385	3,794
Striped bass					1,500	135	2,110	190	275,780	20,373	243,068	17,779
Sturgeon									19,795	840	15,205	636
Suckers					1,000	35	1,600	54	130,850	3,435	114,900	3,027
Other fish					1,300	49	2,270	109	127,340	4,244	120,384	4,351
<b>Total</b>					<b>265,687</b>	<b>3,293</b>	<b>333,255</b>	<b>4,335</b>	<b>9,053,977</b>	<b>156,373</b>	<b>8,458,299</b>	<b>153,471</b>
<b>Gill nets:</b>												
Alewives	106,500	590	110,500	605					3,420,500	19,115	2,800,000	15,723
Bluefish									170,500	8,434	219,020	9,782
Catfish									16,304	658	15,115	509
Menhaden	120,000	300	125,000	312					456,600	1,102	451,000	1,084
Mullet	55,000	1,375	50,640	1,250					55,000	1,375	50,640	1,250
Perch, white	50,500	1,520	45,610	1,375					258,103	13,132	250,227	12,821
Perch, yellow									132,075	5,199	137,971	5,227
Pike	21,100	660	22,960	715					131,803	8,110	125,025	7,773
Shad	24,850	1,420	23,100	1,330	183,000	4,950	158,000	3,950	4,416,469	146,117	3,787,787	123,780
<b>S p a n i s h mackerel</b>									7,067	800	10,370	1,105
<b>Spots and croakers</b>	4,000	200	4,250	210					11,425	499	11,240	499
Squeteague	65,000	1,950	63,750	1,913					83,975	2,788	85,510	2,871
Striped bass	29,500	1,975	26,900	1,885					357,949	26,282	327,235	28,841
Sturgeon									65,417	1,798	50,300	1,390
Suckers									12,760	319	12,200	305
Other fish	8,000	240	9,510	295					109,577	3,413	106,751	3,331
<b>Total</b>	<b>484,510</b>	<b>10,230</b>	<b>482,220</b>	<b>0,890</b>	<b>183,000</b>	<b>4,950</b>	<b>158,000</b>	<b>3,950</b>	<b>9,705,515</b>	<b>239,041</b>	<b>8,447,291</b>	<b>211,291</b>
<b>Trammel nets:</b>												
Catfish									26,754	965	26,315	955
Perch, white									17,020	905	17,510	925
Perch, yellow									17,335	645	19,096	600
Pike									22,807	1,445	25,868	1,625
Striped bass									13,422	1,181	12,041	1,040
Suckers									11,200	280	8,600	215
Other fish									14,408	435	14,566	487
<b>Total</b>									<b>123,036</b>	<b>5,766</b>	<b>123,996</b>	<b>5,797</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Maryland—Continued.

Apparatus and species.	Worcester.				District of Columbia.				Total.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Fyke nets:</b>												
Alewives									270,710	\$1,891	240,200	\$1,716
Catfish									323,929	11,880	313,225	11,755
Eels	8,400	\$336	7,200	\$288					234,160	10,261	226,400	9,754
Mullet									1,100	22	800	22
Perch, white	1,000	60	900	54					159,427	8,531	157,062	8,487
Perch, yellow	1,580	45	1,800	50					238,837	9,035	254,546	9,432
Pike	1,300	78	1,400	84					105,194	7,037	106,244	7,218
Shad									33,209	1,219	28,487	1,023
<b>Spots and croakers</b>									3,850	186	3,110	147
Squeteague									2,600	104	2,450	98
Striped bass									97,021	7,017	101,633	7,420
Suckers									52,204	1,470	49,423	1,375
Other fish	600	30	800	40					62,105	2,100	63,314	2,102
<b>Total</b>	<b>12,880</b>	<b>549</b>	<b>12,100</b>	<b>516</b>					<b>1,584,366</b>	<b>60,759</b>	<b>1,546,864</b>	<b>60,549</b>
<b>Weirs:</b>												
Alewives	5,800	29	6,800	34					111,345	900	119,405	952
Catfish	743	26	854	30					70,300	2,254	64,291	2,033
Eels									5,100	205	5,440	218
Perch, white	231	15	335	20					33,251	1,650	34,505	1,719
Perch, yellow	520	21	600	24					95,580	2,588	99,405	2,666
Pike									13,850	848	14,140	871
Shad	1,225	42	1,400	48					24,581	853	22,330	768
<b>Spots and croakers</b>									3,800	185	3,500	170
Squeteague									1,100	42	1,000	40
Striped bass	330	30	285	28					27,870	1,875	27,815	1,872
Suckers	720	18	1,000	25					7,026	158	7,790	180
Other fish	665	20	800	24					15,115	401	17,150	403
<b>Total</b>	<b>10,234</b>	<b>201</b>	<b>12,074</b>	<b>233</b>					<b>408,918</b>	<b>11,959</b>	<b>416,891</b>	<b>11,952</b>
<b>Lines:</b>												
Bluefish	23,000	690	20,000	600					75,935	2,938	77,610	2,920
Catfish									264,897	9,579	260,714	9,339
Eels	800	40	608	30					1,930	81	2,148	85
Perch, white									30,005	1,466	30,495	1,430
Perch, yellow									11,355	360	10,590	339
Pike									1,200	72	1,340	81
Sea bass	2,000	100	2,110	106					3,420	140	3,370	144
Sheepshead									3,430	426	3,185	306
<b>Spots and croakers</b>									95,800	3,785	98,988	3,872
Squeteague	60,000	1,900	110,000	2,700					326,256	9,790	332,610	10,000
Striped bass	682	65	690	72					69,897	4,895	66,000	4,711
Other fish	8,000	305	8,150	311					30,980	1,023	33,085	1,048
<b>Total</b>	<b>95,982</b>	<b>3,175</b>	<b>142,718</b>	<b>3,887</b>					<b>915,005</b>	<b>34,498</b>	<b>970,135</b>	<b>35,271</b>
<b>Pots:</b>												
Eels	70,000	3,500	65,000	3,200					378,085	15,646	389,740	16,030
<b>Minor apparatus:</b>												
Alewives									152,050	1,114	120,280	885
Catfish	7,500	375	8,100	405					1,800	40	1,580	38
Eels									34,737	1,579	36,150	1,633
Perch, white									1,875	130	2,370	155
Perch, yellow									24,880	762	23,223	722
Shad									17,675	855	14,230	762
Striped bass									850	77	900	80
Suckers									10,667	320	11,165	335
Other fish									6,530	658	8,085	785
<b>Total</b>	<b>7,500</b>	<b>375</b>	<b>8,100</b>	<b>405</b>					<b>250,864</b>	<b>5,535</b>	<b>218,043</b>	<b>5,365</b>
<b>Miscellaneous:</b>												
Clams (quahogs)	110,400	5,520	126,240	6,612					148,800	8,400	147,760	8,226
Oysters	1,295,385	162,082	770,581	89,910					30,027,100	2,530,391	35,916,608	2,680,026
Crabs, hard	40,000	600	35,000	525					2,388,099	31,723	2,776,898	37,460
Crabs, soft									4,056,110	228,690	4,828,872	266,250
Crayfish									6,250	562	7,350	695
Shrimp									7,556	3,720	8,044	3,960
Terrapins	2,600	1,890	1,960	1,430					87,701	21,852	89,780	22,333
Turtles									3,980	227	4,060	231
<b>Total</b>	<b>1,448,385</b>	<b>170,092</b>	<b>933,781</b>	<b>98,477</b>					<b>45,725,596</b>	<b>2,825,565</b>	<b>43,770,372</b>	<b>3,019,187</b>
<b>Grand total.</b>	<b>3,044,391</b>	<b>214,757</b>	<b>2,582,689</b>	<b>144,642</b>	<b>734,972</b>	<b>\$12,013</b>	<b>707,565</b>	<b>\$11,216</b>	<b>84,024,467</b>	<b>3,642,649</b>	<b>78,663,029</b>	<b>3,784,866</b>

## FISHERIES OF VIRGINIA.

*Importance and prominent features of the industry.*—In the item of persons employed, Virginia ranks second among the Middle Atlantic States, while in the matter of invested capital and value of products it occupies the third position. Considering the entire country, the rank of Virginia as a fishing State, based on the value of the catch, is fifth.

Virginia shares with Maryland the excellent physical advantages which have contributed so materially to the development of the fishing industry. The natural resources of the waters are very similar to those possessed by Maryland. Fishing operations are extensively carried on in Chesapeake Bay, in the two large sounds forming a part thereof—Tangier and Pocomoke—in the Potomac, Wicomico, Rappahannock, York, and James rivers, which enter the western side of the Chesapeake, and in the ocean from those parts of the State above and below the entrance to the bay.

The oyster fishery of Virginia overshadows all other branches and is more prominent than in any other State except Maryland. Next in importance are the shad fishery, the menhaden fishery, the squeteague fishery, the alewife fishery, the bluefish fishery, and the Spanish-mackerel fishery. In the catch of Spanish mackerel, menhaden, pompano, spots, and croakers, Virginia surpasses all the other States of this region. The shad fishery is next in importance to that of Maryland. Virginia ranks next to Maryland in the number of vessels engaged in the fishing industry and in the extent of the oyster-packing trade; while its menhaden industry is more important than in any other State. The increase in the pound-net fishery in recent years constitutes one of the most prominent features of the industry, and no other coast State now has so many pound nets.

*Condensed statistics.*—A summarized statistical presentation of the fisheries of Virginia is contained in the three following tables, relating to the years 1890 and 1891.

Of the 23,595 persons engaged in the industry in the latter year, 3,603 were vessel fishermen, 16,027 were shore and boat fishermen, 705 were on vessels employed in transporting fishery products, and 3,260 were in the shore branches connected with the fisheries, such as oyster packing, the manufacture of menhaden oil and fertilizer, etc.

The money value of the fishing property in Virginia in 1891 was \$2,948,659. The factors in this amount were 943 vessels valued, with their outfits, at \$939,136; 9,247 boats, worth \$463,722; apparatus to the value of \$360,514; shore property and cash capital, \$1,185,287.

Of the total value of the fisheries, \$3,647,845 in 1891, \$2,524,348 accrued from the sale of oysters; shad were worth \$207,394; menhaden, \$197,523; squeteague, \$124,645; alewives, \$93,905; bluefish, \$67,545, and Spanish mackerel, \$50,756.

*Persons employed in the fisheries of Virginia.*

How engaged.	1890.	1891.
In vessel fisheries.....	3,027	3,603
In shore fisheries.....	15,718	16,027
On transporting vessels.....	710	705
On shore, in factories, etc.....	2,714	3,260
Total.....	22,769	23,595

*Vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Virginia.*

Designation.	1890.		1891.		Designation.	1890.		1891.		
	No.	Value.	No.	Value.		No.	Value.	No.	Value.	
Vessels fishing.....	730	\$503,100	729	\$498,440	Apparatus—shore fisheries—Cont'd.					
Tonnage.....	9,110		9,087			Pound nets.....	862	\$162,295	801	\$165,090
Outfit.....		172,549		169,933		Fyke nets.....	335	5,585	339	5,770
Vessels transporting.....	211	246,705	214	211,695		Weirs.....	50	1,000	50	1,000
Tonnage.....	5,124		5,084			Minor nets.....	889	442	888	442
Outfit.....		29,280		29,068		Lines.....		3,396		3,432
Boats.....	9,153	457,038	9,247	463,722		Pots, eel.....	110	95	110	95
Apparatus—vessel fisheries:						Spears.....	15	10	15	10
Seine.....	42	26,250	41	25,650		Tongs, rakes, and nippers.....	10,694	49,726	10,756	50,263
Lines.....		10		30		Dredges.....	182	3,995	198	4,640
Dredges.....	470	18,480	460	18,210		Shore and accessory property.....		664,095		717,787
Tongs.....	1,324	6,323	1,367	6,482		Cash capital.....		444,800		467,500
Apparatus—shore fisheries:						Total.....	2,871,376		2,948,659	
Seine.....	172	30,615	178	32,470						
Gill nets.....	5,702	45,587	5,979	46,030						

*Products of the fisheries of Virginia.*

Species.	1890.		1891.		Species.	1890.		1891.	
	Pounds.	Value.	Pounds.	Value.		Pounds.	Value.	Pounds.	Value.
Alewives.....	10,641,698	\$91,674	11,013,485	\$93,905	Shad.....	7,266,207	\$228,897	6,468,242	\$207,304
Black bass.....	7,500	450	7,000	430	Sheepshead..	22,775	1,260	23,871	1,344
Bluefish.....	1,471,671	57,195	1,842,264	67,545	Spanish mackrel.....	648,793	47,161	739,910	50,756
Butter-fish.....	138,753	3,442	120,000	2,900	Spots.....	451,473	25,426	650,157	25,275
Carp.....	8,735	385	13,370	576	Squeteague..	072,304	130,740	3,929,899	124,645
Catfish.....	930,902	27,833	935,244		Striped bass..	529,159	47,202	483,436	42,127
Cobia or crab-eater.....	194,537	4,798	195,250	4,948	Sturgeon.....	817,670	24,514	723,046	21,364
Croakers.....	1,124,525	38,645	1,075,690	36,847	Suckers.....	118,067	3,190	116,364	8,153
Drum.....	186,950	4,154	179,502	4,011	Other fish.....	1,602,036	41,247	1,514,657	38,675
Eels.....	71,930	3,019	71,619	2,907	Crabs, hard....	2,584,794	28,210	2,308,071	32,683
Flounders.....	126,135	4,209	127,295	4,109	Crabs, soft....	440,340	20,054	585,956	29,379
Kingfish and whiting.....	168,056	7,920	149,665	7,097	Crawfish.....				833
Menhaden.....	107,341,713	209,588	105,980,334	197,523	Oysters.....	42,518,174	2,482,348	43,134,602	2,524,348
Mullet.....	104,500	2,555	110,700	2,796	Quahogs or hard clams..	551,888	36,815	559,278	36,030
Perch, white.....	306,521	12,445	299,613	12,010	Frogs.....	20,232	2,055	21,000	2,754
Perch, yellow.....	184,493	7,420	169,020	6,799	Terrapins.....	52,519	19,066	52,215	18,494
Pike.....	16,558	1,039	12,415	795	Turtles.....	203,928	4,270	189,121	3,994
Pompano.....	86,246	8,466	93,700	9,520	Total.....	185,282,705	3,636,351	183,993,834	3,647,845
Sea bass.....	61,323	2,044	66,310	2,270					

In the following supplementary table the quantities of certain products shown in the foregoing table are given on another basis than pounds:

Species.	1890.	1891.
Oysters.....bushels..	6,074,025	6,162,086
Clams.....do.....	66,486	69,910
Crabs, hard.....number..	7,754,382	6,924,213
Crabs, soft.....do.....	1,321,020	1,757,868
Crawfish.....do.....		11,196
Frogs.....do.....	40,464	42,000
Terrapins.....do.....	26,259	26,103

*Statistics of the fisheries in each county.*—Thirty-four counties in Virginia have commercial fisheries, and the extent of the industry in each of these is shown in the tables which follow.

Norfolk County, with its extensive oyster business, leads in the number of persons employed, having 3,653 in 1891, of which 1,821 were shoresmen. Accomac County ranks next, with 3,633, but surpasses Norfolk County in the number of vessel and

shore fishermen. Lancaster and Middlesex counties have between 2,000 and 3,000 persons, and Elizabeth City, Gloucester, Mathews, and Northumberland counties are credited with over 1,000 persons each.

Norfolk County also has the largest capital invested in the fishing industry. In 1891 this amounted to \$707,881, of which, however, \$518,250 represented shore property and cash capital. Accomac County, with an investment of \$493,553, has much the largest amount devoted to actual fishing. In the items of vessels and seines this county also has the first place. Northumberland County has the largest number of pound nets, James City of gill nets, and York of fyke nets.

The value of the fisheries of Accomac County is about twice that of any other county in Virginia, except Lancaster. In 1891 it was \$731,613, of which \$568,410 represented the sale of oysters and \$43,055 menhaden, the next important product. Lancaster County fishermen took fish and oysters to the value of \$496,010, of which \$351,370 accrued from the oyster fishery and \$79,893 from the menhaden fishery. The fisheries of Norfolk County yielded \$245,807, of which \$228,400 was the value of the oyster output. Elizabeth City County exceeded Norfolk in the aggregate value of the fisheries, having \$306,495 to its credit, although the oyster yield was only \$168,988. The value of the products taken in the fisheries of Northumberland County was \$250,116, oysters constituting \$120,160. In Middlesex County, the fishing industry gave an income of \$244,060, including \$231,560 worth of oysters. The fisheries of Northampton County were worth \$236,955, the value of the oysters being \$167,756.

Statement by counties of the number of persons employed in the fisheries of Virginia.

Counties.	On fishing ves- sels.		On transport- ing vessels.		In shore fish- eries.		On shore, in fish houses, etc.		Total.	
	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.	1890.	1891.
Accomac.....	1,393	1,300	124	113	1,812	1,037	217	283	3,546	3,693
Alexandria.....			35	37	122	138			157	175
Caroline.....					22	32			22	32
Charles City.....					228	228			228	228
Chesterfield.....					75	75			75	75
Dinwiddie.....					25	25			25	25
Elizabeth City.....	130	143	12	10	539	539	298	303	979	1,001
Essex.....			8	5	369	309		25	977	429
Fairfax.....					206	217			206	217
Gloucester.....	121	129	71	68	872	872			1,004	1,009
Hanover.....					62	62			62	62
Henrico.....	8	8			40	40			48	48
Isle of Wight.....	69	07			378	378	10	10	463	461
James City.....					174	181			174	181
King and Queen.....			4	4	226	227			230	231
King George.....					154	154			154	154
King William.....	16	20	14	14	238	240	33	19	301	293
Lancaster.....	132	123	16	10	2,421	2,436	171	166	2,740	2,735
Mathews.....	65	49	110	109	949	930			1,124	1,088
Middlesex.....	14	14	38	37	1,861	1,885	185	197	2,098	2,133
Nansemond.....	132	140	10	10	370	370	105	105	623	631
New Kent.....			9	9	196	196			205	205
Norfolk.....	818	805	143	141	860	886	1,433	1,821	3,254	3,653
Northampton.....	89	120	33	44	490	523	10	33	631	720
Northumberland.....	275	299	37	43	994	989	183	183	1,489	1,514
Prince George.....					97	97			97	97
Princess Anne.....					221	221	45	45	266	266
Prince William.....					73	77			73	77
Richmond.....	15	15	10	13	476	481	16	56	517	565
Stafford.....					139	139			139	139
Surry.....					48	48			48	48
Warwick.....	46	49	3	3	170	170	8	8	227	230
Westmoreland.....	80	113	18	14	456	461			563	588
York.....	215	209	9	9	374	374			598	592
Total.....	3,627	3,603	710	705	15,737	16,027	2,720	3,260	22,803	23,595

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Virginia.

Designation.	Accomac.				Alexandria.				Caroline.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	249	\$233,370	235	\$219,800								
Tonnage .....	3,496		3,292									
Outfit .....		55,451		50,775								
Vessels transporting .....	34	66,090	32	54,320	12	\$11,200	13	\$12,200				
Tonnage .....	1,187		1,061		179		193					
Outfit .....		8,803		7,705		1,750		1,850				
Boats .....	1,222	68,124	1,273	73,052	43	2,275	50	2,655	19	\$195	21	\$225
Apparatus—vessel fisheries:												
Seinees .....	14	8,900	15	9,400								
Dredges .....	328	11,480	310	10,850								
Tongs .....	148	1,485	150	1,500								
Apparatus—shore fisheries:												
Seinees .....	68	1,865	70	1,940	2	2,000	3	2,500	1	1,200	2	2,400
Pound nets .....	26	2,850	29	3,250	2	200	2	200	4	800	4	800
Gill nets .....	155	930	165	990	35	2,625	37	2,775	20	400	20	400
Fyke nets .....	4	80	3	60								
Miscellaneous nets .....	20	10	19	10								
Lines .....		203		201								
Spears .....	15	10	15	10								
Dredges .....	154	2,670	170	3,315								
Tongs, rakes, and nippers .....	1,399	6,720	1,470	7,313								
Shore property .....		37,170		40,002		275		225				
Cash capital .....		13,500		13,000								
Total .....		514,711		498,553		20,325		22,405		2,595		3,825

  

Designation.	Charles City.				Chesterfield.				Dinwiddie.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Boats .....	115	\$1,544	115	\$1,544	85	\$1,275	85	\$1,275	15	\$225	15	\$225
Apparatus—shore fisheries:												
Seinees .....	0	1,855	6	1,855	3	1,050	3	1,050	4	600	4	600
Gill nets .....	135	4,660	135	4,660	625	1,875	625	1,875	15	375	15	375
Lines .....		40		40								
Shore property .....		1,600		1,600		500		500				
Total .....		9,699		9,699		4,700		4,700		1,200		1,200

  

Designation.	Elizabeth City.				Essex.				Fairfax.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing .....	21	\$11,375	24	\$12,575								
Tonnage .....	288		323									
Outfit .....		7,927		8,488								
Vessels transporting .....	4	4,300	5	5,000	3	\$750	2	\$350				
Tonnage .....	84		111		37		15					
Outfit .....		290		360		193		106				
Boats .....	297	20,680	299	20,720	285	5,227	290	5,282	55	\$5,775	59	\$5,895
Apparatus—vessel fisheries:												
Seinees .....	3	1,950	3	1,950								
Dredges .....	32	1,600	34	1,700								
Tongs .....	75	300	81	324								
Apparatus—shore fisheries:												
Seinees .....	6	1,200	6	1,200	1	150	1	150	2	7,500	2	7,500
Pound nets .....	71	16,150	73	16,500	30	4,500	30	4,500	17	1,775	23	2,335
Gill nets .....					640	2,623	721	2,698	27	2,700	27	2,700
Fyke nets .....	4	200	4	200	15	225	18	270				
Lines .....		1,375		1,375		55		55				
Pots .....					10	20	10	20				
Tongs, rakes, and nippers .....	450	1,800	450	1,800	224	896	224	896				
Shore property .....		92,025		95,825		1,000		1,800		86,865		86,865
Cash capital .....		78,000		80,000				4,000				
Total .....		239,172		248,017		15,639		20,127		54,615		55,295

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Virginia—Continued.

Designation.	Gloucester.				Hanover.				Henrico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	38	\$19,550	38	\$23,740					1	\$1,000	1	\$1,000
Tonnage	302		437						15		15	
Outfit		5,544		6,029						357		357
Vessels transporting	19	30,100	19	29,200								
Tonnage	602		575									
Outfit		3,254		3,117								
Boats	527	30,055	527	30,055	31	\$475	31	\$475	30	300	30	300
Apparatus—vessel fisheries:												
Tongs	92	368	98	392					6	24	6	24
Apparatus—shore fisheries:												
Seines	20	665	20	665					1	300	1	300
Pound nets	96	18,900	98	18,900								
Gill nets	110	530	110	530	65	1,300	65	1,300	50	1,500	50	1,500
Fyke nets	28	475	38	475								
Weirs									50	1,000	50	1,000
Miscellaneous nets	40	20	40	20								
Lines		40		40								
Tongs, rakes, and nippers	616	2,358	616	2,358								
Shore property		6,725		6,725		700		900				
Total		118,584		122,246		2,475		2,675		4,481		4,481

Designation.	Isle of Wight.				James City.				King and Queen.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	21	\$6,500	20	\$6,400								
Tonnage	180		171									
Outfit		3,964		3,719								
Vessels transporting									1	\$1,500	1	\$1,500
Tonnage									43		43	
Outfit										135		135
Boats	197	8,995	197	8,995	90	\$3,729	90	\$3,729	107	2,635	107	2,635
Apparatus—vessel fisheries:												
Tongs	52	208	48	192								
Apparatus—shore fisheries:												
Seines	1	60	2	100	1	80	1	80	2	500	2	500
Gill nets	156	886	156	886	869	2,105	869	2,105	347	2,625	347	2,625
Fyke nets	28	420	28	420	60	675	60	675	18	225	18	225
Lines		375		375								
Pots	100	75	100	75								
Tongs, rakes, and nippers	202	808	202	808	84	336	84	336	80	320	80	320
Shore property		13,900		13,900		1,050		1,050		4,680		4,680
Total		36,191		35,870		7,975		7,975		12,620		12,620

Designation.	King George.				King William.				Lancaster.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing					5	\$2,900	6	\$3,500	11	\$32,050	12	\$29,000
Tonnage					40		49		351		319	
Outfit						1,039		1,248		11,320		7,880
Vessels transporting					4	2,400	4	3,800	5	4,000	3	2,200
Tonnage					54		75		153		103	
Outfit						571		598		886		470
Boats	79	\$1,755	80	\$1,805	119	1,905	119	1,905	1,422	88,700	1,422	89,055
Apparatus—vessel fisheries:												
Seines									23	7,900	11	6,800
Dredges									2	100	2	100
Tongs					12	48	13	52	6	24	11	70
Apparatus—shore fisheries:												
Seines	3	900	3	900								
Pound nets	66	8,970	68	9,105	1	240	1	240	93	12,900	93	12,900
Gill nets	80	1,600	80	1,600	245	4,900	245	4,900				
Miscellaneous nets										80		80
Lines						144		144				
Tongs, rakes, and nippers					12	48	12	48	1,083	7,512	1,083	7,512
Shore property						5,690		3,390		52,050		52,650
Cash capital						3,500		5,800		78,000		69,000
Total		13,225		13,500		23,685		25,625		290,081		278,326

Statement by counties of the vessels, boats, apparatus, shore property, and cash capital employed in the fisheries of Virginia—Continued.

Designation.	Mathews.				Middlesex.				Nansemond.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	16	\$6,200	15	\$6,000	5	\$2,350	5	\$2,350	32	\$18,000	35	\$15,600
Tonnage	171		162		40		40		328		349	
Outfit		3,817		3,878		654		604		7,823		8,166
Vessels transporting	30	32,000	30	32,100	10	11,900	10	11,900	8	3,800	8	3,800
Tonnage	747		745		303		303		68		68	
Outfit		4,588		4,588		1,350		1,307		755		755
Boats	788	38,175	783	38,100	827	39,650	827	39,650	209	11,430	209	11,430
Apparatus—vessel fisheries:												
Seines	2	1,300	2	1,300								
Lines				10								
Dredges	6	300	2	100								
Tongs	28	112	29	116	10	40	10	40	94	370	99	396
Apparatus—shore fisheries:												
Seines	12	180	12	180								
Pound nets	96	16,800	87	15,225	25	4,250	24	4,100	1	200	1	200
Gill nets	25	125	25	125								
Fyke nets									8	400	8	400
Miscellaneous nets		50		50								
Tongs, rakes, and nippers	808	4,322	808	4,322	1,506	10,264	1,506	10,264	350	1,400	350	1,400
Shore property		800		650		7,900		10,500		10,600		10,000
Cash capital						16,800		16,900		20,000		20,000
Total		108,769		106,744		95,104		97,615		74,184		72,147

  

Designation.	New Kent.				Norfolk.				Northampton.				
	1890.		1891.		1890.		1891.		1890.		1891.		
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	
Vessels fishing					164	\$67,395	161	\$66,695	29	\$15,610	32	\$16,870	
Tonnage					1,537		1,495		298		316		
Outfit						45,223		44,358		2,350		3,425	
Vessels transporting	2	\$6,500	2	\$6,500	41	38,900	41	35,900	13	11,810	18	15,825	
Tonnage	110		110		801		777		200		258		
Outfit		284		354		6,631		6,666		1,650		1,750	
Boats	117	1,583	117	1,583	442	30,685	433	29,415	302	18,105	332	19,990	
Apparatus—vessel fisheries:													
Seines								20		1	700	1	700
Lines					2	100			4	190	6	270	
Dredges					524	2,136	522	2,088	62	310	88	440	
Tongs													
Apparatus—shore fisheries:													
Seines	4	775	4	775	2	800	2	800	6	1,200	6	1,200	
Pound nets									21	19,115	22	19,840	
Gill nets	623	2,249	623	2,249									
Fyke nets	10	125	10	125					14	1,120	16	1,280	
Lines						400		425		215		228	
Tongs, rakes, and nippers	17	65	18	70	835	3,340	816	3,204	473	1,445	502	1,540	
Shore property		2,100		2,095		282,950		328,750		4,360		4,325	
Cash capital						168,000		189,500		5,000		500	
Total		13,681		13,751		646,570		707,881		83,180		88,183	

  

Designation.	Northumberland.				Prince George.				Princess Anne.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	30	\$40,650	44	\$47,650								
Tonnage	836		930									
Outfit		11,273		14,865								
Vessels transporting	13	13,550	15	16,050								
Tonnage	270		323									
Outfit		1,501		1,614								
Boats	568	25,822	565	25,958	56	\$745	56	\$745	101	\$2,090	101	\$2,090
Apparatus—vessel fisheries:												
Seines	9	5,500	9	5,500								
Dredges	66	3,260	70	3,460								
Tongs	2	8	4	16								
Apparatus—shore fisheries:												
Seines	2	200	2	200	2	300	2	300	11	3,125	11	3,125
Pound nets	120	19,425	130	20,730					7	10,500	7	10,500
Gill nets					74	2,795	74	2,795	13	445	13	445
Miscellaneous nets		247		247		30		30				
Lines		150		150						75		75
Dredges	2	90	2	90								
Tongs, rakes, and nippers	566	2,699	536	2,619					50	75	50	75
Shore property		38,680		38,880		1,400		1,400		42,300		42,300
Cash capital		49,500		49,500						4,000		4,000
Total		212,555		227,529		5,270		5,270		62,610		62,610



Statement by counties of the vessels, boats, apparatus, shore property, and cash capital, etc.—Continued.

Designation.	Prince William.				Richmond.				Stafford.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing					6	\$2,500	6	\$2,500				
Tonnage					51		51					
Outfit						774		666				
Vessels transporting					4	1,655	4	5,600				
Tonnage					51		111					
Outfit						365		550				
Boats	37	\$1,355	30	\$1,455	283	9,174	283	8,804	39	\$3,325	41	\$3,385
Apparatus—vessel fisheries:												
Tongs					14	88	12	48				
Apparatus—shore fisheries:												
Seines									2	4,000	2	4,000
Pound nets	14	1,750	18	2,250	40	6,000	40	6,000	28	1,960	35	2,450
Gill nets	20	2,500	20	2,500	701	1,195	741	1,235	22	2,750	22	2,750
Fyke nets					6	90	6	90				
Tongs, rakes, and nippers					360	1,440	360	1,440				
Shore property						3,500		3,500		2,775		2,775
Cash capital						8,000		15,000				
<b>Total</b>		<b>5,605</b>		<b>6,205</b>		<b>34,781</b>		<b>45,523</b>		<b>14,810</b>		<b>15,360</b>

  

Designation.	Surry.				Warwick.				Westmoreland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing					10	\$3,700	11	\$3,850	15	\$6,850	18	\$7,650
Tonnage					153		165		195		268	
Outfit						2,721		2,894		2,403		3,051
Vessels transporting					1	300	1	300	5	3,160	4	2,850
Tonnage					10		10		140		124	
Outfit						50		50		831		656
Boats	23	\$650	23	\$650	83	4,880	83	4,880	246	9,742	251	9,912
Apparatus—vessel fisheries:												
Dredges									30	1,450	36	1,730
Tongs					36	144	38	152				
Apparatus—shore fisheries:												
Seines	1	110	1	75							1	75
Pound nets					3	900	3	900	79	11,860	82	12,100
Gill nets	620	1,414	770	1,532					24	480	24	480
Miscellaneous nets										5		5
Lines		40		40		119		119		15		15
Dredges									26	1,235	26	1,235
Tongs, rakes, and nippers					128	512	128	512	283	1,415	283	1,415
Shore property		509		500		10,855		10,855				
Cash capital						200		300				
<b>Total</b>		<b>2,714</b>		<b>2,797</b>		<b>24,381</b>		<b>24,812</b>		<b>38,936</b>		<b>40,674</b>

  

Designation.	York.				Total for State.			
	1890.		1891.		1890.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	68	\$33,100	66	\$32,000	730	\$503,100	729	\$498,440
Tonnage	739		715		9,110		9,087	
Outfit		9,900		9,521		172,549		169,933
Vessels transporting	2	2,800	2	2,800	211	246,705	214	241,695
Tonnage	80		80		5,124		5,084	
Outfit		437		437		29,280		29,068
Boats	204	15,758	204	15,758	9,153	457,038	9,247	463,722
Apparatus—vessel fisheries:								
Seines					42	26,250	41	25,050
Lines						10		30
Dredges					470	18,480	460	18,210
Tongs	163	652	158	632	1,324	6,323	1,367	6,482
Apparatus—shore fisheries:								
Seines					172	30,615	178	32,470
Pound nets	22	2,750	23	2,875	862	162,295	891	165,990
Gill nets					5,702	45,587	5,079	46,030
Fyke nets	124	1,550	124	1,550	335	5,585	339	5,770
Weirs					50	1,000	50	1,000
Miscellaneous nets						442		442
Lines		150		150		3,396		3,432
Pots					110	95	110	95
Spears					15	10	15	10
Dredges					182	3,995	198	4,640
Tongs, rakes and nippers	578	1,951	578	1,951	10,694	49,726	10,766	50,263
Shore property		1,145		1,145		664,095		717,787
Cash capital						444,800		467,500
<b>Total</b>		<b>70,193</b>		<b>69,410</b>		<b>2,871,376</b>		<b>2,948,659</b>

Statement by counties and species of the yield of the fisheries of Virginia.

Species.	Accomac.				Alexandria.				Caroline.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	380,000	\$1,890	310,000	\$1,520	330,000	\$2,550	389,000	\$3,895	23,840	\$239	25,500	\$255
Bluefish .....	245,100	10,592	400,500	16,100								
Carp .....					800	32	1,400	58				
Catfish .....					13,730	403	9,820	285	10,040	305	12,600	380
Cobia or crab-eater .....												
Croakers .....	15,800	510	16,900	540								
Drum .....	64,080	2,055	64,710	2,052								
Eels .....	75,490	1,663	75,220	1,780								
Flounders .....	25,400	850	20,500	855					830	35	1,160	53
Kingfish and whiting .....	37,580	1,231	41,785	1,380								
Menhaden .....	29,785	675	33,580	785								
Mullet .....	33,458,700	59,389	25,155,700	43,055								
Perch .....	62,500	1,250	68,000	1,380	10,404	753	5,922	310	9,070	480	10,500	525
Pompano .....	15,000	450	18,500	555								
Sea bass .....	9,850	815	11,500	860								
Shad .....	14,360	621	15,000	680								
Sheepshead .....	93,030	3,850	104,125	4,243	258,300	6,990	254,500	6,275	27,815	795	22,575	645
Spanish mackerel .....	7,045	415	8,080	508								
Spots .....	190,420	10,060	183,150	9,090								
Squeteague .....	121,900	4,020	125,950	4,020								
Striped bass .....	545,340	20,760	610,640	22,010								
Sturgeon .....	12,310	1,205	17,000	1,470	9,016	991	4,200	403	500	50	1,000	100
Suckers .....	1,170	30	1,315	40								
Other fish .....	880	25	1,000	30	6,020	180	2,010	60	2,145	58	2,000	55
Oysters .....	264,590	6,231	277,264	6,360	1,240	41	1,938	82	10,860	307	15,710	400
Quahogs (hard clams) .....	9,514,288	612,713	9,178,505	508,410								
Crabs, hard .....	280,368	18,915	291,160	19,035								
Crabs, soft .....	93,333	840	86,666	780								
Terrapins .....	305,200	14,475	450,916	18,015								
Total .....	11,070	5,690	9,930	5,480	635,600	11,850	669,510	11,368	85,700	2,269	91,045	2,413

  

Species.	Elizabeth City.				Essex.				Fairfax.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	151,130	\$1,511	106,000	\$1,060	168,200	\$1,682	127,800	\$1,278	807,659	\$5,852	317,576	\$3,049
Bluefish .....	153,280	7,383	114,170	5,385								
Carp .....									1,335	60	3,845	151
Catfish .....					118,400	3,484	94,780	2,888	40,000	1,320	95,085	2,901
Cobia or crab-eater .....												
Croakers .....	24,333	486	18,250	365								
Drum .....	481,870	14,458	429,350	12,880								
Eels .....	71,905	1,815	61,282	1,541								
Flounders .....	8,500	350	7,320	290	5,300	225	5,108	220	2,000	120	1,568	94
Kingfish and whiting .....	42,880	1,340	44,000	1,235	300	12	200	8				
Menhaden .....	65,300	1,960	53,000	1,590								
Mullet .....	12,579,000	21,253	11,412,000	19,224								
Perch .....	12,000	240	8,500	170								
Pompano .....	5,250	157	4,500	135	26,450	1,288	20,700	1,029	16,945	816	29,180	1,327
Sea bass .....	49,600	4,060	37,200	3,720								
Shad .....	13,240	410	15,000	490								
Sheepshead .....	598,111	20,506	428,165	14,680	227,552	6,496	178,500	5,007	478,495	14,218	342,504	10,942
Spanish mackerel .....	10,933	521	7,960	420								
Spots .....	155,332	15,533	116,500	11,650								
Squeteague .....	300,125	9,183	305,500	9,165								
Striped bass .....	1,019,130	30,584	999,750	29,993	26,400	1,320	19,500	990				
Sturgeon .....	16,400	1,640	12,400	1,240	52,850	4,565	45,300	3,726	9,035	765	11,920	967
Suckers .....	298,660	8,900	224,000	6,720	16,500	330	5,500	110	770	30	110	4
Other fish .....	2,000	40	3,000	60	4,365	110	3,450	93	11,365	341	12,600	377
Oysters .....	137,180	2,724	97,940	2,073	23,535	766	16,969	568	7,800	370	8,610	131
Quahogs (hard clams) .....	2,712,220	173,005	2,874,480	168,988	282,500	15,000	315,000	15,000				
Crabs, hard .....	4,000	3,000	29,088	2,000								
Crabs, soft .....	1,057,250	6,766	679,375	8,096								
Crawfish .....											833	75
Turtles .....	156,250	3,125	136,250	2,725								
Total .....	20,167,046	331,910	18,224,980	306,405	932,352	35,278	832,805	31,007	1,375,404	23,892	818,831	20,678

Statement by counties and species of the yield of the fisheries of Virginia—Continued.

Species.	Charles City.				Chesterfield.				Dinwiddie.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	300,961	\$2,521	299,654	\$2,510	395,000	\$3,000	360,000	\$2,650	44,600	\$96	40,000	\$90
Catfish .....	15,300	460	16,500	495	27,800	570	26,500	542				
Perch .....	32,384	1,092	28,315	964	65,000	1,950	62,000	1,700				
Pike .....	5,006	336	1,532	92	3,810	230	2,965	180				
Shad .....	400,267	10,942	319,581	9,228	109,375	2,812	76,562	1,868	42,234	1,086	37,334	960
Striped bass .....	17,924	1,695	14,522	1,400	5,000	500	4,000	400				
Sturgeon .....	38,701	1,281	34,520	993								
Other fish .....	221,078	5,073	201,541	4,667	123,390	2,620	109,535	2,258	11,600	219	11,100	209
Turtles .....	530	11	600	13								
Total .....	1,032,751	23,411	916,825	20,371	729,375	11,082	641,562	9,658	98,434	1,401	88,434	1,259

  

Species.	Gloucester.				Hanover.				Henrico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	455,500	\$4,555	455,500	\$4,555					314,500	\$2,645	350,000	\$2,700
Bluefish .....	55,500	1,600	57,600	1,728								
Catfish .....	5,000	150	5,400	162					9,960	212	8,800	182
Cobia or crab-eater .....	50,000	1,000	45,000	900								
Croakers .....	44,400	1,332	44,300	1,329								
Drum .....	8,000	320	8,500	340								
Flounders .....	3,200	160	4,200	210								
Kingfish and whiting .....	20,000	600	15,000	450								
Menhaden .....	500,000	1,000	500,000	1,000								
Mullet .....	15,000	375	18,000	450								
Perch .....	4,100	164	2,900	116					49,540	1,488	52,000	1,500
Pompano .....	25,000	2,500	23,000	2,300								
Shad .....	499,100	14,952	529,084	15,888	81,900	\$2,457	65,520	\$1,966	17,630	455	18,200	469
Spanish mackerel .....	25,000	2,500	35,000	3,500								
Spots .....	17,600	628	24,400	912								
Squeteague .....	116,600	3,498	111,800	3,354								
Striped bass .....	1,850	185	1,650	165					3,000	200	2,000	200
Sturgeon .....	75,000	1,875	78,000	1,950								
Suckers .....									22,985	500	24,200	528
Other fish .....	53,000	840	58,000	945					115,000	2,538	115,500	2,425
Oysters .....	2,463,510	159,565	2,453,717	144,583					35,000	2,450	35,000	2,250
Quahogs (hard clams) .....	20,320	1,270	20,256	1,266								
Crabs, hard .....	114,000	850	120,000	1,000								
Terrapins .....	16,113	8,692	15,280	8,152								
Turtles .....	15,000	450	19,000	492								
Total .....	4,692,793	209,241	4,645,587	195,717	81,900	2,457	65,520	1,966	567,615	10,488	605,700	10,314

  

Species.	Isle of Wight.				James City.				King and Queen.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	5,000	\$50	3,500	\$35	20,328	\$183	18,271	\$165	78,300	\$780	65,250	\$652
Catfish .....	16,850	811	14,300	682	6,288	189	5,753	170	26,620	797	22,956	679
Croakers .....	125,000	5,000	122,000	4,880	7,005	292	7,995	318				
Drum .....	1,875	93	1,500	75								
Eels .....	3,125	312	2,500	250								
Menhaden .....	150,000	350	150,000	350								
Mullet .....	8,000	480	9,000	540								
Perch .....	40,075	2,372	34,440	2,020	24,385	930	20,627	776	25,648	826	21,172	675
Pike .....					1,206	72	1,155	69				
Shad .....	196,875	8,437	157,500	6,750	132,181	3,855	113,498	3,480	178,920	5,332	142,618	4,251
Sheepshead .....	3,125	187	2,500	150								
Spots .....	17,750	712	15,500	590								
Squeteague .....	40,377	1,531	33,500	1,285	9,000	800	8,199	327				
Striped bass .....	69,500	6,950	59,000	5,900	13,872	1,295	12,318	1,154	7,682	749	7,551	775
Sturgeon .....					81,525	3,076	64,060	2,251				
Suckers .....	3,840	115	4,120	120	17,838	485	14,556	432	18,538	394	12,968	360
Other fish .....	26,210	947	27,640	1,005	18,600	551	13,771	399	8,660	170	7,000	160
Oysters .....	821,030	42,742	780,549	41,013	122,500	7,300	126,000	7,500	52,500	3,000	52,150	3,080
Turtles .....					302	7	400	9				
Total .....	1,528,632	71,089	1,414,549	65,345	455,090	18,585	406,063	17,056	391,868	12,048	331,965	10,632

Statement by counties and species of the yield of the fisheries of Virginia—Continued.

Species.	King George. ✓				King William.				Lancaster.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	788,895	\$8,891	627,163	\$7,511	20,000	\$200	25,000	\$250	618,000	\$4,215	620,225	\$4,202
Bluefish .....									73,537	4,438	80,000	4,600
Carp .....	1,100	55	1,260	63								
Catfish .....	15,150	447	19,026	605	89,700	2,745	87,920	2,638				
Croakers .....									17,800	715	16,320	662
Eels .....	4,060	167	4,230	165								
Flounders .....									11,140	340	10,080	310
Menhaden .....									29,700,000	70,995	40,740,000	70,893
Perch .....	16,800	840	19,700	985								
Shad .....	237,580	6,788	215,654	5,795	314,884	9,421	252,210	7,544	606,665	24,091	610,750	24,480
Spanish mackerel .....									12,000	960	10,000	800
Spots .....									14,716	1,177	14,000	1,120
Squeteague .....									374,142	15,729	373,867	15,685
Striped bass .....	36,160	2,980	22,140	1,788	7,680	768	8,575	858				
Sturgeon .....	2,185	68	1,880	57					49,441	2,180	47,425	1,985
Suckers .....	8,510	255	9,390	282								
Other fish .....	65,445	3,888	74,880	3,875					126,505	3,047	120,600	2,903
Oysters .....					128,100	7,450	130,900	6,770	5,380,500	287,760	5,286,400	351,370
Crabs, hard .....	4,200	30	4,160	32	13,800	69	15,300	77				
Crabs, soft .....									81,440	8,144	80,000	8,000
Frogs .....	4,032	605	4,050	608								
Total .....	1,184,117	24,514	1,003,527	21,766	574,164	20,653	519,905	18,137	37,010,886	423,791	48,009,667	496,010

Species.	Mathews.				Middlesex.				Nansemond.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	553,400	\$5,534	538,800	\$4,388	304,625	\$2,916	270,000	\$2,610	4,450	\$128	4,000	\$120
Bluefish .....	158,000	4,700	175,000	5,250								
Cobia or crab-eater .....	85,000	2,550	95,000	2,850					9,550	392	10,000	400
Croakers .....												
Menhaden .....	550,000	1,100	462,534	924								
Mullet .....	7,000	210	7,200	216								
Perch .....									1,000	40	800	32
Shad .....	651,000	19,530	588,000	17,540	181,250	3,750	108,500	3,100	1,655	84	1,575	81
Spanish mackerel .....	15,000	1,500	15,300	1,530								
Spots .....	3,500	105	3,000	90	9,164	366	9,125	700				
Squeteague .....	247,300	7,419	224,746	6,744	100,414	5,018	95,009	4,750	12,600	505	10,000	400
Striped bass .....					2,828	282	2,450	245	7,080	580	6,700	550
Sturgeon .....	147,000	2,940	130,500	2,610	10,332	310	10,000	300				
Other fish .....	59,000	1,770	44,500	1,335	22,500	675	26,250	785	2,700	108	2,500	100
Oysters .....	2,211,850	141,615	2,478,350	141,620	4,079,600	216,870	3,906,700	231,560	1,622,600	89,855	1,629,600	89,855
Quahogs (hard clams) .....	42,000	3,000	51,200	3,200								
Crabs, soft .....	19,200	1,200	14,400	900								
Terrapins .....	936	534	1,080	680								
Turtles .....	25,000	500	26,500	530								
Total .....	4,775,180	194,207	4,856,104	190,387	4,660,713	230,187	4,428,025	244,060	1,661,035	91,692	1,665,175	91,038

Species.	Prince William. ✓				Richmond.				Stafford. ✓			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	62,000	\$610	79,200	\$790	193,750	\$1,988	150,000	\$1,500	1,264,160	\$10,889	1,053,300	\$9,745
Carp .....	2,100	68	1,980	64					2,800	140	4,175	208
Catfish .....	2,050	66	2,710	92	119,750	3,665	94,250	2,907	9,800	392	19,700	591
Eels .....	1,500	60	1,820	70	4,980	180	4,205	150	2,785	140	2,430	120
Perch .....	7,315	284	7,865	286	29,812	1,491	21,750	1,088	34,285	1,410	37,242	1,575
Pike .....									3,920	280	4,820	337
Shad .....	102,620	2,932	84,400	2,360	183,312	5,237	134,575	3,845	64,400	1,990	55,290	1,805
Squeteague .....					32,500	1,950	24,375	1,462				
Striped bass .....	8,649	668	9,490	738	63,000	6,300	52,150	5,215	7,600	750	7,000	700
Sturgeon .....									150	5		
Suckers .....	520	16	720	21	2,175	52	1,845	43	2,346	72	1,955	59
Other fish .....	3,526	106	4,035	139	27,550	882	20,390	682	5,560	185	6,900	247
Oysters .....					941,800	48,680	851,200	55,250				
Frogs .....	15,000	1,875	15,600	1,950					600	75	690	86
Total .....	205,280	6,685	207,820	6,510	1,603,629	70,375	1,354,800	72,142	1,398,406	16,328	1,193,412	15,478

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties and species of the yield of the fisheries of Virginia—Continued.

Species.	New Kent.				Norfolk.				Northampton.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	121,992	\$1,172	104,986	\$1,007					367,500	\$1,029	1,269,000	\$3,340
Bluefish .....					97,900	\$3,350	137,280	\$4,640	201,133	5,841	427,640	13,161
Catfish .....	20,450	614	17,623	533								
Cobia or crab-eater .....									19,404	352	20,100	293
Croakers .....					82,000	2,800	73,650	2,459	35,000	1,000	31,360	895
Drum .....									29,680	263	33,000	275
Eels .....									2,360	70	1,700	50
Flounders .....									2,835	36	3,420	45
Kingfish and whiting .....					10,000	1,000	7,000	700	4,971	125	3,895	103
Menhaden .....									237,213	472	230,000	460
Perch .....	25,142	748	22,210	666								
Pike .....	2,916	121	1,043	117								
Pompano .....									1,796	101	22,000	2,640
Sea bass .....									31,723	913	34,210	995
Shad .....	196,154	5,714	162,431	4,729					78,760	2,207	55,475	2,597
Sheepshead .....									572	43	3,400	170
Spanish mackerel .....									163,590	7,933	286,000	14,300
Spots .....					51,015	4,050	46,980	3,729	16,488	468	13,320	375
Squeteague .....					255,775	6,175	218,650	5,969	429,783	6,418	306,532	5,858
Striped bass .....	11,946	1,105	9,607	894					33,230	1,487	55,200	2,760
Sturgeon .....	4,754	190	4,280	171					2,100	18	1,950	20
Suckers .....	1,460	44	1,760	53								
Other fish .....	83,793	2,513	69,327	2,076					24,549	548	16,765	378
Oysters .....	48,300	2,587	50,400	2,700	4,051,677	233,540	4,013,415	228,400	2,599,228	125,774	3,627,792	187,756
Quahogs (hard clams) .....									65,280	4,135	63,936	4,049
Crabs, hard .....									540,166	13,450	633,430	15,735
Terrapins .....									2,000	800	1,600	700
Turtles .....	1,780	36	1,251	45								
Total .....	517,793	14,844	445,818	12,991	4,548,367	250,915	4,496,975	245,897	4,880,359	173,453	7,141,725	236,955

  

Species.	Northumberland. ✓				Prince George.				Princess Anne.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	1,406,238	\$14,162	2,108,085	\$21,064	151,370	\$1,249	144,675	\$1,197				
Bluefish .....	51,495	2,143	73,623	3,130					316,725	\$11,379	316,220	\$11,340
Carp .....	600	30	650	32								
Catfish .....	81,300	3,252	119,475	4,779								
Croakers .....	2,000	100	1,980	99					220,773	9,230	227,315	9,092
Eels .....	6,210	200	7,840	325								
Flounders .....	500	25	610	31								
Kingfish and whiting .....									35,000	3,500	34,090	3,408
Menhaden .....	30,090,000	54,933	27,262,100	52,532								
Perch .....	15,498	775	17,935	897	9,600	460	8,350	417				
Sea bass .....	2,000	100	2,100	105								
Shad .....	653,170	21,135	842,892	27,380	204,092	6,204	186,140	6,091				
Sheepshead .....	2,000	100	1,925	96								
Spanish mackerel .....									86,250	8,000	91,960	9,168
Spots .....	14,350	718	17,385	860					35,000	2,450	32,419	2,269
Squeteague .....	54,644	2,492	74,050	3,331					589,892	18,471	644,825	16,368
Striped bass .....	60,687	5,468	75,783	6,973	14,100	1,130	12,250	970				
Sturgeon .....	34,080	1,243	70,250	2,574	28,730	1,058	26,580	893				
Other fish .....	143,141	2,644	174,126	3,184	14,280	425	11,500	340				
Oysters .....	2,135,000	121,947	2,023,700	120,160					47,600	1,448	27,980	854
Crabs, hard .....	23,400	189	25,500	195					87,607	27,825	59,969	23,450
Crabs, soft .....	33,900	2,155	39,600	2,360					663,645	5,300	675,000	5,350
Terrapins .....					19,250	650	21,175	892				
Total .....	34,810,214	233,567	32,939,609	250,116	441,422	11,199	410,730	10,710	2,087,492	88,293	2,139,898	86,238

Statement by counties and species of the yield of the fisheries of Virginia—Continued.

Species.	Surry.				Warwick.				Westmoreland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....					68,300	\$512	53,300	\$400	1,167,000	\$9,875	1,047,100	\$10,267
Bluefish .....					25,795	1,289	20,906	1,045	61,200	3,060	8,325	416
Catfish .....	292,314	\$7,225	229,852	\$5,808					19,400	720	32,200	1,102
Croakers .....					17,737	751	21,410	878				
Eels .....									4,820	250	5,180	265
Menhaden .....									76,800	96	68,000	85
Perch .....	9,200	460	7,500	375					11,420	571	14,725	736
Shad .....	202,765	8,364	152,834	6,375	16,800	480	12,810	366	216,900	6,157	190,865	5,114
Spanish mackerel .....												
Spots .....					1,200	75	2,000	120				
Squeteague .....					13,865	579	12,278	491				
Striped bass .....	12,000	1,200	9,265	920	20,697	1,120	25,631	1,077	64,300	3,265	32,840	1,042
Sturgeon .....	16,572	705	13,276	530	1,060	106	1,300	130	38,200	3,098	17,955	1,436
Suckers .....	4,900	118	5,530	135								
Other fish .....	16,980	473	13,100	381	16,437	716	8,291	379	13,180	385	15,260	445
Oysters .....					963,000	37,056	996,793	34,298	583,485	42,755	516,250	43,650
Crabs, hard .....									70,000	625	68,040	818
Crabs, soft .....									600	80	1,040	104
Frogs .....									600	100	600	110
Total .....	554,731	18,605	431,357	14,530	1,150,861	42,684	1,154,719	39,184	2,356,485	72,617	2,049,875	67,882

  

Species.	York.				Total for State.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	75,000	\$750	50,000	\$500	10,641,698	\$91,674	11,013,485	\$93,905
Bluefish .....	32,000	960	25,000	750	1,471,671	57,195	1,842,264	67,545
Carp .....					8,735	385	13,370	576
Catfish .....					939,902	27,833	935,244	2,487
Cobia, or crab-eater .....					194,537	4,798	195,250	4,948
Croakers .....	16,700	530	25,300	903	1,124,525	38,645	1,075,090	36,817
Drum .....					186,950	4,154	179,502	4,011
Eels .....					71,930	3,019	71,619	2,907
Flounders .....	27,700	1,065	23,000	860	126,135	4,209	127,295	4,109
Kingfish and whiting .....	3,000	60	3,000	60	168,056	7,920	149,565	7,097
Menhaden .....					107,341,713	209,583	105,980,334	197,523
Mullet .....					104,500	2,555	110,760	2,736
Perch .....					491,014	19,865	464,833	18,809
Pike .....					16,558	1,039	12,415	795
Pompano .....					86,246	8,466	93,700	9,520
Sea bass .....					61,323	2,044	66,310	2,270
Shad .....	62,415	1,630	53,665	1,450	7,266,207	228,897	6,498,242	207,394
Sheepshead .....					22,775	1,266	23,871	1,344
Spanish mackerel .....					648,793	47,161	739,910	50,756
Spots .....	30,000	970	30,300	945	651,473	25,426	650,157	25,275
Squeteague .....	127,500	4,125	116,000	3,460	4,072,304	150,740	3,929,899	124,645
Striped bass .....	6,000	600	3,350	335	529,159	47,202	483,496	42,127
Sturgeon .....	10,000	150	10,000	150	817,670	24,514	723,646	21,364
Suckers .....					118,067	3,190	116,364	3,153
Other fish .....	38,000	1,240	32,100	963	1,748,889	45,139	1,641,657	42,005
Oysters .....	1,751,821	83,189	1,717,702	72,185	42,518,174	2,482,348	43,134,602	2,524,348
Quahogs (hard clams) .....	103,920	6,495	103,638	6,480	551,888	36,815	559,278	36,030
Crabs, hard .....					2,584,794	28,210	2,308,071	32,683
Crabs, soft .....					440,340	20,054	585,956	29,379
Crawfish .....							833	75
Frogs .....					20,232	2,655	21,000	2,754
Terrapins .....	3,150	2,700	3,150	2,700	52,519	19,066	52,215	18,494
Turtles .....	5,000	150	5,000	150	203,928	4,279	189,121	3,934
Total .....	2,292,206	104,614	2,201,205	91,921	185,282,705	3,636,351	183,993,834	3,647,845

The products taken with the different appliances.—The following tables, relating to the vessel fisheries and the boat fisheries, respectively, show the quantity and value of the products resulting from the use of each of the important forms of apparatus. Separate figures are given for each county; the data relate to 1890 and 1891.

Vessels are employed in the fisheries of 17 counties in Virginia, in all of which oysters constitute a conspicuous part of the yield. In Lancaster and Northumberland counties menhaden are the most valuable products taken. The aggregate value

of the vessel fisheries of the State in 1891 was \$814,792, of which sum oysters represented \$626,607 and fish \$188,185. The output of oysters was 1,643,931 bushels, of which 490,230 bushels were taken with dredges and 1,153,701 bushels with tongs. The value of the vessel fisheries of Accomac and Norfolk counties was \$427,022, or more than that of all the other counties combined.

The value of the shore fisheries of Virginia was \$2,833,053. Omitting from consideration the apparatus used in taking oysters, it appears from the table that pound nets are much more important means of capture than any other appliances. These caught 23,796,835 pounds of fish in 1891, for which the fishermen received \$471,560. The combined yield of fish by all other apparatus was 12,592,943 pounds, valued at \$340,403. Alewives, menhaden, and shad constitute about two-thirds the quantity and more than one-third the value of the catch. Gill nets rank next to pound nets, followed by lines, seines, fyke nets, weirs, and pots. The shad is the most valuable fish in the pound-net and gill-net fisheries, the squeteague in the seine and line fisheries, and the striped bass in the fyke-net fishery.

Statement by counties, apparatus, and species of the yield of the vessel fisheries of Virginia.

Counties.	Seines.								Lines.			
	Bluefish.				Menhaden.				Bluefish.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Accomac .....					32,939,700	\$57,614	24,620,700	\$41,155				
Elizabeth City .....					11,715,000	19,525	19,800,000	18,000				
Lancaster .....					29,340,000	70,275	40,365,000	79,143			10,000	\$400
Norfolk .....									1,650	\$50	35,000	1,650
Northumberland .....			10,000	\$300	27,360,000	50,250	24,900,000	47,750				
Total .....			10,000	300	101,354,700	107,664	100,685,700	180,048	1,650	50	45,000	1,450

  

Counties.	Lines.											
	Croakers.				Spots.				Squeteague.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Norfolk .....	2,500	\$100	5,650	\$169	1,015	\$50	980	\$49	5,775	\$175	5,650	\$169
Total .....	2,500	100	5,650	169	1,015	50	980	49	5,775	175	5,650	169

  

Counties.	Oysters by tongs.				Oysters by dredges.				Total value.	
	1890.		1891.		1890.		1891.		1890.	1891.
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.		
	Accomac .....	203,740	\$32,875	244,495	\$40,740	429,810	\$168,470	343,240	\$182,600	\$258,059
Elizabeth City .....	45,000	21,575	48,400	21,280	34,960	17,080	37,240	17,458	58,780	56,738
Gloucester .....	59,930	22,009	65,450	24,065					22,009	24,065
Henrico .....	5,000	2,450	5,000	2,250					2,450	2,250
Isle of Wight .....	35,920	10,957	29,400	8,412					10,957	8,412
King William .....	15,300	6,100	15,700	5,570					6,100	5,570
Lancaster .....	2,500	1,060	4,700	1,970	2,000	900	2,000	800	72,235	82,313
Mathews .....	14,850	6,645	18,600	7,440	4,900	2,310	3,000	1,200	8,055	8,640
Middlesex .....	4,200	1,950	4,100	2,010					1,950	2,010
Nansemond .....	86,800	34,205	92,800	35,005					34,205	35,005
Norfolk .....	408,161	183,930	407,570	161,090	7,000	3,150			167,455	102,527
Northampton .....	62,750	15,565	90,300	24,285	7,900	4,000	10,650	5,690	10,565	29,975
Northumberland .....	600	270	1,600	720	70,900	28,705	66,600	29,930	79,225	78,700
Richmond .....	5,600	2,270	2,800	1,250					2,270	1,250
Warwick .....	22,000	8,252	23,700	7,545					8,252	7,515
Westmoreland .....					30,705	16,310	27,500	16,500	16,310	16,500
York .....	107,300	33,785	99,086	27,297					33,785	27,297
Total .....	1,076,351	304,408	1,153,701	372,429	588,175	241,534	490,230	254,178	804,071	814,792





FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Accomac.				Alexandria.				Caroline.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Pots and spears:												
Eels	4,200	\$210	3,500	\$175								
Miscellaneous:												
Oysters	5,079,438	411,368	5,064,360	345,070								
Quahogs	280,368	18,915	291,160	19,035								
Crabs, hard	93,333	840	86,666	780								
Crabs, soft	305,200	14,475	450,916	18,015								
Terrapins	11,070	5,690	9,930	5,480								
Total	5,769,409	451,288	5,903,032	388,380								
Grand total.	8,500,649	522,661	8,854,757	467,118	635,600	\$11,850	669,510	\$11,368	85,700	\$2,209	91,045	\$2,413
Apparatus and species.	Isle of Wight.				James City.				King and Queen.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Alewives					10,828	\$97	9,671	\$87	78,300	\$780	65,250	\$652
Catfish	600	\$24	800	\$32					18,250	540	15,000	450
Perch	2,200	100	3,940	190	526	16	455	14	14,500	435	12,500	875
Shad					931	27	854	25				
Striped bass					319	26	266	21	4,520	452	5,315	531
Sturgeon					975	89	820	33				
Suckers	3,840	115	4,120	120								
Other fish	5,060	265	9,940	410	700	21	665	20				
Total	12,600	504	18,800	752	14,279	226	12,731	200	115,570	2,213	98,065	2,008
Gill nets:												
Alewives					9,500	86	8,000	78				
Menhaden	150,000	950	150,000	950								
Mullet	8,000	480	9,000	540								
Perch	31,000	1,800	25,000	1,500	15,783	603	12,147	455	7,020	285	5,000	100
Pike					1,208	72	1,155	69				
Shad	196,875	8,437	157,500	6,750	131,250	3,828	112,044	3,455	178,920	5,332	142,618	4,251
Striped bass	62,000	6,200	50,000	5,000	4,310	345	3,493	278	930	74	700	60
Sturgeon					80,550	3,037	63,240	2,218				
Suckers					16,962	459	13,500	400	10,010	315	9,800	285
Other fish					17,900	530	13,106	379	8,060	170	7,000	160
Total	447,875	17,327	391,500	14,140	277,461	8,960	227,885	7,332	207,040	6,176	165,118	4,926
Fyke nets:												
Alewives	5,000	50	3,500	35	0,288		5,753	176				
Catfish	5,000	225	4,500	200	7,005	189	7,995	318	8,370	251	7,950	229
Croakers					8,070	311	8,025	307	3,528	106	3,672	110
Perch	2,500	150	2,000	120	0,000	360	8,199	327				
Squeteague					9,243	924	8,559	855	2,232	223	1,836	184
Striped bass	3,750	375	3,000	300	870	26	1,056	82	2,628	79	3,168	95
Suckers												
Other fish	1,500	45	1,500	45								
Total	17,750	845	14,500	700	40,488	2,092	39,587	2,015	16,758	659	16,632	618
Lines:												
Catfish	11,250	562	9,000	450								
Croakers	125,000	5,000	122,000	4,880								
Drum	1,875	93	1,500	75								
Perch	4,375	262	3,500	210								
Sheepshead	8,125	187	2,500	150								
Spots	17,750	712	15,500	590								
Squeteague	40,377	1,531	33,500	1,285								
Striped bass	8,750	875	3,000	300								
Other fish	18,750	637	16,200	550								
Total	226,252	9,359	206,700	8,490								
Pots and spears:												
Eels	3,125	312	2,500	250								
Miscellaneous:												
Oysters	571,090	31,785	574,749	32,601	122,500	7,300	126,000	7,500	52,500	3,000	52,150	3,080
Turtles					302	7	460	9				
Total	571,090	31,785	574,749	32,601	122,802	7,307	126,460	7,509	52,500	3,000	52,150	3,080
Grand total.	1,279,292	60,132	1,208,749	56,933	455,090	18,585	406,693	17,056	391,868	12,048	331,965	10,632

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Charles City.				Chesterfield.				Dinwiddie.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....	150,961	\$1,021	149,654	\$1,010	45,000	\$450	35,000	\$350	32,000	\$70	30,000	\$65
Catfish .....	12,000	360	13,000	390	25,000	500	24,000	480	.....	.....	.....	.....
Perch .....	25,720	892	24,705	856	20,000	600	15,000	450	.....	.....	.....	.....
Shad .....	99,092	2,551	65,161	1,678	.....	.....	.....	.....	31,734	816	23,000	720
Striped bass .....	6,419	634	6,226	615	5,000	500	4,000	400	.....	.....	.....	.....
Sturgeon .....	1,401	56	1,320	53	.....	.....	.....	.....	.....	.....	.....	.....
Other fish .....	98,920	2,038	83,915	1,738	17,000	660	15,000	450	10,500	200	10,000	190
<b>Total ....</b>	<b>394,513</b>	<b>7,552</b>	<b>343,981</b>	<b>6,340</b>	<b>112,000</b>	<b>2,710</b>	<b>93,000</b>	<b>2,130</b>	<b>74,234</b>	<b>1,086</b>	<b>68,000</b>	<b>975</b>
<b>Gill nets:</b>												
Alewives .....	150,000	1,500	150,000	1,500	350,000	2,550	325,000	2,300	12,000	26	10,000	25
Catfish .....	.....	.....	.....	.....	2,800	70	2,500	62	.....	.....	.....	.....
Perch .....	6,064	200	3,610	108	45,000	1,350	47,000	1,310	.....	.....	.....	.....
Pike .....	5,666	336	1,532	92	3,810	230	2,965	180	.....	.....	.....	.....
Shad .....	301,175	8,391	254,420	7,550	109,375	2,812	76,562	1,868	10,500	270	9,334	240
Striped bass .....	4,505	361	1,796	144	.....	.....	.....	.....	.....	.....	.....	.....
Sturgeon .....	37,800	1,225	33,200	940	.....	.....	.....	.....	.....	.....	.....	.....
Other fish .....	122,158	3,035	117,626	2,929	106,390	1,960	94,535	1,808	1,100	19	1,100	19
<b>Total ....</b>	<b>627,408</b>	<b>15,048</b>	<b>562,184</b>	<b>13,263</b>	<b>617,375</b>	<b>8,972</b>	<b>548,562</b>	<b>7,528</b>	<b>24,200</b>	<b>315</b>	<b>20,434</b>	<b>284</b>
<b>Lines:</b>												
Catfish .....	3,300	100	3,500	105	.....	.....	.....	.....	.....	.....	.....	.....
Striped bass .....	7,000	700	6,500	650	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total ....</b>	<b>10,300</b>	<b>800</b>	<b>10,000</b>	<b>755</b>	.....	.....	.....	.....	.....	.....	.....	.....
<b>Miscellaneous:</b>												
Turtles .....	530	11	660	13	.....	.....	.....	.....	.....	.....	.....	.....
<b>Grand total.</b>	<b>1,032,751</b>	<b>23,411</b>	<b>916,825</b>	<b>20,371</b>	<b>729,375</b>	<b>11,682</b>	<b>641,562</b>	<b>9,658</b>	<b>98,434</b>	<b>1,401</b>	<b>88,434</b>	<b>1,259</b>

  

Apparatus and species.	King George.				King William.				Lancaster.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>*Seines:</b>												
Alewives .....	130,000	\$1,300	120,500	\$1,455	.....	.....	.....	.....	.....	.....	.....	.....
Catfish .....	1,650	50	3,500	117	.....	.....	.....	.....	.....	.....	.....	.....
Perch .....	4,000	200	5,200	260	.....	.....	.....	.....	.....	.....	.....	.....
Shad .....	26,250	750	18,000	550	.....	.....	.....	.....	.....	.....	.....	.....
Striped bass .....	10,000	800	12,700	1,016	.....	.....	.....	.....	.....	.....	.....	.....
Other fish .....	28,000	1,400	25,800	1,290	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total ....</b>	<b>199,900</b>	<b>4,500</b>	<b>185,700</b>	<b>4,688</b>	.....	.....	.....	.....	.....	.....	.....	.....
<b>Pound nets:</b>												
Alewives .....	658,895	7,591	506,663	6,056	20,000	\$200	25,000	\$250	613,000	\$4,215	620,225	\$4,202
Bluefish .....	.....	.....	.....	.....	.....	.....	.....	.....	73,537	4,438	70,000	4,200
Carp .....	1,100	55	1,260	63	.....	.....	.....	.....	.....	.....	.....	.....
Catfish .....	13,500	397	15,520	488	3,500	105	3,300	99	.....	.....	.....	.....
Croakers .....	.....	.....	.....	.....	.....	.....	.....	.....	17,800	715	16,320	662
Eels .....	4,060	167	4,230	165	.....	.....	.....	.....	.....	.....	.....	.....
Flounders .....	.....	.....	.....	.....	.....	.....	.....	.....	11,140	340	10,080	310
Menhaden .....	.....	.....	.....	.....	.....	.....	.....	.....	300,000	720	375,000	750
Perch .....	12,800	640	14,500	725	.....	.....	.....	.....	.....	.....	.....	.....
Shad .....	106,330	3,038	113,654	2,845	6,184	159	5,250	135	606,665	24,091	610,750	24,480
Spanish mackerel .....	.....	.....	.....	.....	.....	.....	.....	.....	12,000	960	10,000	800
Spots .....	.....	.....	.....	.....	.....	.....	.....	.....	14,716	1,177	14,000	1,120
Squeteague .....	.....	.....	.....	.....	.....	.....	.....	.....	374,142	15,729	373,807	15,685
Striped bass .....	26,160	2,180	9,440	772	2,000	200	2,300	230	.....	.....	.....	.....
Sturgeon .....	2,185	68	1,880	57	.....	.....	.....	.....	49,441	2,180	47,425	1,985
Suckers .....	8,510	255	9,390	282	.....	.....	.....	.....	.....	.....	.....	.....
Other fish .....	37,445	1,988	49,080	2,585	.....	.....	.....	.....	126,505	3,047	120,600	2,903
<b>Total ....</b>	<b>870,985</b>	<b>16,379</b>	<b>725,617</b>	<b>14,038</b>	<b>31,684</b>	<b>664</b>	<b>35,850</b>	<b>714</b>	<b>2,258,946</b>	<b>57,612</b>	<b>2,268,267</b>	<b>57,097</b>
<b>Gill nets:</b>												
Shad .....	105,000	3,000	84,000	2,400	308,700	9,262	246,960	7,409	.....	.....	.....	.....
<b>Lines:</b>												
Catfish .....	.....	.....	.....	.....	86,200	2,640	84,620	2,539	.....	.....	.....	.....
Striped bass .....	.....	.....	.....	.....	5,680	568	6,275	628	.....	.....	.....	.....
<b>Total ....</b>	.....	.....	.....	.....	<b>91,880</b>	<b>3,208</b>	<b>90,895</b>	<b>3,167</b>	.....	.....	.....	.....
<b>Miscellaneous:</b>												
Oysters .....	.....	.....	.....	.....	21,000	1,350	21,000	1,200	5,299,000	285,800	5,239,500	348,600
Crabs, hard .....	4,200	30	4,160	32	13,800	69	15,300	77	.....	.....	.....	.....
Crabs, soft .....	.....	.....	.....	.....	.....	.....	.....	.....	81,440	8,144	80,000	8,000
Frogs .....	4,032	605	4,050	608	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total ....</b>	<b>8,232</b>	<b>635</b>	<b>8,210</b>	<b>640</b>	<b>34,800</b>	<b>1,419</b>	<b>36,300</b>	<b>1,277</b>	<b>5,380,440</b>	<b>293,944</b>	<b>5,319,500</b>	<b>356,600</b>
<b>Grand total.</b>	<b>1,184,117</b>	<b>24,514</b>	<b>1,003,527</b>	<b>21,766</b>	<b>467,664</b>	<b>14,553</b>	<b>410,005</b>	<b>12,567</b>	<b>7,639,386</b>	<b>351,556</b>	<b>7,587,767</b>	<b>413,697</b>

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Elizabeth City.				Essex.				Fairfax.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives					8,000	\$80	7,000	\$70	606,650	\$3,872	93,610	\$980
Bluefish	7,800	\$390	4,500	\$225					1,335	60	1,045	47
Carp					5,000	150	2,500	75	12,000	480	10,875	435
Catfish									2,000	120	1,568	94
Drum	1,200	60	600	30					4,345	186	3,780	161
Eels									264,460	8,624	182,280	6,904
Mullet	12,000	240	8,500	170								
Perch												
Shad												
Spots	2,300	69	1,500	45								
Squeteague	3,500	105	2,500	75								
Striped bass	2,000	200	1,500	150	500	50	400	40	3,435	275	3,660	293
Sturgeon									770	30	110	4
Suckers									7,165	215	6,000	190
Other fish	4,100	82	2,300	46	4,000	200	4,000	200	800	20	880	22
<b>Total</b>	<b>32,900</b>	<b>1,146</b>	<b>21,400</b>	<b>741</b>	<b>17,500</b>	<b>480</b>	<b>13,900</b>	<b>385</b>	<b>905,969</b>	<b>13,882</b>	<b>303,808</b>	<b>9,130</b>
<b>Pound nets:</b>												
Alewives	151,130	1,511	106,000	1,080	150,000	1,500	120,000	1,200	198,000	1,980	223,966	2,669
Bluefish	114,666	5,833	76,000	3,800								
Carp					90,000	2,700	60,000	2,070	28,000	840	2,800	104
Catfish											84,210	2,526
Cobia or crab-eater	24,333	486	18,250	365								
Croakers	62,660	1,880	47,350	1,420								
Drum	34,395	1,030	29,840	895								
Eels	8,560	350	7,320	290	3,800	150	3,281	130				
Flounders	28,315	850	27,100	715								
Kingfish and whiting	65,300	1,960	53,000	1,500								
Menhaden	864,000	1,728	612,000	1,224								
Perch					23,850	1,170	17,400	870	12,000	630	25,400	1,166
Pompano	49,600	4,960	37,200	3,720								
Shad	598,111	20,506	428,165	14,680	22,050	630	15,750	450	13,335	381	10,620	269
Sheepshead	8,933	446	6,700	335								
Spanish mackerel	155,333	15,533	116,500	11,650								
Spots	44,500	1,335	35,500	1,065								
Squeteague	166,330	5,000	117,250	3,518	28,400	1,320	19,500	990				
Striped bass	14,400	1,440	10,900	1,090	45,000	3,840	30,000	2,880	3,500	280	7,560	604
Sturgeon	298,660	8,960	224,000	6,720								
Suckers					2,765	70	2,450	63	4,200	126	6,600	187
Other fish	111,380	1,900	67,740	1,190	18,335	530	12,269	347	7,000	350	2,730	109
<b>Total</b>	<b>2,800,606</b>	<b>75,798</b>	<b>2,020,815</b>	<b>55,327</b>	<b>391,200</b>	<b>12,000</b>	<b>205,650</b>	<b>9,000</b>	<b>266,635</b>	<b>4,587</b>	<b>363,786</b>	<b>7,628</b>
<b>Gill nets:</b>												
Shad					203,752	5,821	161,700	4,620	200,700	5,213	149,704	3,775
Striped bass					5,350	535	6,100	610	2,100	210	700	70
Sturgeon					16,500	330	5,500	110				
<b>Total</b>					<b>225,602</b>	<b>6,686</b>	<b>173,300</b>	<b>5,340</b>	<b>202,800</b>	<b>5,423</b>	<b>150,404</b>	<b>3,845</b>
<b>Fyke nets:</b>												
Alewives					1,200	12	800	8				
Catfish					1,400	84	1,500	9				
Croakers	2,800	84	2,000	60								
Flounders					300	12	200	8				
Perch	5,250	157	4,500	135	2,600	118	3,300	159				
Shad					1,750	45	1,050	27				
Spots	4,200	120	3,500	105								
Squeteague	6,800	204	5,000	150								
Striped bass					2,000	140	2,800	196				
Suckers	2,000	40	3,000	60	1,000	40	1,000	30				
Other fish					1,200	36	700	21				
<b>Total</b>	<b>21,050</b>	<b>611</b>	<b>18,000</b>	<b>510</b>	<b>12,050</b>	<b>487</b>	<b>11,350</b>	<b>539</b>				
<b>Lines:</b>												
Bluefish	30,820	1,160	33,670	1,360								
Catfish					22,000	550	21,780	653				
Croakers	418,410	12,404	380,000	11,400								
Drum	36,310	725	30,642	616								
Flounders	14,565	490	16,000	520								
Sea bass	13,240	410	15,000	490								
Sheepshead	1,100	75	1,200	85								
Spots	255,125	7,653	205,000	7,950								
Squeteague	842,500	25,275	875,000	26,250								
Other fish	21,700	652	27,000	837								
<b>Total</b>	<b>1,631,770</b>	<b>48,934</b>	<b>1,645,572</b>	<b>40,508</b>	<b>22,000</b>	<b>550</b>	<b>21,780</b>	<b>653</b>				

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Elizabeth City.				Essex.				Fairfax.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Pots and spears:												
Eels					1,500	\$75	1,825	\$90				
Miscellaneous:												
Oysters	2,152,500	\$133,750	2,275,000	\$130,250	262,500	15,000	315,000	15,000				
Quahogs	40,000	3,000	29,088	2,000								
Crabs, hard	1,057,250	6,766	679,375	8,696							833	\$75
Crawfish												
Turtles	156,250	3,125	136,250	2,725								
Total	3,406,000	146,641	3,119,713	143,671	262,500	15,000	315,000	15,000			833	75
Grand total	7,892,326	273,130	6,825,500	249,757	932,352	35,278	832,805	31,007	1,375,404	\$28,892	818,831	20,073

  

Apparatus and species.	Mathews.				Middlesex.				Nansemond.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:												
Mullet	7,000	\$210	7,200	\$216								
Other fish	3,000	00	3,000	90								
Total	10,000	300	10,200	306								
Pound nets:												
Alewives	550,400	5,504	535,000	4,350	304,625	\$2,916	270,000	\$2,610				
Bluefish	158,000	4,700	175,000	5,250								
Cobia or crab-eater	85,000	2,550	95,000	2,850								
Menhaden	550,000	1,100	402,534	924								
Shad	651,000	19,530	588,000	17,540	181,250	3,750	108,500	3,100	990	\$50	875	\$45
Spanish mackerel	15,000	1,500	15,300	1,530								
Spots					9,104	366	9,125	700				
Squeteague	244,000	7,320	221,000	6,630	100,414	5,018	95,000	4,750				
Striped bass					2,823	282	2,450	245	800	80	700	70
Sturgeon	147,000	2,940	130,500	2,610	10,332	810	10,000	800				
Other fish	55,000	1,650	40,000	1,200	22,500	675	26,250	795	2,700	108	2,500	100
Total	2,455,400	40,704	2,262,334	42,884	581,113	13,317	521,325	12,500	4,400	238	4,075	215
Gill nets:												
Alewives	3,000	30	3,800	38								
Spots	3,500	105	3,000	90								
Squeteague	3,300	99	3,740	114								
Other fish	1,000	30	1,500	45								
Total	10,800	264	12,040	287								
Fyke nets:												
Alewives									4,450	128	4,000	120
Croakers									9,550	392	10,000	400
Perch									1,000	40	800	32
Shad									665	34	700	36
Squeteague									12,600	595	10,000	400
Striped bass									6,280	500	6,000	480
Total									34,545	1,599	31,500	1,468
Miscellaneous:												
Oysters	2,073,600	132,660	2,327,150	132,980	4,050,200	214,020	3,878,000	229,550	1,015,000	55,050	980,000	53,750
Quahogs	42,000	3,000	51,200	3,200								
Crabs, soft	10,200	1,200	14,400	900								
Terrapins	936	534	1,080	660								
Turtles	25,000	500	20,500	530								
Total	2,160,736	137,894	2,420,330	138,270	4,050,200	214,920	3,878,000	229,550	1,015,000	55,650	980,000	53,750
Grand total	4,636,936	185,252	4,704,904	181,747	4,631,313	228,237	4,399,325	242,050	1,054,035	57,487	1,015,575	55,433

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Gloucester.				Hanover.				Henrico.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives .....									43,000	\$230	65,000	\$350
Catfish .....									8,960	182	8,000	160
Mullet .....	15,000	\$375	18,000	\$450								
Perch .....									4,540	138	5,000	150
Squeteague .....	12,000	360	15,000	450								
Striped bass .....									3,000	200	2,000	200
Other fish .....	3,000	90	5,000	150					2,500	150	2,000	80
<b>Total .....</b>	<b>30,000</b>	<b>825</b>	<b>38,000</b>	<b>1,050</b>					<b>62,000</b>	<b>900</b>	<b>82,000</b>	<b>940</b>
<b>Pound nets:</b>												
Alewives .....	430,500	4,305	435,500	4,355								
Bluefish .....	39,800	1,194	40,800	1,224								
Cobia or crab-eater .....	50,000	1,000	45,000	900								
Croakers .....	38,500	1,155	38,000	1,140								
Drum .....	8,000	320	8,500	340								
Kingfish and whiting .....	20,000	600	15,000	450								
Menhaden .....	500,000	1,000	500,000	1,000								
Pompano .....	25,000	2,500	23,000	2,300								
Shad .....	492,100	14,762	522,784	15,718								
Spanish mackerel .....	25,000	2,500	35,000	3,500								
Spots .....	10,000	400	18,000	720								
Squeteague .....	75,800	2,274	70,800	2,124								
Surgeon .....	75,000	1,875	78,000	1,950								
Other fish .....	50,000	750	53,000	795								
<b>Total .....</b>	<b>1,839,700</b>	<b>34,635</b>	<b>1,883,384</b>	<b>36,510</b>								
<b>Gill nets:</b>												
Alewives .....	25,000	250	20,000	200					200,000	2,300	275,000	2,250
Bluefish .....	13,000	390	14,500	435								
Outfish .....									1,000	30	800	22
Perch .....									45,000	1,350	47,000	1,410
Shad .....	3,500	100	2,800	80	81,900	\$2,457	65,520	\$1,966	17,500	450	18,084	465
Squeteague .....	18,000	540	16,500	495								
Suckers .....									4,000	120	4,200	128
Other fish .....									90,000	1,800	88,500	1,720
<b>Total .....</b>	<b>50,500</b>	<b>1,280</b>	<b>53,800</b>	<b>1,210</b>	<b>81,900</b>	<b>2,457</b>	<b>65,520</b>	<b>1,966</b>	<b>417,500</b>	<b>6,050</b>	<b>483,584</b>	<b>5,995</b>
<b>Fyke nets:</b>												
Catfish .....	5,000	150	5,400	162								
Croakers .....	4,500	135	5,800	159								
Flounders .....	3,200	160	4,200	210								
Perch .....	4,100	164	2,900	116								
Shad .....	3,500	90	3,500	90								
Spots .....	6,300	189	5,200	156								
Squeteague .....	8,300	249	7,500	225								
Striped bass .....	1,850	185	1,650	165								
<b>Total .....</b>	<b>36,750</b>	<b>1,322</b>	<b>35,650</b>	<b>1,283</b>								
<b>Weirs:</b>												
Alewives .....									11,500	115	10,000	100
Shad .....									130	5	116	4
Suckers .....									18,985	380	20,000	400
Other fish .....									22,500	588	25,000	625
<b>Total .....</b>									<b>53,115</b>	<b>1,088</b>	<b>55,116</b>	<b>1,129</b>
<b>Lines:</b>												
Bluefish .....	2,700	76	2,300	69								
Croakers .....	1,400	42	1,000	30								
Spots .....	1,800	39	1,200	36								
Squeteague .....	2,500	75	2,000	60								
<b>Total .....</b>	<b>7,900</b>	<b>232</b>	<b>6,500</b>	<b>195</b>								
<b>Miscellaneous:</b>												
Oysters .....	2,065,000	136,976	1,995,567	119,618								
Quahogs .....	20,320	1,270	20,256	1,266								
Crabs, hard .....	114,000	950	120,000	1,000								
Terrapins .....	16,113	8,092	15,280	8,152								
Turtles .....	15,000	450	19,000	402								
<b>Total .....</b>	<b>2,230,433</b>	<b>148,338</b>	<b>2,170,103</b>	<b>130,498</b>								
<b>Grand total.</b>	<b>4,204,283</b>	<b>186,632</b>	<b>4,187,437</b>	<b>170,752</b>	<b>81,900</b>	<b>2,457</b>	<b>65,520</b>	<b>1,966</b>	<b>532,615</b>	<b>8,038</b>	<b>570,700</b>	<b>8,064</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	New Kent.				Norfolk.				Northampton.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives.....	121,992	\$1,172	104,986	\$1,007								
Bluefish.....					51,250	\$1,800	50,000	\$1,750	33,210	\$1,023	24,000	\$720
Catfish.....	15,800	474	13,200	400								
Croakers.....					30,000	1,200	25,000	1,000				
Kingfish and whiting.....					10,000	1,000	7,000	700	2,240	57	1,685	40
Perch.....	18,493	555	16,220	489								
Shad.....	4,050	116	3,703	105					2,103	85	1,575	67
Spots.....					10,000	800	8,600	640	9,640	190	6,700	134
Squeteague.....					100,000	3,000	95,000	2,850	17,380	518	11,000	375
Striped bass.....	7,777	747	6,506	625					4,360	220	3,100	155
Sturgeon.....	4,754	190	4,280	171								
Other fish.....	3,240	97	3,160	94					3,860	67	1,615	26
<b>Total.....</b>	<b>176,106</b>	<b>3,351</b>	<b>152,155</b>	<b>2,891</b>	<b>201,250</b>	<b>7,800</b>	<b>185,000</b>	<b>6,940</b>	<b>72,793</b>	<b>2,160</b>	<b>49,675</b>	<b>1,517</b>
<b>Pound nets:</b>												
Alewives.....									367,500	1,029	1,269,000	3,340
Bluefish.....									147,923	4,068	380,000	11,600
Cobia or crab-eater.....									19,404	252	20,100	293
Eels.....									2,360	70	1,700	50
Drum.....									20,680	263	33,000	275
Flounders.....									2,835	36	3,420	45
Kingfish and whiting.....									2,731	68	2,210	63
Menhaden.....									237,213	472	230,000	460
Pompano.....									1,796	101	22,000	2,640
Sea bass.....									1,113	8	1,340	10
Shad.....									68,712	1,766	46,200	2,200
Sheepshead.....									572	43	3,400	170
Spanish mackerel.....									163,590	7,933	286,000	14,300
Spots.....									1,848	28	2,020	41
Squeteague.....									352,388	4,099	231,082	3,550
Striped bass.....									19,390	773	44,000	2,200
Sturgeon.....									2,100	18	1,950	20
Other fish.....									5,819	132	2,660	60
<b>Total.....</b>									<b>1,426,974</b>	<b>21,249</b>	<b>2,580,682</b>	<b>41,317</b>
<b>Gill nets:</b>												
Perch.....	4,684	140	3,850	116								
Pike.....	2,016	121	1,943	117								
Shad.....	192,104	5,598	158,728	4,624								
Striped bass.....	2,929	234	2,082	167								
Other fish.....	80,553	2,416	66,167	1,982								
<b>Total.....</b>	<b>282,286</b>	<b>8,509</b>	<b>232,770</b>	<b>7,006</b>								
<b>Fyke nets:</b>												
Catfish.....	4,650	140	4,423	133								
Perch.....	1,965	53	2,040	61								
Shad.....									7,945	356	7,700	330
Squeteague.....									10,015	301	9,450	283
Striped bass.....	1,240	124	1,019	102					9,480	474	8,100	405
Suckers.....	1,460	44	1,700	53								
Other fish.....									10,610	214	8,600	172
<b>Total.....</b>	<b>9,315</b>	<b>361</b>	<b>9,242</b>	<b>349</b>					<b>38,050</b>	<b>1,345</b>	<b>33,850</b>	<b>1,190</b>
<b>Lines:</b>												
Bluefish.....					45,000	1,500	52,280	1,840	20,000	750	23,640	841
Croakers.....					49,500	1,500	43,000	1,290	35,000	1,000	31,360	895
Sea bass.....									30,610	905	32,870	985
Spots.....					40,000	3,200	38,000	3,040	5,000	250	4,000	200
Squeteague.....					150,000	3,000	118,000	2,950	50,000	1,500	55,000	1,650
Other fish.....									4,260	135	3,890	120
<b>Total.....</b>					<b>284,500</b>	<b>9,200</b>	<b>251,280</b>	<b>9,120</b>	<b>144,870</b>	<b>4,540</b>	<b>150,760</b>	<b>4,691</b>
<b>Miscellaneous:</b>												
Oysters.....	48,300	2,587	50,400	2,700	1,145,550	66,460	1,160,425	67,310	2,104,676	106,209	2,021,142	137,781
Quahogs.....									65,280	4,135	63,936	4,049
Crabs, hard.....									540,106	13,450	633,430	15,735
Terrapins.....									2,000	800	1,600	700
Turtles.....	1,786	36	1,251	45								
<b>Total.....</b>	<b>50,086</b>	<b>2,623</b>	<b>51,651</b>	<b>2,745</b>	<b>1,145,550</b>	<b>66,460</b>	<b>1,160,425</b>	<b>67,310</b>	<b>2,712,122</b>	<b>124,594</b>	<b>3,620,108</b>	<b>158,265</b>
<b>Grand total.....</b>	<b>517,793</b>	<b>14,844</b>	<b>445,818</b>	<b>12,991</b>	<b>1,631,300</b>	<b>83,460</b>	<b>1,596,705</b>	<b>83,370</b>	<b>4,394,809</b>	<b>153,888</b>	<b>6,435,075</b>	<b>206,980</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Northumberland.				Prince George.				Princess Anne.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives					2,870	\$20	2,075	\$27				
Bluefish									175,000	\$6,125	165,320	\$5,786
Carp	600	\$30	650	\$32								
Croakers									108,773	4,750	112,315	4,492
Kingfish and whitening									85,000	3,500	34,090	3,400
Shad					18,592	557	16,275	552				
Spots	2,400	120	2,600	130					35,000	2,450	32,419	2,269
Squeteague	5,000	250	5,120	256					353,714	12,399	402,325	10,058
Striped bass	12,000	600	12,100	605								
Other fish					10,000	800	8,000	240	1,400	50	1,940	58
<b>Total</b>	<b>20,000</b>	<b>1,000</b>	<b>20,470</b>	<b>1,023</b>	<b>31,462</b>	<b>880</b>	<b>26,950</b>	<b>810</b>	<b>708,887</b>	<b>29,274</b>	<b>748,409</b>	<b>26,072</b>
<b>Pound nets:</b>												
Alewives	1,406,238	14,162	2,108,085	21,064								
Bluefish	46,495	1,893	58,773	2,588					130,000	4,550	140,000	4,500
Catfish	81,300	3,252	119,475	4,779								
Croakers									112,000	4,480	115,000	4,600
Eels	6,210	260	7,840	325								
Menhaden	2,730,000	4,683	2,362,100	4,782								
Perch	15,499	775	17,935	897								
Shad	653,170	21,135	842,892	27,380								
Spanish mackerel									85,000	8,500	90,400	9,046
Spots	1,950	98	3,185	159								
Squeteague	36,644	1,592	55,650	2,411					225,000	5,625	230,000	5,750
Striped bass	44,687	4,468	59,583	5,958								
Sturgeon	34,080	1,248	70,250	2,574								
Other fish	141,641	2,569	172,601	3,108					45,000	1,350	24,540	736
<b>Total</b>	<b>5,197,914</b>	<b>56,135</b>	<b>5,878,369</b>	<b>76,025</b>					<b>597,000</b>	<b>24,505</b>	<b>600,000</b>	<b>25,032</b>
<b>Gill nets:</b>												
Alewives					148,500	1,220	142,000	1,170				
Bluefish									11,725	704	10,900	654
Perch					9,600	480	8,350	417				
Shad					185,500	5,647	169,885	5,539				
Spanish mackerel									1,250	100	1,500	120
Squeteague									11,178	447	12,500	500
Striped bass					14,100	1,130	12,250	970				
Sturgeon					28,730	1,058	26,580	893				
Other fish					4,280	125	3,560	100	1,200	48	1,500	60
<b>Total</b>					<b>390,710</b>	<b>9,660</b>	<b>362,605</b>	<b>9,089</b>	<b>25,353</b>	<b>1,299</b>	<b>26,400</b>	<b>1,334</b>
<b>Lines:</b>												
Bluefish	5,000	250	4,850	242								
Croakers	2,000	100	1,980	99								
Flounders	500	25	610	31								
Sea bass	2,000	100	2,100	105								
Sheepshead	2,000	100	1,925	96								
Spots	10,000	500	11,600	580								
Squeteague	13,000	650	13,280	664								
Striped bass	4,000	400	4,100	410								
Other fish	1,500	75	1,625	76								
<b>Total</b>	<b>40,000</b>	<b>2,200</b>	<b>41,970</b>	<b>2,303</b>								
<b>Miscellaneous:</b>												
Oysters	1,634,500	92,672	1,546,800	80,510					87,607	27,825	89,999	28,450
Crabs, hard	23,400	180	25,500	195					668,645	5,300	675,000	5,350
Crabs, soft	93,900	2,155	99,600	2,360								
Terrapins					10,250	650	21,175	802				
<b>Total</b>	<b>1,691,800</b>	<b>95,007</b>	<b>1,611,400</b>	<b>82,065</b>	<b>19,250</b>	<b>650</b>	<b>21,175</b>	<b>802</b>	<b>756,252</b>	<b>33,125</b>	<b>764,999</b>	<b>33,800</b>
<b>Grand total</b>	<b>6,949,714</b>	<b>164,342</b>	<b>7,552,209</b>	<b>171,416</b>	<b>441,422</b>	<b>11,196</b>	<b>410,730</b>	<b>10,710</b>	<b>2,087,492</b>	<b>88,203</b>	<b>2,139,808</b>	<b>86,238</b>

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Prince William.				Richmond.				Stafford.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives									712,160	\$5,201	620,000	\$5,700
Perch									21,714	850	18,028	700
Shad									59,500	1,850	51,000	1,700
Striped bass									7,600	750	7,000	700
Sturgeon									150	5		
Other fish									1,865	75	2,000	100
<b>Total</b>									802,989	8,731	698,028	8,900
<b>Pound nets:</b>												
Alewives	62,000	\$610	70,200	\$790	198,750	\$1,988	150,000	\$1,500	112,000	1,288	140,000	525
Carp	2,100	68	1,980	64					2,800	140	4,175	208
Catfish	2,050	66	2,710	92	112,500	3,375	86,250	2,587	9,800	392	19,700	501
Eels	1,500	60	1,820	70	4,980	180	4,265	150	2,785	140	2,430	120
Perch	3,815	158	4,340	173	29,812	1,491	21,750	1,088	12,571	560	19,214	875
Pike									3,920	280	4,824	387
Shad	15,120	492	14,400	360	31,062	887	10,687	563	4,900	140	4,200	105
Squeteague					32,500	1,050	24,375	1,482				
Striped bass	4,199	356	4,910	417	56,250	5,625	45,000	4,500				
Suckers	520	16	720	21	2,175	52	1,845	43	2,346	72	1,955	69
Other fish	1,476	44	1,840	73	23,970	702	10,390	482	3,095	110	4,900	147
<b>Total</b>	92,780	1,810	112,220	2,060	491,999	16,250	369,562	12,375	154,817	3,122	201,394	2,967
<b>Gill nets:</b>												
Alewives									440,000	4,400	293,300	3,520
Perch	3,500	120	3,225	113								
Shad	87,500	2,500	70,000	2,000	152,250	4,350	114,888	3,282				
Striped bass	4,450	312	4,580	321	6,750	675	7,150	715				
Other fish	2,050	62	2,195	66								
<b>Total</b>	97,500	3,000	80,000	2,500	159,000	5,025	122,038	3,997	440,000	4,400	293,300	3,520
<b>Fyke nets:</b>												
Catfish					7,250	290	8,000	320				
Other fish					3,580	180	4,000	200				
<b>Total</b>					10,830	470	12,000	520				
<b>Miscellaneous:</b>												
Oysters					902,600	46,360	831,600	54,000				
Frogs	15,000	1,875	15,600	1,950					600	75	690	86
<b>Total</b>	15,000	1,875	15,600	1,950	902,600	46,360	831,600	54,000	600	75	690	86
<b>Grand total</b>	205,280	6,685	207,820	6,510	1,504,429	68,105	1,335,200	70,892	1,398,406	16,328	1,193,412	15,473

  

Apparatus and species.	Surry.				Warwick.				Westmoreland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Seines:</b>												
Alewives											32,500	\$267
Catfish	6,170	\$250	8,300	\$330								
Perch	8,400	420	7,000	350								
Striped bass	11,300	1,130	8,765	876							1,975	158
Suckers	4,900	118	5,530	135								
Other fish	16,980	473	13,100	381								
<b>Total</b>	47,750	2,391	42,695	2,072							34,475	425
<b>Pound nets:</b>												
Alewives					68,300	\$512	53,300	\$400	1,167,000	\$9,875	1,014,600	10,000
Bluefish					11,000	550	8,000	400	61,200	3,060	8,325	416
Catfish									10,400	720	32,200	1,102
Croakers					2,700	150	1,100	66				
Eels									4,820	250	5,180	265
Menhaden									76,800	96	68,000	85
Perch									11,420	571	14,725	736
Shad					16,800	480	12,810	366	185,400	5,237	165,665	4,394
Spanish mackerel					1,200	75	2,000	120				
Squeteague					2,800	108	2,600	156	64,900	3,265	32,840	1,042
Striped bass					1,060	106	1,300	130	38,200	3,098	15,980	1,278
Suckers									13,180	385	15,280	445
Other fish					8,400	393	4,760	238	28,580	1,574	30,835	1,692
<b>Total</b>					112,260	2,484	85,870	1,870	1,670,300	28,137	1,403,610	22,056



Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	Surry.				Warwick.				Westmoreland.			
	1890.		1891.		1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Gill nets:												
Perch.....	800	\$40	500	\$25								
Shad.....	202,765	8,364	152,834	6,375					31,500	\$920	25,200	\$720
Striped bass.....	700	70	500	50								
Sturgeon.....	16,572	765	13,276	536								
Total.....	220,837	9,239	167,110	6,986					31,500	920	25,200	720
Lines:												
Bluefish.....					14,705	\$730	12,006	\$645				
Catfish.....	286,144	6,975	221,552	5,478								
Croakers.....					15,037	601	20,310	812				
Spots.....					13,865	579	12,278	491				
Squeteague.....					23,807	952	23,031	921				
Other fish.....					8,037	323	3,531	141				
Total.....	286,144	6,975	221,552	5,478	75,541	3,194	72,056	3,010				
Miscellaneous:												
Oysters.....					809,060	28,804	830,893	26,753	368,550	26,436	323,750	27,150
Crabs, hard.....									70,000	625	68,640	818
Crabs, soft.....									600	80	1,040	104
Frogs.....									600	100	660	110
Total.....					809,060	28,804	830,893	26,753	439,750	27,241	894,090	28,182
Grand total.....	554,781	18,605	431,357	14,536	896,861	34,432	988,810	31,639	2,141,550	56,298	1,857,875	51,382

  

Apparatus and species.	York.				Total for State.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Seines:								
Alewives.....					2,269,770	\$16,802	1,733,846	\$15,995
Bluefish.....					267,260	9,338	243,820	8,481
Carp.....					2,735	122	3,155	137
Catfish.....					120,160	3,449	110,095	3,214
Croakers.....					162,073	6,765	157,315	6,192
Drum.....					1,200	60	600	30
Eels.....					2,000	120	1,568	94
Flounders.....					3,800	114	4,000	120
Kingfish and whiting.....					49,225	4,607	44,935	4,214
Menhaden.....					95,000	950	100,000	1,000
Mullet.....					96,500	2,075	101,700	2,196
Perch.....					154,232	5,570	135,350	4,880
Sea bass.....					5,600	318	6,000	360
Shad.....					518,612	15,678	398,848	13,061
Spots.....					135,340	5,909	131,219	5,618
Squeteague.....					639,284	21,047	687,585	18,750
Striped bass.....					87,740	7,535	80,773	6,888
Sturgeon.....					8,050	320	6,530	261
Suckers.....					21,925	628	17,600	505
Other fish.....					228,925	6,636	210,463	6,069
Total.....					4,809,437	108,039	4,176,362	98,074
Gill nets:								
Alewives.....					1,398,600	12,362	1,227,700	11,081
Bluefish.....					76,725	2,844	81,400	3,099
Catfish.....					3,800	100	3,300	84
Menhaden.....					150,000	350	150,000	350
Perch.....					109,051	6,434	155,082	5,044
Pike.....					12,638	759	7,595	458
Shad.....					2,972,006	90,162	2,410,861	73,469
Spanish mackerel.....					14,250	1,200	14,000	1,170
Mullet.....					8,000	480	9,000	540
Spots.....					16,000	645	14,500	550
Squeteague.....					67,478	2,686	70,740	2,959
Striped bass.....					108,124	10,146	89,951	8,385
Sturgeon.....					179,652	6,415	141,796	4,697
Suckers.....					31,872	894	27,500	793
Other fish.....					480,291	12,015	448,289	11,368
Total.....					6,089,087	147,482	4,857,214	124,617

Statement by counties, apparatus, and species of the yield of the shore fisheries of Virginia—Continued.

Apparatus and species.	York.				Total for State.			
	1890.		1891.		1890.		1891.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
<b>Pound nets:</b>								
Alewives	75,000	\$750	50,000	\$500	6,951,178	\$62,205	8,033,639	\$66,566
Bluefish	20,000	600	15,000	450	970,721	39,028	1,202,398	47,048
Carp					6,000	263	10,215	439
Catfish					369,090	12,128	442,905	14,654
Cobia or crab-eater					194,537	4,798	195,250	4,948
Croaker					282,160	9,120	247,980	8,075
Drum					120,405	2,361	117,340	2,210
Eels					61,105	2,302	62,220	2,208
Flounders					61,000	1,770	61,885	1,700
Kingfish and whiting					95,331	2,843	79,130	2,373
Menhaden					5,742,013	10,624	5,044,634	10,125
Perch					130,737	6,410	143,564	6,930
Pike					3,920	280	4,820	337
Pompano					86,246	8,466	93,700	9,520
Sea bass					1,113	8	1,340	10
Shad	33,250	755	29,165	750	3,732,434	121,664	3,645,467	119,677
Sheepshead					14,405	720	18,200	855
Spanish mackerel					634,543	45,061	725,010	49,586
Spots					105,578	4,104	108,880	4,565
Squeteague	51,000	1,530	39,500	1,185	1,969,368	63,435	1,759,464	58,718
Striped bass					270,164	23,008	256,623	21,824
Sturgeon	10,000	150	10,000	150	629,068	17,770	575,320	19,400
Suckers					85,841	1,034	40,220	1,155
Other fish	10,500	315	10,000	300	880,761	21,564	837,605	20,341
<b>Total</b>	<b>199,750</b>	<b>4,100</b>	<b>153,065</b>	<b>3,335</b>	<b>23,328,618</b>	<b>462,790</b>	<b>23,790,835</b>	<b>471,500</b>
<b>Fyke nets:</b>								
Alewives					10,650	190	8,300	163
Catfish					37,958	1,329	37,532	1,310
Croakers	1,700	80	8,300	390	25,555	973	33,595	1,327
Flounders	11,700	585	10,000	500	17,000	793	15,900	748
Perch					32,019	1,189	30,737	1,145
Shad	29,165	875	24,500	700	43,025	1,400	37,450	1,183
Spots	3,500	175	1,800	90	14,000	490	10,500	351
Squeteague	30,000	1,200	38,000	1,120	76,715	2,819	78,149	2,595
Striped bass	6,000	600	3,350	335	42,695	3,570	36,814	3,012
Suckers					9,444	254	10,984	300
Other fish	17,500	625	11,100	333	34,390	1,100	25,900	771
<b>Total</b>	<b>99,565</b>	<b>4,140</b>	<b>97,050</b>	<b>3,468</b>	<b>343,451</b>	<b>14,107</b>	<b>325,861</b>	<b>12,845</b>
<b>Weirs:</b>								
Alewives					11,500	115	10,000	100
Shad					130	5	116	4
Suckers					18,985	380	20,000	400
Other fish					22,500	588	25,000	625
<b>Total</b>					<b>53,115</b>	<b>1,088</b>	<b>55,116</b>	<b>1,129</b>
<b>Lines:</b>								
Bluefish	12,000	360	10,000	300	155,315	5,935	169,046	6,597
Catfish					408,894	10,827	340,452	9,225
Croakers	15,000	450	17,000	513	672,237	21,687	631,150	20,484
Drum					65,345	1,733	61,562	1,771
Flounders	16,000	480	13,000	390	44,335	1,526	45,510	1,541
Kingfish and whiting	3,000	60	3,000	60	23,500	470	25,500	510
Perch					4,375	262	3,500	210
Sea bass					54,010	1,720	58,970	1,900
Sheepshead					8,370	537	7,671	489
Spots	26,500	705	28,500	855	379,540	14,228	384,078	14,142
Squeteague	46,500	1,395	38,500	1,155	1,313,684	40,578	1,328,311	41,535
Striped bass					20,430	2,043	19,875	1,988
Other fish	10,000	300	11,000	330	102,022	3,236	94,340	2,831
<b>Total</b>	<b>129,000</b>	<b>3,840</b>	<b>121,000</b>	<b>3,603</b>	<b>3,252,657</b>	<b>104,782</b>	<b>3,170,565</b>	<b>108,223</b>
<b>Pots and spears:</b>								
Eels					8,825	597	7,825	515
<b>Miscellaneous:</b>								
Oysters	1,000,721	49,404	1,024,100	44,888	30,866,492	1,876,316	31,627,085	1,897,741
Quahogs	103,920	6,495	103,638	6,480	551,888	36,815	559,278	36,030
Crabs, hard					2,584,794	28,210	2,308,071	32,083
Crabs, soft					440,340	26,054	585,950	29,379
Crawfish							833	75
Frogs					20,232	2,655	21,000	2,754
Terrapins	3,150	2,700	3,150	2,700	52,519	19,066	52,215	18,494
Turtles	5,000	150	5,000	150	203,028	4,279	189,121	3,934
<b>Total</b>	<b>1,112,791</b>	<b>58,749</b>	<b>1,135,888</b>	<b>54,218</b>	<b>34,720,193</b>	<b>1,993,095</b>	<b>35,343,559</b>	<b>2,021,090</b>
<b>Grand total</b>	<b>1,541,106</b>	<b>70,829</b>	<b>1,507,003</b>	<b>64,624</b>	<b>72,265,383</b>	<b>2,832,280</b>	<b>71,733,337</b>	<b>2,833,053</b>

*Statistics of oyster-packing and crab-packing trades.*—One of the most important branches of the fishing industry of Virginia is the wholesale trade in raw and canned oysters, which is centered at Norfolk. In 1891, 50 firms were engaged in this business. These gave employment to 2,395 persons on shore, to whom \$405,000 was paid in wages. The quantity of oysters utilized was 2,617,647 bushels, for which \$1,184,694 was paid. The products as sold consisted of 1,667,040 gallons, for which \$1,509,542 was received; 225,013 bushels disposed of in the shell, bringing \$269,208; and 396,626 cans of oysters, having a market value of \$56,610. The details of this branch in 1890 and 1891 are shown in the table:

*Summary of the oyster-packing trade of Virginia.*

Designation.	1890.	1891.
Number of firms.....	39	50
Number of persons employed.....	1,902	2,395
Value of property.....	\$310,500	\$355,000
Cash capital.....	\$208,300	\$295,000
Wages paid.....	\$337,196	\$405,306
Oysters handled..... bushels..	2,135,078	2,617,647
Value.....	\$971,847	\$1,184,694
Sold opened..... gallons..	1,348,600	1,667,040
Value.....	\$1,208,798	\$1,509,542
Sold in the shell..... bushels..	228,753	225,013
Value.....	\$290,848	\$269,208
Canned..... quart cans..	374,026	396,626
Value.....	\$52,947	\$56,610

The business of extracting the meat of cooked hard crabs and shipping it in buckets is engaged in by a few firms at Norfolk and Hampton. In 1891 three firms employed 317 persons, to whom \$15,367 was paid in wages. Over 10,000 barrels of hard crabs, equivalent to 3,352,000 crabs, having a value of about \$12,500, were utilized in preparing 216,480 pounds of meat, worth \$40,776. A summary of this branch of the fishing industry for 1890 and 1891 is given in the following table:

*Summary of the crab-packing industry of Virginia.*

Designation.	1890.	1891.
Number of firms.....	2	3
Number of persons employed:		
Male, white.....	17	22
Male, colored.....	25	40
Female, colored.....	190	255
Total.....	232	317
Value of property.....	\$24,000	\$24,000
Cash capital.....	\$14,000	\$17,000
Wages paid.....	\$19,250	\$15,367
Number of barrels of crabs used.....	10,363	10,158
Cost.....	\$9,000	\$12,461
Pounds of crab meat prepared.....	252,624	216,480
Value.....	\$50,637	\$40,776

## STATISTICS OF SPECIAL FISHERIES.

## THE SHAD FISHERIES.

The shad is the most valuable fish taken in the Middle Atlantic States and is second only to the oyster among all the fishery products of the region. In every State it is the most important fish taken. In being the fish which has been most extensively propagated in the United States, the shad has additional interest, and much of the present importance of the shad fishery is undoubtedly due to the effects of the fish-cultural operations of the General Government and the States.

The following tables show the full extent of the shad fishery in each of the States of this section. In the preceding tables only the quantity of shad taken and the value of the catch are given. In the present statistics, however, the number of shad fishermen and the quantity and value of the shad apparatus are exhibited. The figures relate to each State and the entire region, and apply to the year 1891.

The first table shows the number of persons in each State who fished especially for shad and used the forms of apparatus indicated. While it is probable that slight duplication occurs in some localities in which fishermen may operate more than one kind of apparatus for shad, the extent of this practice is very limited.

The number of shad fishermen was 11,592, of whom the greatest number, 3,835, were in Maryland, and the smallest, 658, in Delaware. More than half the men employed gill nets, and about a fourth used seines, these two forms of apparatus being prominent in every State. A few persons fished shad fykes in New Jersey, and a small number used dip nets in Pennsylvania. Pound-net fishermen, who were found only in Maryland and Virginia, rank after the gill-net and seine men in number.

The value of the apparatus, boats, and other property devoted to the shad fishery of the Middle Atlantic States was \$1,018,466. The principal items in this sum were gill nets, of which 23,197, valued at \$325,767, were fished. The 5,858 boats employed in the various branches of the fishery had a value of \$314,867. The number of pound nets set was 1,333, with a value of \$193,390. Next in value were the 564 seines, \$100,918. Two hundred and twenty-four fyke nets worth \$4,050, and 170 dip nets with a value of \$494, complete the list of apparatus. Reels and other shore property connected with the fishery had a value of \$78,930. The largest investment was in Maryland, which had the most seines and gill nets. Virginia ranked next in aggregate investment, and took precedence in the number of pound nets.

Apparatus used specially for shad took 8,247,191 fish, for which the fishermen received \$1,187,969, or an average of 14.4 cents per fish. The number of shad taken incidentally in apparatus fished primarily for other fish was 190,955, worth \$28,620. Two-thirds of the shad were caught with gill nets. Pound nets ranked next, and then seines. The catch of the other apparatus was relatively insignificant. Gill nets as means of capture were most important in New Jersey, seines in Pennsylvania, pound nets in Virginia.

*Persons engaged in the shad fisheries of the Middle Atlantic States.*

How engaged.	New York.	New Jersey.	Pennsylvania.	Delaware.	Maryland.	Virginia.	Total.
Seine fishery.....	253	351	719	261	1,255	93	2,932
Gill-net fishery.....	988	1,724	350	397	2,102	1,585	7,146
Pound-net fishery.....					478	804	1,372
Fyke-net fishery.....		23					23
Dip-net fishery.....			119				119
Total.....	1,241	2,098	1,188	658	3,835	2,572	11,592

*Apparatus, boats, and shore property employed in the shad fisheries of the Middle Atlantic States.*

Designation.	New York.		New Jersey.		Pennsylvania.	
	No.	Value.	No.	Value.	No.	Value.
Seines .....	56	\$8,395	45	\$14,965	146	\$18,745
Boats .....	90	5,190	98	7,810	280	13,076
Shore property .....		3,668		4,150		5,362
Gill nets .....	2,930	58,770	3,306	101,280	184	18,770
Boats .....	701	38,775	943	96,150	189	11,165
Shore property .....		6,018		6,345		
Fyke nets .....			224	4,050		
Boats .....			17	1,550		
Shore property .....				900		
Dip nets .....					170	494
Boats .....					97	1,064
Total .....		120,814		287,209		68,676

  

Designation.	Delaware.		Maryland.		Virginia.		Total.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Seines .....	76	\$3,653	214	\$36,650	27	\$18,510	564	\$100,018
Boats .....	88	1,815	261	14,989	42	1,415	859	44,295
Shore property .....		350		9,340		2,520		25,890
Gill nets .....	236	16,833	10,254	90,050	6,287	39,464	23,197	325,767
Boats .....	201	8,826	1,112	63,987	874	12,000	4,020	230,863
Shore property .....		450		0,120		7,920		26,861
Pound nets .....			625	59,510	708	138,880	1,333	193,390
Boats .....			251	11,310	614	25,685	865	36,895
Shore property .....				3,880		21,950		25,830
Fyke nets .....							224	4,050
Boats .....							17	1,550
Shore property .....								900
Dip nets .....							170	494
Boats .....							97	1,064
Total .....		31,927		296,436		263,404		1,018,466

*Yield of shad in the Middle Atlantic States.*

Apparatus.	New York.		New Jersey.		Pennsylvania.	
	Number.	Value.	Number.	Value.	Number.	Value.
Special apparatus:						
Seines .....	82,622	\$16,668	211,223	\$43,733	420,615	\$81,772
Gill nets .....	660,923	139,932	2,000,100	385,889	305,802	44,448
Fyke nets .....			32,500	5,261		
Dip nets .....					8,118	2,029
Total .....	743,545	156,600	2,843,823	434,883	743,535	128,249
Other apparatus:						
Seines .....	412	80	9,107	1,719		
Pound nets .....	10,163	2,456	26,662	6,026		
Fyke nets .....	8,826	2,073	4,490	810	120	25
Total .....	19,401	4,609	40,259	8,555	120	25
Grand total .....	762,946	161,209	2,884,082	443,438	743,655	128,274

  

Apparatus.	Delaware.		Maryland.		Virginia.		Total.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Special apparatus:								
Seines .....	32,964	\$7,140	369,072	\$47,280	117,946	\$12,904	1,243,442	\$209,587
Gill nets .....	394,952	57,418	1,018,263	121,806	708,240	73,082	5,688,280	822,665
Pound nets .....			254,832	31,896	1,020,019	116,531	1,274,851	148,427
Fyke nets .....							32,500	5,261
Dip nets .....							8,118	2,029
Total .....	427,916	64,558	1,642,167	201,072	1,846,205	292,607	8,247,191	1,187,969
Other apparatus:								
Seines .....			28,526	4,213	705	67	38,750	6,079
Gill nets .....			16,160	1,853	4,436	987	20,596	2,240
Pound nets .....	566	80	19,678	2,652	35,345	3,146	92,414	14,860
Fyke nets .....	426	61	8,371	1,023	12,843	1,183	35,076	5,175
Minor apparatus .....			4,080	762	39	4	4,119	766
Total .....	992	141	76,815	10,503	53,368	4,787	190,955	28,620
Grand total .....	428,908	64,699	1,718,982	211,575	1,899,573	297,394	8,438,146	1,216,589

The average price of the shad varies considerably with the apparatus and the State in which the fish are taken. Considering the aggregate catch, the fish obtained with seines have a higher valuation than those secured by other means, and the shad taken in New York bring the best price.

*The average prices received for shad in 1891, specified by States and by apparatus in which taken*

States.	Gill nets.	Pound nets.	Seines.	Fyke nets.	All other nets.	Total.
	<i>Cents.</i>	<i>Cents.</i>	<i>Cents.</i>	<i>Cents.</i>	<i>Cents.</i>	<i>Cents.</i>
New York .....	21.2	24.2	20.2	23.5	.....	21.1
New Jersey .....	14.8	22.6	20.6	16.4	.....	15.4
Pennsylvania .....	14.5	.....	19.0	20.8	25.0	17.2
Delaware .....	14.5	14.1	21.7	14.3	.....	15.1
Maryland .....	12.0	12.6	12.9	12.2	18.7	12.3
Virginia .....	10.3	11.3	14.1	9.2	10.3	10.9
Total .....	14.4	11.9	16.8	15.4	22.8	14.4

#### THE GENERAL MOLLUSCAN FISHERIES.

The taking of economic mollusks is the most important branch of the fishing industry of the Middle Atlantic States. More persons are engaged and more capital is invested in the shellfish fisheries of the region than in all other branches combined, and the value of these products is about four-fifths that of the entire fishery output. The mollusks which have commercial importance are oysters, mussels, scallops, quahogs or hard clams, soft clams, and several species of univalve shells locally known as "jingles" and "quarter-decks," which are employed in oyster planting. The appended tables relating to 1891 indicate the various phases of the business.

Of 49,653 persons engaged in the fisheries for mollusks, 21,878 were in Maryland and 16,352 in Virginia, in addition to the large number of employes connected with the oyster-shucking and oyster-canning trades, which are not now under consideration.

The capital invested in the molluscan fisheries was \$6,154,329, of which \$2,562,178 is credited to Maryland, and over \$1,000,000 to each of the States of Virginia, New York, and New Jersey. Of the 3,008 vessels employed in taking shellfish, 1,223 were in Maryland, 707 in Virginia, 516 in New York, and 496 in New Jersey. The transporting fleet numbered 723, of which 611 were in Maryland and Virginia. Over 21,500 boats were employed, of which 6,974 were in Virginia and 6,692 in Maryland.

The value of the mollusks taken was \$13,690,810. Of this amount Maryland had \$5,304,092, New York \$3,570,211, Virginia \$2,560,378, New Jersey \$2,059,481, Pennsylvania \$124,420, and Delaware \$72,228. The quantity of products taken was 23,112,640 bushels, of which oysters constituted 21,346,107 bushels, valued at \$12,402,925, and round clams or quahogs 1,088,438 bushels, valued at \$1,068,904. Oysters are taken by citizens of every State of this region, and quahogs in every State but Pennsylvania, while soft clams and mussels have commercial importance only in New York and New Jersey, and scallops and shells only in New York.

*Persons engaged in the molluscan fisheries of the Middle Atlantic States.*

States.	Fishermen.	Transporters.	Total.
New York .....	5,970	101	6,071
New Jersey .....	4,877	134	4,811
Pennsylvania .....	233	.....	233
Delaware .....	265	43	308
Maryland .....	20,434	1,444	21,878
Virginia .....	15,642	710	16,352
Total .....	47,221	2,432	49,653

*Apparatus, vessels, boats, and shore property employed in the molluscan fisheries of the Middle Atlantic States.*

States.	Value of apparatus.	Vessels fishing.			Vessels transporting.			Boats (shore).		Floats and shore property.	Total investment.
		No.	Value.	Value of outfit.	No.	Value.	Value of outfit.	No.	Value.		
New York....	\$118,912	516	\$391,270	\$55,682	41	\$44,100	\$5,710	4,819	\$318,985	\$144,500	\$1,080,159
New Jersey..	82,949	406	479,070	109,545	55	70,250	7,636	2,918	185,292	166,380	1,078,122
Pennsylvania..	5,085	41	73,650	11,525	.....	.....	.....	.....	.....	.....	90,210
Delaware.....	2,522	25	21,525	3,360	16	13,250	1,975	112	1,746	2,860	47,268
Maryland.....	192,626	1,223	877,505	325,658	309	569,000	59,190	6,692	516,849	21,850	2,562,178
Virginia.....	75,511	707	385,160	132,875	212	242,895	29,421	6,974	412,030	18,500	1,296,392
Total...	458,555	3,008	2,228,180	635,675	723	939,495	103,932	21,515	1,434,902	353,590	6,154,329

*Products of the molluscan fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Pennsylvania.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
Oysters.....	2,811,062	\$2,748,509	2,302,081	\$1,639,648	169,100	\$124,420
Quahogs or hard clams.....	505,595	650,621	431,753	371,933	.....	.....
Soft clams or long clams.....	150,550	105,891	82,700	47,700	.....	.....
Mussels.....	2,100	900	300	200	.....	.....
Scallops.....	69,565	48,340	.....	.....	.....	.....
Shells.....	372,580	15,950	.....	.....	.....	.....
Total.....	3,771,422	3,570,211	2,817,134	2,059,481	169,100	124,420

  

Species.	Delaware.		Maryland.		Virginia.		Total.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
Oysters.....	156,720	\$70,134	9,945,058	\$5,295,806	6,162,086	\$2,524,348	21,346,107	\$12,402,925
Quahogs or hard clams.....	2,740	2,094	18,470	8,226	69,910	36,030	1,088,438	1,008,904
Soft clams or long clams.....	.....	.....	.....	.....	.....	.....	233,250	153,591
Mussels.....	.....	.....	.....	.....	.....	.....	2,700	1,100
Scallops.....	.....	.....	.....	.....	.....	.....	69,565	48,340
Shells.....	.....	.....	.....	.....	.....	.....	372,580	15,950
Total.....	159,460	72,228	9,963,528	5,304,092	6,231,996	2,560,378	23,112,640	13,690,810

## THE OYSTER INDUSTRY.

The following series of tables illustrates the extent of the most important branch of the fishing industry of the Middle Atlantic region. In the consideration of the general molluscan fisheries, the oyster fishery was included, but no separate figures for the persons and for the vessels, boats, and apparatus were given, and the shore industry connected with the fishery was not shown.

It appears from the first table that 60,631 persons were engaged in this industry, of whom 13,192 were vessel fishermen, 29,479 boat fishermen, 2,418 transporters, and 15,542 shore employes. In each of these items Maryland held the first rank, and the total for the State was 32,104.

The capital invested in the oyster industry was \$13,047,094, of which more than half, or \$6,697,302, is to be credited to Maryland. The 2,839 fishing vessels employed were valued, with their outfits and apparatus, at \$3,018,003, and the 723 transporting vessels had a value of \$1,039,802. The value of the 17,830 boats used in the shore fisheries was \$1,222,356, and the apparatus employed in connection with the boat fishing had a value of \$189,118.

The output of the oyster fishery was 21,346,107 bushels, valued at \$12,402,925. The yield in the vessel fishery was 9,468,156 bushels, valued at \$5,614,368, and in the shore fishery 11,877,951 bushels, having a value of \$6,788,557. The shore fishery was more important than the vessel fishery in New York, Maryland, and Virginia. In the

value of its oyster fishery New York ranks next to Maryland, although the quantity of oysters taken is less than half that in Virginia.

*Persons engaged in the oyster industry of the Middle Atlantic States.*

States.	In vessel fishery.	In shore fishery.	On transporting vessels.	On shore, in markets, etc.	Total.
New York.....	1,126	2,458	96	1,145	4,825
New Jersey.....	1,647	1,042	184	329	4,052
Pennsylvania.....	233			172	405
Delaware.....	103	153	43	353	652
Maryland.....	6,862	12,505	1,444	11,293	32,104
Virginia.....	3,221	12,421	701	2,250	18,593
Total.....	13,192	29,479	2,418	15,542	60,631

*Vessels, boats, apparatus, shore property, and cash capital employed in the oyster industry of the Middle Atlantic States.*

Designation.	New York.		New Jersey.		Pennsylvania.	
	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	441	\$357,457	402	\$430,995	41	\$73,650
Tonnage.....	4,556		6,540		1,007	
Outfit.....		84,635		95,170		11,525
Dredges.....	1,465	34,380	1,520	38,930	164	5,035
Tongs and rakes.....	1,420	6,690	13	60		
Vessels transporting.....	41	44,100	55	70,250		
Tonnage.....	796		1,033			
Outfit.....		5,710		7,636		
Boats fishing.....	2,771	206,505	2,123	145,599		
Dredges.....	1,310	13,150	28	675		
Rakes.....	1,260	9,917	40	160		
Tongs.....	3,937	24,266	2,430	11,472		
Shore property and floats.....		974,550		226,380		284,500
Cash capital.....		828,000		467,850		183,750
Total.....		2,289,360		1,495,177		558,460

  

Designation.	Delaware.		Maryland.		Virginia.		Total.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing.....	25	\$21,525	1,223	\$868,505	707	\$385,100	2,839	\$2,137,202
Tonnage.....	304		20,981		8,155		41,543	
Outfit.....		3,390		325,658		132,775		653,153
Dredges.....	100	2,110	2,419	111,374	460	18,210	6,128	210,039
Tongs and rakes.....		494	4,287	1,367	6,482	3,294	17,519	
Vessels transporting.....	16	13,250	399	569,000	212	239,895	723	936,495
Tonnage.....	224		13,111		5,114		20,278	
Outfit.....		1,975		59,100		28,796		103,307
Boats fishing.....	103	1,586	5,859	456,636	6,974	412,030	17,830	1,222,356
Dredges.....			1,726	8,363	99	4,045	3,163	26,233
Rakes.....							1,300	10,077
Tongs.....	103	412	12,367	69,814	9,880	46,844	28,717	152,808
Shore property and floats.....		19,880		2,282,525		356,030		3,844,765
Cash capital.....		18,500		1,041,950		293,000		3,733,050
Total.....		82,028		6,697,302		1,924,167		13,047,094

*Yield of the oyster fishery of the Middle Atlantic States.*

States.	Vessel fishery.		Shore fishery.		Total.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
New York.....	1,282,252	\$1,185,549	1,328,810	\$1,562,960	2,611,062	\$2,748,509
New Jersey.....	1,499,759	1,018,302	802,322	621,346	2,302,081	1,639,648
Pennsylvania.....	169,160	124,420			169,160	124,420
Delaware.....	59,000	43,650	97,720	26,484	156,720	70,134
Maryland.....	4,814,114	2,615,840	5,130,944	2,680,026	9,945,058	5,295,866
Virginia.....	1,643,931	626,607	4,518,155	1,897,741	6,162,086	2,524,348
Total.....	9,468,156	5,614,308	11,877,951	6,788,557	21,346,107	12,402,925



## THE LOBSTER FISHERY.

Although the taking of lobsters is not one of the prominent branches of the fishing industry of this region, it possesses special interest in that the lobster here reaches the southern limits of its range as an economic product, Delaware being the southernmost State in which it is obtained.

Eighty-four persons in the three most northern coast States of the region were engaged in this fishery in 1891; of these, 55 were in New York, 27 in New Jersey, and 2 in Delaware. The pots used numbered 3,235 and had a value of \$4,987. The catch consisted of 338,957 pounds, for which the fishermen received \$28,528. The yield was largest in New Jersey, but the value of the output was greatest in New York.

*Extent of the lobster fishery of the Middle Atlantic States.*

Designation.	New York.		New Jersey.		Delaware.		Total.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Persons employed .....	55	.....	27	.....	2	.....	84	.....
Apparatus, vessels, and boats:								
Pots .....	2,240	\$3,469	955	\$1,418	40	\$100	3,235	\$4,987
Vessels .....	2	8,020	1	1,100	.....	.....	3	9,120
Outfit .....	.....	1,860	.....	375	.....	.....	.....	2,235
Boats .....	34	1,140	12	870	1	40	47	2,050
Total .....	.....	14,489	.....	3,763	.....	140	.....	18,392
Products:								
Lobsters ..... pounds..	165,093	15,655	165,664	12,463	8,200	410	338,957	28,528

## THE SEINE FISHERIES.

The seine is one of the most generally used forms of apparatus employed in the fisheries of the region, and in some States and some fisheries is more prominent than any other means of capture. The output of the seines is larger and more valuable than that of any other apparatus used in taking fish, considering the entire region. The extent of the fisheries thus prosecuted is shown in the following tabulations.

The number of persons engaged in seine fishing in the Middle Atlantic States in 1891 was 8,157; the number of seines used was 1,808, valued at \$278,230; the number of vessels engaged was 80, valued at \$535,000; the boats used numbered 2,187 and were worth \$131,425; the value of the shore property was \$79,557; the total investment was \$1,113,210; the quantity of products taken was 278,159,491 pounds, for which \$1,427,790 was received.

The most valuable fish taken with seines is the menhaden; this is also secured in larger quantities than any other fish. The catch in 1891 was 245,861,226 pounds, valued at \$580,677. Almost the entire yield is taken with vessels employing purse seines. The shad ranks next in value, although the alewives are obtained in larger quantities. The production was 4,624,645 pounds, having a value of \$215,666. Of alewives, 16,622,834 pounds were taken, worth \$136,411; of squeteague, 3,176,675 pounds, valued at \$99,932; and of striped bass 893,065 pounds, with a value of \$90,087.

Of the prominent fish taken with seines, the menhaden is most valuable in New York, the squeteague and the yellow perch in New Jersey, the shad in Pennsylvania, the alewives, the white perch, and the striped bass in Maryland, and the spot in Virginia.

*Persons, apparatus, vessels, boats, and shore property employed in the seine fisheries of the Middle Atlantic States.*

States.	No. of persons.	Seines.		Vessels.			Boats.		Shore property.	Total investment.
		No.	Value.	No.	Value.	Value of outfit.	No.	Value.		
New York .....	1,410	327	\$75,640	26	\$245,000	\$47,655	385	\$27,980	\$4,886	\$401,161
New Jersey .....	1,459	372	38,022	11	40,050	10,987	423	17,476	9,340	115,875
Pennsylvania .....	731	151	19,405	.....	.....	.....	284	13,155	5,357	37,917
Delaware .....	694	203	10,263	.....	.....	.....	217	4,610	2,230	17,103
Maryland .....	2,487	536	76,780	13	20,500	4,010	506	58,764	26,644	186,698
Virginia .....	1,376	219	58,120	30	229,450	26,346	282	9,440	31,100	354,456
Total .....	8,157	1,808	278,430	80	535,000	88,998	2,187	131,425	79,557	1,113,210

*Products of the seine fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	1,136,597	\$14,615	1,783,470	\$12,128	2,104,700	\$10,945
Bluefish .....	1,230,495	50,228	20,900	1,567	.....	.....
Catfish .....	17,025	996	88,609	4,824	31,483	1,754
Drum .....	.....	.....	95,240	203	.....	.....
Eels .....	10,748	725	72,200	4,518	.....	.....
Flounders .....	15,650	750	95,500	4,260	.....	.....
Kingfish .....	124,318	7,750	17,400	1,142	.....	.....
Menhaden .....	90,057,690	288,123	16,441,436	42,955	.....	.....
Mullet .....	180,060	7,878	88,350	4,992	.....	.....
Perch .....	41,808	2,901	578,773	30,921	6,495	368
Pike .....	.....	.....	17,585	1,738	975	97
Sea bass .....	248,614	12,715	8,400	458	.....	.....
Shad .....	332,085	16,748	788,175	45,452	1,575,309	81,772
Sheepshead .....	.....	.....	6,000	955	.....	.....
Spanish mackerel .....	57,604	4,031	.....	.....	.....	.....
Spots and croakers .....	.....	.....	11,200	521	.....	.....
Squeteague .....	401,030	19,803	775,600	36,989	.....	.....
Striped bass .....	95,503	8,406	180,658	27,276	5,280	532
Sturgeon .....	.....	.....	.....	.....	.....	.....
Suckers .....	.....	.....	10,730	417	23,100	1,197
Tautog .....	1,800	110	1,900	136	.....	.....
Tomcod or frostfish .....	179,150	7,166	.....	.....	.....	.....
Other fish .....	78,197	2,997	38,040	1,715	69,905	3,600
Total .....	103,188,374	445,951	21,124,166	223,077	3,817,247	100,208

Species.	Delaware.		Maryland.		Virginia.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	515,640	\$7,178	9,356,231	\$75,547	1,733,846	\$15,995	16,630,484	\$136,411
Bluefish .....	.....	.....	110,519	5,026	253,820	8,781	1,624,734	65,602
Catfish .....	21,000	1,135	373,257	13,194	110,995	3,214	642,369	25,117
Drum .....	30,000	380	.....	.....	600	30	125,840	613
Eels .....	.....	.....	40,176	1,685	1,568	94	124,602	7,022
Flounders .....	5,000	168	.....	.....	4,000	120	120,150	5,298
Kingfish .....	.....	.....	.....	.....	44,935	4,214	186,653	13,115
Menhaden .....	8,000	40	29,568,400	62,511	100,785,700	187,048	245,861,226	580,677
Mullet .....	3,800	114	44,300	1,586	101,700	2,196	398,210	16,676
Perch .....	143,780	8,220	917,667	39,015	135,350	4,880	1,818,873	86,305
Pike .....	7,800	558	189,677	11,632	.....	.....	218,087	14,025
Sea bass .....	.....	.....	110,000	4,400	6,000	360	373,014	17,933
Shad .....	115,374	7,140	1,414,854	51,493	398,848	13,061	4,624,645	215,666
Sheepshead .....	.....	.....	.....	.....	.....	.....	6,000	955
Spanish mackerel .....	.....	.....	4,267	640	.....	.....	61,871	4,671
Spots and croakers .....	15,900	811	68,075	2,907	288,594	11,810	361,709	16,139
Squeteague .....	1,114,000	16,188	197,560	8,108	687,585	18,759	3,176,675	99,932
Striped bass .....	44,850	5,958	486,001	41,027	80,773	6,388	893,005	90,087
Sturgeon .....	.....	.....	6,940	317	6,530	261	13,470	578
Suckers .....	5,200	266	81,100	2,096	17,660	505	137,790	4,421
Tautog .....	.....	.....	.....	.....	.....	.....	3,700	246
Tomcod or frostfish .....	.....	.....	.....	.....	.....	.....	179,150	7,166
Other fish .....	.....	.....	159,374	4,617	213,618	6,206	559,134	19,135
Total .....	2,029,244	48,156	43,128,398	325,976	104,872,062	284,422	278,159,491	1,427,790

## THE GILL-NET FISHERIES.

In 1891 the gill-net fisheries of this region gave employment to 9,134 persons, a larger number than was found in any other fishery, with the exception of the oyster. Of these, 2,368 were in New Jersey, 2,235 in Maryland, 1,664 in New York, 1,564 in Virginia, 906 in Delaware, and 397 in Pennsylvania.

Of the total amount of capital devoted to this fishery, viz, \$820,182, \$419,722 represented the 30,158 gill nets employed; \$328,282 the 5,079 boats used, and \$72,178 the shore property required for the proper prosecution of the fishery. Maryland had a larger number of nets than any other State; but the value of the nets was greatest in New Jersey, and the aggregate investment in the latter State was also greatest.

The yield of the gill-net fisheries was 33,682,198 pounds, valued at \$1,159,031. The fishermen of New Jersey took 10,586,442 pounds and received \$435,908 for their catch. New York is credited with an output of 4,953,280 pounds, valued at \$222,014. Maryland ranks third, with 8,571,287 pounds, for which \$217,088 was received. Virginia fishermen took 4,857,214 pounds, having a value of \$124,617.

The preminent fish in the gill-net fishery is the shad; the catch was 20,515,161 pounds, worth \$824,936. Bluefish, squeteague, striped bass, sturgeon, and alewives are the next important species.

*Persons, apparatus, boats, and shore property employed in the gill-net fisheries of the Middle Atlantic States.*

States.	No. of persons.	Gill nets.		Boats.		Shore property.	Total investment.
		No.	Value.	No.	Value.		
New York .....	1,664	6,402	\$88,450	995	\$59,715	\$15,566	\$103,731
New Jersey .....	2,368	8,983	129,832	1,261	143,014	44,742	317,588
Pennsylvania .....	397	200	21,450	211	12,705	480	34,635
Delaware .....	906	1,586	33,946	471	22,132	1,250	57,328
Maryland .....	2,235	11,909	100,014	1,194	74,571	2,280	176,865
Virginia .....	1,564	5,979	46,030	947	16,145	7,800	70,035
Total .....	9,134	30,158	419,722	5,079	328,282	72,178	820,182

*Products of the gill-net fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	987,440	\$7,780	13,700	\$160	222,000	\$2,475
Bluefish .....	709,050	37,467	254,600	11,767		
Cod .....			45,800	1,603		
Menhaden .....			214,763	1,507		
Mullet .....						
Perch .....	17,150	1,527	33,500	3,162		
Pike .....			1,900	160		
Sea bass .....	75,041	6,617				
Shad .....	2,043,095	139,932	9,196,938	385,839	1,088,050	44,448
Spanish mackerel .....			35,410	5,710		
Spots and croakers .....			1,700	81		
Squeteague .....	438,517	23,153	210,800	8,407		
Striped bass .....	14,200	1,701	49,371	6,618		
Sturgeon .....	7,560	302	428,700	9,562	52,700	640
Suckers .....	8,070	650	500	15		
Other fish .....	51,357	2,885	93,760	1,261	7,800	390
Total .....	4,953,280	222,014	10,586,442	435,908	1,370,550	47,953

*Products of the gill-net fisheries of the Middle Atlantic States—Continued.*

Species.	Delaware.		Maryland.		Virginia.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	335,100	\$5,149	2,806,900	\$15,723	1,227,700	\$11,081	5,592,840	\$42,368
Bluefish .....			219,020	9,782	81,400	3,069	1,284,670	62,085
Cod .....							45,800	1,603
Menhaden .....	59,000	380	451,000	1,084	150,000	350	874,763	3,321
Mullet .....	35,100	1,011	50,640	1,250	9,000	540	94,740	2,801
Perch .....	93,515	6,902	424,804	19,573	155,682	5,644	724,651	36,806
Pike .....	16,650	960	150,893	9,398	7,595	458	177,038	10,982
Sea bass .....							75,041	6,617
Shad .....	1,382,330	67,418	3,787,787	123,780	2,418,361	73,469	20,515,161	824,936
Spanish mackerel .....			10,370	1,105	14,000	1,170	59,780	7,985
Spots and croakers .....	28,560	1,469	11,240	499	14,500	550	59,000	2,599
Squeteague .....	23,530	706	85,510	2,871	70,740	2,950	829,097	38,090
Striped bass .....	45,070	6,152	339,276	24,881	89,351	8,385	537,268	47,737
Sturgeon .....	1,304,800	30,448	50,300	1,390	141,796	4,667	1,985,856	47,039
Suckers .....	5,650	227	20,800	520	27,500	793	63,120	2,205
Other fish .....	14,120	629	162,747	5,232	451,589	11,452	786,378	21,849
Total .....	3,343,425	111,451	8,571,287	217,088	4,857,214	124,617	33,082,198	1,159,031

## THE POUND-NET FISHERIES.

Pound nets are operated in all the Middle Atlantic States except Pennsylvania. The fishery is especially important in the Chesapeake region on account of the number of nets used and the large quantities of fish taken, and in New York and New Jersey because of the opposition encountered. The extent of the fisheries with pound nets proper and with the closely related traps and weirs is indicated in the following tables, which relate to the year 1891.

Of the 2,512 persons engaged in these fisheries, 1,304 were in Virginia, 691 in Maryland, 261 in New Jersey, 244 in New York, and 12 in Delaware.

While Maryland had the largest number of nets, many of them were of small size. The 1,005 operated were valued at only \$71,778, while 941 in Virginia were worth \$166,990. The 263 nets shown for New York include 90 trap nets operated by vessels—a feature which is not observed in any other State. The value of the 1,557 boats used was \$72,908. Of the total investment of \$550,470, Virginia is credited with \$232,446, New York with \$127,620, and Maryland with \$102,293.

These nets took 50,657,120 pounds of fish, valued at \$888,083. The fishermen of Virginia caught 23,851,951 pounds, for which they received \$472,689, thus obtaining nearly half the quantity and more than half the value of the pound-net yield. In Maryland 8,875,190 pounds were taken, worth \$165,423. The output in New York was larger, viz, 9,909,828 pounds, but the value was only \$123,834. The New Jersey fishermen took 7,992,260 pounds, for which they received \$125,100. The Delaware pound nets caught 27,891 pounds, worth \$1,037. In some of the States small numbers of lobster, king crabs, and squid were also taken in the pound nets, but are not shown in the table.

Considering the entire region, the most prominent fish taken in the pound-net fisheries is the squeteague or weakfish. The quantity taken was 6,433,104 pounds, valued at \$180,995. Shad ranked next in value; of this fish, 4,756,243 pounds were taken, for which \$162,760 were received. Alewives to the quantity of 13,035,391 pounds were obtained; these had a value of \$105,533. The squeteague was the most important fish in New York and New Jersey, the alewives were most prominent in Maryland, and the shad had first rank in Virginia.

*Persons, apparatus, vessels, boats, and shore property employed in the pound-net, trap-net, and weir fisheries of the Middle Atlantic States.*

States.	No. of persons.	Pound nets, trap nets, and weirs.		Vessels.		Value of outfit.	Boats.		Shore property.	Total investment.
		No.	Value.	No.	V. alue.		No.	Value.		
New York.....	244	263	\$71,340	21	\$17,600	\$15,090	136	\$8,620	\$14,970	\$127,620
New Jersey.....	261	185	55,370	.....	.....	.....	71	8,382	23,939	87,691
Delaware.....	12	20	305	.....	.....	.....	10	115	.....	420
Maryland.....	691	1,005	71,778	.....	.....	.....	456	19,815	10,700	102,293
Virginia.....	1,304	941	166,990	.....	.....	.....	884	35,976	29,430	232,446
Total.....	2,512	2,414	365,783	21	17,600	15,090	1,557	72,908	79,080	550,470

*Products of the pound-net, trap-net, and weir fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Delaware.		Maryland.		Virginia.		Total.	
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Alewives.....	38,203	\$727	45,300	\$681	13,020	\$85	4,895,229	\$37,374	8,043,639	\$60,666	13,035,391	\$105,539
Bluefish.....	166,050	0,845	189,979	8,547	.....	.....	109,215	5,038	1,292,398	47,648	1,757,642	68,073
Bonito.....	1,750	150	54,733	2,141	.....	.....	.....	.....	.....	.....	56,483	2,291
Butter-fish.....	794,046	12,340	206,052	5,601	.....	.....	.....	.....	.....	.....	1,000,098	17,941
Catfish.....	.....	.....	.....	.....	3,340	168	306,546	0,712	442,965	14,654	752,851	24,534
Cobia or crab-eater.....	.....	.....	.....	.....	.....	.....	.....	.....	195,250	4,048	195,250	4,948
Drum.....	.....	.....	.....	.....	.....	.....	.....	.....	117,340	2,210	117,340	2,210
Eels.....	75,014	3,500	1,200	84	.....	.....	97,480	3,732	62,226	2,298	235,870	9,614
Flounders.....	221,698	4,934	196,807	4,645	.....	.....	21,500	650	61,885	1,700	501,950	11,929
Kingfish or whiting.....	16,328	2,076	2,247	278	.....	.....	.....	.....	79,130	2,373	97,705	4,727
Mackerel.....	.....	.....	25,017	2,304	.....	.....	.....	.....	.....	.....	25,017	2,304
Menhaden.....	5,154,424	6,672	3,985,176	12,459	6,290	354	932,720	1,712	5,044,634	10,125	15,110,854	30,968
Perch.....	.....	.....	1,300	49	6,290	354	673,898	25,925	143,564	6,930	825,052	38,238
Pike.....	.....	.....	.....	.....	500	80	115,110	6,932	4,820	537	120,430	7,299
Pompano.....	.....	.....	.....	.....	.....	.....	.....	.....	93,700	9,520	93,700	9,520
Soup.....	310,358	6,206	12,982	311	.....	.....	.....	.....	.....	.....	823,340	6,517
Sea bass.....	140,489	7,093	29,188	946	.....	.....	.....	.....	1,340	10	171,017	8,049
Shad.....	36,386	2,456	93,318	6,020	1,491	80	979,465	34,517	3,645,583	119,681	4,756,243	162,700
Sheepshead.....	19,623	3,500	17,240	2,629	.....	.....	.....	.....	16,200	855	52,963	6,984
Skates.....	101,897	2,022	.....	.....	.....	.....	.....	.....	.....	.....	101,897	2,022
Spanish mack'l.....	17,292	3,224	36,981	4,885	.....	.....	30,200	3,624	725,910	49,586	810,323	61,310
Spots and croakers.....	17,501	700	1,080	21	.....	.....	91,870	4,604	356,860	13,240	467,311	18,565
Squeteague.....	1,579,000	48,107	3,012,299	70,336	.....	.....	82,335	3,834	1,750,464	58,718	6,433,104	180,095
Striped bass.....	49,498	6,100	17,400	1,278	1,750	205	270,883	19,651	256,623	21,824	599,124	49,118
Sturgeon.....	21,001	559	23,930	1,657	.....	.....	15,205	636	575,320	16,406	635,466	18,658
Suckers.....	.....	.....	.....	.....	.....	.....	122,750	3,207	60,220	1,555	182,970	4,762
Tantog.....	73,942	2,983	12,437	261	.....	.....	.....	.....	.....	.....	86,370	3,244
Refuge fish.....	286,829	716	.....	.....	.....	.....	.....	.....	.....	.....	286,829	716
Other fish.....	788,683	2,924	27,534	561	1,500	75	130,834	4,280	872,880	21,405	1,821,431	29,245
Total.....	9,909,828	123,834	7,992,200	125,100	27,891	1,037	8,875,190	165,423	23,851,951	472,689	50,657,120	888,083

THE FYKE-NET AND POT FISHERIES.

Fyke nets and pots are very extensively used in this region and contribute very materially to the income of a large class of semiprofessional fishermen as well as constituting a part of the fishing outfit employed by regular fishermen who operate more important kinds of apparatus. These nets are set in both fresh and salt water, but are fished in largest numbers in the rivers.

The number of persons who devoted more or less attention to fyke-net and pot fishing was 2,370, of whom 1,071 were in New York and 764 in Maryland. The nets used numbered 47,635, and were valued at \$144,710. In operating them, 2,067 boats were required, which had a value of \$56,145. The total investment was thus \$200,855, although many of the boats were also employed in other fisheries.

The aggregate catch of these appliances amounted to 6,985,374 pounds, for which the fishermen received \$265,652. The yield in New York was 3,357,913 pounds, valued at \$108,904. In that State a larger quantity of salt-water fish is taken than else-

where in the region. The values of the fishery in the remaining States were \$76,579 in Maryland, \$53,679 in New Jersey, \$13,170 in Virginia, \$6,661 in Delaware, and \$6,659 in Pennsylvania. The most important fish taken were eels, flounders, catfish, striped bass, white perch, yellow perch, and shad, in the order named. The small quantities of king crabs and terrapins taken in fyke nets and of lobsters obtained with pots are not included in these figures.

*Persons, apparatus, and boats employed in the fyke-net and eel-pot fisheries of the Middle Atlantic States.*

States.	No. of persons.	Fyke nets and eel pots.		Boats.		Total investment.
		No.	Value.	No.	Value.	
New York .....	1,071	21,954	\$69,474	* 1,026	\$31,958	\$101,432
New Jersey .....	307	5,362	18,125	† 278	11,087	29,212
Pennsylvania .....	60	2,534	5,264	59	1,604	6,868
Delaware .....	76	2,342	2,045	69	985	3,030
Maryland .....	764	14,994	42,937	564	9,256	52,193
Virginia .....	92	449	6,865	71	1,255	8,120
Total .....	2,370	47,635	144,710	2,067	56,145	200,855

\* Includes one vessel valued at \$700.

† Includes two vessels valued at \$1,650.

*Products of the fyke-net and eel-pot fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....	32,320	\$404	200,350	\$1,011	5,075	\$26
Bluefish .....	28,350	1,134	1,000	50		
Butter-fish .....	43,200	648	3,000	150		
Catfish .....	77,945	3,198	33,565	2,625	82,025	3,482
Eels .....	1,006,451	61,651	355,380	20,944	27,400	1,386
Flounders .....	1,064,180	26,488	88,100	3,507		
Frostfish or tomcod .....	48,000	1,172	1,400	42		
Menhaden .....	648,000	810	29,167	53		
Perch .....	20,555	1,453	85,389	6,626	4,350	257
Scup .....	40,500	810	2,100	105		
Sea bass .....	8,100	405	1,100	53		
Shad .....	32,790	2,073	147,024	6,071	475	25
Spots and crockers .....			6,500	265		
Squeteague .....	112,970	3,480	12,500	515		
Striped bass .....	16,305	2,000	35,760	6,350	970	96
Suckers and mullet .....	16,708	895	45,450	3,576	19,450	978
Tautog or blackfish .....	18,125	805	5,200	184		
Refuse fish .....	97,200	243				
Other fish .....	45,614	1,235	18,925	1,462	6,950	409
Total .....	3,357,913	108,904	1,071,910	53,679	146,695	6,659

Species.	Delaware.		Maryland.		Virginia.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Alewives .....			240,200	\$1,716	8,300	\$163	486,245	\$3,320
Bluefish .....							29,350	1,184
Butter-fish .....							46,200	798
Catfish .....	22,200	\$1,312	313,225	11,755	37,532	1,310	566,492	23,082
Eels .....	103,500	4,407	616,140	25,784	4,000	325	2,112,871	114,497
Flounders .....					15,900	748	1,168,180	30,833
Frostfish or tomcod .....							50,000	1,214
Menhaden .....							677,167	563
Perch .....	11,670	847	411,578	17,919	30,737	1,145	564,279	28,047
Pike .....			106,244	7,218			106,244	7,218
Scup .....							42,600	915
Sea bass .....							9,200	458
Shad .....	1,001	61	28,487	1,023	37,450	1,183	247,227	10,436
Spots and crockers .....			3,110	147	44,095	1,678	53,705	2,000
Squeteague .....			2,450	98	78,149	2,505	206,069	6,598
Striped bass .....	1,440	167	101,633	7,420	36,814	3,042	192,922	19,075
Suckers and mullet .....	200	8	50,223	1,397	10,984	300	143,015	7,154
Tautog or blackfish .....							23,325	989
Refuse fish .....							97,200	243
Other fish .....	2,380	59	63,314	2,102	25,900	771	163,083	6,038
Total .....	142,391	6,661	1,936,604	76,579	329,861	13,170	6,985,374	265,652

## THE LINE FISHERIES.

In considering the most primitive means of capture employed in the commercial fisheries of the Middle Atlantic region, it is interesting to observe that lines yield larger money returns than pound nets, although the quantity of fish taken is only half that obtained with pound nets. In New York and New Jersey, in which the pound-net fishery has received most attention from anglers and the general public, the value of the line catch is more than three times as great as the output of pound nets, and the quantity of fish thus taken in the year 1891 was over 3,000,000 pounds more.

Line fishing was followed in 1891 by 4,669 people. More than one-third of these were employed in New Jersey, whose line fisheries for bluefish, sea bass, cod, flounders, and squeteague are very extensive.

The prominent feature of this fishery in New Jersey is the important operations carried on from small boats, while in New York there is a considerable fleet of fine vessels engaged in the line fisheries. Vessel fishing is also relatively important in Pennsylvania; but in the other States only the boat fishery has any prominence. The aggregate amount of money invested in this fishery in 1891 was \$386,403, of which New York and New Jersey had \$309,205.

The line catch in the entire region was 26,183,621 pounds, valued at \$1,003,096. The line fishermen of New Jersey took 14,254,026 pounds, having a value of \$543,687. These figures include 6,752,447 pounds of bluefish, worth \$242,232, and 3,692,850 pounds of sea bass, worth \$146,236, both of which fish are here secured in larger quantities with lines than in any other State. Cod, flounders, and squeteague are also obtained in important quantities in the line fisheries of New Jersey. The professional line fishermen of New York took 6,656,605 pounds of fish, for which they received \$276,979, bluefish constituting 3,372,030 pounds, valued at \$141,336, and cod 2,277,458 pounds, valued at \$89,921. In Pennsylvania most of the line catch is made up of sea bass, in Maryland catfish and squeteague are the more prominent fishes, and in Virginia catfish, squeteague, spots, and croakers constitute most of the yield.

There is in all the coastal States of this region, more especially in New York and New Jersey, an enormous quantity of fish taken by anglers, of which no record can be obtained. The fish thus taken in largest quantities are bluefish, squeteague, sea bass, flounders, and perch.

*Persons, vessels, boats, apparatus, and shore property employed in the line fisheries of the Middle Atlantic States.*

States.	No. of persons.	Value of lines.	Vessels.			Boats.		Shore property.	Total investment.
			No.	Value.	Value of outfit.	No.	Value.		
New York.....	1,166	\$11,745	43	\$100,325	\$48,101	394	\$30,875	\$3,420	\$194,466
New Jersey....	1,939	5,178	12	18,200	4,746	986	64,180	22,485	114,739
Pennsylvania..	488	633	9	15,075	8,710	206	3,287	160	27,815
Delaware.....	46	20	.....	.....	.....	26	680	85	785
Maryland.....	762	2,272	.....	.....	.....	524	14,023	3,080	20,575
Virginia.....	1,268	3,402	2	3,240	620	1,113	16,426	4,275	28,023
Total.....	5,669	23,310	66	130,840	62,177	3,249	129,971	34,105	386,403

*Products of the line fisheries of the Middle Atlantic States.*

Species.	New York.		New Jersey.		Pennsylvania.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Black bass.....			6,450	\$774	20,310	\$2,107
Bluefish.....	3,372,030	\$141,336	6,752,447	242,232		
Bonito.....			95,600	7,704		
Catfish.....	22,210	950	11,650	816	18,960	987
Cod.....	2,277,458	89,921	792,917	24,334		
Drum.....			29,000	777		
Eels.....			21,250	753	11,225	643
Flounders.....	107,737	4,033	604,028	21,018		
Haddock.....	147,730	3,890	17,040	675		
Hake.....			12,080	204		
Kingfish or whiting.....	16,630	917	13,500	801		
Perch.....	8,612	448			7,800	390
Pike.....					4,000	600
Sea bass.....	206,936	9,085	3,692,850	146,236	947,500	33,805
Sheepshead.....			2,100	320		
Skates.....			7,050	353		
Spanish mackerel.....			6,000	2,025		
Spots and croakers.....			86,200	3,633		
Squeteague.....	321,190	16,758	1,991,364	85,268		
Striped bass.....	29,973	3,182	14,975	1,774	18,365	1,778
Tautog.....	77,305	3,720	79,900	3,313		
Other fish.....	68,854	2,789	16,725	677	5,150	257
Total.....	6,656,605	276,979	14,254,026	543,687	1,033,310	40,567

  

Species.	Delaware.		Maryland.		Virginia.		Total.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Black bass.....							26,760	\$2,881
Bluefish.....			77,610	\$2,920	214,646	\$6,047	10,416,733	394,536
Bonito.....							95,600	7,704
Catfish.....	5,000	\$330	260,714	9,339	340,452	9,225	658,986	21,647
Cod.....							3,070,375	114,255
Drum.....					61,562	1,771	90,562	2,548
Eels.....			2,148	85			34,623	1,481
Flounders.....					45,510	1,541	767,275	26,592
Haddock.....							165,670	4,565
Hake.....							12,080	204
Kingfish or whiting.....					25,500	510	55,630	2,228
Perch.....	600	36	41,085	1,769	3,500	210	61,597	2,853
Pike.....			1,340	81			5,340	681
Sea bass.....			3,370	144	58,070	1,900	4,909,626	191,170
Sheepshead.....			3,185	396	7,671	489	12,956	1,205
Skates.....							7,050	353
Spanish mackerel.....							6,000	2,025
Spots and croakers.....			68,988	3,872	1,021,858	34,844	1,207,046	42,349
Squeteague.....	26,300	630	382,610	10,906	1,333,961	41,704	4,055,365	155,266
Striped bass.....	1,800	216	66,000	4,711	19,875	1,088	150,988	13,649
Tautog.....	8,000	320					165,205	7,353
Other fish.....			33,085	1,048	94,340	2,831	218,154	7,552
Total.....	41,700	1,532	970,135	35,271	3,227,845	105,060	26,183,621	1,003,096

## THE MENHADEN INDUSTRY.

Fishing for menhaden is prosecuted in all the States of this region except Pennsylvania. The fishery is more important than in any of the other coast sections, and the shore industry dependent thereon is one of the most prominent branches of the fisheries in the Middle Atlantic States.

The industry is most extensive in New York and Virginia. The former State has the larger investment in the business and the greater number of steam vessels engaged, but the latter leads in the number of factories, the number of persons, the aggregate number of vessels engaged, and the quantity of fish taken. In Delaware the fishing is carried on by several steam vessels belonging in Connecticut and landing a part of their catch at the two factories in Delaware. The vessels and their equipment and crews are credited to Connecticut, and do not appear in the accompanying statistics.



The following tables show for each State the extent of the fishery and shore business. It is not possible to present, for each of the years covered by the figures, satisfactorily complete statistics for each State, owing to the different times at which the inquiries in the several States were prosecuted.

Some vessels fishing for menhaden in New Jersey sell large quantities of fish for bait to the professional line fishermen. In 1891, 7,231,500 menhaden were thus sold for \$11,575, and 5,197,000 fish, valued at \$16,698, were thus utilized in 1892. The largest consumption of menhaden for bait is in the extensive bluefish and sea-bass line fishery of Monmouth County.

Persons engaged in the menhaden industry of the Middle Atlantic States.

States.	Fishermen.				Factory hands.				Total.	
	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.	1890.	1891.
New York .....	517	561	560	(*)	567	617	594	(*)	1,178	1,154
New Jersey .....	90	102	129	103	108	107	85	78	209	214
Delaware .....	(†)	(†)	(†)	(†)	(*)	88	90	90	88	90
Maryland .....	(*)	32	18	(*)	(*)	37	48	(*)	69	66
Virginia .....	(*)	661	675	(*)	(*)	555	554	(*)	1,216	1,229
Total .....		1,356	1,382			1,404	1,371		2,700	2,753

\* Complete data for these years not available.

† Same persons fish for a factory in Connecticut and are properly credited to that State.

Factories, vessels, etc., employed in the menhaden industry of the Middle Atlantic States.

Items.	New York.			New Jersey.				Delaware.		
	1889.	1890.	1891.	1889.	1890.	1891.	1892.	1890.	1891.	1892.
Factories in operation.....	12	13	13	7	6	6	6	2	2	2
Value of plants.....	\$320,000	\$330,600	\$327,500	\$47,150	\$51,050	\$52,650	\$52,650	\$20,000	\$20,500	\$21,000
Cash capital.....	\$356,000	\$386,500	\$376,000	\$35,000	\$41,000	\$32,500	\$31,500	\$13,500	\$14,000	\$13,000
Steam vessels.....	24	26	27	3	3	4	3			
Value.....	\$210,500	\$248,000	\$245,000	\$24,000	\$24,000	\$31,000	\$23,000			
Outfit.....	\$53,125	\$56,580	\$58,107	\$5,168	\$5,650	\$6,672	\$5,938			
Tonnage.....	1,608.20	1,875.02	1,875.02	114.25	114.25	109.58	126.07			
Sail fishing vessels.....				5	6	7	6			
Value.....				\$5,800	\$5,200	\$9,050	\$12,000			
Outfit.....				\$3,190	\$3,050	\$4,315	\$3,785			
Tonnage.....				100.26	113.63	117.11	137.70			
Sail transporting vessels.....				3	6	5	3			
Value.....				\$2,750	\$4,050	\$3,950	\$3,700			
Outfit.....				\$355	\$530	\$441	\$381			
Tonnage.....				46.28	76.73	69.41	41.08			
Seines.....	67	74	72	9	10	12	10			
Value.....	\$39,250	\$43,175	\$41,700	\$5,150	\$5,000	\$6,100	\$5,450			
Total investment.....	\$979,775	\$1,064,855	\$1,048,307	\$128,563	\$141,400	\$146,678	\$138,404	\$33,500	\$34,500	\$34,000

Items.	Maryland.		Virginia.		Total.	
	1890.	1891.	1890.	1891.	1890.	1891.
Factories in operation.....	1	1	20	21	42	43
Value of plants.....	\$4,500	\$4,500	\$192,300	\$193,900	\$599,050	\$599,050
Cash capital.....	\$6,000	\$6,000	\$181,500	\$167,000	\$628,500	\$595,500
Steam vessels.....	2	1	12	12	43	44
Value.....	\$13,700	\$7,200	\$90,000	\$103,250	\$384,700	\$386,450
Outfit.....	\$5,800	\$3,380	\$42,191	\$39,625	\$110,281	\$107,684
Tonnage.....	138.96	62.54	661.26	637.22	2,789.49	2,744.36
Sail fishing vessels.....			31	33	37	40
Value.....			\$45,710	\$51,450	\$51,010	\$60,500
Outfit.....			\$35,855	\$39,739	\$39,505	\$44,054
Tonnage.....			946.27	1,055.06	1,059.90	1,172.17
Sail transporting vessels.....			32	30	38	35
Value.....			\$31,325	\$31,000	\$35,375	\$34,050
Outfit.....			\$3,548	\$3,326	\$4,078	\$3,767
Tonnage.....			680.80	704.33	763.53	773.74
Seines.....	4	2	58	60	140	146
Value.....	\$2,800	\$1,600	\$33,600	\$36,000	\$85,235	\$86,000
Total investment.....	\$32,860	\$22,680	\$665,029	\$665,790	\$1,937,734	\$1,917,955

*Fish utilized and products prepared in the menhaden industry of the Middle Atlantic States.*

Items.	New York.			New Jersey.				Delaware.	
	1889.	1890.	1891.	1889.	1890.	1891.	1892.	1891.	1892.
Menhaden utilized (No.)	185,743,850	205,410,300	160,150,450	31,366,000	33,695,100	17,428,800	12,654,500	23,026,500	23,009,000
Value	\$301,456	\$336,185	\$291,165	\$33,082	\$35,776	\$21,180	\$19,812	\$29,907	\$28,760
Gallons oil made	1,257,465	1,310,775	1,118,951	95,270	99,694	72,118	72,657	107,212	105,680
Value	\$321,042	\$352,793	\$282,770	\$21,366	\$19,636	\$18,642	\$22,160	\$29,093	\$27,895
Tons dry scrap made	13,033	14,517	11,406	1,532	1,870	1,098	897		
Value	\$255,450	\$286,396	\$230,917	\$34,920	\$38,980	\$27,592	\$23,735		
Tons crude and acidulated scrap made	3,812	4,657	2,833	1,330	1,100	260	185	3,397	2,066
Value	\$46,070	\$55,864	\$33,996	\$12,604	\$10,900	\$2,366	\$2,925	\$43,875	\$38,826
Total value	\$623,702	\$695,073	\$547,683	\$68,890	\$69,516	\$48,000	\$48,229	\$72,908	\$60,721
Gross profits	\$322,306	\$358,888	\$256,518	\$35,808	\$33,740	\$27,411	\$28,417	\$43,061	\$37,901

  

Items.	Maryland.		Virginia.		Total.	
	1890.	1891.	1890.	1891.	1890.	1891.
Menhaden utilized (number)	20,579,400	12,500,000	216,400,500	191,365,500	476,085,300	405,371,250
Value	\$25,724	\$15,625	\$237,923	\$226,041	\$635,608	\$584,527
Gallons oil made	30,550	32,900	293,758	306,575	1,734,777	1,727,756
Value	\$7,637	\$8,225	\$70,167	\$93,796	\$450,233	\$432,526
Tons dry scrap made			5,953	5,835	22,340	18,339
Value			\$119,938	\$119,225	\$445,814	\$377,734
Tons crude and acidulated scrap made	1,575	1,200	14,053	11,219	21,385	18,969
Value	\$30,725	\$19,890	\$130,570	\$111,422	\$228,079	\$211,479
Total value	\$38,302	\$28,025	\$320,675	\$324,443	\$1,123,626	\$1,021,719
Gross profits	\$12,638	\$12,400	\$82,752	\$97,802	\$488,018	\$437,192

#### COMPARISONS WITH 1880.

The figures obtained for the Tenth Census permit a fairly satisfactory comparison between the extent and condition of the fisheries of this region in 1880 and 1891. While a somewhat different method of treatment precludes a detailed statistical exposition for the years named, the general comparisons which may be drawn and some special data that may be presented for a number of important items will give a clear idea of the changes which have taken place in the decade indicated.

The fishing population of the Middle Atlantic States in 1880 was ascertained to be 59,853, of whom 44,370 were fishermen proper and 15,483 were shoresmen. In 1891 the number was 90,923, consisting of 73,619 fishermen and 18,304 shoresmen. The increase amounted to 31,070 persons, or about 52 per cent, and was participated in by every State. The increase was apparently most marked in Pennsylvania, in which the figures show an advance of over 400 per cent. While it is known that a large augmentation in the fishing industry of that State has occurred since 1880, it is thought that the very striking increase shown is due to the fact that the oyster vessel-fishery tributary to Philadelphia, which is now very extensive, was not credited to that city in 1880, but to Delaware, in the waters of which State the vessels operated. While Pennsylvania has no oyster-grounds within the limits of the State, a good-sized fleet of vessels owned in Philadelphia engages in the oyster industry of Delaware Bay, and it seems entirely proper to credit this business to Pennsylvania. Next to this State, the greatest increase in fishing population occurred in New York, where it amounted to 93 per cent. The change was least marked in Delaware, in which the advance was only 13 per cent. For the same reason that the advance in Pennsylvania has been apparently more pronounced than was probably the case, that in Delaware has been less so. These remarks apply also to the investment and catch in the two States named.

The investment in the fishing industry in 1880 was \$14,596,759; in 1891 it was \$4,721,905, or 32 per cent greater. The increase occurred in New York, New Jersey, Pennsylvania, and Maryland, while the other States showed a decline. About 200 fewer vessels were employed in 1891, but the value of vessels in the latter year was somewhat greater, indicating an improvement in their size and quality. The number of boats employed increased about 15,000 and their value \$860,000. The use of gill nets, pound nets, fykes, pots, and minor apparatus greatly increased. Perhaps the most remarkable change in respect to the apparatus employed was in the pound nets. Of these, only 348 were operated in 1880, while in 1891 there were 2,414. In Maryland the number rose from 83 to 1,005 and in Virginia from 185 to 941. The only important form of apparatus which underwent a decline was the seine, of which 2,580 were used in the former year and only 1,808 in the latter. The decrease occurred in New York, New Jersey, and Delaware. The shore property connected with the industry was augmented more than 55 per cent, and the cash capital increased about 13 per cent, although in Virginia there was a conspicuous diminution in the last-named item.

Reducing all the products to the common unit of a pound, as explained in the introductory chapter, it appears that in 1880 the yield of the fisheries was 662,789,681 pounds, valued at \$16,835,238. The figures for 1891 are 590,454,369 pounds, worth \$19,023,474. The apparent inconsistency of a diminished catch and an augmented value is easily understood from an examination of the table. The decreased yield may be regarded as being made up almost wholly of menhaden, of which 148,175,390 fewer pounds were obtained in 1891 than in 1880. The omission of this relatively cheap fish from the statistics would leave the year 1891 with an augmented yield of over 75,000,000 pounds, having a value of over \$2,500,000. The fishery objects which have undergone a noticeable increase in importance, as judged by a larger catch, are numerous. Chief among these is the shad, the yield of which was 18,000,000 pounds greater in 1891. The catch of alewives was 15,613,000 pounds more, bluefish 6,826,000 pounds, and sea bass 4,051,000 pounds, the rate of increase for these fish being 148 per cent, 77 per cent, 82 per cent, and 272 per cent, respectively. Cod, scup, sheeps-head, Spanish mackerel, and striped bass have decreased in abundance. The figures for oysters show a small increase; soft crabs and round clams present a marked advance; while the yield of soft clams, hard crabs, and terrapins has greatly declined.

The three tables which follow give comparative figures for the fisheries of this region:

*Comparative statement of number of persons employed in the fisheries of the Middle Atlantic States in 1880 and 1891.*

States.	Fishermen and transporters.		Shoemen.		Total.		Increase or decrease in 1891.	Percentage of increase or decrease in 1891.
	1880.	1891.	1880.	1891.	1880.	1891.		
New York.....	4,722	11,204	1,616	2,042	6,344	12,246	+ 5,902	+ 98.03
New Jersey.....	5,650	10,107	501	532	6,220	10,039	+ 4,419	+ 71.05
Pennsylvania.....	397	1,984	41	289	438	2,273	+ 1,835	+418.95
Delaware.....	1,662	1,709	317	431	1,979	2,230	+ 251	+ 12.68
Maryland.....	15,873	28,200	10,135	11,735	26,008	39,944	+13,936	+ 54.43
Virginia.....	16,051	20,316	2,813	3,275	18,864	23,591	+ 4,727	+ 25.06
Total.....	44,370	73,019	15,463	18,304	59,853	90,023	+31,070	+ 51.91

## BULLETIN OF THE UNITED STATES FISH COMMISSION.

Comparative statement of the vessels, boats, apparatus, shore property, and capital employed in the fisheries of the Middle Atlantic States in 1880 and 1891.

Designation.	New York.				New Jersey.			
	1880.		1891.		1880.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels .....	540	\$774,000	659	\$817,542	590	\$545,900	607	\$649,670
Boats .....	3,270	279,885	6,227	373,670	4,065	223,963	5,742	412,373
Seines .....	1,505	127,063	327	75,040	435	38,570	372	36,022
Gill nets .....	3,366	70,627	6,402	88,450	852	25,203	3,983	129,832
Pound nets and weirs .....	53	29,500	263	71,340	27	19,800	185	55,370
Fyke nets and pots .....	3,950	6,750	22,144	72,856	3,417	15,966	6,447	24,220
Miscellaneous apparatus and outfit .....		116,310		309,733		132,800		209,967
Shore property .....		1,046,900		1,794,909		470,000		409,561
Cash capital .....		119,500		1,679,000		20,000		538,550
Total .....		2,570,535		5,283,200		1,492,202		2,467,865

  

Designation.	Pennsylvania.				Delaware.			
	1880.		1891.		1880.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels .....	11	\$10,500	49	\$87,775	69	\$51,600	41	\$34,775
Boats .....	119	9,572	837	30,062	839	33,227	946	29,233
Seines .....	42	8,200	151	19,405	245	21,330	203	10,263
Gill nets .....	167	4,744	209	21,450	1,457	27,703	1,586	33,946
Pound nets and weirs .....							20	305
Fyke nets and pots .....	2,167	4,334	2,534	5,264	1,831	1,831	2,382	2,145
Miscellaneous apparatus and outfit .....		4,700		25,682		19,370		8,215
Shore property .....		50,000		450,162		105,080		44,800
Cash capital .....		3,000		303,750		8,000		44,400
Total .....		95,110		944,140		268,231		208,082

  

Designation.	Maryland.				Virginia.			
	1880.		1891.		1880.		1891.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels .....	1,450	\$1,750,000	1,627	\$1,446,855	1,446	\$571,000	944	\$740,135
Boats .....	2,825	189,448	9,825	579,488	6,618	292,720	9,247	463,722
Seines .....	140	53,950	530	70,780	153	70,970	219	58,120
Gill nets .....	1,462	44,880	11,999	100,014	3,532	35,220	5,979	46,030
Pound nets and weirs .....	83	13,375	1,005	71,778	185	98,390	941	160,990
Fyke nets and pots .....	4,050	6,600	14,994	42,937	100	900	449	5,865
Miscellaneous apparatus and outfit .....		178,340		595,084		355,283		282,510
Shore property .....		1,611,700		2,446,327		489,636		717,787
Cash capital .....		2,497,750		2,107,455		1,914,119		467,500
Total .....		6,342,443		7,466,718		3,828,238		2,948,659

  

Designation.	Total.				Increase or decrease in value in 1891.	Percentage of increase or decrease in value in 1891.
	1880.		1891.			
	Number.	Value.	Number.	Value.		
Vessels .....	4,106	\$3,703,000	3,927	\$3,776,752	+ \$73,752	+ 1.99
Boats .....	17,736	1,025,815	82,824	1,889,138	+ 863,323	+ 84.18
Seines .....	2,580	320,143	1,808	278,230	- 41,913	- 13.09
Gill nets .....	10,836	208,407	30,158	419,722	+ 211,255	+101.34
Pound nets and weirs .....	348	161,065	2,414	395,783	+ 204,718	+127.10
Fyke nets and pots .....	15,515	36,381	48,950	153,287	+ 116,906	+321.31
Miscellaneous apparatus and outfit .....		806,803		1,431,191	+ 624,388	+ 77.39
Shore property .....		3,773,316		5,863,006	+2,090,290	+ 55.40
Cash capital .....		4,561,769		5,140,955	+ 579,186	+ 12.70
Total .....		14,596,759		19,318,664	+4,721,905	+ 32.35

FISHERIES OF THE MIDDLE ATLANTIC STATES.

Comparative statement of the products of the fisheries of the Middle Atlantic States in 1880 and 1891.

Products	New York.		New Jersey.		Pennsylvania.		Delaware.	
	1880.	1891.	1880.	1891.	1880.	1891.	1880.	1891.
<b>Fish:</b>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Alewives	250,000	2,194,560	1,500,000	2,000,820	(*)	2,331,775	2,396,700	863,760
Bluefish	3,000,000	5,500,575	3,635,000	7,227,920	30,000		45,800	
Butter-fish	500,000	837,246	200,000	230,802				
Catfish	50,000	117,180	135,000	133,824	117,000	132,468	196,200	73,800
Cod	3,580,000	2,277,458	1,007,000	841,011				
Eels	1,361,300	1,616,213	551,000	623,280	(*)	40,950	124,000	223,500
Flounders	1,000,000	1,561,696	75,000	987,895			10,500	5,000
Kingfish	40,000	157,541	15,000	33,697			3,500	960
Menhaden	288,031,200	104,860,114	29,134,600	20,670,542			522,900	67,000
Perch	545,000	88,125	630,000	693,902	60,000	18,645	476,500	255,855
Scup	1,500,000	350,858	50,000	25,682				
Sea bass	750,000	679,180	160,000	3,731,538	550,000	947,500	1,260	
Shad	2,733,600	3,044,956	864,000	10,225,455	559,600	2,692,864	1,050,000	1,500,196
Sheepshead	400,000	19,523	275,000	26,290	5,000		5,900	
Spanish mackerel	25,000	74,836	200,000	78,391				
Spots and croakers	235,000	17,501	250,000	106,680			674,100	42,460
Squeteague	4,000,000	2,852,653	4,430,000	0,002,563	15,000		2,618,500	1,164,730
Striped bass	795,000	205,449	442,000	298,164	43,400	24,615	247,900	94,910
Sturgeon	144,000	30,261	300,000	452,630	150,000	52,700	570,000	1,304,800
All others	4,054,140	2,250,506	1,384,226	768,902	150,000	158,440	731,850	117,280
<b>Total</b>	<b>313,894,240</b>	<b>128,742,431</b>	<b>45,897,826</b>	<b>55,226,054</b>	<b>1,680,000</b>	<b>6,399,957</b>	<b>9,681,550</b>	<b>5,714,251</b>
<b>Reptiles, mollusks, and crustaceans:</b>								
Terrapins	1,800		9,000	3,280			30,708	11,988
Turtles							15,300	18,000
Clams, soft or long	3,407,750	1,505,500	680,280	827,000				
Clams, hard or round	2,795,840	4,524,520	3,132,280	3,454,024			5,544	21,920
Oysters	7,303,100	18,277,434	13,825,000	16,114,567		1,183,700	2,100,000	1,097,040
Scallops	290,500	313,042						
Shells		16,766,100						
Crabs	1,624,583	529,066	1,470,300	519,611			84,951	86,250
Lobsters	135,000	165,093	156,800	165,664			150	8,200
All others		61,830		2,800,180				740,000
<b>Total</b>	<b>15,558,578</b>	<b>42,142,591</b>	<b>19,253,660</b>	<b>23,800,826</b>		<b>1,183,700</b>	<b>2,236,653</b>	<b>1,983,398</b>
<b>Grand total</b>	<b>329,452,818</b>	<b>170,885,022</b>	<b>65,151,486</b>	<b>79,116,880</b>	<b>1,680,000</b>	<b>7,583,657</b>	<b>11,918,203</b>	<b>7,697,649</b>
<b>Value</b>	<b>\$4,225,695</b>	<b>\$4,817,369</b>	<b>\$3,176,589</b>	<b>\$3,520,057</b>	<b>\$83,100</b>	<b>\$322,021</b>	<b>\$997,695</b>	<b>\$255,423</b>

  

Products.	Maryland.		Virginia.		Total.		Increase or decrease.	
	1880.	1891.	1880.	1891.	1880.	1891.	Quantity.	Per cent.
<b>Fish:</b>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	
Alewives	9,203,959	17,413,850	6,925,413	11,013,485	20,276,072	35,889,250	+15,613,178	+ 77.00
Bluefish	10,000	516,364	1,546,417	1,842,264	8,267,217	15,093,129	+ 6,825,912	+ 82.57
Butter-fish		31,955		120,000	700,000	1,220,003	+ 520,003	+ 74.29
Catfish	420,000	1,296,752	500,000	935,244	1,418,200	2,689,268	+ 1,271,068	+ 89.63
Cod					5,247,000	3,118,469	- 2,128,531	- 40.57
Eels	15,000	792,044	125,000	71,619	2,176,300	3,367,606	+ 1,191,306	+ 54.74
Flounders	5,000	33,443	40,000	127,295	1,136,500	2,715,329	+ 1,578,829	+ 138.92
Kingfish	3,000		175,000	149,505	236,500	841,763	+ 105,263	+ 44.51
Menhaden	3,903,000	30,952,120	88,213,800	105,980,334	410,705,500	262,530,110	-148,175,390	- 36.08
Perch	890,000	2,494,625	745,000	468,833	3,346,500	4,020,045	+ 673,545	+ 20.13
Scup					1,550,000	376,540	- 1,173,460	- 75.71
Sea bass	5,000	119,370	20,000	66,310	1,486,200	5,637,698	+ 4,051,698	+ 272.62
Shad	3,774,426	6,224,873	3,171,953	6,498,242	12,163,579	30,189,586	+18,033,007	+ 148.38
Sheepshead	12,000	3,185	503,666	23,871	1,201,566	72,869	- 1,128,697	- 93.94
Spanish mackerel	18,000	44,837	1,609,003	789,910	1,852,003	937,974	- 914,689	- 49.37
Spots and croakers	40,000	273,283	1,150,000	1,725,847	2,349,100	2,165,771	- 183,329	- 7.80
Squeteague	65,000	750,405	1,476,000	3,929,899	12,604,500	14,700,310	+ 2,095,810	+ 16.63
Striped bass	700,000	1,264,693	625,000	488,436	2,853,300	2,371,267	- 482,033	- 16.89
Sturgeon	144,000	72,445	411,558	723,646	1,719,558	2,636,482	+ 916,924	+ 53.32
All others	1,067,518	1,410,353	1,106,279	2,242,958	8,494,013	6,954,439	- 1,539,574	- 18.13
<b>Total</b>	<b>20,275,003</b>	<b>63,699,657</b>	<b>108,344,740</b>	<b>137,142,758</b>	<b>469,774,268</b>	<b>399,925,108</b>	<b>-69,849,160</b>	<b>- 14.87</b>
<b>Reptiles, mollusks, and crustaceans:</b>								
Terrapins	30,000	89,780	165,600	52,215	237,108	157,263	- 80,845	- 33.67
Turtles		4,000		189,121	15,300	211,181	+ 195,881	+ 1280.27
Clams, soft or long					4,068,030	2,332,500	- 1,735,530	- 42.66
Clams, hard or round	40,000	147,760	363,820	559,278	6,337,484	8,707,562	+ 2,370,078	+ 37.40
Oysters	74,200,000	69,615,406	47,861,240	43,134,002	145,289,340	149,422,749	+ 4,133,409	+ 2.84
Scallops					290,500	313,042	+ 22,542	+ 7.76
Shells						16,766,100	+16,766,100	
Crabs	1,166,667	7,605,770	2,139,200	2,894,027	6,485,701	11,634,724	+ 5,149,023	+ 79.39
Lobsters					201,960	398,957	+ 196,997	+ 97.52
All others		15,394		21,833		3,645,243	+ 3,645,243	
<b>Total</b>	<b>75,436,667</b>	<b>77,478,170</b>	<b>50,529,800</b>	<b>46,851,076</b>	<b>163,015,413</b>	<b>193,529,261</b>	<b>+30,513,848</b>	<b>+ 18.72</b>
<b>Grand total</b>	<b>95,721,570</b>	<b>141,177,827</b>	<b>158,874,600</b>	<b>183,993,834</b>	<b>662,789,681</b>	<b>593,454,369</b>	<b>-72,335,312</b>	<b>- 10.91</b>
<b>Value</b>	<b>\$5,212,715</b>	<b>\$6,480,759</b>	<b>\$3,124,444</b>	<b>\$3,647,845</b>	<b>\$16,835,298</b>	<b>\$19,023,474</b>	<b>+\$2,188,236</b>	<b>+ 13.00</b>

\* Not separately reported and included in "all others."