REPORT OF THE DIVISION OF STATISTICS AND METHODS OF THE FISHERIES.

BY BARTON W. EVERMANN, Assistant in Charge.

At the beginning of the year the statistical agents of the division were engaged in canvassing the fisheries of the Middle Atlantic States. This work was completed, and a report on the fisheries of that region, which has since been issued, was prepared for publication. In the meantime a summary of the statistics embodied in the report was published as Statistical Bulletin No. 131.

Mr. F. F. Dimick and Capt. S. J. Martin, local statistical agents of the Commission at Boston and Gloucester, Mass., respectively, have continued to submit during the year their usual monthly returns of the quantity and value of fishery products landed at those ports by American fishing vessels.

Mr. A. B. Alexander, fishery expert of the steamer Albatross, was detailed in November, 1902, to Boston, Mass., to obtain statistics of the quantity and value of mackerel landed by the New England fleet during that year. In March, 1903, Mr. Alexander visited Seattle, Wash., and entered upon a statistical canvass of the salmon fisheries of Alaska for the seasons of 1901 and 1902. He was authorized to pursue the inquiry in such places on Puget Sound and the Columbia River as might be necessary to obtain the desired information. In June he joined the steamer Albatross at Seattle and went to Alaska as a member of the Alaska Salmon Commission under the direction of Dr. David S. Jordan, where the investigation was continued.

The fisheries of Porto Rico, including the wholesale fishery trade and the importation of fishery products, were investigated in January, February, and March, 1903, by Mr. W. A. Wilcox, the data being chiefly for the year 1902.

Mr. Charles H. Stevenson visited New York for a short time in March, 1903, for the purpose of obtaining information concerning the utilization of ivory, bones, shells, scales, etc., of aquatic animals.

An investigation of the fisheries of the South Atlantic and Gulf States was undertaken in February, 1903, the data being for the calendar year 1902, except the oyster fishery, for which it was necessary in some instances to obtain statistics for the last completed oyster

season. In connection with this inquiry Mr. John N. Cobb was assigned to canvass Florida and that part of North Carolina north of Beaufort and Hyde counties; Mr. Charles H. Stevenson, Louisiana, Texas, and the remainder of North Carolina south of Washington and Tyrrell counties; Mr. W. A. Roberts, Mississippi and Alabama; Messrs. W. A. Wilcox and T. M. Cogswell, South Carolina and Georgia. Except in part of the territory in North Carolina, the work was finished before the close of the fiscal year.

The salmon fisheries of Penobscot River and Bay for the year 1902 were investigated by Mr. Charles G. Atkins, superintendent of the United States Fish Commission station at Craig Brook, Me. A canvass of these fisheries, begun by Mr. Atkins the previous year for 1900 and 1901, was also completed.

The investigation of the fisheries of Colorado by Mr. E. A. Tulian, superintendent of the United States Fish Commission station at Leadville, Colo., was concluded, the data being for the year 1900. This work was authorized in connection with a canvass of the fisheries of Nevada and Utah, the results of which have already been published.

The publications prepared in this division and distributed during the year included statistical bulletins, issued as single sheets, and special reports on important fishery subjects. The following, exclusive of the usual monthly bulletins in single sheets showing the quantities and values of certain fishery products landed at Boston and Gloucester, Mass., by American fishing vessels, is a list of these publications:

Statistical Bulletin No. 130. Statement of the quantities and values of certain fishery products landed at Boston and Gloucester, Mass., by American fishing vessels during the year 1902.

Statistical Bulletin No. 131. Fisheries of the Middle Atlantic States, 1901.

The sponge fishery of Florida in 1900, by J. N. Cobb. < Report for 1902, pp. 161-175, plates 6-9. 1903.

Aquatic products in arts and industries, by C. H. Stevenson. < Report for 1902, pp. 177-279, plates 10-25. 1903.

The utilization of the skins of aquatic animals, by C. H. Stevenson. < Report for 1902, pp. 281-352, plates 26-38. 1903.

The fisheries and fish trade of Porto Rico, by W. A. Wilcox. < Report for 1902, pp. 367-395. 1903.

VESSEL FISHERIES OF BOSTON AND GLOUCESTER.

The quantity of fishery products landed at Boston and Gloucester, Mass., by American fishing vessels during the year 1902, as indicated by the returns received from the local agents at those ports, was 7,334 fares, which aggregated 167,954,875 pounds of fresh and salted fish, having a value to the fishermen of \$4,379,082. This is an increase, as compared with the previous year, of 370 fares, and of 16,789,684 pounds in the quantity and \$129,081 in the value of the products. In the quantity and value of fish landed at Boston there was an increase

of 578 fares, 19,981,865 pounds, and \$467,188; and at Gloucester a decrease of 208 fares, 3,192,181 pounds, and \$338,107.

The total number of fares landed at Boston was 3,981, and the products comprised 77,608,596 pounds of fresh fish, valued at \$1,994,198, and 1,365,400 pounds of salted fish, valued at \$48,440; a total of 78,973,996 pounds, valued at \$2,042,638. From the eastern banks there were 212 fares, amounting to 10,847,560 pounds, \$347,018, and from the banks off the New England coast 3,769 fares, with 68,126,436 pounds, \$1,695,620.

At Gloucester 3,353 fares were landed, having 39,614,878 pounds of fresh fish, valued at \$787,676, and 49,366,001 pounds of salted fish, valued at \$1,548,768; a total of 88,980,879 pounds, valued at \$2,336,444. Of this quantity 585 fares with 52,084,789 pounds of fresh and salted fish, valued at \$1,347,241, were from the eastern banks, and 2,768 fares with 36,896,090 pounds, valued at \$989,203, were from the banks off the New England coast.

Summary, by fishing-grounds, of certain fishery products landed at Boston, Mass., in 1902 by American fishing vessels.

			Cod			Cusk	τ,
Fishing-grounds.	No. of trips,	Fres	h.	Salted	1.	Fresl	n.
		Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
East of 66° W. longitude: La Have Bank Western Bank Quereau Bank Green Bank Grand Bank St. Peters Bank	71 42 14 2	1,402,500 1,185,000 175,000 20,000	\$35, 490 80, 568 2, 750 500			225, 200 13, 300	\$3,399 215
Off Newfoundland Cape Shore Gulf of St. Lawrence	16 3 24 30 10	583,500 1,000	16, 063 20	10,000	\$200	31,000	605
Total	212	3, 385, 000	85, 751	10,000	200	269,500	4,219
West of 66° W. longitude: Browns Bank Georges Bank Cashes Bank Clark Bank Fippenies Bank Tillies Bank Middle Bank Middle Bank Jeffreys Ledge South Channel Mantucket Stank	36 590 42 7 9 4 235 1 299 642	597, 900 5, 270, 000 208, 200 36, 500 54, 000 9, 500 428, 300 4, 000 651, 400 5, 354, 700	132,094 6,266 983 1,255 360 11,904			115, 000 192, 665 86, 000 4, 000 11, 000 1, 200 38, 000	1, 661 8, 216 1, 361 44 276 48 843
Off Highland Light Off Chatham Shore, general	142 52 87 1,623	2, 158, 500 124, 300 355, 100 4, 596, 500	34, 361 3, 970 9, 512 130, 071			700 10,200 18,000 196,800	37: 25: 3,03
Total	3,769	19,848,900	485,664			854,465	14,05
Grand total	3,981	23, 233, 900	571,415	10,000	200	1, 123, 965	18, 27

104 REPORT OF COMMISSIONER OF FISH AND FISHERIES.

Summary, by fishing-grounds, of certain fishery products landed at Boston, Mass., in 1902 by American fishing vessels—Continued.

71.11	Haddocl	k, fresh.	Hake	, fresh.	Pollock	, fresh.	Halibut	, fresh.	
Fishing-grounds.	Lbs.	Value.	Lbs.	Value	. Lbs.	Value.	Lbs.	Value.	
East of 66° W. longitude: La Have Bank	140,500	\$32, 938 3, 533		\$3,668 1,585		\$1,096 585	74, 260 361, 900 293, 000	\$6, 134 29, 698 23, 870	
Green Bank	20,000	600	35,000	495			45,000 369,000	2, 100 25, 770	
Grand Bank St. Peters Bank Off Newfoundland Cape Shore Gulf of St. Lawrence	453,500	11,835	93,000	1,500	40,000	759	67,000 513,000 2,900 377,000	4, 476 27, 506 315 20, 976	
Total	2, 131, 500	48,906	494,000	7,248	126, 500	2,440	2, 103, 060	140, 321	
West of 66° W. longitude: Browns Bank	741, 300 9, 240, 100 154, 800 76, 500	185, 258 5, 515	67,000 672,000 367,500 48,000	13,814	54,500 364,500 56,500 1,000	778 5,287 750 5	8,500 80,750 1,800	998 7, 248 192	
Fippenies Bank	50,400 25,000	910 885	27,000 1,000	707	4,500 1,500	113 60	400	40	
Middle Bank Platts Bank Jeffreys Ledge South Channel	1,502,800 1,504,300	.	257,000 651,000		220,000 2,000 591,900	3,553 20 9,130	1,500	30 121	
Nantucket Shoals Off Highland Light	1,504,300 11,323,900 355,200 426,500	6,380	4, 067, 400 25, 000 80, 500	66, 173 286 1, 122	629, 900 197, 150 52, 500	7, 648 2, 187 889	24, 350 2, 500	1,801 200	
Off ChathamShore, general	1, 287, 800 5, 318, 750	29, 509 130, 425	151,500 1,314,950	2, 371 24, 581	129, 600 944, 813	1,999 14,472	1,000 34,660	120 2,868	
Total	32,007,350	732, 193	7, 729, 850	134, 356	3, 250, 363	46, 891	155, 760	13,608	
Grand total	34, 138, 850	781, 099	8, 223, 850	141,604	3, 376, 863	49, 331	2, 258, 820	153, 929	
		Macke	erel.			Other	fish.		
Fishing-grounds.	Fres	h.	Salt	ed.	Fre	sh.	Salted.		
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	
East of 66° W. longitude; La Have Bank Off Newfoundland Cape Shore			45, 000	\$ 2, 306	1,600 1,571,000 400	\$184 44,715 48	710,000	\$ 10,680	
Total			45,000	2,306	1,578,000	44,947	710,000	10,680	
West of 66° W. longitude: Georges Bank Cashes Bank	1, 292, 025 2, 250	\$86, 761 225	247, 600	12,882	1,062,000	82, 443			
Fippenies Bank Middle Bank South Channel Nantucket Shoals	147,000 60,750	8,535 4,050	12,000 14,000	675 744	600 600 4, 200 5, 200	90 48 346 448			
Off Chatham	593, 973	41, 226	326, 800	20, 953	• 510, 150	36 9, 393	· · · · · · · · · · · · · · · · · · ·	•••••	
Total	2,095,998	140,797	600, 400	35, 254	1,583,350	92, 804			
Grand total	2,095,998	140, 797	645, 400	87,560	3, 156, 350	137, 751	710,000	10,680	

Summary, by fishing-grounds, of certain fishery products landed at Boston, Mass., in 1902 by American fishing vessels—Continued.

33		Tota	1.		Grand 1	lotal
Fishing-grounds.	Fres	h.	Salte	ed.	Grand	iouai
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
East of 66° W. longitude:						
La Have Bank Western Bank	0 501 500	e eo 000			3,531,560	\$ 82,909
Western Bank Quereau Bank	3,531,560	8 82, 909			1,842,700	66, 181
Quereau Bank Green Bank	1,842,700	66, 181 26, 120			468,000	26, 120
Green Bank Grand Bank	468,000 120,000	3,695			120,000	3,695
Grand Bank St. Peters Bank		26, 130			387,000	26, 130
St. Peters Bank Off Newfound	887,000	4,470		•••••	67,000	4, 470
Off Newfoundland	67,000 2,084,000	72, 215	720,000	\$ 10,880	2, 804, 000	83,095
Cape Shore. Gulf of St. Lawrence	1,204,300	31, 122	45,000	2,306	1, 249, 300	38, 428
Gulf of St. Lawrence	378,000	20, 990	40,000	2,000	378,000	20,990
The s	870,000	20, 930			070,000	20,000
Total	10,082,560	333, 832	765,000	13, 186	10,847,560	347, 018
West of one	10,002,000	300,002	700,000	10,100	10,011,000	017,010
West of 66° W. longitude: Browns Bank Georges Bank						
	1,584,200	37, 749			1,584,200	37, 749
	18, 174, 040	516, 116	247,600	12,882	18, 421, 640	528, 998
CIRTE Dans	877, 050	21, 426	21,,000	12,002	877, 050	21, 426
FIDDonias p	166,000	3, 262			166,000	3, 262
	147, 900	3, 391			147, 900	3, 391
Middle Bank	38, 200	1,376			38, 200	1.376
	0.504,000	67,651	12,000	675	2, 606, 000	68, 326
Jewenne v	' e'nnn l	100	12,000	0.0	6,000	100
	3, 477, 500	81 506			3,477,500	81,506
	21,568,700	466, 220	14,000	744	21, 582, 700	466, 964
	2,744,250	43, 872	14,000	,	2, 744, 250	43, 872
	204,000	17, 820	1		694,000	17,820
Off Chatham Shore, general	1, 948, 600	48, 804	1		1,943,600	43, 804
	13, 510, 596	356, 073	826, 800	20, 953	13, 837, 396	377,026
Total	20,010,000	200,070			,,	=,
Total.	67, 526, 036	1,660,366	600, 400	35, 254	68, 126, 486	1, 695, 620
Grand total	77, 608, 596	1, 994, 198	1,365,400	48, 440	78, 973, 996	2,012,638

Summary, by fishing-grounds, of certain fishery products landed at Gloucester, Mass., in 1902 by American fishing vessels.

Tay	.,		C	od.			Cu	sk.	
Fishing-grounds.	No. of trips.	Fres	h.	Salte	ed.	Fre	sh.	Salt	ed.
	crips.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Cast of 66° W. long.:							į		
Western Dank	77	2, 141, 120	835, 943	377,000	\$ 12, 968	129,000	\$ 1,539		 .
Quereau Dank	. 49	1,825,270	32, 087	775, 560	25, 407	56,000	682		
Grown To Dank	207	5, 490, 205	81,659	8, 583, 967	248, 215	70,000		13,000	\$24
Grand To	1 1		(71,000	4,000	150				
St. Potes	i GA	59,080	1,037	11,006,560	269, 284	1			
Bacalton	5		2,00.	46, 840	1,624				
Ull Name Dank	37			70, 235	2, 167				1
Cane North Cultud	76	14,000	189	177, 722	4,717				
Cape Shore	ĺ	2.,000	100	180,000	3,800	· · · · · · · · · · · · · · · · · · ·			
Gulf of a	55	314, 360	5,900	75,000	2, 438	128, 460	285		
Gulf of St. Law-	"	011,000	0,500	10,000	2, 100	120, 100	200	1	
	18	70,000	840	115,068	3,532				
Total	585	9, 914, 035	157, 655	21, 411, 952	574, 302	383, 460	3,336	13,000	24
Vest of 66° W. long.:		======	101,000	21, 111, 002	011,002		0,000	=======================================	
Browns Bank. Georges Bank							1		
Georges Bank Cashes Bank	40	721, 132	10, 375	124,740	3,855	59, 340	705	2,000	7.
(3) above to the second	150	863, 582	17, 498	8, 676, 569	286, 169	4,000	52	5,000	111
Inguitate and the same	111	83, 860	1,357	0,000,000	200, 100	59,040	758	,,,,,,	
		9,000	159			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		
		239,000	3,980	25,000	626	12,000	146		
BRY of Process	9		0,000	20,000	020	12,000	1.0		
Bay of Fundy Shore, general	6	60,000	943	• • • • • • • • • • • • • • • • • • • •		100,000	1.151		
	2,200	1,248,807	31, 932		• • • • • • • • • • • • • • • • • • •	42,700	564		
Total		-,,	01, 002			12,100	1		
	2,768	3, 225, 381	66, 244	8, 826, 309	290,650	277,080	3,376	8,000	18
Grandia			30, 244	0,040,009	250,000	211,000	0,010	0,000	1
Grand total	3,353	13, 139, 416	223, 899	90 000 001	984 0E0	660 540	6,712	21,000	43
	1 , 555	-0, 100, 410	223, 899	30, 238, 261	864, 952	660, 540	0,712	21,000	4

 $Summary,\ by\ fishing-grounds,\ of\ certain\ fishery\ products,\ etc.--Continued.$

Grand Bank		[Ha	.dd	oek.				Н	ake.	
East of 66° W. long: La Have Bank	Fishing grounds.	Fr	esh.		Sal	ted.		Fre	sh.	Salt	ed.
La Have Bank 305,289 \$6,303 2,648,500 \$24,374	•	Lbs.	Valu	ıe.	Lbs.	Value	э.	Lbs.	Value	e. Lbs.	Value.
West of 66° W. long: Pollock		365.28	0 86.3	พร			_	2 648 50	0 \$24.37	4	
Grand Bank Orn NewYoundland Ornes Shore. 99,197 17, 209	Western Bank	164.12	0 3.5	61			••	222,00	0 2,09	6	61 000
Off Newfoundland		155,93 191,62	$\begin{bmatrix} 1 & 2, 1 \\ 6 & 2, 9 \end{bmatrix}$	47 35			• •	197,00	1,64	85,000	\$1,063
Total 969, 197 17, 029 3, 137, 500 28, 736 88, 000 1, 131	Off Newfoundland						• •	40,000 30,000	0 32 0 30		68
Browns Bank	-		_					3, 137, 50	28, 73	6 88,000	1,131
South Channel	Browns Bank	1,666,25	5 24,6	41	2,000	84	 0 	10,00	0 14	8	23
Shore, general 399, 342 6, 377 2, 100, 672 28, 518 45, 000 1, 238 Total 3, 257, 267 40, 435 2, 000 40 2, 902, 172 36, 216 46, 000 1, 258 Grand total 4, 256, 464 57, 464 2, 000 40 6, 039, 672 64, 952 134, 000 2, 392 Flishing grounds Fresh Salted Fresh Salted Lbs. Value Lbs. Value Lbs. Value Lbs. Value La Have Bank 9, 000 864 89, 125 83, 784 Western Bank 4, 000 82 151, 679 11, 949 22, 400 81, 612 Grand Bank 27, 899 2, 418 5, 000 1, 258 Grand Bank 27, 899 2, 418 5, 000 350 Grand Bank 27, 899 2, 418 5, 000 350 Grand Bank 27, 899 2, 418 5, 000 350 Grand Bank 27, 899 2, 418 5, 000 350 Grand Bank 27, 899 2, 418 5, 000 350 Grand Bank 296, 800 53, 394 663, 500 40, 800 Grand Bank 996, 800 53, 394 663, 500 40, 800 Grand Bank 296, 800 53, 394 663, 500 40, 800 Grand Bank 296, 800 53, 394 663, 500 40, 800 Grand Bank 296, 800 53, 394 663, 500 40, 800 Grand State 25, 000 178 10, 000 125 3, 641, 031 255, 951 752, 740 51, 437 West of 66° W. long: 70, 362 1, 848 Groves Bank 25, 000 178 10, 000 90 426, 836 27, 407 Grand Bay of Fundy 109, 500 263 Bay of Fundy 109, 500 263 Grand Bay of Fundy 109, 500 263 Fresh Salted Fresh Salted Fresh Salted Fresh Salted Flishing grounds Fresh Salted For the first 100, 500 Grand Gow 100; 100; 100; 100; 100; 100; 100; 10	Cashes Bank	70, 12 358 00				-	• -		$0 \mid 1,69 \\ 0 \mid 2,20$	9	
Total	Bay of Fundy	10,00	0	80				248, 18	2,07	5	1 000
Pollock						-	<u></u>				
Fishing grounds.			=			-	=				
Fishing grounds.	Grand total	4,256,46	4 57,4	104	2,000 40			0,039,67	2 04, 93	2 134,000	2, 332
Lbs. Value. Lbs. Value			Po	llo	ck.	<u>-</u>	_		Ha	libut.	
East of 66° W. long: La Have Bank	Fishing grounds.	Fr	esh.		Sal	ted.		Fţ	esh.	Sal	ted.
Western Bank		Lbs.	Valu	e.	Lbs.	Value	e. _	Lbs.	Valu	e. Lbs.	Value.
Green Bank 224,948 18,418 15,600 1,255	Western Bank	4,00	0	82				151,679 1,197,698	$\frac{9}{5}$ 11,4 5 101,9	94	\$1,612
Total 25,000 178 10,000 125 3,641,031 255,951 752,740 51,437 West of 66° W. long.: Browns Bank Georges Bank 250 4 6,000 90 356,234 25,534 Ipswich Bay 109,500 592 356,234 25,534 Bay of Fundy 35,000 263 250 25 Shore, general 9,032,975 68,119	Green Bank Grand Bank			•••		:	• ·	1 27 899	9 1 2 4	18 15,600	1, 255
Total 25,000 178 10,000 125 3,641,031 255,951 752,740 51,437 West of 66° W. long.: Browns Bank Georges Bank 250 4 6,000 90 356,234 25,534 Ipswich Bay 109,500 592 356,234 25,534 Ipswich Bay 109,500 592 250 25 Bay of Fundy 35,000 263 250 25 Shore, general 9,032,975 68,119 Grand total 9,202,725 69,156 16,000 215 4,067,867 283,358 752,740 51,437 Fishing grounds. Fresh. Salted. Fresh. Salted. Lbs. Value. Lbs. Value. Lbs. Value. Last of 66° W. long.: Quereau Bank. Off Newfoundland Cape Shore. 1,353,800 880,133 1,072,074 34,622 9,313,000 \$142,363 <	St. Peters Bank Bacalieu Bank			• • •		<u>-</u>	• ·	24, 94 996, 80	$\begin{bmatrix} 3 & 2,1 \\ 5 & 53,3 \end{bmatrix}$	94 693,500	46,801
Total 25,000 178 10,000 125 3,641,031 255,951 752,740 51,437 West of 66° W. long.: Browns Bank Georges Bank 250 4 6,000 90 356,234 25,534 Ipswich Bay 109,500 592 356,234 25,534 Bay of Fundy 35,000 263 250 25 Shore, general 9,032,975 68,119	Off Newfoundland Cape Shore	12,00	ö-	82	10,000	812	 5			65 17, 240	
West of 66° W. long.: Browns Bank 250				_					_		_¦
Content Cont	West of 660 W long :	<u> </u>		=		-	=		-		=
Off Chatham 35,000 263 250 25 25 Shore, general 9,032,975 68,119	Georges Bank	20			6,000	94	o ·	70, 353 356, 234	25,5	34	
Bay of Fundy Shore, general 9,032,975 68,119 250 25	Off Chatham	109, 50 85, 00	0 2				• •		:: ::::::		
Total	Bay of Fundy Shore, general	9, 032, 97		 19			• •	` 250) 		
Grand total	_		_		•	-	<u> </u>	426.83	5 27.4	07	
Mackerel. Other fish. Salted. Fresh. Salted. Fresh. Salted. Lbs. Value. Lb			=			-:			=		=
Fishing grounds. Fresh. Salted. Fresh. Salted. Lbs. Value. Lbs. V		, 202, 12	05,1		10,000		,	1,001,00		<u> </u>	01,101
Lbs. Value. Lbs. V			Mac	ker	el.		_ .		Othe		
East of 66° W. long.: Quereau Bank. Off Newfoundland Cape Shore. Total. 368, 100 Single Section Sect	Fishing grounds.	Fres	h.	_	Salte	d.	. .	Fres	h.	Salte	
Quereau Bank 0ff Newfoundland 1, 553,800 \$80,133 1, 066,500 33,953 9,313,000 \$142,363 Total 1, 353,800 \$80,133 1, 072,074 34,622 9,318,000 142,363 West of 66° W. long: Georges Bank 368,100 19,985 3,685,200 191,948 17,250 1,705 6,800 560		Lbs.	Value.	_	Lbs.	Value.	<u>: </u> _	Lbs.	Value.	Lbs.	Value.
Öff Newfoundland Cape Shore 1,353,800 \$80,133 1,066,500 33,953 9,313,000 \$142,363 Total 1,353,800 80,133 1,072,074 34,622 9,313,000 142,363 West of 66° W. long.: Georges Bank 368,100 \$19,985 3,685,200 191,948 17,250 1,705 South Channel 18,000 900 560 500							İ	5 574	0 can		
Cape Shore 1, 353, 800 \$80, 133 Total 1, 353, 800 \$80, 133 West of 66° W. long: 368, 100 \$19, 985 3, 685, 200 \$191, 948 \$17, 250 \$1,705 \$60 South Channel 18, 000 900 5, 800 560 \$60 \$60 Off Chatham 290, 070 18, 419 2, 454, 600 191, 829 449, 900 5, 864 1, 395, 400 23, 028 Total 676, 170 39, 304 6, 139, 800 383, 777 499, 950 8, 209 1, 395, 400 23, 028							:			9, 313, 000	\$142,363
West of 66° W. long.: Georges Bank 368, 100 18, 000 \$19,985 900 3,685,200 191,948 \$17,250 5,800 27,000 1,705 560 27,000 90 \$1,705 560 27,000 90 \$1,985 560 27,000 90 \$1,985 560 27,000 90 \$1,395,400 23,028 \$2,028 Total 676,170 39,304 6,139,800 6,139,800 83,777 \$499,950 8,209 1,395,400 23,028	Cape Shore	<u></u>		1	, 353, 800	8 80, 1 33					
Georges Bank 368, 100 \$19,985 3,685,200 \$191,948 17,250 1,705 South Channel 18,000 900 5,800 560 Off Chatham 27,000 90 27,000 90 Shore, general 290,070 18,419 2,454,600 191,829 449,900 5,854 1,395,400 23,028 Total 676,170 39,304 6,139,800 383,777 499,950 8,209 1,395,400 23,028	Total			1	, 353, 800	8Q, 133		1,072,074	34,622	9, 313, 000	142,363
Shore, general 290, 070 18, 419 2, 454, 600 191, 829 449, 900 5, 854 1, 395, 400 23, 628 Total 676, 170 39, 304 6, 139, 800 883, 777 499, 950 8, 209 1, 395, 400 23, 628	Georges Bank South Channel	368, 100 18, 000		3	, 685, 200	191, 948		5,800	560		•
		290,070	18,419	2	, 454, 600	191, 829	•			1,395,400	23, 028
Grand total 676, 170 39, 304 7, 493, 600 463, 910 1, 572, 024 42, 831 10, 708, 400 165, 391	Total	676, 170	39, 304	G	, 139, 800	383, 777		499, 950	8, 209	1, 395, 400	23, 028
	Grand total	676, 170	39, 304	7	, 493, 600	463, 910		1,572,024	42, 831	10,708,400	165, 391

 $Summary,\ by\ fishing-grounds,\ of\ certain\ fishery\ products,\ etc.{\bf --Continued}.$

		To	tal.		Grand total.			
Fishing grounds.	Fres	h.	Salto	ed.	Grand			
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.		
East of 66° W. long.:								
La Have Bank Western Bank	E 000 00E	8 71, 957	877, 000	\$12,968	5, 709, 025	\$84 , 925		
Western Bank Quereau Bank	5, 832, 025	49, 952	775, 560	25, 407	3, 198, 629	75, 359		
Quereau Bank Green Bank	2, 423, 069	188, 920	8,704,367	251, 133	15,820,772	440, 058		
Green Bank Grand Bank	7, 116, 405	2,411	4,000	150	31,899	2, 561		
Grand Bank St. Peters P.	27, 899 494, 954	22, 390	11, 022, 160	270, 539	11,517,114	292, 929		
St. Peters Bank	24, 948	2,187	50,840	1,984	75, 788	4, 171		
Bacalieu Bank	996, 800	53,394	763, 735	48,968	1,760,535	102, 862		
	1,697,070	78,017	9,507,962	148, 489	11, 205, 032	226, 500		
Cape North	2,001,010		180,000	3,800	180,000	3,800		
Cape Shore.	577,060	8,650	1,441,800	82,761	2,018,860	91,414		
or Lawrence.	452,067	19,629	115,068	3, 582	567, 135	23, 161		
Total	19, 142, 297	497, 507	32, 942, 492	849, 734	52, 084, 789	1,347,241		
West of 66° W. long.:								
Browns Bank Georges Bank	:				1 040 504	04.005		
Georges Bank Cashes Bank	1,812,994	20, 644	130, 740	3, 993	1,943,784	24,687		
Cashes Bank Ipswich Bay	3, 285, 671	89, 567	12, 372, 769	478, 320	15, 658, 440	567,887		
Ipswich Bay South Channel	383, 020	4,497			383, 020 118, 500	4, 497 751		
South Channel	118,500	751		626	852, 300	10, 920		
Off Chatham Bay of Fundy	827, 300	10,300	25,000	020	62,000	353		
Bay of Fundy.	62,000	, 853			418, 430	4, 274		
Shore, general	418, 430 13, 564, 666	4, 274 159, 783	8,895,000	216, 095	17, 459, 666	375, 878		
Total	20, 472, 581	290, 169	16, 423, 509	699, 034	36, 896, 090	989, 203		
Grand total	39, 614, 878	787, 676	49, 366, 001	1,548,768	88, 980, 879	2, 836, 444		

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., by American fishing vessels during the year 1902.

			Co	d.	I		Cusk		
Months.	No. of trips,	Fres	h.	Salte	d.	Fres	h	Salt	ed.
	1 -	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
muaryebruary	900					100 000	en 400		
bruary, arch	. 389	1,584,700				128,600	\$2,462		
irch	286	1,068,100	42,570			32,700			
ril	420	2,700,400	66,688	· · · · · · · · · · · · · · · ·		59,500 121,500	1,728		
y	. 418	1,536,900	29,358				2,037		
y	293	1,940,600	33, 464			169,500	982		
y	251	1, 438, 400	43, 357	• • • • • • • • •		49,900	585		
Rust tember	. 361	2,999,300	48,662	10,000		49,000	150		
tember	. 359	2,786,900	41,278			10,000		• • • • • • • •	
obervember	304	2,317,600	52,690			75, 405	1,003	• • • • • • • •	
Vembor	. 1 320	2,305,800	79, 961			155, 200	2,564		
cember	. 304	1,656,200	48, 446			141,800	2,067		
	960	899,000	38, 405			130,800	2,689		
Total landed at	I		·				l		
Boston	9 091	02 022 000	571 415	10.000	200	1, 123, 965	18, 272		ł
Dun	. 0, 901	23, 233, 900	571,415	10,000	200	1, 123, 500	16, 272		
nuarybruary	. 163	900 005	11 000	400 000	10 105	5.000	75		
reh	103	366, 285	11,279	429,660	16, 127			• • • • • • • •	
reh	. 153	292, 250	11,816	203, 455	7,704	9,400	181		
ril y	. 220	1,824,347	29,005	399, 704	14,533				
y 	. 254	1,996,102	27,726	579,055	16,741	136, 180	1,593		
ieу	. 262	1,875,377	26,011	2, 814, 110	75,656	196, 260	1,063	8,000	\$13
y	. 248	406, 305	5,581	3, 160, 137	71,942	27,000	311		
gust tember	. 323	959,000	14, 240	7, 412, 155	162, 510	128,000	1,478	<i>.</i>	
tember	. 194	1,456,800	20,629	1,512,000	40.816	32,000	384		
Ohan	. 379	1,837,000	31,097	3,250,000	101,954	66,000	833	8,000	180
VOMAL	1 290	718,500	13.344	2,888,485	95, 194	50, 200	653	5,000	113
cember	- 538	1,071,600	22, 037		229,638	8,500	111		!
		835,850	11,134	849,000	32, 137	2,000	30		
TURN Inna.				010,000	02,10.	2,000			
Gloucester	1 2 000		L						i
- 55001	3,358	13, 139, 416	223, 899	30, 238, 261	864, 952	660, 540	6,712	21,000	43
Grand total							!		-
· · · · · · · ·	7,334	36, 373, 316	795, 314	30, 248, 261	865, 152	1,784,505	24,984	21,000	i 43
ounds E. of 66° W		i——	: 	<u> </u>			·	 -	
ong or 660 W	•					1			
Ollinda W	797	13, 299, 035	243, 406	21, 421, 952	574, 502	652,960	7,555	13,000	24
one work	.		(1 ,,		,	1		1
ong W. of 660 W	6, 537	23, 074, 281	551,908	8, 826, 309	290, 650	1 191 545	17, 429	8,000	18
1001 . at Dostoll II	1	1 ' '	1,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_50,000	1-, 202, 510	,	-, -, -, -	1
nded at or	. 3, 403	16, 892, 450	469,544	16,000	420	1,090,300	17,547		J
nded at Gloucester	רן י	, 552, 200	-00,044	10,000	1 120	1,000,000	11,01	1	1
n 1901	3. 561	19,080,074	380 154	20 700 801	072 071	938, 618	14, 422	51,980	1,37
	-1-,	1-0,000,074	1000, 104	29, 102, 801	973,974	200,010	14,422	01,300	1,0

Statement, by months, of quantities and values of certain fishery products, etc.—Cont'd.

		Hadd —	lock.			Hal	ke.	
Months.	Fre	sh.	Salt	ed.	Fres	h.	Salte	ed.
	Lbs.	Value.	Lbs.	Value.	Lbs,	Value.	Lbs.	Value.
January	3, 682, 400	\$ 85, 849			687, 500	\$ 15,887	l	
February	3, 682, 400 3, 669, 700	92, 115			140 900	4,749 7,102	. 	
March	5,070,000	91.030	1		152,600	7, 102	1	
March April May	2, 983, 000	43,546 51,341			152,600 195,500 333,500	2,474	••••	
May	1,925,200	51,341			333,500	3,811	· · · · · · · · · · · ·	
June July August September	5,007,000 2,983,000 1,925,200 1,900,900 2,827,800 2,705,150 2,935,700	45, 437 46, 759 49, 625 68, 209			595,000 413,800 777,600 895,800	8, 125 5, 420		• • • • • •
July	2,027,000	40,709			777 600	8, 465		•••••
Rentember	2, 935, 700	68, 209			895, 800	14, 457		
October		1 90.090			1, 487, 500	14, 457 26, 854		
October November	2,119,400 1,087,900	63, 316			1,487,500 1,791,000 753,150	25, 627 18, 633		
December	1,087,900	63, 316 47, 277	• • • • • • • • • • • • • • • • • • • •	•••••	753, 150	18,633		
Total landed at Boston	34, 138, 850	781,099			8, 223, 850	141,604		
	400 515	0.000			41,000	745		
January	409, 515 679, 988	9,229		,	41,090 16,000	380		
March		13, 970 13, 345			10,000			
February March April	1.128,630	8,083			164,000	1,514		
May June	109, 298	826	2,000	\$40	187, 120	1,587	76,000	\$ 963
June	61, 390	399			1,011,362	8,168	3,000	68
July August	341,000	2, 145		[187, 120 1,011, 362 1,511,000 264,000	1,587 8,168 12,617 2,112		• • • • • • •
August	1, 128, 630 109, 298 61, 390 341, 000 105, 800	800			261,000	2,112	55 000	1,363
September October November		710 228			1 517 500	6,288	55,000	1,300
November	204 600	4 364			655, 000	9, 150		
December	15, 200 204, 600 114, 400	4, 364 3, 365			532,000 1,517,500 655,000 140,600	20, 454 9, 150 1, 937		
Total landed at Gloucester	4, 256, 464	57, 464	2,000	40	6, 039, 672	64, 952	134,000	2, 392
Grand total	38, 395, 314	838, 563	2,000	40	14, 263, 522	206, 556	134,000	2, 392
Grounds E. of 66° W.	3, 100, 697	65, 935			3, 631, 500	35, 984	88,000	1, 131
Grounds W. of 66° W.	35, 294, 617	772, 628	2,000	40	, .	170, 572	46,000	1, 261
Landed at Boston in 1901 Landed at Gloucester	24,731,350	618, 235				117, 327		
Landed at Gloucester in 1901	4, 198, 891	71,089	45, 970	827	3, 668, 097	40, 119	148, 480	2, 270
		Pollo	ek.			Halib	_ աւ.	
Months.				1				
	Kros.	h	Salte	·d	Fres	h.	Salte	ađ.
	Fres		Salte		Fres		Salte	
	Lbs.	Value.	Lbs.	Value.	Fres	Value.	Lbs.	Value.
- Ianuary	Lbs.	Value.			Lbs.	Value.	·	
- Ianuary	Lbs.	Value. 84, 697			Lbs.	Value.	·	Value.
- Ianuary	Lbs.	Value. \$4,697 2,998 993			Lbs.	Value.	Lbs.	Value.
- Ianuary	Lbs.	Value. 84, 697 2, 998 993 235			Lbs.	Value.	Lbs.	Value
January. February March April	198, 900 89, 000 35, 800 8, 500 29, 300	Value. 84, 697 2, 998 993 235 291			Lbs.	Value. \$15,479 11,220 12,140 14,492 17,950	Lbs.	Value
January. February March April	1,bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100	Value. \$4,697 2,998 993 235 291 2,014			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511	Lbs.	Value.
January. February March April	1,bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100	Value. 84, 697 2, 998 993 235 2391 2, 014 2, 653			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511	Lbs.	Value.
January. February March April May June uly August	198, 900 89, 000 35, 800 8, 500 29, 300 189, 100 309, 400 380, 563	Value. \$4,697 2,998 993 235 291 2,014 2,653 3,654			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423	Lbs.	Value.
January. February March April May June July August September	1.bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800	Value. \$4, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 458			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679	Lbs.	Value.
January. February March April May June July August September	1.bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800	Value. \$4, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 453 9, 023 8, 933			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679	Lbs.	Value
January. February March April May June July August September	1,bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100 309, 400 380, 563 347, 300	Value. 84, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 458 9, 023			Lbs.	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418	Lbs.	Value.
January. February March April May June July August September	1.bs. 198, 900 89, 000 35, 800 8, 500 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800	Value. \$4, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 453 9, 023 8, 933	Lbs.		Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679	Lbs.	Value
January. February March April May June June July September Dectober November December. Total landed at Boeton	1.bs. 198, 900 89, 000 85, 800 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800 839, 200 348, 000 3, 376, 863	Value. \$4, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 453 8, 933 8, 387 49, 331	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679 13, 658 260 153, 929	Lbs.	Value.
January. February March April May June June July September Dectober November December. Total landed at Boeton	1.bs. 198, 900 89, 900 85, 800 8, 500 29, 300 189, 100 800, 568 347, 300 601, 800 348, 000 3, 376, 863 17, 810 11, 465	Value. \$4,697 2,998 993 235 291 2,014 2,663 3,654 45,453 9,023 8,933 8,387 49,331	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679 13, 658 260 153, 929 14, 928 23, 355	Lbs.	Value
January. February March April May May June July September October November December. Total landed at Boston January. February	1.bs. 198, 900 89, 000 85, 800 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800 839, 200 348, 000 3, 376, 863	Value. \$4, 697 2, 998 993 235 291 2, 014 2, 653 3, 654 5, 453 8, 933 8, 387 49, 331	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679 13, 658 260 153, 929 14, 928 23, 356 30, 476	6,950 2,500 7,000	\$556 2226
January. February March April May May June July September October November December. Total landed at Boston January. February	1.bs. 198, 900 89, 900 36, 890 36, 890 29, 300 289, 100 389, 563 347, 300 601, 800 389, 200 348, 000 3, 376, 863 17, 810 11, 465 2, 630	Value. \$4,697 2,998 993 235 201 2,014 2,663 3,654 6,453 9,023 8,933 8,937 49,331	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 591 18, 699 20, 423 9, 418 8, 679 13, 658 153, 929 14, 928 23, 356 30, 476 27, 930	Lbs.	\$556 2226
January. February March April May May June July September October November December. Total landed at Boston January. February	1.bs. 198, 900 89, 000 35, 800 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800 348, 000 3, 376, 863 17, 810 11, 465 2, 630 46, 000	Value. 84, 697 2, 998 993 225 291 2, 014 2, 653 3, 654 5, 453 9, 023 8, 933 8, 933 49, 331 204 191 26 413	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 519 13, 658 260 153, 929 14, 928 23, 856 27, 930 30, 475 27, 930	6,950 2,500 7,000 11,240	\$656 225 630 899
January. February March April May May June July September October November December. Total landed at Boston January. February	1.bs. 198, 900 89, 000 35, 800 29, 300 189, 100 309, 400 380, 563 347, 300 601, 800 348, 000 3, 376, 863 17, 810 11, 465 2, 630 46, 000	Value. \$4,697 2,998 993 235 201 2,014 2,663 3,654 5,453 9,023 8,933 8,387 49,331 204 191 26 413 1,089	Lbs.	Value.	Lbs. 178, 700 129, 600 160, 700 206, 510 354, 500 160, 200 252, 860 407, 450 134, 800 2, 400 2, 258, 820 152, 670 255, 915 404, 902 362, 703 602, 514 483, 022	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 511 15, 699 20, 423 9, 418 8, 679 13, 658 260 153, 929 14, 928 23, 856 30, 475 27, 930 30, 424 43, 029	6,950 2,500 7,000 11,240	\$656 225 639 356
January. February March April May June June July September Dectober November December. Total landed at Boeton	1.bs. 198, 900 89, 900 36, 890 36, 890 29, 300 289, 100 389, 563 347, 300 601, 800 389, 200 348, 000 3, 376, 863 17, 810 11, 465 2, 630	Value. 84, 697 2, 998 993 225 291 2, 014 2, 653 3, 654 5, 453 9, 023 8, 933 8, 933 49, 331 204 191 26 413	Lbs.	Value.	Lbs. / 178,700 129,600 150,700 206,510 351,500 160,200 252,860 407,450 114,900 116,200 2,400 2,258,820	Value. \$15, 479 11, 220 12, 140 14, 492 17, 950 14, 519 13, 658 260 153, 929 14, 928 23, 856 27, 930 30, 475 27, 930	6,950 2,500 7,000	\$656 225 630 899

Statement, by months, of quantities and values of certain fishery products, etc.—Cont'd.

		Poll	ock.			Hali	bu t .	
Months.	Fres	sh.	Salt	ed.	Fre	esh.	Salte	d.
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value	. Lbs.	Value.
October November December	1, 207, 000 6, 594, 800 1, 026, 370	\$11,372 45,903 9,254	6,000 10,000	\$90 125	209, 713 106, 655 63, 500	5 8,73	0	\$ 325
Total landed at Gloucester	9, 202, 725	69, 150	16,000	215	4,067,867	283, 35	8 752,740	51, 437
Grand total	12,579,588	118, 487	16,000	215	6, 326, 687	437,28	7 752, 740	51,487
Grounds E. of 66° W. long Grounds W. of 66° W.	151,500	2,618	10,000	125	5, 744, 09	1		51,43
-andea	12,428,088	115, 869	6,000	90	582, 59			·····
	2, 193, 800	29, 682	2		1,421,710	1	1 .	
in 1901 at Gloucester	5, 151, 140	38, 614	97,742	1,247	8, 643, 45	5 286,03	462,590	41,05
		Mack	erel.			Other	· fish.a ·	
Months.	Fresl	n.	· Salted	i.	Fres	h	Salted	١.
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
January February March April May June June June June June June June June	2,095,998 2,095,998 6,800 113,360	81, 728 12, 408 77, 937 23, 425 25, 057 247 140, 797	62, 000 78, 000 283, 400 60, 800 218, 200 3, 000 645, 400 376, 400 1, 643, 500 83, 704, 200 832, 700 945, 200	\$2,600 4,041 12,149 3,991 14,614 255 37,560 	620,000 326,000 550,000 550,000 436,900 663,700 136,000 261,050 145,550 116,250 396,000 70,200 420,300 27,000 99,820 12,200 21,104	\$16,500 8,965 17,000 6 80,861 44,795 111,633 2,943 1,818 3,240 137,751 12,400 2,145 13,408 90 725 340 1 980	350,000 360,000 710,000 1,236,000 92,000 135,000	\$6, 28 5, 40 10, 68 18, 54 1, 83 2, 48
October November December	193, 950 91, 270 18, 210	6, 457 1, 825	945, 200 436, 200 206, 400	85, 611 45, 399 22, 767	81, 134 191, 370 144, 000 180, 000	1,089 4,234 2,400 6,000	44, 200 798, 000 1, 143, 200 7, 260, 000	12, 48 20, 32 108, 81
Total landed at Gloucester	676, 170	89, 304	7, 493, 600	463, 910	1,572,024	42, 831	10, 708, 400	165, 39
Grand total	2,772,168	180, 101	8, 139, 000	501,470	4, 728, 374	180, 582	11, 418, 400	176,0
long E. of 660 W. rounds W. of 660 W. long W.	2, 772, 168	180, 101	1, 398, 800 6, 740, 200	82, 439 419, 031	2, 645, 074 2, 083, 300	79,569 101,013	10,023,000	153, 0 23, 0
Landed at Boston in 1901 Landed at Gloucester in 1901	. 1, 792, 355	87,078	632, 820	27, 188	1, 275, 290	71,135	1, 488, 200	23,3
in 1901 at Gloucester	990, 440	41, 474	11, 380, 600	557, 365	 1,918,462	61,414	10, 698, 720	163, 1

a Includes herring from Newfoundland, 2,637,500 pounds frozen, \$78,668, and 10,023,000 pounds salted, \$153,043.

Statement, by months, of quantities and values of certain fishery products, etc.—Continued.

		То	tal.	•		
Months.	Fre	sh.	Salt	ed.	Grand	total,
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
January	7,080,800	\$1 87,415	350,000	\$ 5, 280	7, 430, 800	\$ 192, 695
February	5, 456, 000	163, 415		 	5, 456, 000	163, 415
March	8, 719, 000	196, 210			8,719,000	196, 210
April	5,051,910	91,833			5,051,910	91,833
May	4, 774, 200	110,622	52,000	2,600	4,826,200	113, 222
June	4,608,525	126,785	78,000	4,041	4, 686, 525	130, 826
July	8, 458, 635	228, 566	233, 400	12, 149	8, 692, 035	240,715
August	7, 991, 863	191, 810	70,800	4, 101	8,062,663	195, 911
September	7, 110, 840	187, 920	218, 200	14,614	7, 328, 540	202,534
October	8, 160, 473	226, 866	3,000	255	8, 163, 473	227, 121
November	6, 859, 350	163, 865			6,859,350	163,865
December	3, 337, 500	118, 891	360,000	5,400	3, 697, 500	124, 291
Total lauded at Boston	77, 608, 596	1,994,198	1,365,400	48, 440	78, 973, 996	2, 042, 638
January	1,388,370	48,860	1,672,610	. 35, 223	3,060,980	84,083
February	1, 335, 213	52, 038	297, 955	9,761	1,633,168	61, 799
March	3,643,519	86, 259	541, 704	17,651	4, 185, 223	103, 910
April	3, 787, 615	66, 846	590, 295	17, 640	4,377,910	84, 486
May	3,022,869	60,709	3, 275, 510	95, 377	6, 298, 379	156,086
June	2, 325, 589	64, 726	4,811,087	156,996	7, 136, 676	221,722
July	3, 923, 493	76, 771	10, 487, 655	321, 555	14, 411, 148	398, 326
August	2,511,995	56, 735	2, 359, 000	91, 337	4,870,995	148,072
September	3, 100, 647	69, 683	4, 982, 400	235, 879	8,083,047	305, 562
October	3, 927, 693	74, 269	4, 138, 685	153, 557	8,066,378	227, 826
November	8, 785, 155	92, 695	8, 100, 100	272, 843	16, 885, 255	365,538
December	1, 862, 720	38, 085	8, 109, 000	140, 949	9, 971, 720	179, 034
Total landed at Gloucester	39, 614, 878	787, 676	49, 366, 001	1, 548, 768	88, 980, 879	2, 336, 444
Grand total	117, 223, 474	2,781,874	50, 731, 401	1,597,208	167, 954, 875	4, 379, 082
						
Grounds E. of 66° W. long	29, 224, 857	831,339	33, 707, 492	862, 920	62, 932, 349	1,694,259
long	87, 998, 617	1,950,535	17,023,909	734, 288	105, 022, 526	2,684,823
Landed at Boston in	56, 855, 111	1, 524, 512	2, 137, 020	50, 938	58, 992, 131	1, 575, 450
Landed at Gloucester in 1901	39, 584, 177	933, 319	52, 588, 883	1,741,232	92, 173, 060	2, 674, 551
III 1901	00,004,1//	200, 519	J4, J00, 883	1, 141, 404	32, 173,000	2,074,001

THE SALMON FISHERY OF PENOBSCOT RIVER AND BAY.

The results of the investigation of the salmon fishery of Penobscot River and Bay, by Mr. Charles G. Atkins, are here presented for the years 1900 and 1901, together with notes on certain fishes. The statistics of the salmon fishery for 1902 will be published at a later date in connection with the returns on the fisheries of Maine collected for that year by the field force of this division.

The salmon fishery of Penobscot River and Bay is located mainly in the river, but extends along the shores of the bay to Brooksville on the eastern side, to Lincolnville on the western side, and to Islesboro in the central bay. A few salmon were also taken at Criehaven, or Ragged Island, in 1901 and some earlier years, in connection with the fisheries for herring and other species. In the river the salmon are taken in weirs, and with set and drift gill nets, and in the bay they are caught chiefly in trap nets. The weirs have a leader and one or more floored pounds supported by stakes driven firmly in the ground. The leaders and the walls of the pounds are usually constructed of twine or wire

netting. The trap nets are also set with a leader, at the extreme end of which are two pounds, the "outer" and "inner" pounds, in which the salmon are captured. The trap nets are of twine netting supported by floats, rising and falling with the tide, and are held in place by long warps and anchors. The set and drift gill nets are each from 100 to 200 feet in length, and the size of the mesh is from 6 to 7 inches stretched. In the methods and location of this fishery there has been comparatively little change during the past thirty years.

The following table shows the extent of the salmon fishery of

Penobscot River and Bay in 1900 and 1901:

Extent of the salmon fishery of Penobscot River and Bay in 1900 and 1901.

	Por	sons		Weirs ar	nd trap	9.		Gill :	nets.	
Towns.		oyed.	1. 1900.		1901.		1900.		1901.	
	1900.	1901.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Brooksville (Cape Rosier) Bucksport Castine	1 7	1 5	2 11	8 270 511	2 9	\$270 420				
Hampden	2	2 2	2	200	2	210	3	\$ 45	4	\$ 60
Lincolnville	Z	6	6 11	280 495	8 14	860 558				
Ragged Island Northport Orland Orrington	14	4 15	15 14	800 870 544	$\begin{array}{c c} & 1 \\ & 12 \\ & 16 \end{array}$	800 700 576				
Penobscot	-4	5 12	1 20	54 1, 260	17	54 1,122	11	120	15	22
South Brewer	$\frac{2}{1}$	1	3	540	3 17	540	····i	15	····i	·····i
Verona	18	15 14 3	17 30 2	1,094 2,500 175	32	1,094 2,610 175			i	1
		i	<u></u>		<u> </u>		i	15	î	1
Total	88	94	135	9, 598	136	9,489	16	195	22	83

Note.—Above Bangor, between Vensic and Enfield in 1901, 16 fishermen operated 8 gill nets, value \$120, with 8 boats, value \$120. The catch was 20 salmon, weighing 300 pounds, the value of which was \$40.

•	Вов	its, scow	s, and	rafts.		e and	То	
Towns.	1	900.	1	901.	property.		investment.	
	No.	Value.	No.	Value.	1900.	1901.	1900.	1901.
Brooksville (Cape Rosier)	1	\$2 5	1	\$ 20	\$ 15	\$ 15	\$ 310	\$ 305
Bucksport (Cape Rosier)	12	131	9	110	100	100	742	630
Castine Hampden	. 5	50	5	45	15	15	265	270
Hampden Islesboro	2	24	2	24	. .		69	. 84
IslesboroLincolnyille	2	55	5	95	15	25	350	480
Lincolnville	υ	83	6	98	150	150	728	800
Ragged Island	2	80	2	80			880	880
Northport Orland	6	90	6	90	85	75	1,045	865
Orland Orrington	15	196	17	204	30	40	770	820
Orrington Penobscot	5	100	6	115	60	60	334	454
Penobscot.	27	352	29	352	200	210	1,812	1,684
		55	4	55	70	60	665	655
		12]	12	l:::-	· · · · · · ·	27	27
		294	88	347	120	120	1,508	1,561
		530	28	535	685	690	3,715	3,835
Winterport. Bangor	2	12	3	24	15	15	202	229
Bangor	1	12	1	12			27	27
Total	145	2, 101	158	2,218	1,560	1,575	13, 449	18, 612

Extent of the salmon fishery of Penobscot River and Bay in 1900 and 1901—Continued.

			Catch of so	lmon.		
Towns.		1900.	i		1901.	
	No.	Lbs.	Value.	No.	Lbs.	Value.
Brooksville (Cape Rosier)	52	676	\$280	132	1,700	\$ 230
Bucksport	163	2, 119	318	152	1,980	266
Castine	71	923	145	216	2,800	378
Hampden	21	250	52	31	403	_87
Islesboro	208	2,704	447	442	5,746	773
Lincolnville	243	3, 159	522	498	6,400	923
Ragged Island	151	1,510	151	.83	544	54
Northport	342	4,450	735	477	6,200	834
Orland	67	881	170	163	2,118	405
Orrington	106	1,300	253	161	2,090	310
Penobscot	603	7,839	1,500	1,176	15,288	2,058
Searsport	201	2,600	470	459	4,475	651
South Brewer	9	75	16	17	230	42
Stockton and Prospect	466	6,058	1,100	1,079	13, 487	1,889
Verona	777	9,324	1,554	1,618	21,034	3, 131
Winterport	60	. 780	117	77	1,000	142
Bangor	1	12	2	20	260	50
Total	3,541	44,660	7,832	6, 801	85, 755	12,223

FISH TAKEN WITH SALMON.

With the salmon there are incidentally taken in the trap nets and weirs other marine or anadromous species, of which the following is nearly a complete list: Alewife (Pomolobus pseudoharengus), blueback (Pomolobus æstivalis), herring (Clupea harengus), shad (Alosa sapidissima), menhaden (Brevoortia tyrannus), striped bass (Roccus lineatus), cunner (Tautogolabrus adspersus), tautog (Tautoga onitis), sculpin (Myoxocephalus grænlandicus), mackerel (Scomber scombrus), lump-fish (Cyclopterus lumpus), cod (Gadus callarias), tomcod (Microgadus tomcod), pollock (Pollachius virens), English hake (Merluccius bilinearis), sturgeon (Acipenser sturio), eel (Anguilla chrisypa), lamprey (Petromyzon marinus), smelt (Osmerus mordax), killi-fish (Fundulus heteroclitus), winter flounder (Pseudopleuronectes americanus), eel-back flounder (Liopsetta putnami), and dog-fish (Squalus acanthias).

The list includes a number of species prominent as food fishes, and others which are used extensively for bait and fertilizer, while a few are of little or no economic importance. The alewife, however, is the only one for which a distinct fishery is maintained in these waters. This species is caught in considerable quantities in the weirs and trapnets with the salmon, but more extensively in weirs set especially for its capture. The pollock and dogfish are also worthy of notice as they are probably more or less inimical to the salmon.

Alewives.—So far as known the alewife (Pomolobus pseudoharengus) of the Penobscot breeds almost exclusively in Alamoosook Lake, though a few ascend the main Penobscot to the vicinity of Bradley, where they gain access to two ponds in very limited numbers.

The principal fishery for alewives on the Penobscot River is at Orland, in Eastern River, which is the avenue by which they reach

Alamoosook Lake. In this district a few of the weirs catch alewives exclusively, a larger number catch alewives principally, with a few salmon, and in the remainder, while salmon are taken chiefly, alewives form an important part of the catch. In other towns the extent of the alewife fishery seems to decrease with the distance from Orland. In Verona, Bucksport, and Penobscot the fishery is still quite important, but much less so in Castine, Stockton Springs, and more distant localities. It is estimated that in this fishery in 1901, in all localities, the number of weirs fished was 112, and the catch 592,587 alewives, and that in 1902 the number of weirs was 132, and the catch 406,265 alewives. The catch is disposed of in various ways. A few are marketed in a fresh condition at about 50 cents a hundred fish, some are pickled and sold in barrels, but the greater part of the catch is smoked and disposed of in the local markets at an average of about 80 cents a hundred fish. The fishermen sometimes receive as high as from 1 to 11 cents per fish. Alewives are rarely, if ever, sold by the pound in this region.

The "blueback" (Pomolobus æstivalis) is taken in nearly all the weirs with the alewives, but makes its appearance later in the season. It has been reported as sometimes taken at Orland Falls, above the lower dam. Though of excellent quality when fresh, its extreme fatness renders it difficult to cure in good condition, and it is therefore used chiefly for fertilizer, without any record being made of the number caught. While in some districts it is taken in greater numbers than the alewife, the catch in the aggregate is probably not so large as of

that species.

Shad.—Shad are taken in very small numbers with the salmon. The fishermen, when referring to their catch, distinguish between the large "river shad" and the smaller "sea shad." Following is approximately the relative quantity of shad and salmon obtained in the weirs in a few localities: In Penobscot 10 fishermen caught 473 salmon and 106 shad; in Verona 9 fishermen caught 389 salmon and 56 shad; in Bucksport 5 fishermen caught 75 salmon and 37 shad, and in Winterport 2 fishermen caught 33 salmon and 70 shad; a total of 970 salmon and 269 shad. It should be explained that in some of these estimates only the "river shad" are included, the "sea shad" being omitted. The relative number of shad may therefore be nearly twice as large as the figures indicate.

Striped bass.—Striped bass are obtained in the Eastern River, where, in 1902, in the town of Orland, 86 were caught by 7 fishermen, and in Verona 47 were caught by 3 fishermen.

Pollock.—This species appeared in the river and bay in unusual numbers in 1901, and a considerable quantity of them was in some instances taken in the weirs. A fisherman in Penobscot reported the capture in his weirs of 132 pollock. In 1902, in Searsport, 300 pollock were taken in 3 weirs; in Stockton Springs 85 pollock were caught in 4 weirs, while from 2 other weirs in the same locality 1,200 pounds, dressed weight, were taken. In Brooksville, in each of the years 1900 and 1901, about 200 pollock, weighing from 12 to 15 pounds each, were caught in 2 salmon traps. The presence of these active and ravenous fish is to be noted as having a possible influence in decreasing the supply of both salmon and alewives. It is not supposed that they will attack adult salmon, but the young salmon on their way to the marine feeding grounds must run the gauntlet of these foes, in consequence of which it is not improbable that their numbers are greatly reduced.

Dog-fish.—Dog-fish appeared on the coast in and near Penobscot Bay in unwonted numbers in 1902, and committed great havoc among the deep-water fishes. They appeared earlier than usual, being found near Monhegan Island as early as the middle of May, and becoming quite plentiful all along the coast in June; but August appears to have been as usual the month of greatest abundance. As illustrating their abundance and the damage wrought by them to the shore fisheries, Mr. John N. Harriman, of Stockton Springs, who fishes a great deal in the lower Penobscot Bay, near Matinicus, at Isle au Haut, etc., stated that he never knew dog-fish to be so plentiful. They came into the bay early, about June 1, and remained until late in the season. Searsport fisherman also caught dog-fish just outside of Brigadier Island. Mr. Alvah G. Dorr, of Bucksport, who fishes for haddock, cod, etc., near Gotts Island, found dog-fish troublesome about the last of June. Around Mount Desert Rock, the large fleet of fishermen usually at work there were all driven from the fishing grounds by the dog-fish early in July, and had hardly begun again September 9. The dog-fish not only seize the bait on trawls, but attack other fish that have been hooked. On August 9 Mr. Dorr set his usual trawl, one "tub" of 500 hooks, about 1 mile outside of Gotts Island, and secured at one haul 217 dog-fish, 5 haddock, and a good many heads of haddock of which the rest had been eaten off by dog-fish. On the same day another man fishing in that locality, with about the same number of hooks, caught at one haul 224 dog-fish, 2 hake heads, and 3 skates. Mr. Dorr opened perhaps half a dozen dog-fish and found that nearly all were females with living young within, about 8 young fish to each mother, which would swim off on being thrown into the water. In the Penobscot River, near Sandy Point, a trawl set by Mr. Ernest A. Partridge, of Stockton Springs, in 15 fathoms of water, took 50 dog-fish in one day. Occasionally, but not very often, dog-fish are caught in the salmon weirs. The fishermen report 9 dog-fish caught in weirs at Stockton Springs, 6 at Penobscot, and 9 at Verona.

FISHERIES OF COLORADO.

The fisheries of Colorado, recently investigated by Mr. E. A. Tulian, in 1900 gave employment to 565 persons, of whom 546 were fishermen and the remainder shoresmen. The investment was \$128,568, which included 101 boats, \$2,400; 615 hand lines, \$3,610; 16 seines, \$1,755; 47 gill nets, \$415; shore and accessory property, \$118,888, and cash capital, \$1,500. The products aggregated 1,360,166 pounds of fish, valued at \$185,493. The catch with seines was 823,585 pounds, valued at \$13,146; with gill nets, 14,980 pounds, valued at \$3,645, and with hand lines, 521,601 pounds, valued at \$168,702. The more important species taken were black-spotted trout, 208,655 pounds, \$70,925; brook trout, 189,901 pounds, \$59,512; carp, 658,950 pounds, \$7,430, and rainbow trout, 130,155 pounds, \$41,547. Black bass, catfish, crappie, Loch Leven trout, suckers, and yellow perch were caught in smaller quantities.

An interesting fact in connection with the fisheries of Colorado is that the catch is comprised largely of introduced species. The yield of native species, black-spotted trout and suckers, was only 290,390 pounds, valued at \$72,146, while that of introduced species, consisting of black bass, brook trout, carp, cat-fish, crappie, rainbow trout, Loch Leven trout, and yellow perch, amounted to 1,069,776 pounds, valued at \$113,347.

The fisheries are prosecuted in a large number of streams, creeks, ponds, and reservoirs, some of which are public waters, while others are ponds constructed and owned by individual citizens.

The following tables show the number of persons employed, the number and value of boats, apparatus of capture, the value of shore and accessory property, the amount of cash capital, and the quantity and value of the products of the fisheries of Colorado in 1900:

Table showing, by counties, the number of persons employed in the fisheries of Colorado in 1900.

Counties.	Fishermen.	Shoresmen.	Total.
Arapahoe, Boulder, Delta, Jefferson, Larimer, and Weld. Clear Creek. Dolores. Eagle. Garfield Gilpin Grand Gunnison. Hinsdale Lake Lake La Plata Mineral and Rio Grande Montezuma Montrose Otero Pitkin Saguache San Miguel San Miguel Saummii	10 122 325 550 133 25 3 111 13 10 18 2 2 5	18	134 81 10 12 82 25 60 133 11 11 13 - 10 18
San Miguel Summit Total	546	19	9 1 565

Table showing, by counties, the apparatus and capital employed in the fisheries of Colorado in 1900.

Counties.	B	loats.		Iand Ines.		Seines			Gill net	.s.	Shore and ac-	Cash capi-	Total
Counties.	No.	Value.	No.	Value.	No.	Length (yards).	Value.	No.	Length (yards).	Value.		tal.	ment.
A rapahoe, Boulder, Dolta, Jef- ferson, Lar- imer, and Weld Clear Creek Dolores Eagle Garfield Gilpin Grand Gunnison Hinsdale Lake Lake La Plata. Mileral and	9 2 5 10 2 22 1 2	\$1,100 75 100 50 100 50 415 10	120 32 10 22 32 65 50 130 25 4 10	\$775 275 50 107 255 350 300 650 200 10	3	 		22	1,100	240	5,500 4,900 2,500 2,500 2,000 22,350 1,800 1,800		305 2,950 750 2,775 23,205 1,840 1,925
Rio Grande. Montezuma Montrose Otero Pitkin Saguache San Miguel Summit	3	30 120 50	25 10 20 2 • 6 40 9 3	175 50 90 3 20 200 45 20	3	170	90		200		5,000		
Total	101	2,400	615	3,610	16	3, 630	1,755	47	3,850	415	118,888	1,500	128, 568

Table showing, by counties and apparatus, the yield of the fisheries of Colorado in 1900.

Apparatus and species.	Boulde Jeffe Larim	ahoe, r, Delta, rson, er, and eld.	 Clear (Creek.	Dolo	ores.	Eng	ęle.	Gari	fleld.
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines: Black bassa Carpa. Cat-fisha. Crappiea. Suckers Yellow percha.	21,800 22,000	\$730 7,430 915 660 1,221 680							• • • • • • • • • • • • • • • • • • • •	
Total	814, 235	11,636)		
Gill nets: Black-spotted trout	6, 765	1,190			/					
Hand lines: Black bassa Black-spotted trout Brook trouta Cat-fisha Loch Leven trouta Rainbow trouta Yellow percha	4,500 32,585 30,250 750 17,075 4,000	595 10, 390 9, 520 60 6, 145 340	4, 100 9, 520 270 1, 640	\$1,635 8,790 108 650		\$1,125	3,581	\$2,600 1,002	30, 350 2, 400 8, 650	\$15,175 1,200
Total	89, 160	27,050	15, 530	6, 183	3, 750	1,125	14,586	4,814	36,400	18,200
Total by species: Black bassa. Black spotted trout. Brook trouta. Carpa. Catfisha. Crappiea. Loch Leven trouta. Rainbow trouta. Suckers. Yellow percha.	15, 750 39, 350 80, 250 658, 950 22, 550 22, 000 17, 075 81, 735 22, 500	1, 825 11, 580 9, 520 7, 430 975 660 6, 145 1, 221 1, 020	4, 100 9, 520 	1,635 3,790 108 650			7, 690 3, 581 3, 315	2,600 1,092	30, 350 2, 400 3, 650	16, 175 1, 200 1, 825
Grand total	910, 160	39,776	15,530	6, 183	3,750	1, 125	14,586	4, 814	36, 400	18, 200

Table showing, by counties and apparatus, the yield of the fisheries, etc.—Continued.

Apparatus and species.	Gil	in.	Gra	nd.	Gunn	ison.	Hins	dale.	La	ke.
and species.	Lbs,	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines: Brook trouta					2,650	\$690			200	8 70
Gill nets: Black-spotted trout							6, 515	\$ 1,955		
Hand lines: Black-spotted trout Brook trouta Rainbow trouta	7,150 2,950 2,925	\$3,650 1,275 1,310	19,900	\$ 5, 970	3,750 89,400 61,950	1,125 26,820 18,585	22, 750 3, 200 2, 300	6,825 960 690	550	205
Total	13,025	6, 135	19,900	5,970	155, 100	46, 530	28, 250	8, 475	550	205
Total by species: Black-spotted trout. Brook trout a Rainbow trout a	7, 150 2, 950 2, 925	3,550 1,275 1,310	19,900	5,970	3,750 92,050 61,950	1,125 27,510 18,585	29, 265 3, 200 2, 300	8, 780 960 690	750	275
Grand total	13,025	6, 135	19,900	5,970	157, 750	47,220	34, 765	10,430	750	275
Apparatusand species.	La F	lata.		al and rande.	Monte	zuma.	Mont	rose.	Ote	го.
-	Lbs.	Value	Lbs.	Value	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines: Black bass a Brook trout a Cat-fish a	500	\$ 150					•••••		2, 250 3, 750	\$2 25
TotalGill nets:	500	150							6,000	600
Hand in			1,700	\$500						
Black bass a. Black-spotted trout Brook trouta. Rainbow trouta.	2,000 1,600 250	800 555 75	3,500		2,300	\$690	4, 950 1, 550 750	\$1,485 465 225	1,700	170
Total Total by species:	3, 850	1,430	85, 500	25,650	2,300	690	7, 250	2,175	1,700	170
Black-spotted trout. Brook trouta Cat-fish a Rainbow trouta	2,100	800 705	8,500	1,050	2,300	690	4, 950 1, 550	1, 485 465 225	8, 950 8, 750	395 375
Grand total	4, 350	1,580		-	2,300	690	7,250	2,175	7,700	770

a Introduced.

Table showing, by counties and apparatus, the yield of the fisheries, etc.—Continued.

	Pit	kin.	Sagu	ache.	San M	liguel.	Sun	amit.	Tot	al.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines:										
Black bassa Brook trouta								1	13,500	8955
Brook trout a				.]				l	3,350	910
Carpa	[l		658,950	7,430
Cat-fish a		[1	l		l	1	25,550	1, 290
Crappiea	<i>-</i>						[<i></i> .		22,000	660
Suckers									81,785	1, 221
Yellow perch a					<i></i>		• • • • • • •	-	18,500	680
Total								i	200 505	10.140
Total		•••••			• • • • • • •		•••••	ļ	823, 585	13, 146
Gill nets:										
Black-spotted trout									14,980	3,645
Black-spotted trout									14,500	3,040
Hand lines:										
Black bassa				1					6,200	765
Black-spotted trout	900	8360			5.000	81.500	500	8250	193, 675	67, 280
Brook trout a	1,350	540 l	36, 100	\$ 10,830			600	300	186, 551	58,602
Cat-fish a		!		<u> </u>			. 		750	60
Loch Leven trouta									270	108
Rainbow trouta	300	120		· · · · · · · · · · · · · · · · · · ·	• • • • • •				180, 165	41,547
Yellow percha			• • • • • • •						4,000	340
Total	2,550	1,020	36, 100	10,830	5.000	1,500	1.100	550	521,601	168, 702
i										===
Total by species:		i)						
Black bassa	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •						19,700	1,720
Black-spotted trout	900	360	.::::::		5,000	1,500	500	250	208, 655	70, 925
Brook trouta	1,350	540	36, 100	10,830	· · · · · · ·		600	300	189, 901	59,512
Carpa	• • • • • •	• • • • • • •	• • • • • • • •		• • • • • •			• • • • • •	658, 950	7,430
Cat-fish a	• • • • • •	• • • • • •	• • • • • • • •	• • • • • • • •	••••••	• • • • •	• • • • • •	• • • • • •	26,300	1,350
CrappieaLoch Leven trouta	•••••	• • • • • • •	• • • • • • •		• • • • • •		• • • • • •		22,000	660
Rainbow trout«	900	100	•		• • • • • • •			• • • • • • •	270	108
Suckers	300	120	••••••		• • • • • • •				130, 155 81, 735	41,547 1,221
SuckersYellow percha	•••••						• • • • • •	•••••	22,500	1,020
Z GIJO III POLOII III III			• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •		22,000	
Grand total	2,550	1,020	36,100	10, 830	5,000	1,500	1,100	550	1,360,166	185, 493
	_,	-,	00,100	10,000	0,000	1,000	1,100	000	1,000,100	100, 100

a Introduced.

FISHERIES OF THE MIDDLE ATLANTIC STATES.

The fisheries of the Middle Atlantic States in 1901 furnished employment to 93,661 persons, of whom 18,623 were on fishing and transporting vessels, 52,300 on boats in the shore fisheries, and 22,738 were engaged as shoresmen in wholesale fish establishments, menhaden factories, oyster canneries, and other occupations on shore connected with the fisheries. The number of persons in the fisheries of the various states was as follows: New York, 11,564; New Jersey, 12,030; Pennsylvania, 2,484; Delaware, 1,998; Maryland, 36,260; and Virginia, 29,325.

The total amount of capital invested in the fisheries of this region was \$25,080,371. The investment in New York was \$9,444,271; in New Jersey, \$2,729,571; in Pennsylvania, \$2,110,162; in Delaware, \$657,197; in Maryland, \$6,506,066; and in Virginia, \$3,633,104. The number of vessels employed was 3,721, valued at \$3,657,103, with a net tonnage of 54,761 tons, and outfits valued at \$1,088,706. The number of boats in the shore fisheries was 36,237, valued at \$2,023,880. The apparatus of capture used on vessels and boats was valued at \$1,713,454, the shore and accessory property at \$9,561,356, and the cash capital amounted to \$7,035,872.

The products of the fisheries of those states aggregated \$19,046,576 pounds, valued at \$17,485,500. The yield in New York was 228,092,285 pounds, valued at \$3,894,270; in New Jersey, 117,930,964 pounds, valued at \$4,755,522; in Pennsylvania, 6,029,538 pounds, valued at \$251,491; in Delaware, 5,835,186 pounds, valued at \$203,372; in Maryland, 82,975,245 pounds, valued at \$3,767,461; and in Virginia, 378,183,358 pounds, valued at \$4,613,384. Some of the more important species taken in these fisheries were: Oysters, 19,749,677 bushels, \$10,287,556; clams, hard and soft, 1,118,777 bushels, \$1,074,834; shad, 31,897,687 pounds, \$1,253,622; alewives, 33,198,605 pounds, \$243,340; blue-fish, 16,317,795 pounds, \$758,122; menhaden, 493,936,462 pounds, \$987,228; squeteague, 23,496,383 pounds, \$558,653; crabs, hard and soft, 70,951,965 in number, \$495,385. Many other species were also obtained in large quantities.

Considering this region as a whole, the returns for 1901, as compared with those for 1897, indicate a large increase during the past few years in the extent of the fisheries. There has been some falling off since 1897 in the number of persons employed, but the investment has increased \$4,973,900, and the products 224,874,366 pounds in quantity and \$3,161,037 in value. There has also been an increase in the quantity and value of a number of important forms of fishing apparatus, such as seines, pound nets, trap nets, weirs, fyke nets, lines, eel and lobster pots, dredges, tongs, and crab scrapes.

Fisheries of the Middle Atlantic States, 1901.

		-						
Items.	New	York.	New J	ersey.	Pennsy	lvania,	Delaw	are.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Persons employed Vessels and outfits Tonnage Boats Seines Gill nets	11,564 633 11,641 4,656	\$1,595,391 317,447	12,030 611 6,714 6,473	\$810, 288 502, 666	2,484 27 519 526	\$82,990 30,583	237 910	\$22,447 29,901
Pound not	335 3, 918	53, 075 67, 34 7	483 5,052	38, 785 145, 306	120 228	12,615 13,193	192 691	9,091 22,348
Stop nets	248	67,645	158 14	155, 679 1, 660	16	905	7	760
Lines ha	7, 212	34,860	3,052 89	16, 955 3, 110	1,384	2,239	548	899
Fish baskets Crab drede	••••••	6,694		4, 473	122	659 1,686		56
Dredges, tongs,	••••••		323	1, 135	! :			
Pots lobas	6, 972 7, 526 4, 986	39, 159 7, 301 8, 350	10,699 5,665 850	101,593 4,052 2,358	80 117	2,650 122	243 1,260 60	2,430 406 60
Shore and acces-	***************************************	276		533		570		118
captuit	••••••	4, 221, 226 3, 025, 500		785, 428 155, 550		1, 168, 243 793, 707		352, 086 216, 600
Total	•••••••	9, 444, 271		2, 729, 571		2, 110, 162		657, 197

120 REPORT OF COMMISSIONER OF FISH AND FISHERIES.

Fisheries of the Middle Atlantic States, 1901—Continued.

	New Y	ork.	New Je	ersey.	Pennsy	lvania.	Delaw	are.
Products.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value
lbacoso —			15, 143	\$ 259				
lbacorelewives, fresh	1, 363, 614	\$19, 106	3, 347, 491	19, 425	801, 925 334, 000	\$2,448	597, 374	84,81
lewives, salted	1,000,011	415,100	3,347,491 374,000	2,865	334,000	6, 960	 .	
lewives, satted linck bass lue-fish onito utter-fish at-fish ero ero cod revalle rrouker rrouker			3,000 6,110,318	159	7, 556	762		ļ <u>:</u>
lue-fieh	9 350 502	473, 366 7, 307 25, 809	6, 110, 318	254, 682	1,345	67	400	2
enite	194, 727	7, 307	1,459,418	34, 841			• • • • • • • • • • • • • • • • • • •	
outtor-figh	590, 682	25, 809	3 008 301	84, 119				
ot-fish	174, 144	8,822	256, 859 22, 789 2, 300, 771	14, 229 714	193, 199	10, 163	130, 280	5,07
000	1,570	123	22, 789	714				5
bol	1, 172, 291	51,921	2,300,771	67,603			1,250) 0
revalle	_,,			1			06 790	66
rosker			226, 360 58, 330	5,663	6, 231	141	28,730 3,200	5
rum			58,330	868			3,200	0.10
els, fresh lounders lerman carp	722, 859 1, 274, 308	50,033	1,362,988	70,636	140,504	6, 151 709 9, 795	230, 650	9,12 22
lounders	1, 274, 308	49,949	1.668.221	52, 993 14, 290	22,411	709	5,500	0.75
erman carn	281, 494	17, 142	227, 419 226, 963	14, 290	161,895	9,795	198,040	9,73
Iaddock	160, 703 36, 580	6,516	226, 963	8, 101 749				
Inka	36, 580	860	26, 841	749			' 	
Iorring colted	180,000	2,025					 .	
lake Jerring, salted Jorse mackerel	100,000	2,020	224	5		` 		
ing figh	29, 826	3,418	21,036	3,083				
(ing-fish	26, 520	516	317, 868	4,375	. 	! .		
find	507 888	10 454	10.005	1,577		·	. 	
lackerei	100 400 767	454 505	32 910 666	88 041			. 	
lennaden	100, 409, 707	404,000	36 300	88,041 1,842		j	5,350	18
fullet, fresh fullet, salted			32, 910, 666 36, 300 57, 814	5, 123		l		
iunet, santea		800	07,011	(7, 120		1	:	İ
lummichog	140,000		1,270,097	81,699	3,465	206	242, 360	11,3
Perch, white		3,390	1, 210, 081	1 028	1, 225	62		
erch, yellow	25, 893 2, 050	2,014	16,569	1,038 210			16,310	6
ike and pickerel	2,050	185	2,560	210			20,000	1
Pollock	42,581	1,240			1,397 22,593 687 412	909		;
almon, Atlantic	163	78	233	73	00 509	585		1
cup	804,589	25, 379	607, 099 1, 495, 247	16,367	22, 093	32,791		
sea bass	231, 517	15, 216	1,495,247	76,003	687, 412	32, 731	000	
ea-robins	231, 517 385, 000	493	1:		0.000 000	104 909	1 867 952	56,6
Shad. fresh	3, 432, 472	110,682	14,031,002	475, 202	2, 982, 808	124,328	1, 001, 502	00,0
hark	!		500					
heepshead	i 100	12	7, 285	905			· · · · · · · · · · · · · · · · · · ·	
orlock salmon, Atlantic scup sea bass sea-robins shad, fresh shark shark shark shark shark sharish mackerel spot squeteague striped bass sturgeon Caviar suckers sun-fish swell-fish autog Comcod Whilebait	139, 200	140	2,375 38,928	48				
panish mackerel	4, 104	933	38, 928	5,729				·
pot	4,800	206	299,092	3, 471 315, 770 49, 734			700 405	1:33.6
oueteague	2, 346, 683 71, 840	73,939	11, 973, 394	315,770	3,600 13,092 530	116	722, 435 47, 595	13,9
trined bass	71,840	9, 102	354, 467	49,734	13,092	1,153	47, 595	5,1
turgeon	112,626	6, 108	168,919	8,393	530	43	75, 892 10, 307	3,6
Caviar	4, 291	2.215	19, 108	8, 393 10, 959			10,307	6, 7
inckers	218, 874	11.023	110, 415	5, 459	29, 355	1,313	2,500	1
un-figh	12, 875	1,099			3,970	317	200	1
woll-fish	12, 875 134, 870	i 101						
Pautog	49 662	1,798 1,152	91, 105	3, 136			3,600	1
Compod	49, 662 38, 300	1, 152	265, 041	4,519		2, 321		. }
Vall-aved pike	00,000	2,200			14,675	2,321		
Whitebait	24,510	1,784		I		.		
Whitebait Whiting Clams, hard Clams, soft Clams, surf Trabs, hard Crabs, soft Trogs Cing crabs Obsters	33, 975	1,701	405, 804	7.874				.
Villering	1, 478, 368	257,686	4 246 070	552, 953		.' <i>.</i>	8,200	1,2
lans, nard	779, 450	58, 843	902 770	54 918		J		.
lams, soit	119,400	(20,010	4, 246, 070 902, 770 13, 336 719, 995	500		1		
lams, suri	701 705	4,993	719 995	23,558				. .
rabs, nard	791, 725	2, 104	417, 910	51,861		240	150,509	1 5, 8
raus, soit	40,440	2, 104	411,510	01,001	800	240	1	
rogs				1 711		1	720,400	2,8
ling crabs			409,800	1,711		1	2,760	1 7
obsters	183, 539	21,742	00, 940	8,340 920			1	
iussels	262,400	1,860	65, 943 874, 600 14, 646, 345 10, 617, 572	1 000 707	900 950	35 517	678, 300	40,
)ysters, market	12, 380, 921	1,703,985	114, 040, 340	1, 696, 767 550, 918	282, 352 302, 638	35, 517 14, 232	534,030	
)ysters, seed	3,808,525	268, 655	10, 617, 672	550,918	302,038	17, 202	001,000	22,
hells	2, 286, 000	1,860 1,703,985 268,655 1,330	144,000	32				.1
callops	1,109,724	107, 337		3, 200				
brimp	l		. 4.095	1,988				
ould	180,846	5, 114	17.748	826			1	
Terrapin	340	340	8,232 20,180	3, 135			. 512	
	1	1	. 20, 180	1,053	10,500	870	50,050	2,4
Turtle								
obsters dussels ysters, market ysters, seed shells callops shrimp squid ferrapin furtle			117,930,964	·		251, 491	5, 835, 186	203,3

Fisheries of the Middle Atlantic States, 1901—Continued.

_	Maryl	and.	Virg	inia. 	Tota	
Items.	No.	Value.	No.	Value.	No.	Value.
Parmana amplayed	36, 260		29, 325		93, 661	
ersons emptoyed Lessels and outfits.	1, 337	\$1,137,362	1,086	\$1,097,331	3, 721	\$4 , 7 4 5, 8
onnage	20,067		15,583		54,761 .	
Boats	11, 498	553,526	12, 174	589,757	36, 237	2,023,8
eines	318	30,033	311	78, 530	1,759	222, 1
ill nets	3, 653	34,660	10,437	50, 035	23, 979	332, 8
ound, nets, traps,	0,000					
and weirs	1,017	99, 265	1,605	314, 116	3,049	637, 4
		1 570			18	1,5
on nets		l			30	2, 5 73, 7
vka nota	4.064	11,372	729	7,444	16, 889	78,7
rammel nets	-,		729		89	3, 1
ines, band and						
trawl		4,722		3,579		20,
ish baskets					122	1, 6
rab dredges and						10
serapes	2,831	10, 247	933	2,256	4,087	13,
redges, tongs,		·				
rekes and hoes	19,766	157, 398	14, 461	72,592	52, 221	375,
rakes, and hoes ots, eel	4. 389	2,248	579	585	19,536	14,
ots, lobster		l			5,896	10,
ots, lobster inor apparatus		1,399		255	1	8,
note and access						0.501
sory property		2, 164, 749		869, 624		9,561,
ash capital		2, 297, 515		547,000		7,035,
				0.000.104		05 000
Total	.	6,506,066		3, 633, 104	¦	25,080,
					! ·	
		l			i	
PRODUCTS.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
i noncors.			1		·	
						_
lbegore					15, 148	
lbacorelewives, fresh	13, 454, 757	\$87.021	13, 633, 444	\$110,524	33, 198, 605	243,
lewives, salted	292, 400	4, 287	280,000	4.900	33, 198, 605 1, 280, 400 233, 878	19,
lack bass	23, 383	\$87,021 4,287 2,124	199,439	16,735 25,609	233, 878	19,
lue-fish	100, 145	4,378	755, 085	25,609	16, 317, 795 1, 668, 555	758,
ionito	250	10	14, 160	537	1,668,565	42, 149,
onito	458, 700	11,505	1,071,860 820,325	28,551	5, 129, 543	149,
at-fish erocod revalle	488, 777	15,547	820, 325	23, 560	2,063,584	77,
ero	500	10			24,859	
od	600	12	100	1 .0 500	3, 475, 012	119, 13,
revalle	400	2	468,791	13,533	469, 244	64
roaker	303, 405	4,239	3,937,168	53, 493	4,501,894 343,152	64, 4,
)rum	1 53, 450	570	468, 791 3, 937, 168 228, 172	2,707	2,897,627	152,
els, fresh els, salted els, smoked	334, 811	12, 309	105, 815	4, 430	2,337,027	202,
els, salted	2, 200 1, 100	60		•••••		
els, smoked	1,100	128		6, 253	8 281 039	111.
lounders	1 ຄ1. 20ວ	1,625	209, 394	2,940	1, 159, 958	59,
erman carp izzard shad	163, 180	5,319	127, 930		11, 260	
izzard shad	6,010	133	5,250	100	387, 666	14,
addock					63, 421	1,
ake					8, 281, 039 1, 159, 958 11, 260 387, 666 63, 421 12, 800	
erman carp izzard shud addock ake arvest-fish erring, salted lekory shad og-fish orse mackerel ing-fish ing ackerel enhaden oon-fish ullet, fresh lullet, salted unmichog	12,800	110		l	180,000	2,
erring, salted			448,600	11,427	1 456 915 1	11,
ickory shad	8,315	209	448,000		44,892	3,
og-fish			44,002		224	
orse mackerel			91, 122	3,436	149, 199 844, 008	10,
ing-nsh	7,215	955	91,122	1	344,008	4,
ing		180	1		519,648	21,
jackerel	1,800	11,573	273, 493, 799	483, 109	519, 643 493, 936, 462	987,
ennagen	7, 122, 280	11,075	70, 400	2, 161	70,400 267,645 57,814	2,
ioon-fish		900	190,700	2, 161 5, 420	267, 645	8,
unet, iresh	85, 295	1		J	57,814	5,
unet, saited	· · · · · · · · · · · · · · · · · · ·	1			140,000	154
ummichog	AEO 01E	25,005	781, 925	32,582	2, 752, 649	154,
erch, white erch, yellow	902,010	0 617	158, 989	4,472	495, 346	17,
eren, yellow	292, 720	5,890	32, 103	2,848	120,553	9,
iko ana pickerei	67,530	. 0,000		.]	42, 581	1,
ollock	140	14	96, 186	7,549	96,326	7,
ompano	200	i i		.]	200	
oach	200	1			1,793	
almon, Atlantic	90 050	1,019	1		1 1.466.931 [43,
cup	32,650	2,540	2,200	93	2,467,676	126,
ea bass	50,800	2,040			. 385,000	1 050
ea-robins	0 004 101	120, 177	6, 972, 212	866, 203	1 31 880 687 l	1, 253,
had, fresh	3,094,181	120, 177	0, 8, 2, 212	000,200	17,000	
had, salted	17,000	1 420	1		1 5000.1	_
				1	1 17 165	1,
hark heepshead	1,350	52	8,430	348	17, 165 141, 575	-,

Fisheries of the Middle Atlantic States, 1901—Continued.

	Maryl	and.	Virg	inia.	Tota	d.
Products.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Spanish mackerel	2,922	8348	520, 142	\$44,017	566, 096	\$ 51,027
Spot	22, 470	387	806, 827	24, 306	1, 133, 189	28, 370
Squetcague	1,018,775	26, 921	7, 431, 496	127, 993	23, 496, 383	558,653
Striped bass		68,568	527, 507	45, 177	1,838,919	178, 848
Striped bass	107, 620	3,503	183, 023	12, 161	648, 610	33, 886
Sturgeon			18, 318	10, 204	57, 842	83, 630
Čaviar	5, 818	3,486 281	48, 165	10, 207	424, 059	19, 104
Suckers	14, 750				25,015	1,585
Sun-fish	3, 970	72	4,000		134,870	1,000
Swell-fish			<u></u> .	- 	75	101
Swell-fish Tarpon Tautog. Tomcod.			75	1		5, 114
Tautog		· · · <i>- · · · · · ·</i>		- <i></i>	144, 367	
Tomcod					303, 341	5, 671
Wall-eyed pike Whitebait					14,675	2,321
Whitebait					24,510	1,784
Whiting			600	12	440, 379	8,366
Whiting	107.600	14.384	1,764,680	134,777	7, 604, 918	961,003
Clams soft	,	l			1, 682, 220	113, 761
Clams, soft					13,336	500
Crabs, hard	0 824 703	85, 884	6, 113, 277	52,863	17, 449, 790	167, 298
Cooks noft	4 303 589	909.563	1 988 494	65, 972	6, 200, 865	328, 087
Crabs, soft	1900,002	202,000	1, 288, 424 15, 377	1,283	16, 307	1,573
Frogs	130	00	10,017	1,2	1, 130, 200	4, 091
Lobsters	· · · · · · · · · · · · · · · · · · ·				252, 242	30, 376
ropsters	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		·····	637, 000	2,780
Mussels Oysters, market		0 001 510	42, 473, 683	2,621,915	110, 260, 528	9, 129, 992
Oysters, market	39, 798, 927	3,031,010	10 704 446	301,541	27, 987, 211	1, 157, 564
Oysters, seed		····	12,724,440	301, 391	2, 430, 000	1,362
Oysters, market Oysters, seed Shells Prawn Scallops Schrimp Squid	<i></i>			142	2, 450, 660	142
Prawn			2,800	142 ;	1, 223, 724	110, 537
Scallops			<i></i>			
Shrimp	728	708			4,823	2,696
Squid					198, 594	5,940
Terrapin	1,000	1,100	(7, 100		15, 807	6,549
Turtle	4, 835	203	56,897	1,444	142, 412	6, 015
Total	82, 975, 245	3, 767, 461	378, 183, 358	4, 613, 384	819, 046, 576	17, 485, 500

Note.—The statistics of the oyster fishery given above are for the season of 1900-1901 for all territory except Long Island, New York; Delaware; Worcester County, Md.; and Accomac and Northampton counties, Va., where the data relating to this fishery were obtained for the calendar year 1901.

Supplementary table showing certain of the above products in number and bushels.

	New	York.	New J	ersey.	Pennsy	lvania.	Delaw	are.
Products.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Clams, hard, bush		\$257, 686 58, 843	530, 759 90, 277	\$552,953 54,918			1,025	\$ 1,203
Clams, softdo			1,667	500				
Crabs, hardNo Crabs, softdo		4,993 2,104	2, 159, 985 1, 253, 730	23,558 51,861			451,527	5, 587
King crabsdo Musselsbush	10, 240	1,860	204,900 11,860	1,711 920			360, 200	2,380
Oysters, market,	•		·	1,696,767	40, 336	8 35, 517	96,900	40,290
bushels Oysters, seed, bush .	1,768,703 544,075	1,703,985 268,555	1,516,796	550,918	43, 234	14, 232	76, 290	22, 318
Shellsdo Scallopsdo	38, 100 184, 954	1,330 107,337	2,400 7,388	3, 200				• • • • • • • • • • • • • • • • • • •

Value. \$134,777	950, 555 168, 222 1, 667	Value. \$961,003 113,76
	168, 222	118,76
	1,067	
52, 863 65, 972	52, 349, 370 18, 602, 595	167, 298 928, 081 4, 091
0.001.015	22, 100	2,78
	3, 998, 178 40, 500	9, 129, 99 1, 157, 56 1, 36 110, 53
	9 2,621,915 8 301,541	9 2,621,915 15,751,504 8 301,541 3,998,178