STATISTICS OF THE FISHERIES OF THE GULF STATES.

PREPARED IN THE DIVISION OF STATISTICS AND METHODS OF THE FISHERIES, UNITED STATES FISH COMMISSION.

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INTRODUCTORY NOTE.

The following report on the condition of the commercial fisheries of the Gulf States is based upon a canvass of the region made in 1898, the information relating to the year 1897. Condensed information on this subject has already been made public in Statistical Bulletin No. 8, Fisheries of the Gulf States, single-sheet statistical bulletins relating to the condition of the fisheries usually being prepared upon the completion of field work and distributed in advance of full reports appearing in the regular publications of the Commission.

The report has been prepared under the direction of Mr. C. H. Townsend, assistant in charge of the Division of Fisheries.

The agents of the division participating in the field investigations were: Messrs. Charles H. Stevenson, in Texas and Louisiana; Ansley Hall, in Mississippi and Alabama, and John N. Cobb, in western Florida. The agents were familiar with the fields allotted to them, having at some previous time canvassed the fisheries of the same States. In addition to the purely statistical matter, they have furnished explanatory notes, which have been inserted under the proper headings.

The preparation of the extensive series of tables has been chiefly in the hands of Mr. S. Le R. Pritchard.

GEORGE M. BOWERS, U. S. Commissioner of Fish and Fisheries.

STATISTICS OF THE FISHERIES OF THE GULF STATES.

GENERAL NOTES AND STATISTICS.

The fisheries of the Gulf States, as considered in the present report, are the commercial fisheries of the coastal waters, no inquiries being made respecting fishing carried on irregularly above tidal waters.

The last canvass of the fisheries of this region was made in 1890.* While there has been an increase in the number of persons engaged, there has been a decrease in the amount of capital invested and in the value of the product. The fishery conditions in 1897 were, however, not quite normal, owing to unsettled conditions in Cuba, quarantine restrictions, and the storms of previous years, which destroyed much of the outfit of the fishermen. The region has very important fishery resources throughout its vast extent of coast line, but they are far from being well developed.

The fisheries of the Gulf States in 1897 gave employment to 13,967 Persons, 11,180 being fishermen and 2,787 shoresmen. The largest number is credited to Florida, where 5,011 were engaged. Louisiana ranks next with 4,403, followed by Mississippi with 2,565, and Texas with 1,199. In Alabama the number of persons employed amounted to 789. There has been an increase of 2,215 in the number of persons engaged in the Gulf fisheries since 1890, at which time the total number was 11,752. About one-fourth of the fishing population is composed of unnaturalized persons.

The money invested in the industry was \$2,584,061; nearly one-half of this sum, \$1,149,262, is credited to western Florida; \$518,301 to Mississippi, \$513,813 to Louisiana, \$237,496 to Texas, and \$165,189 to Alabama. There has been a decrease of \$394,231 in the amount of capital invested in the fisheries in this region since 1890.

The total number of vessels employed was 425, valued with their outfits at \$717,076. 6,025 boats were used, valued at \$436,041.

^{*}The following publications, emanating chiefly from the U.S. Fish Commission, should be consulted in this connection:

Fisheries of the Gulf of Mexico. Silas Stearns. The Fisheries and Fishery Industries of the United States, section 11. Geographical Review of the Fisheries for 1880.

Report on the Fisheries of the Gulf States. J. W. Collins and H. M. Smith. Bulletin II. S. Fish. Geographical 1881. letin U. S. Fish Commission, 1891.

Report on the Coast Fisheries of Texas. Charles H. Stevenson. Report U. S.

Report on the Coast Fisheries of 1821.

The Fish Commission, 1889 to 1891.

The Fish and Fisheries of the Coastal Waters of Florida. Transmitted to the United States Senate by the Commissioner of Fish and Fisheries, January 28, 1897.

Senate Document 100, Fifty-fourth Congress, second session. See also pp. 263-342, Report of U. S. Fish Commissioner for 1896.

The apparatus of capture was valued at \$137,216, and the shore property and cash capital at \$1,289,328.

The yield of the fisheries in this region was 65,660,623 pounds, valued at \$2,271,726. The fisheries of western Florida were valued at \$944,793. Louisiana ranks next in the value of products, the amount being \$713,587. The values of the products of the other three States are as follows: Texas \$286,610; Mississippi \$192,298, and Alabama \$134,438. The value of products has decreased \$166,949 since 1890. The oyster fishery leads in importance and was valued at \$748,760. The sponge fishery ranks next, with a value of \$305,589. Mullet follow, valued at \$213,988, and red snappers at \$200,412. Other important products of the region are trout valued at \$114,978; shrimp valued at \$117,453, and channel bass valued at \$91,776.

The sponge fishery is confined to Florida. The oyster fishery is more important in Louisiana than elsewhere, the yield in that State being valued at \$432,668. Mississippi ranks next in the importance of this fishery, the yield being valued at \$110,964. The shrimp fishery is of more importance in Louisiana than in any other State, having a value of \$80,576. The most important items in the fisheries of Alabama are oysters with a value of \$60,207, and red snappers valued at \$11,725. In the fisheries of Texas the oyster leads, valued at \$94,663. The other Texas fisheries of importance are the trout fishery valued at \$45,525, sheepshead at \$21,723, and red snapper at \$17,453.

The following three tables show, by States, the number of persons employed, the capital invested, and the yield in 1897, while the fourth table shows the extent of the fisheries in 1880, 1890, and 1897:

Table showing the number of	f persons engaged in th	e fisheries of the Gu	lf States in 1897.
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States.	Fishermen.	Shoresmen.	Total.
Florida Alabama Mississippi Louisiana Texas	593 1,061 8,719	344 196 1,504 684 59	5, 011 789 2, 565 4, 403 1, 199
Total	11, 180	2, 787	13, 967

Table showing the investment in the fisheries of the Gulf States in 1897.

	Flo	rida.	Alal	ama.	Mississippi.	
Designation.	No.	Value.	No.	Value.	No.	Value.
Vessels	2, 771, 02	\$274, 177 191, 561	53 522. 18	\$40, 375	83 854. 88	\$81, 125 25, 938
Outfit. Boats	1, 621	180,548 54,350	254	10, 570 12, 939 9, 205	439	17, 039 19, 255
Shore property		175, 526 323, 100		49, 350 42, 750		125, 644 249, 300
Total		1, 149, 262		165, 189		518, 801

Table showing the investment in the fisheries of the Gulf States in 1897-Continued.

	Loui	siana.	Te	Kas.	Total.	
Designation.	No.	Value.	No.	Value.	No.	Value.
Vessels Tonnage Outft Boats Apparatus of capture Shore property Cash capital	3, 025	\$32, 101 9, 545 197, 604 31, 660 173, 903 69, 000	45 508. 81 686	\$36, 565 15, 119 77, 911 22, 746 55, 155 30, 000	425 5, 052. 69 6, 025	\$464, 343 252, 733 436, 041 137, 216 579, 578 714, 150
Total		513, 813		237, 496		2, 584, 001

Table showing the products of the fisheries of the Gulf States in 1897.

	Flori	da.	Alaba	ma.	Mississippi.		
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	
Amber-fish	18, 600 59, 186	\$620 1,696 1,240	6, 000	\$115			
Barracuda Black bass Blue-fish	81,000 264,971	6, 057	41, 000 204, 500	2, 870 4, 094	27, 000 83, 300	\$1,350 1,105	
Buffalo-fish	5,000	100	188, 000	2, 872	21, 500 81, 200	215 720	
Crevalle	236, 368 38, 140	3,597 494	213, 000 12, 000	7, 425 180	199, 000 5, 000	8, 303 250	
Drum, salt-water Flounders Groupers	37, 855 32, 561 781, 155	622 549 9, 349	6,000 47,000 69,000	91 1,602 1,035	28, 200	1,002	
Grunts Hog-fish	671, 876 81, 600	16, 833 3, 480					
Jurel King-fish	7,500 440,000	75 6, 600					
Lady-fish. Mullet fresh	123, 223 11, 711, 041 2, 432, 277	2, 633 126, 124 54, 928	591, 300 6, 000	8, 497 195	240, 600	2, 881	
Mullet, salted Mullet roe, salted Perch	143, 999	13, 310	5,000	200	5,000	150	
Pike and pickerel Pin-flah			4,000	61 61	38, 880		
Pompano, fresh	859, 151 23, 225	17, 964 1, 236 2, 450	60,300	4,212	24, 800	1,580	
Porgles Pork-fish Sailor's choice	98, 200 11, 962 89, 381	1, 196 3, 198					
"Sardines"	150, 000 663, 347	3, 090 9, 793	86, 800	2, 949	110, 150		
QUANDARA TAN	5, 314, 487 110, 631 456, 322	171, 234 8, 296 21, 757	85, 500	11,725 3,960	64, 760		
Snappers, other Spanish mackerel, fresh Spanish mackerel, salted Spots and croakers	23, 579 26, 113	1, 193 495	504,000	8,099	51, 900		
Sturgeon	9, 254 7, 909	331 238	79,509	2, 783	24, 800 452, 800	508 15, 570	
Trout, fresh*	703, 830 63, 105 9, 589	15, 148 2, 524 109	296, 100	9,711			
Whiting Yellow tail Other fish	73, 440 537, 138	6, 594 24, 317					
Ovatara	332, 856 1, 258, 008	305, 589 50, 258	1, 785, 438	60, 207	4, 407, 992	110,96	
Shrimn	7, 084	171 8, 150	40, 600	600	1, 903, 165	28, 80	
Craw-fish Crabs, hard Crabs, soft	6, 240	208		505		3, 49- 1, 72	
Terrapin	11, 400	22, 736 1, 250 30	2,934	320	6, 798	1, 27	
Conohs Alligator hides Otter skins	500	12, 450 14, 481				.	
Total		·	4, 699, 381	134, 438			

^{*}The "trout" referred to in these tables is the squeteague or weak-fish of the northern Atlantic waters.

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Table showing the products of the fisheries of the Gulf States in 1897.

Gt	Louis	iana.	Tex	cas.	Total.		
Species.	Lbs.	Value.	Lbs.	Value.	Lba.	Value.	
Amber-fish					18, 600	\$62	
Angel-dsh					65, 186	1,81	
Barracuda					81,000	1, 24	
Black bass	320	\$26			68, 320	4, 24	
Blae-fish	3, 960	132	29, 540	\$1,281	536, 271	12,66	
Buffalo-tish	311, 093	4,768	12, 200		344, 793	5, 45	
Cat-fish	2, 153, 134	51, 420	71, 230	3, 035	2, 448, 564	58, 14	
Channel bass or red-fish	465, 200	20, 529	1, 144, 376	51, 922	2, 257, 944	91, 77	
Crevalle	18,000	690	18,000	743	86, 140	2, 10	
Drum, fresh-water	7, 250	74			7, 250	7	
Drum, salt-water	18,570	540	50, 400	2,046	117, 825	3, 54	
Flounders		654	218, 025	9,810	335, 411	13, 62	
Froupers	 .		3, 463	84	853, 618	10, 46	
Frunts Hog-fish lew-fish					671, 876	16, 83	
log-fish	125	. 5	15, 995	784	97, 720	4, 26	
ew-fish	. 		33, 281	1,083	33, 281	1,08	
Turel					7,500	7	
King-fish				.	440,000	6,60	
ady-fish		-	. 		123, 223	2,63	
zady-fish Mullet, fresh	165, 819	5,871	60, 350	2, 167	12, 769, 110	145,53	
Lullet, salted			500	25	2, 438, 777	55, 14	
Mullet roe, salted Perch. Pike and pickerel.					143, 999	13, 31	
erch	11,050	500	32, 150	1,506	53, 200	2, 35	
'ike and pickerel			22, 730	989	26, 730	1,05	
Pin-fish Compano, fresh Compano, salted	· · · · · · · · · · · · · · · · · · ·				42, 880	1, 37	
ompano, fresh	17, 665	1,891	17, 850	812	479, 766	26, 45	
ompano, salted				. 	23, 225	1, 23	
Porgles Pork-fish	• • • • • • • • • • • • • • • • • • •				98, 200	2,45	
ork-fish				.ļ. .	11, 962	1, 19	
ailor's choice		. 			89, 381	3, 19	
Sardines"heepshead		J		·	150,000	3, 09	
heepshead	238, 010	12,506	467, 504	21,723	1, 565, 811	51,07	
hoemaker	9, 600	846	- 		9, 600	.81	
ilver perch	8, 015	128			3, 015	12	
nappers, red		[464, 791	17, 453	6, 114, 278	200,41	
nappers, other panish mackerel, fresh					110, 631	3, 29	
panish mackerel, iresh	55, 805	5, 132	40, 710	1, 939	703, 097	37,86	
panish mackerel, salted	000 000			·····	23, 579	1, 19	
pots and croakers	328, 775	16, 980	136, 700	6, 007	1, 047, 488	83, 49	
triped bass	22, 880	1,440	8, 950	384	31, 830	1, 83	
turgeon			22, 400	984	31, 654	1, 31	
		3, 789			231, 998	7, 31	
Prout, fresh	200, 048	26, 500	1, 011, 620	45, 525	3, 030, 998	112, 45	
		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		63, 105	2, 52	
Vhiting		· · · · · · · · · · · · ·			11, 589	17	
other fish	00 FF0		40. 500	1	73, 440	6, 59	
		3, 583	60, 500	2,646	664, 188	30, 54	
pongesysters	0 514 000				332, 850	805, 58	
ysters	0, 714, 830	432, 668	2, 491, 370	94, 663	16, 657, 138	748, 76	
lams	***********	*********			7, 084	17	
hrimp	4, 486, 726	80, 576	860, 530	7,464	6, 791, 021	117, 45	
raw-fish rabs, hard	84, 950	8, 113	100 100		242, 450	6, 26	
rabs, nard	1, 458, 833	12, 891	138, 120	3, 689	1,759,233	20, 78	
urtles	00 202		007 007		21, 200	1,72	
errapin.	22, 395	581	237, 385	6, 860	894, 396	80, 17	
	41, 680	4, 149	8, 880	507	66, 692	7, 50	
onaha					500	8	
onchs	•••••		••••	1000000000			
onchs		22, 096	•••••			34, 54	
onchs		22, 096				34, 54 14, 48	
onchs		22, 096 713, 587	7, 174, 550		65, 660, 623	34, 54 14, 48 2, 271, 72	

Comparative table showing the extent of the fisheries of the Gulf States in 1880, 1890, and 1897.

PERSONS EMPLOYED.

States.	1880.	1890.	1897.	Increase or decrease in 1897 compared with 1890.	Percentage of increase or decrease in 1897 compared with 1890.
Florida Alabama Mississippi	2, 112 635 186 1, 597	4,068 618 1,721 4,068	5, 011 789 2, 565 4, 403	+ 943 + 171 + 844 + 335	+ 2.32 +27.66 +49.04 + 8.23
Louisiana Texas	601	1, 277	1, 199	- 78	- 6. 11
Total	5, 131	11,752	13, 967	+2, 215	+18.85

CAPITAL INVESTED.

States.	1880.	1890.	1897.	Increase or decrease in 1897 compared with 1890.	Percentage of increase or decrease in 1897 compared with 1890.
Florida	\$362, 563 38, 200	\$1,269,294 135,290	\$1, 149, 262 165, 189	_\$220,032 + 29,899	-16.07 +22.10
Alabama Mississippi		434,710	518, 301	+ 83,591	+19.23
Louisiana	93,621	719, 876	513, 813	206, 063	-28.62
Texas	42, 400	319, 122	237, 496	- 81, 626	—25. 58
Total	545, 584	2, 978, 292	2, 584, 061	- 394, 231	—13. 24

PRODUCTS.

	PRODU	CIS.			
		Pou	nds.		Percentage
States.	1880.	1890.	1897.	Increase or decrease in 1897 compared with 1890.	of increase or decrease in 1897 compared with 1890.
Florida Alabama Misalsaippi Louisiana Texas	8, 376, 385 3, 541, 500 788, 500 6, 996, 000 3, 858, 875	27, 418, 562 4, 776, 968 8, 131, 401 20, 789, 203 7, 959, 400	28, 255, 210 4, 699, 381 7, 829, 685 17, 401, 788 7, 174, 550	+ 836, 657 - 77, 587 - 301, 716 -3, 387, 415 - 784, 850	+ 8. 42 - 1. 62 - 3. 71 - 16, 29 - 9. 86
Total	23, 561, 210	69, 075, 534	65, 360, 623	-3, 714, 911	5, 88
			Value.		
States.	1880.	1890.	1897.	Increase or decrease in 1897 compared with 1890.	Percentage of increase or decrease in 1897 compared with 1890.
Florida Alabama Misaisaippi Louisiana Texas	\$564, 819 119, 275 22, 540 892, 610 128, 300	\$1, 084, 139 154, 871 245, 699 660, 134 313, 832	\$944, 793 134, 438 192, 298 713, 587 286, 610	-\$119, 346 20, 438 53, 401 +- 53, 453 27, 222	-11, 21 -13, 19 -21, 73 + 8, 10 - 8, 67
Total	1, 227, 544	2, 438, 675	2, 271, 726	166, 949	- 6.88

FISHERIES OF WESTERN FLORIDA.

The fisheries of western Florida are, in general, more important than those of any other State on the Gulf, and especially take precedence in the yield of blue-fish, mullet, pompano, red snappers, Spanish mackerel, and turtles. This is the only State in the country in which the sponge fishery is prosecuted.

The length of the coast line of the west side of Florida, following indentations, is about 2,810 miles.

The principal indentations are Charlotte Harbor, Sarasota Bay, Tampa Bay, Clearwater Bay, Wiccassassee Bay, Apalachee Bay, St. George Sound, Apalachicola Bay, St. Andrew Bay, Choctawhatchee Bay, Santa Rosa Sound, Escambia Bay, and Perdido Bay. The more important rivers are the Caloosahatchee, Peace, Manatee, Withlacoochee, Suwannee, Ocklocknee, Apalachicola, Choctawhatchee, Escambia, and Perdido.

The fishery centers are Key West, St. James City, Punta Gorda, St. Petersburg, Tampa, Tarpon Springs, Homosassa, Cedar Key, St. Marks, Carrabelle, Apalachicola, St. Andrew Bay, and Pensacola.

In all respects except the amount of capital invested and the value of the catch there has been an increase over the figures of the last general canvass in 1890.

The three following tables give, in condensed form, statistics of the fisheries of the west coast of Florida. Information for all species was not collected for the year 1897, and in some instances the figures obtained for the year 1895 have been used.

There were 1,231 men engaged in the vessel fisheries and in transporting fishery products. There were 183 vessels, valued at \$465,738, including their outfits, used in transporting and in the fisheries. The fishing vessels had \$5,632 invested in apparatus.

In the shore fisheries there were engaged 3,436 men. The boats numbered 1,621 and were worth \$130,548. The apparatus of capture was valued at \$48,718. In the shore industries connected with the fishing business 344 persons were employed. The shore property and cash capital amounted to \$498,626. The total investment in the fisheries was \$1,149,262.

The total yield of the commercial fisheries was 28,255,219 pounds, valued at \$944,793. The three most valuable products were sponges, valued at \$305,589; mullet, worth \$194,362; and red snappers, worth \$171,234.

Persons employed.

How engaged.	No.
On vessels fishing	1, 169 62 3, 436 344
Total	5, 011

Table of apparatus and capital.

Items.	No.	Value.	Items.	No.	Value.
Vessels fishing Tonnago Outfit Vessels transporting. Tonnage Outfit Boats Apparatus—vessel fisheries: Seines Turtle gill nets Lines Tongs Sponge apparatus	29 268. 70 1, 621 3 54	\$241, 201 179, 259 32, 970 12, 302 130, 548 675 1, 692 1, 007 136 2, 122		28 25 61 207 297 202	323, 100

Table showing by species the yield of the fisheries of the west coast of Florida in 1897.

Species,	Lbs.	Value.	Species.	Lbs.	Value.
Angel-fish	59, 186	\$1,000	Snappers, red		\$171, 234
Amber-fish	18, 600	620	Snappers, other		3, 296
Barracuda	31,000	1, 240	Spanish mackerel, fresh	450, 322	21, 757
Blue-fish	264, 971	6,057	Spanish mackerel, salted	23, 579	1, 193
Cat-fish	5,000	100	Spots and croakers	26, 113	495
Channel bass	236, 368	3, 597	Sturgeon	9, 254	331
Crevalle	38, 140	494	Sun-fishes		238
Drum	37, 855	622	Trout, fresh		15, 148
r lounders	.\ 82,561		Trout, salted		2,524
Groupers	781, 155	9, 349	Whiting	9, 589	100
Grunts	671, 876	16,833	Yellow tail	73, 440	6, 594
Hog-flah	81,000	3,480	Other fish	537, 138	24, 317
ourel	. 7.500	75	Oyaters	11, 258, 008	50, 258
King-fish	440,000	6, 600	Clams	7,084	171
Lady fish	123, 223	2,633	Conchs		30
Mullet, fresh	. 11,639,615	125, 172	Sponge	332, 856	305, 589
Blullet, salted	. 2, 503, 703	55,880 (Crabs	6, 240	208
ullet roe salted	. 143, 999	13,310	Craw-fish	157, 500	3, 150
Pompano, fresh	359, 151	17,984	Turtles		22, 786
L'ompano, salted	. 23, 225	1,236	Terrapins	2 11, 400	1, 250
rurgies	. 98, 200	2, 450	Alligator hides	(3)	12, 450
Pork fish	. 11.962	1, 196	Otter skins	(4)	14, 481
Sailor's choice	89, 381	3, 198			
Sardines	. 150.000	3, 090	Total	28, 255, 219	944, 793
Sheepshead	663, 347	9, 793			

¹179,715 bushels.

THE FISHERIES BY COUNTIES.

Commercial fishing is carried on in 16 of the 19 coastal counties, but most extensively in Mouroe, Escambia, and Hillshoro counties.

Vessel fisheries.—The vessel fisheries of the west coast of Florida are more important than those of any other State in this region. They are prosecuted from 8 counties, but principally from Mouroe and Escambia counties. In the former the sponge and turtle fisheries are most prominent, while in the latter the red-snapper fishery occupies the leading position. The total vessel catch amounted to 7,221,987 pounds, valued at \$488,531. The more important of the products are sponges, valued at \$276,295; red snappers, \$161,999; oysters, \$17,144, and turtles, \$16,308. While the shore fisheries yielded a larger quantity of fishery products, the value of the vessel fisheries was greater.

^{23,800} in number.

³ 17,300 in number.

^{42,936} in number.

Shore fisheries.—The total yield of the shore fisheries was 21,033,232 pounds, valued at \$456,262. While this is a much larger eatch than that made in the vessel fisheries, the latter is somewhat more valuable, owing to the large number of sponges taken by vessels. The leading products in the shore fisheries are mullet, worth \$194,362; oysters, \$33,114; sponges, \$29,294; pompano, \$18,997; trout, \$17,672; grunts, \$16.833. and Spanish mackerel, \$15,836.

Monroe County ranks first in the value of products handled, followed by Hillsboro, Manatee, Lee, Franklin, and De Soto counties in the order In the quantity of catch handled Manatee County holds first place, followed by Hillsboro, De Soto, Monroe, and Franklin counties. Detailed figures for each county are given in the following five tables:

Table showing the number of persons employed in the fisheries of the west coast of Florida.

In vessel On vessels Shore or boat Shores-Total. Counties. fisheries. transporting. fisheries. men Monroe 1,601 267 276 279 15 12 228 24 192 183 41 538 24 61 127 30 2 6 9 2 340 Hernando..... Citrus 3 235 247 25 27 146 149 136 124 12 Wakulla . 61 580 116 761 Franklin Calhonn 10 211 10

16 26 220 220 Escambia 472

Table showing by counties the appara	tus and capital	l employed in	the fisherics	of the west
	oast of Florida		•	•

3, 436

5,011

	Mor	roe.	1	.ee.	De	Soto.	Ma	natee.	Hille	boro.	Нег	nando
Designation.	No.	Value.	No.	Val.	No.	Val.	No.	Val.	No.	Val.	No.	Val.
Vessels fishing	89	\$121, 800			2	\$1,600			15	\$18, 206	 	
Tonnage	1, 165, 45		 .		13. 79	•••••	ļ- <i></i> -	!	181.93			
Outfit	ļ	79, 594	. .			1,539				13, 604	• • • •	
Vessels transporting	1	1,600		ļ. 	6	3,600			20	26, 926		- -
Tonnage	19.14				47. 52				189. 29			
Outfit		225			j. .	2, 922				8, 995	}	
DORGE	, 340	52, 942	54	\$3, 106	123	6, 915	199	\$12,530	222	13, 185	20	; \$6 00
Apparatus—vessel fisher-		,		1							ĺ	
Colmon	1			!	٠,	550	1 1	1	1		l	
Seines		1 620		i • • • • • •	-	030						· •
T de la lieus	51	1, 032	i							120	ļ. .	
Lines]	1 200			j••••					210		
Sponge apparatus		1,702			- <i></i>	•••••	• • • •	••••	• • • • • •	919	·	
Apparatus - shore fisher-			l	İ		1		l			l	l l
ies:		المحما			ĺ	ĺ		0.050	ا۔، ا	4 040	l	ĺ
Seines			43	2, 170			78	2, 350				
Gill nets			56	1,771	140	3,500	211	6, 219				
Cast nets		80						• • • • • • •	20	110	i	
Trap nets	25	75						 .				
Turtle nets		896										
Lines	. 	i 89							1	30	i - • • •	.
Тордв	l	. 	l. 		9	59	6.	48	48	312		ļ
Tougs		1.026					'	1		9	·	
Guns			150	2, 250	44	660			20	300		
Guns Traps			150			9			20	12		
Minor apparatus		108										
Shore and accessory prop-		100		l	١٠٠٠،					••••	· ···	
erty	l	79 205		2 100		1, 200	'	1, 100		20 555	١	50
erty		125 000		500		15 800		1,100	l	50,000	1	
Ough orluster		100,000		300		10,000	!			00,000		
Total		480 204		11 097		28 154	.—	22 247		150 494		1 250
T.O.O	1	200, 2114		11,001		00, 104	١٠٠٠.	20,241		100, 203	• • • •	اء, عاد

Table showing by counties the apparatus and capital employed in the fisheries of the west coast of Florida—Continued.

					1 7 0				1 77-		7 =	
Designation.	1	trus.	;	0 ∀ y.	J	yette.	ļ. 	aylor.	_	kulla.	·!	anklin.
	No.	Value.	No.	Value.	No.	Value.	No.	Valu	8. No.	Value.	No	. Value.
Vessels fishing	J		1	\$700			 . 		[]			0 \$6,020
Tonnage	ĺ <u>ˈ</u>		./ 8. 15 	1, 980							72.3	6, 182
Tohnage	· • • • · ·	· • • • • • •					. 		·-		12.7	2 850
Ontfit Boats		#1 000	100	0.000		4400		,		******		160
apparatus — vessel	40	\$1,080	109	8,029	14	\$420	07	\$1,710	' 81	\$2,035	21	13 19, 216
fisheries: Turtle nets			3	60							<u> </u>	i
Tongs			/	(i					-}}	• • • • • •	1	136
Apparatus — shore fisheries: Seines	1 1								8			}
Gill netsTurtle nets	23	690	62	1,340	14	350	57	1,426		240 765	} €	15 2,531 14 1,465
Lines			30	600	•••••	••••••				•••••	Ì	3 00
Tines Tongs Sponge apparatus Guns Traps Minor apparatus Shore and accessory property	18	144	26	156			••••		4	32	6	553 99
Guns									. 50	750		3 495
Minor apparatus	<u>(</u>	• • • • • • • • •		4		• • • • • • •						7 11
propertyCash capital		430	ļ. 	2, 100	}	100		280		1, 118	<u> </u>	28, 138
Cash capital			<u> </u>	8,500	<u>-</u>	·	•••••	<u> </u>	<u>: : </u>	3, 000		38,500
Total	••••	2, 354	ļ· ··· ·	23, 472	•••••	870	••••	3, 415	<u> </u>	8, 840		104, 584
	Cal	houn.	Wasl	ington.	San	a Rosa]	Escar	nbia.	1	To	tal.
Designation.	No.	Value.	No.	Value.	No.	Value	D	No.	Valu	0.	So.	Value.
Vessels fishing			2	\$1 000	,	#1 200		34	\$89, 7	75	154	\$241, 201
Tonnage			14.71		13. 29		- 1, 0	32.68		2.50	2. 32	
Vessels transporting .				2,280		1, 990	'.{:::		12,0		29	179, 259 32, 976
Vessels fishing					·	.j	-			26	8.70	12, 302
Roats. Apparatus — vessel	12	\$360	73	2, 410	2	200)	53	4, 90	00 i	, 621	130, 548
		}	,	125			-				•	
Turtle nets Lines Tongs Sponge apparatus Apparatus — 8 h o re	· · · · · · ·										3 54	675 1,692
Tongs		[33	····	.) 22	. j			04	16	1,007 136
Apparatus — shoro		·····	' 		····	.' 	.	• • • • • •		••• ••••		2, 122
Seines	4	400	28	4, 100	2	250	, j	18	2, 2	50	271	16, 287
Gill nets	••••		3	75		.	-	20	80	00	858 28	22, 998
Trap uets.				· • • • • • • • • • • • • • • • • • • •		ļ	.[25	190 75
Lines	. 					. .	:				61	1,58 6 184
Sponge apparatus.			16	136	J		·	15	13	35	207	1,575 1,134
Guns Trans	•••••	J	•••••				-				297 202	4, 455 122
Minor apparatus Shore and accessory	· · · · · ·			. 	ļ				. 			112
Apparatus — shore tisheries: Seines . Seines . Gill nets . Cast nets . Trap nets . Turtle nets . Lines . Tongs . Sponge apparatus . Guns . Traps . Minor apparatus . Shore and accessory property. Cash capital .	•••••	50		3, 100	} 	100	ļ		42, 80	0		175, 526
Total		810	<u> </u>	2,000	<u> </u>	·′——	- i		70, 00 284, 13			323, 100 1, 149, 262
		0.0		10, 100	}	} -,	1		, 10			1, 140, 202

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Table showing by counties and species the yield of the fisheries of western Florida.

Species.		Mo	nroe.	.	Le	в.		De S	oto.	Man	atre.
Species.		Lbs.	Value	LI	bs.	Value.		Lbs.	Value.	Lbs.	Value.
Angel-fish		27, 600 18, 600	0 620		, 000	\$35					
Barracuda		31,000	1, 240				ļ	•••••			
Blue-fish		11, 000	917		,500	270 315		33, 582	\$672	45,000	\$900
Crevalle				- 21				4,800	72	75, 620 8, 094	1, 134
Drum	. '	••••••					١	••••••		15,000	122
Flounders	• • • • • • • • • •	155				. .		••••••		12,000	184
Groupers	· _i	114, 500				· • • · · • • ·		 .			
Hog-fish		642, 000 81, 600				• • • • • • •		• • • • • • •	· • • • • • •	9, 333	187
King-tish		440,000				• • • • • • • • • • • • • • • • • • •		• • • • • • • •	· • • • • • • •	•••••	
Lady fish		70,000	2, 100)				. 			
Mullet, fresh		49, 614		211,	100	8, 167	2, 3	362, 080	23, 621	3, 664, 566	36, 645
Mullet, salted Mullet roe, salted.		750 100		740,	444 904	12, 528 4, 152	···	• • • • • • •	· • • • • • • •	31,000	517
Pompano, fresh				. 12.	600	756	٠	58, 240	2, 330	2, 675 76, 110	216 3,805
Pompano, salted		· • • • • • • • • •		- 7,	425	446					0,000
Porgies Pork-fish		98, 200 11, 962	2,450		• • • • • •	· • • • •					
Sailar's chaice	1	20, 179	1, 196 2, 020		100	32					
"Sardines"		150,000	3, 090			32		2, 000	40	15, 102	226
"Sardines" Sheepshead		300	14	73,	142	1,097	1	00,000	1,500	81, 213	1,219
Snappers, red		6,800	204] .						
Snappers, other Spanish mackerel,	fronh	59, 334 17, 000			000	15	٠.,			11,000	165
Spanish mackerel,	salted		303		500	80 245	. 2	207, 720	12, 509	29, 716	1, 189
Trout, fresh				. 24,	333	487	•••	5, 453	119	117, 425	2, 347
Yellow-tail Other fish		64, 880	6,475		-		• • •				
Ovsters		453, 481	23, 304		::::			*****	0.505		
Clams		900	36					67, 128	2, 797	1, 280	79
Conchs		500	30								••••••
Sponges Crabs	• • • • • • • • •	270, 906							1		
Craw-fish		6, 240 157, 500	208 3, 150				• • •		• • • • • • • • •		• • • • • • •
Furtles		546, 752	17,770				· • •			• • • • • • • • • • • • • • • • • • • •	•••••
Alligator hides				1		0 400					
					••••	8,400			525		
Otter skins	· .	••			••••		• • •		525 1, 750	••••••	• • • • • • • • • • • • • • • • • • • •
Total	- '-	, 351, 853	376, 783			10,000	_	41, 003	1, 750	4, 195, 134	49, 160
	- '-		<u> </u>	1, 171,	048	10,000 42,025	_	41, 003	1, 750 45, 935		
	Hills1	boro.	Hern	1, 171, ando.	048	10,000 . 42,025 2 Citrus.	2, 8	41, 003	1,750 45,935 evy.	Lafa	yette.
Total			<u> </u>	1, 171,	048	10,000 . 42,025 2 Citrus.	2, 8	41, 003	1,750 45,935 Levy.	Lafa	
Species.	Hillsl Lbs. 15, 100	boro.	Hern	1, 171, ando.	048	10,000 . 42,025 2 Citrus.	2, 8	41, 003	1,750 45,935 evy.	Lafa	yette.
Total	Hillsl Lbs. 15, 100 31, 114	Value. \$200 673	Hern Lbs.	1, 171, ando. Value.	048 C	10,000	2, 8 ue.	41, 003	1,750 45,935 Levy.	Lafa	yette.
Total	Hillsl Lbs. 15, 100 31, 114 61, 307	Value. \$200 673 970	Hern	1, 171, ando. Value.	048 C	10,000	2, 8 ue.	41, 003 I Lbs	1,750 45,935 Levy. Valu	Lafa	yette.
Total Species. Angel-6sh Blue-fish thannel bass Trevalle	Hills Lbs. 15, 100 31, 114 61, 307 12, 515	\$200 673 970 188	Hern Lbs.	1, 171, ando. Value.	048 C	10,000	2, 8 ue.	1, 8, 8, 6, 6, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1,750 45,935 evy. Value 000 \$44 5	Lafa	yette.
Species. Angel-fish Slue-fish Channel bass revalle	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444	\$200 673 970 188 200 277	Hern Lbs.	1, 171, ando. Value.	048 C	10,000	2, 8 ue.	41, 003 I Lbs	1,750 45,935 evy. Value 000 \$44 5	Lafa	yette.
Total	Hillsl Lbs. 15, 100 31, 114 31, 307 12, 515 13, 000 18, 444 127, 000	\$200 673 970 188 200 277 1,270	Hern Lbs.	1, 171, ando. Value.	048 C	10,000	2, 8 ue.	1, 8, 8, 6, 6, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1,750 45,935 evy. Value 000 \$44 5	Lafa	yette.
Species. Angel-fish Slue-fish Slue-fish Crevalle Drum Clounders roupers roupers	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333	\$200 673 970 188 200 277 1,270 347	Lbs.	1, 171, ando. Value.	048	10,000 42,025 2 2 2 2 2 2 2 2 2	ue.	1 Lbs	1,750 45,935 evy. Valu 500 8440 555 19	Lafa, 10. Lbs.	vette.
Species. Angel-6sh Slue-fish Channel bass Tevalle Frum Flounders Froupers Trunts Gullet, fresh	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631	\$200 673 970 188 200 277 1,270 347 17,058	Lbs. 1,500	1, 171, ando. Value. \$23	048 C	10,000 42,025 2 2 2 2 2 2 2 2 2	ue.	1, 8, 3, 6, 9, 83	1,750 45,935 Levy. Value	Lafa; te. Lbs. 5 7 143,000	vette. Value. \$1,430
Species. Angel-fish Blue-fish Channel bass Crevalle Frounders Froupers Frunts Fullet, fresh fullet, salted Gullet os, salted	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 17, 333 1, 778, 631 45, 122 1, 840	\$200 673 970 188 200 207 1,270 347 17,058 529 184	Lbs.	1, 171, ando. Value.	048	10,000 42,025 2 2 2 2 2 2 2 2 2	ue.	1 Lbs	1,750 45,935 Levy. Value	Lafa; te. Lbs. 55 77	Value. Value.
Species. Angel-fish Bluo-fish hannel bass revalle Frewalle Frewalle Frum Hounders roupers runts fullet, fresh fullet, salted fullet roe, salted formpano, fresh	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756	\$200 673 970 188 200 277 1, 270 3,7058 529 184 8, 753	Hern: Lbs. 1,500	1, 171, ando. Value. \$23 1, 300 31	048	10,000 42,025 2 2 2 2 2 2 2 2 2	ue.	1 Lbs 1,86 25,00 18,20	1,750 45,935 evy. Valu 000 8440 55 19 19 19 19 19 19 19	Lafa; te. Lbs. 5 7 143,000	vette. Value. \$1,430
Species. Angel-fish Slue-fish Slue-fish Crevalle Drum Clounders Foupers Frunts Gullet, fresh Gullet, salted Gullet roe, salted. Ompano, fresh ailor's choice	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000	\$200 673 970 188 200 200 347 1, 270 347 17, 058 529 184 8, 753 360	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12	048 C Lb:	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 8, 3, 6, 9, 8, 20, 18, 20, 00, 18, 20, 00, 00	1,750 45,935 Cevy. Valu 555 19 19 19 19 19 19 1	Lafa, 1. Lbs. 5	yette. Value. \$1,480 360 200
Species. Angel-fish Blue-fish hannel bass revalle Orum lounders roupers irunts fullet, fresh fullet, salted fullet roe, salted ompano, fresh ailor's choice heepshead heepshead happers, red	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 995	\$200 673 970 188 200 347 1,77 058 529 184 8,753 360 2,128	Hern: Lbs. 1,500	1, 171, ando. Value. \$23 1, 300 31	048	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 8, 8, 8, 8, 8, 8, 20, 18, 20, 90, 130, 86	1,750 45,935 45,935 Gevy. Value 00 844 40 5 19 00 0,25 22 00 1,366 1,366 1,367	Lafa; te. Lbs. 5 5 7 0 143,000 3 24,000 2,000 6 3,100	Value. Value.
Species. Angel-fish Slue-fish Channel bass revalle rounders roupers roupers fullet, fresh fullet, salted fullet ro, salted compano, fresh ailor's choice heepshead nappers, red nappers, other	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000	\$200 673 970 188 200 200 347 1, 270 347 17, 058 529 184 8, 753 360	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12	048 C Lb:	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8 ue.	1, 8, 3, 6 9, 8, 26, 00, 130, 86 7, 56	1,750 45,935 45,935 evy. Valu 00	Lafa, Lbs. 55 7 0 143,000 24,000 2,000 0 3,100 5 3,100	yette. Value. \$1,480 360 200
Species. Angel-6sh Slue-fish channel bass revalle frounders roupers rrunts fullet, fresh fullet, salted fullet roe, salted compano, fresh sailor's choice heepshead nappers, red nappers, red nappers, ther	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 17, 333 1, 778, 631 177, 631 170, 756 24, 000 138, 995 275, 500 22, 433	\$200 673 970 188 200 1, 277 1, 270 1, 270 1, 270 1, 270 1, 28 529 184 8, 753 8, 60 2, 128 8, 290 302	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12 93	048 C Lbs	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8 ue.	1, 8, 3, 6 9, 83 625, 00 18, 20 20, 00 130, 88 7, 66 9, 53	1,750 45,935 45,935 Ovy. Valu 000 8440 55 19 6,25 000 1,36 000 1,36 000 1,36 1,36 1,36 1,36 1,36 1,36 1,36 1,36	Lafa; te. Lbs. 5 5 7 0 143,000 3 24,000 2,000 0 3,100 5	yette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Channel bass Tevalle Drum Clounders Trunts Gullet, fresh Gullet, fresh Gullet, salted Compano, fresh ailor's choice heepshead Inappers, red Inappers, other Inappers, other Ipanish mackerel, Ifresh	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 1, 778, 631 1, 776 24, 000 138, 995 275, 500	\$200 673 970 188 200 277 1, 270 347 17, 058 529 184 8, 753 360 2, 188 200	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12 93	048 C Lbs	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8 ue.	1, 8, 3, 6 9, 8, 26, 00, 130, 86 7, 56	1,750 45,935 45,935 Ovy. Valu 000 8440 55 19 6,25 000 1,36 000 1,36 000 1,36 1,36 1,36 1,36 1,36 1,36 1,36 1,36	Lafa; te. Lbs. 5 5 7 0 143,000 3 24,000 2,000 0 3,100 5	yette. Value. \$1,480 360 200
Species. Angel-fish Blue-fish Channel bass Trevalle Frewalle Froupers Froupers Froupers Froupers Froupers Frongers Frongers Forman Fresh Fresh Fresh Forman Fresh Fresh Fresh Fresh Fresh Forman Fresh Fresh Fresh Fresh Fresh Forman Fresh Forman Fresh Fresh Forman Fr	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 758 24, 000 138, 995 275, 500 22, 433 75, 834	\$200 673 970 188 200 1, 277 1, 270 1, 270 1, 270 1, 270 1, 28 529 184 8, 753 8, 60 2, 128 8, 290 302	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12 93	74, 1. 22, 20	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 8, 3, 6 9, 83 625, 00 18, 20 20, 00 130, 88 7, 66 9, 53	1,750 45,935 45,935 Ovy. Valu 000 8440 55 19 6,25 000 1,36 000 1,36 000 1,36 1,36 1,36 1,36 1,36 1,36 1,36 1,36	Lafa; te. Lbs. 5 5 7 0 143,000 3 24,000 2,000 0 3,100 5	yette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Channel bass revalle Frumt Frunts fullet, fresh fullet, salted fullet, salted compano, fresh ailor's choice heepshead nappers, red nappers, other panish mackerel, fresh penish mackerel, salted pots and croakers	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 758 24, 000 138, 995 275, 500 22, 433 75, 834	\$200 673 970 188 200 1, 277 1, 270 1, 270 1, 270 1, 270 1, 28 529 184 8, 753 8, 60 2, 128 8, 290 302	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12 93	048 C Lbs	10, 000 42, 025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 8, 3, 6 9, 8 025, 00 18, 20 26, 00 130, 86 7, 56 9, 52 1, 11	1,750 45,935 45,935 45,935 45,935 46,00 84,00 6,25,00 22,00 1,36,00	Lafa, te. Lbs. 55 7 0 143,000 2,000 0 2,000 1 3,100	yette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish channel bass revalle brum Flounders roupers runts fullet, fresh fullet, salted fullet roe, salted. ompano, fresh sailor's choice heepshead nappers, red nappers, red nappers, other panish mackerel, fresh panish mackerel, salted pots and croakers. turgeon	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 18, 985 275, 500 22, 433 75, 834	\$200 673 970 188 200 277 1,270 1,270 17,058 529 184 8,753 8,660 2,128 8,290 302 3,630	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1.1 22, 22, 24, 38, 94	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 1003 1, 8, 3, 6 1, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1,750 45,935 45,935 6vy. Valu 000 \$440 55 19 600 1,252 11 19 4 60 9 22:44 334 334	Lafa; te. Lbs. 55 7 00 143,000 3 24,000 2,000 00 3,100 51	vette. Value. \$1,480 360 200
Species. Angel-6sh Slue-fish channel bass revalle rum Flounders froupers frunts fullet, fresh fullet, salted compano, fresh saltor's choice heepshead nappers, red nappers, red nappers, red panish mackerel, fresh panish mackerel, salted pots and croakers turgeon rout, fresh 'hitting 'hitting	Hills1 Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 758 24, 000 138, 995 275, 500 22, 433 75, 834	\$200 673 970 188 200 277 1,270 1,270 17,058 529 184 8,753 360 2,128 8,290 3,630	1,500 1,500 128,000 3,000 120	1, 171, ando. Value. \$23 1, 300 31 12 93	74, 1. 22, 20	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8 ue.	41,003 Lbs 1,8,3,6 9,8 625,00 18,20 26,00 130,86 7,66 9,53 1,21 1,10 9,25 14,00	1,750 45,935 45,935 6vy. Valu 000 \$4 40 55 19 10,36 1,36 10,36 11,36	Lafa, 100 Lbs. 55	yette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Slue-fish Shannel bass revalle Drum Clounders roupers roupers fullet, fresh fullet, salted fullet roe, salted ompano, fresh ailor's choice heepshead nappers, red nappers, red nappers, other panish mackerel, fresh panish mackerel, salted pots and croakers turgeon rout, fresh Thiting ther fish	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 985 275, 500 22, 433 75, 834	\$200 673 970 188 200 277 1,270 1,270 17,058 529 184 8,753 8,660 2,128 8,290 302 3,630	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8 ue.	41,003 I I I I I I I I I	1,750 45,935 45,935 45,935 Covy. Value 300 6,25 22 300 1,36 1,36 1,36 1,36 1,36 1,36 1,36 1,36	Lafa, 100 Lbs. 7	vette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Channel bass revalle Frums Froupers Frunts fullet, fresh fullet, salted Compano, fresh ailor's choice heepshead nappers, red nappers, other panish mackerel, fresh penish mackerel, fresh prots and croakers turgeon rout, fresh Thiting ther fish yesters	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 995 275, 500 22, 433 75, 834	\$200 673 970 188 200 188 200 188 529 184 8, 753 360 2, 128 8, 290 3, 630 2, 3, 630	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1.1 22, 22, 24, 38, 94	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	41,003 I I Lbs 1,8 3,6 6 18,2 19,5	1,750 45,935 45,935 45,935 45,935 40,000 \$4,000	Lafa, 100 Lbs. 7	vette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Slue-fish Shannel bass revalle Drum Tounders roupers roupers roupers fullet, fresh fullet, fresh fullet roe, salted ompano, fresh ailor's choice heepshead nappers, red nappers, other panish mackerel, fresh panish mackerel, stresh pots and croakers turgeon rout, fresh Thitting ther fish ysters	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 18, 444 127, 000 18, 440 170, 750 24, 000 22, 433 75, 834 110, 220 4, 100 313, 500	\$200 673 970 188 200 347 1,277 1,276 8,752 860 2,128 8,290 3,630 2,311	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 8, 8, 8, 8, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1,750 45,935 45,935 45,935 45,935 40,000 \$4,000	Lafa, 100 Lbs. 7	vette. Value. \$1,480 360 200
Species. Angel-6sh Slue-fish channel bass revalle revalle rum flounders roupers runts fullet, fresh fullet, salted compano, fresh ailor's choice heepshead nappers, red nappers, red nappers, red nappers, ther panish mackerel, fresh punish mackerel, firesh runts fresh punish mackerel, firesh punish mackerel, firesh punish mackerel, salted pots and croakers turgeon rout, fresh hiting ther fish ysters lams ponges urtles	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 18, 444 127, 000 18, 440 170, 750 24, 000 22, 433 75, 834 110, 220 4, 100 313, 500	\$200 673 970 188 200 277 1,276 8,529 184 8,753 360 2,128 8,290 3,630 2,311 78	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	41,003 I Lbs 1,8 3,6 6,8 625,00 18,20 19,25 1,21 1,10 9,25 140,00 60 31 50,50 6,18	1,750 45,935 45,935 6vy. Valu 000 \$4 40 55 19 10,36 1,36 10 11 4 6 1,33 0 0 11 0 0 1,36 0 0 1 10 0 0 2,04 4 133	Lafa, 100 Lbs. 55	vette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Slue-fish Shannel bass revalle Drum Clounders roupers roupers fullet, fresh fullet, salted fullet roe, salted ompano, fresh ailor's choice heepshead nappers, red nappers, other panish mackerel, fresh panish mackerel, salted pots and croakers turgeon rout, fresh Thitting ther fish ysters lams ponges urties errapins	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 995 275, 500 22, 433 75, 834 110, 220 4, 100 313, 500 56, 000	\$200 673 970 188 200 277 1,270 188 529 184 8,752 360 2,128 8,290 302 3,630	Hern Lbs. 1,500 128,000 3,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	41,003 I I Lbs 1,8 3,6 6 18,2 19,5	1,750 45,935 45,935 OVy. Value 00	Lafa, 14, 000 24, 000 3, 100 3	vette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Shannel bass Crevalle Frum Flounders Froupers Frunts Gullet, fresh fullet, salted fullet, salted fullet roe, salted forpano, fresh ailor's choice heepshead nappers, red nappers, red nappers, other panish mackerel, fresh panish mackerel, fresh panish mackerel, fresh patish mackerel, fresh patish mackerel, fresh puts and croakers turgeon rout, fresh Hiting ther fish ysters lams ponges urties errapins lligator hides	Hillsi Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 995 275, 500 22, 433 75, 834 110, 220 4, 100 313, 500 56, 000	Value. \$200 673 970 188 200 277 1,270 347 17,058 529 184 8,753 360 2,128 8,290 3,630 2,121 17,219 23,300 33,630	Hern Lbs. 1,500 128,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 1003 1, 8, 3, 6 1, 8, 3, 6 9, 8i 025, 00 18, 20 10, 130, 8f 7, 56 9, 53 1, 11 1, 10, 00 6, 18 85, 00	1,750 45,935 45,935 OVy. Value 00	Lafa, 14, 000 24, 000 3, 100 3	vette. Value. \$1,480 360 200
Species. Angel-fish Slue-fish Slue-fish Shannel bass Crevalle From Frounts Gullet, fresh fullet, salted Gullet, fresh fullet, salted Gullet roe, salted From From From From From From From From	Hillsl Lbs. 15, 100 31, 114 61, 307 12, 515 13, 000 18, 444 127, 000 17, 333 1, 778, 631 45, 122 1, 840 170, 756 24, 000 138, 995 275, 500 22, 433 75, 834 110, 220 4, 100 313, 500 56, 000	\$200 673 970 188 200 277 1,270 188 529 184 8,752 360 2,128 8,290 302 3,630	Hern Lbs. 1,500 128,000 120 6,213 1,000	1, 171, ando. Value. \$23 1, 300 31 12 93 20	74, 1 22, 22, 26, 33	10,000 42,025 2 2 2 2 2 2 2 2 2	2, 8- ue.	1, 1003 1, 8, 3, 6 1, 8, 3, 6 9, 8i 025, 00 18, 20 10, 130, 8f 7, 56 9, 53 1, 11 1, 10, 00 6, 18 85, 00	1,750 45,935 45,935 OVy. Value 00	Lafa, 14, 000 24, 000 3, 100 3	vette. Value. \$1,480 360 200

Total 3, 312, 744 93, 327 173, 499 2, 152 130, 589 2, 118 1, 146, 993 21, 292 186, 100

Table showing by counties and species the yield of the fisheries of western Florida—Cont'd.

Species.	Tay	lor.	Wak	ulla.	Fran	klin.	Calb	oun.
	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value
Catfish Channell	<u> </u>	J			5,000	\$100		
		\$24	29, 681	\$440	29, 977	450		1
TANKINGELS		·}• • • • • • • •	500	9]	·]	ļ. 	
Grunts Mullet, fresh Mullet, salted Mullet roe, salted Pompano, fresh Pompano, salted Sheopshoad Spanish mackerel, fresh Spanish mackerel, salted	901 000	11 283	3, 210 646, 914	9, 114	900 800	2,866		
Mullet, salted	114, 600	2. 202	125, 661	2,513	801 500	19,650	8,000 97,000	\$12 2,42
Alullet roe, salted	12,000	1, 200	7, 900	790	296, 500 801, 500 29, 160	2,916	4,000	4(
Pompano, fresh		}	630	32	6, 100	183		}
Sumpano, saitod	i	• • • • • • •	9, 157			· • • • • • • • • • • • • • • • • • • •	2,000	10
Panish mackerel, fresh	i		3,278	138 163	46, 670 13, 600	850 385	}	·
panish mackerel, salted					20, 000		2,300	10
Spanish mackerel, fresh Spanish mackerel, salted Dots and croakers Trout, fresh Trout, salted			1,100	18	2,900	68		
Trout, salted Whiting Wasters Sponges Turtles Alligator bides Dutter skins	,	} -	17, 995	448	194,800	3, 322		j :;
Whiting					1 300	20	12,000	48
yatora			11, 100	370	1,300 742,500	25, 144		
Ponges					5,950	5, 092		
Alligator hidos		}		····	2, 144	150		I
Otter skins	• • • • • • • • • • • • • • • • • • • •			240 18	• • • • • • • • • • • • • • • • • • • •	285		
			!	10		713]	
Total	1, 029, 200	14,779	857, 135	14, 348	2, 178, 101	62, 194	125, 300	3, 62
	Washiz	gton.	Santa	Rosa.	Escan	ibia.	Tot	al.
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Angel-fish				·····	14, 486	\$181	59, 186	\$1,69
				¦	i		18,600	620
Sarracuda	21, 250	\$425	0 795	\$175	00.000	1 000	31,000	1, 24
lue-fish at-fish	21, 230	Φ4.20	8, 725	\$110	99,000	1,980	264, 971 5, 000	6, 05'
TINITION DEAR	1,810	28	2, 100	32	3, 333	48	236, 368	3, 59
/rivalla	า กลล	29	1,100	17	14, 165	138	38, 140	49
rum lounders	403	16	325	13	734		37, 855 32, 561	622
(Unnera (17 905	178	8, 500	85	513, 350	34 5, 133	781, 155	9, 349
				 			671, 876	16, 83
				¦ .	{ <u>-</u>	· · · · · · <u>- · ·</u> ·	81. 600	8,480
urel liug-fish					7,500	75	7,500	75
	29, 268	203	1,300	13	22,655	227	440, 000 123, 223	6, 600 2, 63
	115,000 :	1,672	53,000	707	583, 100	7,775	11,639,915	125, 17
fullet, salted fullet roe, salted	426,000		• • • • • • • • • •	• • • • • • •	71,426	952	11,639,915 2,503,703 143,999	55, 880
Ompano fresh	32, 300 16, 215	3, 230 935	6, 500	890	12,000	780	143, 999	13, 310
Ompano, fresh Ompano, salted	19 200 1	600			1	,	23 225	17, 96, 1, 230
orgies							359, 151 23, 225 98, 200	2, 450
ork-fish			• • • • • • • • • • • • • • • • • • •				11,902	1, 196
Sardines "				• • • • • • •		• • • • • • • • • • • • • • • • • • • •	89, 381	3, 198
heepshead	6, 424	128	7, 145	143	37, 892	721	150,000 663,347	8,090
nappers, red	102,019	3,370	61, 555		4, 861, 113	156, 991	5, 314, 487	9, 793 171, 234
					••••	'	110, 631	3, 296 21, 757
panish mackerel, fresh panish mackerel, salted	37, 525 8, 833	1, 118	28, 333	850	40, 102	1, 203	456, 322 23, 579	21, 757
PPLB SIId Aras bars			1,300	20	19, 695	367	26, 113	1, 193 495
vurgeon			. 			- 1	9, 254	331
Pout front	729]				7, 180	223	7,909	238
rout, fresh	2,000 51,105	2,044	2, 100	74	29, 838	1,044	703, 830 63, 105	15, 148
	01, 100	2, 022			7, 689	77	9, 589	2, 524 109
					8, 560	119	73,440	6,594
	21, 083	218	814	12	57, 350	701	537, 138	24, 317
luma	21,000	910	· • · · · • · · · · · · · · · · · · · ·	• • • • • • • • •	35,000	1,500	1, 258, 008	50, 251
Onche				• • • • • • • • • • • • • • • • • • •			7, 084 500	171
							332, 856	305, 589
Posts O.			•••••·································	· · · · · · {	••••••		6, 240	208
raw-fish		•••••	•••••;	· · · · · · · · · · · · · · · · · · ·	******		157, 500	8, 150 22, 736
errapina.			• • • • • • • • • • • • • • • • • • • •		720	16	634, 616	22, 736
urtles errapina litigator hides tter akina						• • • • • • • •	11,400	1, 250 12, 450
tter akina			. 					14, 481
Total	926, 835	29, 609	182, 707	A ROE	G, 446, 888	100 005	00.055	944, 793

FISHERIES BY APPARATUS.

Vessel fisheries.—In the vessel fisheries of western Florida purse and haul seines, lines, turtle nets, sponge apparatus, and tongs were the only forms of apparatus in use. Much the largest eatch was made with lines—5,840,642 pounds, valued at \$171,229, being secured. Of the line catch 5,032,487 pounds, worth \$161,999, consisted of red snappers; the other species were groupers and king-fish.

The most valuable products were obtained by the sponge apparatus, 302,101 pounds of sponges, worth \$276,295, being secured. Oysters and turtles were taken with tongs and turtle nets, respectively; the value

of the former was \$17,144, and of the latter \$16,308.

Purse seines were used in Biscayne Bay on the eastern coast for Spanish mackerel alone, and 70,000 pounds, valued at \$7,000, were obtained.

Haul seines, which were used incidentally by several red-snapper vessels, occupy an insignificant position, as their catch was only 26,392 pounds, valued at \$555.

The total yield from all forms of apparatus was 7,221,987 pounds, valued at \$488,531.

Shore fisheries.—Gill nets are the most important means of capture in the shore or boat fisheries. With this form of apparatus 11,847,155 pounds of fish, worth \$164,971, were secured. Mullet is by far the most important fish taken, while the other prominent species were the pompano. Spanish mackerel, trout, and sheepshead.

The seine catch is less than half that of the gill nets, but has a higher proportionate value. The total is 5,956,891 pounds, worth \$115,993. The principal species taken is the mullet, as is the case with gill nets; other prominent species are Spanish mackerel, trout, and pompano, although these occupy an insignificant position as compared with the mullet.

The line fishery comes next in importance, yielding 2,081,971 pounds, valued at \$72,443. The greater part of this fishery was carried on in Mouroe County. The leading species are grunts, red snappers, and yellow-tail.

Cast nets, turtle nets, trap nets, sponge apparatus, tongs, hooks, guns, etc., are credited with taking 1,147,215 pounds, valued at \$102,855. The prominent species taken by these forms of apparatus are mullet,

oysters, sponges, alligators, and otters.

In 1897 an act was passed by the legislature prohibiting the use of "stop nets." For some years the fishermen have been in the habit of operating with this net, which is an ordinary seine or gill net, by stretching it across the mouths of small bights, creeks, and rivers along the coast and holding it in position by means of stakes driven in the bottom. This net, set at high water, when the fish had run in, would prevent them from running out again with the tide, and they could be easily caught by the fishermen at low water. This fishery was mainly for mullet. The method was very destructive, as young and old, large and small, were taken, or else left to die on the bare bottom, and the enactment of this law will doubtless greatly benefit the fisheries.

Table showing by counties and apparatus the yield of the vessel fisheries of the west coast of Florida.

						•				
Apparatus and	Mon	roe.	De	Soto.	Hill	sboro.	Le	vy.	Fı	anklin.
species.	Lbs.	Value.	Lbs.	Value	Lbs.	Value.	Lbs.	Val	ue. Lbs	. Value.
Purse seines: Spanish mackerel			70. 000	\$7,000			-			
Lines:				-	-		====) ==	= ==	= ====
Groupers King-fish	8,500 197,000	\$249 2, 955		-}	- 81, 000	\$810	· • • • • • • • • • • • • • • • • • • •] 		
Red snappers	5, 800	174			152,000	4,560				
Total	211,300	3,378		1	233,000			1		
Turtle nets:	489, 852	15, 658	المسيحات		1	-	13,000	\$6	50	=
Sponge apparatus:	1 1				7		13,000	⊅ ∪		•
Tongs:	247, 006	252, 37 7	· • • • • • • • • • • • • • • • • • • •		. 51, 645	20, 578	••••		3, 45	0 \$3,342
Oysters	(<u></u>)	<u> </u>			·,	.) <u>.</u>		l	480, 00	0 17, 144
Grand total	948, 158	271, 413	70,000	7,000	284, 645	25, 946	13,000	6	50 483, 45	0 20, 486
~========		====		 -	====	_===		<u> </u>		
Apparatus and	Wash	ington.	- 1 -	Santa I	losa.	Esc	ambia.	- 1	To	tal.
apecies.	Lbs.	Value). L	bs.	Value.	Lbs.	Valu	0.	Lbs.	Value.
Purse seines:			_						5 0.000	AT 000
Spanish mackerel		====		= =≥ ₁ =		:	: <u>::::</u> :	=:: :	70,000	\$7,000
Haul seines: Blue-fish	4, 350	\$	37		• • • • • • • •	7, 500		375	4,350	87
Jurel Lady-fish	3, 212		32		• • • • • • • • • • • • • • • • • • •	1, 500		110	7, 500 3, 212	75 32
Pompano	3,515	20	3						3, 515	203
Spanish mackerel	4,075	11	14		• • • • • • • •			::•	4,075	114
Spots Yellow-tail					• • • • • • • • • • • • • • • • • • •	2,340 1,400	` {	30 14	2, 340 1, 400	30 14
Total	15, 152	4:	36			11, 240		19	26, 392	555
Lines:		====	= -=	=== -	<u></u>		-(·		====	
Groupers	17, 805	17	78 ∤ 8	500	\$85	495, 350	4, 9	53	611, 155 197, 900	6, 275 2, 955
Red snappers	102, 019	3, 37	0 6	, 555	2, 154	4, 711, 113	151.7	41 5	5, 032, 487	161,999
Total	110, 824	3, 54	18 70	0.055	2, 230	5, 206, 403			, 840, 642	171, 229
Turtle nets:			-=		===	;` -		~= -		
Turtles	l		•••		· · · · · · · · · · · ·				502, 852	16, 308
Sponge apparatus:		1	ſ	ſ		ſ	1			1
			· • • · · · · · · · · · · · · · · · · ·	·					302, 101	276, 295
Sponge apparatus: Sponges	134, 976	3, 98), 055	· · · · · · · · · · · · · · · · · · ·	5, 217, 703	156, 8		302, 101 480, 000	276, 295 17, 144

Table showing by counties and apparatus the yield of the shore fisheries of the west coast of Florida.

	Monr	00.	Lee	٥.	De S	Soto.	Manat	.80
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines: Blue-fishChannel bass		\$250		- -			40,005	\$420 600
Crevalle				. .			15,000	23 225
Grunts Lady-fish Mullet, fresh	38, 000 70, 000	950 2, 100 225	123, 000					12, 455
Mullet, salted Mullet roe, salted			714, 233 51, 104	11, 904 4, 088	• • • • • • • • • • • • • • • • • • • •		21,000 1,800	350 146
Pompano, fresh Porgies Pork-fish	1,000	20 50		.}	· • • • • • • • • • • • • • • • • • • •		4, 888	244
"Sardines"	132,000 300	2, 640 14 367	 				23, 113	347
Spanish mackerel fresh	5,000		ĺ				8,000	320

Table showing by counties and apparatus the yield of the shore fisheries of the west coast of Florida—Continued.

	Monre	08.	Lec	э.	De So	to.	Manat	.ee.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines-Continued.							13, 425	\$207
Trout, fresh	200	\$7						
Other fish	9,800	245			• • • • • • • • • • • • • • • • • • • •			
Craw-fish	132,000	2, 640		*** 000	····	<u></u>	1 000 000	36 404
Total	424, 814	9, 941	888, 337	\$17,837	====	====	1, 398, 609	15, 464
Gill nots:		}	0.000	35		1	[(
Angel-fish		}	2,000 13,500	270	33, 582	\$672	24, 000	480
Blue-fish			21,000	315	4,800	72	35, 615	534
Crevalle			}	ļ			6, 594	99
Flounders	•••••	<i></i>	<i></i>	¦••••			12,000 6,000	120
Grupts	33, 500	1,005	88, 100	1,822	2, 362, 080	23, 621	2, 419, 021	24, 190
Mullet, salted			31, 211	624			10,000	167
Mullet roe, salted		· • • • • • • • • • • • • • • • • • • •	800	756	58, 240	2,330	875 71, 222	3, 581
Pompano, fresh			12,600 7,425	446	36, 240	2,550		
Pompano, salted Sailor's choice			2, 100	32	2,000	40	15, 102 58, 100	226
Sheepshead		. 	73, 142	1,007	100,000	1,500	58, 100	872
Snappers, gray, etc	· · · · · · · · · · · ·	[1,000 2,000	15 80	137,720	5,509	11,000 21,716	165 869
Spanish mackerel, fresh Spanish mackerel, salt.			3, 500	245	201,120			
Trout, fresh			24, 333	487	5, 453	119	104,000	2,080
Total	33, 500	1,005	282, 711	5, 788	2, 708, 875	33, 863	2, 795, 245	33, 617
Cast nets:			- 					
Mullet, fresh	7, 100	213	i	••••			{- 	
Mullet, salted	750 100	15 10			• • • • • • • • • • • • • • • • • • • •			
Mullet roe, salted Sardines	18,000	450						
Total	25, 950	688						
Turtle neta:	\ 					<u> </u>	\ 	
Turtles	56, 900	2, 112				l. , <u>.</u> .		l <u></u>
Lines:)====		\ -	1	ı=	
Amher-flah	18, 600	620		[\		ļ
Angel-fish	22,000 31,000	1,038 1,240	}		•••••		j	'•••••
Barracuda Blue-fish	8,000	687				· <i>·</i> ·····		١
Flourders	155	16		¦ -			¦	ļ
Groupers	81,000	1,890	\ 	\			``·····	}
Grunts	573, 000 74, 750	14, 525 3, 185		i			i	
King-fish	243, 000	3,645						
Porgies	91, 800	2, 295		[[[¦
Pork-fish	9, 462 19, 066	946 1,907						
Sailor's choice Snappers, red	1,000	l 30						
Snappers, other	1 37, 070	1,610		 			ļ	····
'Spanish mackerel	12,000 59,133	400 5, 913	 	}		}		
Yellow-tail	427, 721	22, 186		l	[<u> </u>
Total	1, 708, 757	62, 113						
Miscellaneous:		(
Angel-fish	5, 600 12, 000	242	J				- 	
Groupers	12,000	280		 	}	}		}
Grunts	31,000 6,850	775 295			• • • • • • • • • • • • • • • • • • •			
Porgies	5,400	135		}				
Porgies Pork-fish	2,000	200		(<i></i>	(· •	{	
Sailor's choice	1, 113 11, 264	113 489						
Snappers, gray, etc Yellow-tail	0,547	555	\ <u></u>	<u> </u>		\		
Other fish	15, 960	873						
Sponges	23, 900 6, 240	24,820	·····					
Crabs Craw-fish	25, 500	510						
Clams	900	86	}]. 				
Conche	500	80	·····	[67, 128	2,797	1, 280	75
Oysters				8, 400	01, 120	525	1	ļ
Otter skins				10,000	<u> </u>	1,750	\ <u></u>	
Total	153, 774	29, 511		18, 400	67, 128	5, 072	1, 280	78
Grand total	2, 403, 695	105, 370	1, 171, 048	42, 025	2, 771, 003	38, 935	4, 195, 134	49, 160
	li		l		·	1	!	

Table showing by counties and apparatus the yield of the shore fisheries of the west coast of Florida—Continued.

	Hillsbo	ro.	Herna	ndo.	Citru	18.	Lev	7.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines:]	Í				
Channel bass	15, 203	\$228						• • • • • • • •
Crevalle	4, 515	68		•••••		•••••		
Drum	13,000	200		•••••		• • • • • • • •		
Flourders	6,000	90	•••••			• • • • • • • • • • • • • • • • • • • •		
Mullet, fresh	92, 266 9, 667	830 106		•••••		•••••		
Mullet, salted	1,000	100		•••••				
Mullet roe, salted Sailor's choice	2,000	80						
Sheepshead	25, 635	430						
Spanners grav. etc	5, 100	102		• • • • • • • •				
Trout, fresh	11,666	234						
Other fish	8,000	45		• • • • • • • •	•••••	• • • • • • • •		
Total	189, 052	2, 469						
Gill nets:				===	=====			
Angel-fish	15, 100	200				<i></i>]. 	
Blue-fish	81, 114	673					1,800	\$45
Channel bass	81, 114 46, 104	742	1,500	\$23			8,640	55
Crevalle	8,000	120			[[<u>.</u>	····
Drum		•••••					9,855	197
Flounders	12,444 17,333 1,652,365	187	[• • • • • • •				
Grunts	17, 333	847	******	• • • • • • • •		• • • • • • • • • • • • • • • • • • • •	625, 000	6. 250
Mullet, fresh	1, 652, 365	15,882	128,000	1,800	74, 110	\$741	18, 200	223
Mullet, salted	35, 455	423 84	8,000 120	81 12	•••••		10, 200	1 200
Mullet roc, salted	840 170,756	8,753	120	1.5				
Pompano, fresh	22,000	330					26,000	520
Sailor's choice Sheepshead	113, 360	1,698	6, 213	93	22, 200	834	119,782	1, 198
Snappers, gray, etc	17, 333	260	1,000	20	6, 333	127	9,531	191
Spanish mackerel, fresh	75, 834	8,630			 		1,214	61
Spanish mackerel,	,	.,		(l		i .	i i
salted		 			8,946	447		
Spots and croakers							1,109	22
Sturgeon				} <u></u> .			9, 254	381
Trout, fresh	98, 554	2,077	83, 666	673	12,000	270	140,000 600	8,563 12
Sturgeon. Trout, fresh. Whiting. Other fish.						·····	810	12
Other fish	1, 100	83		• • • • • • • •	********	····	010	
Total	2, 317, 692	85, 439	173, 499	2, 152	123, 589	1, 919	986, 295	12, 674
-		===	:					
Cast nots:		٠	Î	ľ	1	ì	į.	}
Mullet, fresh	84,000	840				ļ		1
Turtle nets: Turtles	ĺ	Í	ì	1		l	72,000	4, 150
- ur (108								
Lines:	1		1	1	i		ł	1
Groupers	46,000	460						
Sheepshead				·			11, 114	168
Snappers, red	123,500	8,730					7,500	225
Total	169, 500	4, 190					18, 614	898
Missell								1
Miscellaneous:	4, 355	2,724	1	1	I	Į.	1	
Sponges	4,000	2,124					8. 184	139
Oysters	818,500	17, 219	1		7, 000	199	6, 184 59, 500	2,040
Terrapins		2.,210					31,400	1, 250
Alligator hides		8,000				·	.	
Otter skins		2,000	1	Į. .	.]		.]	.]
		·	-		·		No. 001	0.40
Total	817, 855	24, 943			7,000	199	77, 084	8, 420
Grand total	8, 028, 099	67, 881	173, 499	2, 152	180, 589	2, 118	1, 133, 993	20, 64

Table showing by counties and apparatus the yield of the shore fisheries of the west coast of Florida—Continued.

	Lafay	ette.	Tayl	lor.	Wak	ulla.	Frank	lin.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines:					8, 443	\$127	26, 977	\$405
Channel bass		• • • • • • •		· <i></i>	500	9 214		
Mullet, fresh					51,500 49,245	773	143, 500 616, 500	1,436 15,330
Mullet, salted					1,800	985 180	616,500 20,660	2, 066
Mullet roe, salted					1, 800	100	5,000	150
Pompano, fresh Sheepshead	l				1,902	29	21,845	402
Spanish mackerel, fresh				. - 			11,000	275
Spots and croakers				·	1, 109 7, 595	18 191	2, 200 158, 000	33 2, 745
Trout, fresh					1,000		1,300	20
					700.004		\	22, 862
Total					122, 094	2, 312	1,006,482	22, 802
Gill nets:		l	1,600	\$24	21, 238	319	8,000	45
Channel bass			l .	.	3, 210 595, 414 76 416	49		
Mullet, fresh	143,000	\$1,430	901,000	11, 263 2, 292	595, 414	8,341	153,000 185,000	1,430
Mullet salted	24,000	360	114, 600 12, 000	2, 292	1 10,410	1,528 610	185,000	4, 320 850
Mullet roe, salted Pompano, fresh	2,000	200	12,000	1, 200	6, 100 630	32	8, 500 1, 100	33
Sheepshead	3, 100	62			7, 255	109	1, 100 13, 225	231
Spanishmackerel, fresh					3, 278	163	2,600	110
Spots and croakers				• ······	10,400	257	700 36, 800	35 577
Trout, fresh	14,000	420						
Total	186, 100	2,472	1,029,200	14, 779	723, 941	11,408	403, 925	7,631
Turtle nets:		ļ	Į	l			2, 144	150
Turtles		====						====
Lines:	ł	ļ	\	!	i	1	E 000	100
Cat-fish				•			5, 000 12, 100	217
Sheepshead							<u>-</u>	!
Total		- <i></i>		·			17, 100	317
Miscellaneous:								
Sponges	\ 	\		· ····			2, 500	1,750
Ovsters				• • • • • • •	11, 100	870	262, 500	8,000 285
Alligator hides Otter skins						240 18		713
		i——		-	11 100	628	265, 000	10,748
Total	====	======		===	11, 100			
Grand total	186, 100	2, 472	1, 029, 200	14,779	857, 135	14, 348	1, 694, 651	41,708
	Call	oun.	Washir	gton.	Santa l	Rosa.	Escam	bia.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
		V 4140.		- arut.				
Seines:	1	1	}				44-	
Angel-fishBlue-fish		}					14, 486 99, 000	\$181 1,980
Blue-fish	·-[·····	16,900 1,310	\$338 20	8, 725 2, 100	\$175 32	8, 338	1,900
Crevalle			2, 266	29	1,100	17	14, 165	138
Flounders		ļ	403	16	825	18	734	l 34
Lady-fish		\$ 120	26,056	261 1,672	1, 300 53, 000	13 707	22, 655 583, 100	227 7, 775
Mullet, fresh	8,000 97,000	2, 425	115,000 414,000	13.455	50,000			
Mullet roe, salted	4,000	400	31,000 12,700	3, 100 732	[<u>.</u>			<u></u>
Mullet roe, salted Pompano, fresh		100	12,700	732 690	6, 500	390	12,000	780
Pompano, salted Sheepshead	2,000	100	13, 800 6, 424	128	7, 145	143	37,892	721
Spanish mackerel, fresh			6, 424 32, 700	981	28, 333	850	30, 000	900
Spanish mackerel, salte	d. 2,300	104	8,833	397	1 200	20		337
Spots and croakers Sun-fishes		· · · · · · · ·	729	15	1, 300	20	17, 355 7, 180	223
Trout fresh			2,000	70	2, 100	74	21, 438	750
Trout salted	12,000	480	48,000	1,920				
whiting		}		- <i>-</i>	••••••		7, 689 7, 160	105
Yellow-tail Other fish		l	21,088	216	814	12	7, 160 57, 850	701
Turtles			,				720	16
	105 200	9 000	752 004	94 040	119 749	9 448	936, 257	14, 993
Total	125, 300	3, 629	753, 204	24, 040	112, 742	2, 446	000, 201	14, 883

Table showing by counties and apparatus the yield of the shore fisheries of the west coast of Florida—Continued.

	Calhoun.		Washin	gton.	Santa :	Rosa.	Escamb	ia.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Gill nots: Channel bass Mullet, salted			500 12, 000	\$8 390			71, 426	\$ 952
Mullet roe, salted Spanish mackerel, fresh Trout, fresh			1, 300 750	130 23			10, 102 8, 400	803 294
Trout, salted				124 675			89, 928	1,549
Lines: Groupers				 <u></u>		<u> </u>	18, 000 150, 000	180 5, 2 50
Total		====		<u> </u>	====	 	168, 000	5, 430
Oysters	125, 300	\$3, 629	791,859	25, 625	112, 742	\$2,446	35, 000	1, 500 23, 472

SUMMARY.

Seines	Apparatus and species.	Lbs.	Value.	Apparatus and species.	Lbs.	Value.
Angel-fish	Seines:					4850
Blue-field 148, 627 1,400 140 17	Angel-fish			Mullet, fresh		
Channel bass	Blue-fish			Mullet, salted		
Drum	Channel bass			Mullet roe, saited		
Flounders. 7, 962 162 Total. 59, 950 1,028 Groupers. 41, 333 1,017 Turtles nets: Turtles n				Surumos	10,000	
Groupers	Drum			Total	59, 950	1,028
Gruts 41,333 1,017 Turtle nets 131,044 6,412 Lady-fish 190,011 2,403,925 27,844 Mullet, fresh 1,921,645 44,555 Mullet roe, salted 111,304 10,080 Mullet roe, salted 111,304 10,080 Mullet roe, salted 111,304 10,080 Fompano, fresh 15,800 790 Barracuda 31,000 1,200 Barracuda 31,000 1,000 Barracuda 31,000 100 Flounders					===	
Lady-fish	Croupers			Turtle nets:		
Mullet, fresh 2, 423, 925 27, 844 44, 555 Lines: 18, 800 620 Mulletroe, salted 111, 364 10, 980 Amber fish 12, 900 1, 938 Pompano, fresh 41, 088 2, 206 Amber fish 22, 000 1, 938 Pompano, salted 15, 800 790 Barracuda 31, 000 1, 240 Pork fish 500 50 Cat-fish 5, 000 667 Pork fish 2, 000 30 Flounders 155 16 Sardines' 132, 000 2, 400 Grouper 145, 600 2, 530 Shepshead 123, 756 2, 214 Grunts 573, 000 14, 625 Spanish mackerel, fresh 115, 033 3, 495 Hog-fish 74, 750 3, 185 Spanish mackerel, asted 11, 133 401 Portless 9, 180 2, 235 Spanish mackerel, resh 12, 024 438 Fortless 9, 180 2, 235 Tout, fresh 216, 224 4, 331 401			2, 601	Turtles	131, 044	6, 412
Mullet. salted 1, 921, 645 44, 555 Lines 18, 600 620 Mulletroe, salted 111, 364 10, 080 Amber-fish 12, 200 1, 308 Pompano, fresh 41, 088 2, 206 Angel-fish 22, 200 1, 308 Pompano, alted 15, 800 790 Barracuda 31, 000 1, 200 Pork-fish 500 50 Cat-fish 5, 000 100 Sallor's choice 2, 000 30 Flounders 155 16 Sheepshead 122, 705 2, 214 Groupers 145, 000 2, 53 Spanish mackerel, fresh 115, 033 3, 405 King-fish 243, 000 3, 465 Spots and croakers 21, 964 408 King-fish 243, 000 3, 465 Trout, fresh 21, 200 2, 400 Sailor's choice 19, 066 1, 907 Spanish mackerel, alted 60, 000 2, 408 King-fish 23, 214 86 Spots and croakers 21, 964 408 Pork-fish	Mullet, fresh			i		
Mulletroe, salted	Mullet, salted				10 800	200
Pompano, salted	Mullet roe, salted			Amberdish		
Foreign	Pompano, fresh			Angel·nsh		1,000
Pork fish 2,000 50	Pompano, salted					
Sailor's choice	Porgies			Cat Aah		
Sandire Scioles 122,000 2,040 Groupers 145,000 2,530 Sheepshead 123,756 2,214 Grunts 74,750 3,185 Spanish mackerel, fresh 115,033 3,495 King-fish 243,000 3,045 Spanish mackerel, alted 11,133 501 Forgles 91,800 2,295 Spanish mackerel, alted 11,133 501 Forgles 91,800 2,295 Spanish mackerel 21,064 408 Forgles 91,800 2,295 Spanish mackerel 11,133 501 Forgles 91,800 2,295 Spanish mackerel 12,064 408 Forgles 91,800 2,295 Spanish mackerel 12,000 2,295 Spanish mackerel 12,000 2,295 Spanish mackerel 12,000 2,295 Spanish mackerel 12,000 400 Yellow-tail 7,300 112 Spanish mackerel 12,000 400 Yellow-tail 59,133 5,918 Craw-fish 720 16 Total 5,968 891 115,993 Total 2,981,971 72,443 Total 13,900 2,960 Total 2,981,971 72,443 Total 2,981,971 72,981,971 72,981,971 72,981,971 72,981,971 72	Pork-fish			Flounders		
Sheepshead 123,750 2,214 Grunts 573,000 14,625 Sheepshead 123,750 469 Hog.fish 74,750 3,185 Spanish mackerol, fresh 115,003 3,495 King.fish 243,000 3,045 Spanish mackerol, salted 11,133 501 Porgles 91,800 2,295 Spanish mackerol, salted 10,004 408 Spots and croakers 7,900 238 Sailor's choice 19,006 1,907 37,007 1,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,007 37,00	Sailor's choice			Groupers		2, 530
Spapers gray, etc. 10, 100 403 403 King.fish 243,000 3, 645 Spanish mackerel, fresh 115,033 3,495 Forgles 91,800 2,295 Spanish mackerel, salted 11,133 501 Forgles 91,800 2,295 Spanish mackerel, salted 11,133 501 Forgles 91,800 2,295 Spanish mackerel 21,064 408 Fork.fish 9,402 946 Spots and croakers 7,800 238 Sailor's choice 19,006 1,907 237 1701, fresh 216,224 4,331 Sheepshead 228,200 9,235 Trout, salted 60,000 2,400 Snappers, red 228,200 9,235 Snappers, etc. 37,070 1,610 Yellow-tall 7,360 112 Spanish mackerel 12,000 400 Other fish 92,047 1,219 Yellow-tall 59,133 5,913 Other fish 247,721 22,186 Trutles 720 16 Trutles 720 16 Total 2,081,971 72,443 Total 5,956,891 115,993 Total 2,081,971 72,443 Total 2,081,97	Shamphand					
Spanish mackerel, salted 115.033 3,495 King.fish 243,000 2,295 Spanish mackerel, salted 11,133 501 Portles 91,800 2,295 Spots and croakers 21,064 408 Pork.fish 9,462 946 Sun.fishes 7,999 238 Sailor's choice 19,066 1,907 Trout, fresh 216,224 4,331 Sheepshead 23,214 385 Trout, salted 60,000 2,400 Snappers, red 282,000 9,235 Vhiting 7,300 112 Spanish mackerel 12,000 400 Other fish 92,047 1,219 Yellow-tail 59,133 5,913 Craw-fish 132,000 2,640 Other fish 427,721 22,186 Turtles 720 16 Total 2,001,471 72,443 Total 5,956,891 115,993 Total 2,001,471 72,443 Total 5,956,891 115,993 Total 2,000 240 Groupers 12,000 240 Groupe	Spermore gray etc				74, 750	
Spanish mackerel, salted	Spanish mackerel fresh.			King-fish	243,000	
Spots and croakers 21,904 408 Sun-fishes 7,909 238 Sallor's choice 19,066 1,907 Sun-fishes 216,224 4,331 Sheepshead 23,214 385 Sheepshead 24,200 4	Spanish mackerel, salted.		501	Porgles		
Sun fishes	Spots and croakers	21, 964				
Trout, fresh	Sun fishes	7, 909				
Trout, salted 60,000 2,400 Whiting 8,989 97 Snappers, reft. 22,000 400 Vellow-tail 92,047 1,219 Vellow-tail 59,133 5,913 Craw-fish 132,000 2,640 Other fish 427,721 22,186 Turtles 720 16 Total 2,081,971 72,443			4, 331	Sheepshead		
Walting	Trout, salted			Spappers, red		
Vellow-tail	Whiting			Snappers, other		
Craw-fish 132, 000 2, 640 Total 2, 081, 971 72, 443	Yellow-tail			Vollem toil		
Total	Other fish	122,047	2 640			
Total 5,956,891 115,993	Craw-fish	720		Omer nen		
Cill nets:	Turtles			Total	2, 081, 971	72, 443
Angel fish. 17, 100 235 Angel-fish 5, 600 242 Blue-fish 103, 996 2, 140 Groupers 12, 000 280 Channel bass. 138, 097 2, 137 Grunts 31, 000 775 Crevalle. 14, 504 219 Hog-fish 6, 850 295 Flounders 24, 444 371 Hog-fish 2, 000 200 200 Flounders 24, 444 371 Fork-fish 2, 000 200 200 Flounders 25, 444 371 Fork-fish 2, 000 200 200 Flounders 25, 444 371 Fork-fish 2, 000 200 200 Fork-fish 2, 000 200 200 Fork-fis				341 11		
Blue-fish 103,996 2,140 Groupers 12,000 280 Channel bass 138,997 2,137 Grunts 31,000 775 Crovalle 14,594 219 Hog-fish 6,850 295 Drum 9,855 197 Porgies 5,400 135 Flounders 24,444 371 Fork-fish 2,000 200 Grunts 24,444 371 Fork-fish 2,000 200 Grunts 371 Fork-fish 2,000 200 200 Grunts 371 Fork-fish 2,000 200 200 Grunts 371 Fork-fish 2,000 200 200 Mullet, fresh 96,745 516 Sailor's choice 1,113 113 113 Mullet, fresh 314,548 516 Sailor's choice 1,113 113 113 Mullet, fresh 314,548 516 Sailor's choice 1,113 113 113 Mullet, fresh 314,548 51,465 Sponges 30,755 29,294 400 Formano, salted 7,425 446 Crabs 6,240 208 Sailor's choice 67,202 1,148 Crabs 6,240 208 Sailor's choice 67,202 1,148 Crabs 6,240 208 Sailor's choice 516,377 7,194 Clams 7,084 171 Snappers, gray, eto 40,107 778 Conchs 500 30 Spois and croakers 1,809 57 Alligator hides 778,008 33,114 Spanish mackerel, fresh 255,214 10,817 Trout, fresh 487,606 10,81	Gill nets:	17 100	935		5 800	242
Channel bass	Angel tish			Crouners		
Crovalle 14,594 219 Hog.fish 6,850 295 Drum 9,855 197 Porgies 5,400 135 Flounders 24,444 371 Pork-fish 2,000 200 Grants 25,543 516 Sallor's choice 1,113 113 Mullet, fresh 9,174,500 96,75 Snappers, gray, eto 11,284 439 Mullet, salted 581,308 11,310 Yellow-tail 5,547 555 Mullet roe, salted 32,535 3,220 Other fish 15,667 557 Mullet roe, salted 7,458 15,465 Sponges 30,755 29,294 Pompano, fresh 7,458 446 Crabs 6,240 208 Sailor's choice 67,202 1,148 Craw-fish 25,500 610 Sheepsbead 516,377 7,194 Clams 7,094 171 Snappers, gray, etc 40,107 778 Concha 500 30 Spanish mackerel	Channel bear		2, 137		31,000	
Drum 9,855 197 Porgies 5,400 135 Flounders 24,444 371 Pork fish 2,000 200 Grants 26,543 516 Sailor's choice 1,113 113 Mullet, fresh 9,174,590 96,775 Snappers, gray, etc 11,264 439 Mullet, salted 681,308 11,310 Yellow-tail 5,547 555 Mullet roe, salted 32,535 3,220 Other fish 15,600 873 Pompano, fresh 314,548 15,465 Sponges 30,755 29,294 Pompano, salted 7,425 446 Crabs 6,240 208 Salter's choice 67,202 1,148 Craw-fish 25,500 610 Shoepshead 516,377 7,194 Clams 7,084 171 Snappers, gray, etc 40,107 778 Conchs 500 30 Spanish mackerel, fresh 255,214 10,747 778 Oysters 778,008 33, 114	Crowello		219	Hog-fish		
Flounders	Drum		197	Porgios	5,400	135
Grants				Pork-fish	2,000	
Mullet, fresh 9,174,500 96,77s Snappers, gray, etc 11,204 439 Mullet, salted 581,308 11,310 Yellow-tail 5,547 555 Mullet roe, salted 32,535 3,220 Other fish 15,660 873 Pompano, fresh 314,548 15,465 Sponges 30,755 29,294 Pompano, salted 7,425 446 Crabs 6,240 298 Sailor's choice 67,202 1,148 Craw-fish 25,500 610 Sheepshead 516,377 7,194 Clams 7,084 171 Snappers, gray, etc 40,197 778 Conchs 500 30 Spanish mackerel, fresh 255, 214 10,748 Oysters 778,008 33,114 Spots and croakers 1,809 57 Alligator hides 12,450 Sturgeon 9,254 331 Otter skins 14,481 Trout, fresh 467,606 10,817 Total 950,221 95,415 Whitin				Sailor's choice		
Mullet_salted		9, 174, 590		Snappers, gray, etc		
Pompano, fresh	Mullet, salted	581, 308	11,310	Yellow-tail		
Pompano, salted 67, 202			3, 220	Other nah		
Sailor's choice				Sponges	30, 700	
Sheepshead	Pompano, salted	7, 425		Crabs	25 500	
Snappers, gray, etc 40, 197 778 Concha 500 30 Spanish mackerel, fresh 255, 214 10, 748 Oystora 778, 008 33, 114 Spanish mackerel, salted 12, 446 692 Terrapin 11, 400 1, 250 Spots and croakers 1, 809 57 Alligator hides 12, 450 Sturgeon 9, 254 331 Ottor skins 14, 481 Trout, fresh 487, 608 10, 817 Trout, fresh 3, 105 124 Total 950, 221 95, 415 Whiting 600 12 Other fish 1, 410 39 Grand total 21, 033, 232 456, 262			7 104			
Spanish mackerel, fresh 255, 214 10, 748 Oystors 778, 008 33, 114			778			
Spanish mackerel, salted 12, 446 692 Terrapin 11, 400 1, 250	Shuppers, gray, eto					
Spots and croakers 1, 809 57 Alligator hides 12, 450	Spanish mackerel, itesii					
Sturgeon 9, 254 331 Otter skins 14, 461 Trout, fresh 487, 606 10, 817 Trout, saled 956, 221 95, 415 Whiting 124 Total 956, 221 95, 415 Other fish 1, 410 39 Grand total 21, 033, 232 456, 262	Snote and crookers		57	Alligator hides		
Trout, fresh 487, 606 10, 817 Trout, saled 3, 105 124 Whiting 600 12 Other fish 1, 410 39 Grand total 21, 033, 232 456, 262		1		Otter skins		14, 481
Trout. saled 3, 105 124 Total 950, 221 95, 415 Whiting 1, 410 39 Grand total 21, 033, 232 456, 262	Trout fresh			ll	ļ	<u> </u>
Whiting 600 12 12 1,410 39 Grand total 21,033,232 456,262	Trout, saled	3, 105	124	Total	956, 221	95, 415
Other fish	Whiting	600		il		
Total		1,410		Grand total	21, 033, 232	456, 262
	Total	11,847,155	164, 971	ll	<u> </u>	<u> </u>

NOTES ON CERTAIN FISHERIES.

The sturgeon fishery.—Sturgeon are quite numerous in nearly all rivers on the west coast of Fiorida north of Cedar Key during their regular season, but very little attention has been given to their capture. In 1896 a fishery was started on the Suwanee River and a few were secured, and it is likely that the fishery will be carried on more extensively here-No caviar was put up during this first season.

The mullet fishery.—So far as the number of persons employed, quantity and value of apparatus used, and quantity of catch are concerned. this is the most important fishery in the State. Mullet have appeared along the shores in such abundance each year that the fishermen have thought the supply inexhaustible until within the last year or two. In 1897 a law was passed forbidding the catching of any fish from June 15 to August 15, and of mullet alone from November 15 to December 31, except with cast nets and hook and line. The existence of this law explains part of the decrease that has taken place, as it went into effect in 1897 and thus shortened the fishing season.

The main cause of the decrease lies further back than this, however. Prior to 1896 a large business in salted mullet was carried on with Cuba, but this trade was practically abandoned in 1896, owing to the high tariff imposed on imported fish as a consequence of the revolu-Previous to this time the salt fish trade with Cuba had tion in Cuba. Now that conditions in Cuba been virtually controlled by Americans. are more favorable, this trade will probably revive and prove a boon to the Florida fishermen.

There was formerly a great deal of waste in the handling of fresh mullet, owing to the softening of the fish during transportation from the camps to the shipping centers. As the camps are scattered many miles up and down the coast, and sailing vessels are generally used, when head winds are encountered the whole cargo might be lost, as the fish were merely stowed in the hold in bulk with a little cracked ice thrown on them. Nearly all of the transporters are now fitted with refrigerators, in which the fish are stored, and brought to market with very little loss, even though the vessels should be detained.

An important feature of the mullet fishery is the large number of transporters used in it. In 1897 there were employed 27 vessels, with an aggregate tonnage of 255.95, which were valued, with their outfits, These were manned by 58 men. at \$44,268.

The following table shows the catch of mullet for six different years:

	1879.	1880.	1889.	1890.	1895.	1897.
Mullet, fresh			Lbs. 8,794,586 2,728,785 4,500 244,080 11,771,951	Lbs. 10, 650, 959 2, 968, 254 3, 200 298, 549 13, 920, 962	Lbs. 12, 310, 953 5, 714, 134 299, 061 18, 324, 148	Lbs. 11, 639, 615 2, 503, 703 143, 999 14, 287, 317

The red-snapper fishery.—Pensacola is the center of this fishery, but it is also prosecuted incidentally from Key West, Tampa, St. Petersburg, and Cedar Key. The catch landed at Pensacola is greater than at all other points in the United States combined. While there has been a decrease since 1895 in the number of vessels engaged, the total catch has increased, as well as the average catch per man and per vessel.

Table showing the number of vessels, tonnage, and men employed in the red-snapper fishery.

Year.	No. of vessels.		No. of men.	Yoar.	No. of vessels.	Tonnage.	No. of men.
1875. 1876. 1877. 1878. 1879. 1880. 1881.	11 13 11 10 11 14 21 26	328, 22 376, 95 323, 47 297, 10 282, 12 302, 11 458, 03 732, 39	60 71 57 54 60 71 108 150	1883. 1884. 1885. 1880. 1890. 1890. 1897.	24 25 27 33 35 34 42 36	662. 91 577. 96 751. 56 1,149. 10 980. 25 973. 65 1, 209. 62 1, 060. 68	133 140 163 231 218 218 280 235

Catch of red snappers by vessels and by boats.

	1895.		189	7.
	Lbs.	Value.	Lbs.	Value.
Caught by vessels	4, 587, 715 195, 815	\$144, 855 6, 959	4, 874, 687 150, 000	\$157, 265 5, 250
		151, 814	5, 024, 687	162, 515

Comparative summary of the Pensacola red-snapper catch.

		Average catch.		
Year.	Lbs.	Per vessel.	Per man.	
1880 1884 1889 1890 1890 1895	3, 554, 178 4, 144, 842 4, 587, 715	101, 548 121, 907 109, 231	20, 423 17, 008 16, 304 19, 013 16, 385 20, 743	

The principal snapper banks of the Gulf lie between Mobile Bay and Cedar Key. They are fished during the warmer months; the rest of the time the vessels go to the Campeche Banks off the Yucatan coast. There is no apparent diminution in the abundance of the fish on these banks. Groupers are also taken in this fishery, being found on the banks in company with the red snappers; but the fishermen do not seek them especially, as they bring a very low price.

Several New Orleans vessels land their catch at Pensacola when they are fishing in the eastern part of the Gulf, whence it is sent to their home port.

The sponge fishery.—This fishery, which is not operated elsewhere in the United States, is of great importance to Florida. Next to the manufacture of cigars, it is the leading industry of Key West. It is prosecuted from Key West, Tarpon Springs, and Apalachicola. The sponges are landed principally at Key West and Tarpon Springs, although a few were sold last season at St. Marks and Apalachicola. They are purchased at auction by buyers for firms in the Northern States, who prepare them for market at their warehouses in the three places named.

The following table shows the catch for five years by vessels hailing from the above-named ports:

701	18	380.	18	1889.		1890.		1895.		1897.	
Place.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	
Key West Tarpon Springs . Cedar Key			952	\$367, 954 965	4, 160	5,000	280, 372 16, 344 2, 048	\$344, 015 27, 168 3, 707	270, 906 56, 000	\$277, 197 23, 300	
St. Marks Apalachicola			990 7, 022	990 11, 178	840 3,505	5, 667	7, 356	11,981	5, 950	5, 092	
Total	207, 000	\$200, 750	316, 559	381, 087	366, 772	438, 682	306, 120	386, 871	332, 856	305, 589	

The fishery has varied considerably during the past eight years, especially as regards the prices realized. While the catch of 1897 was larger than that for 1895, the value for the latter year is \$81,282 more, the sponges taken in 1897 being of a poorer quality than in 1895.

In 1895 the sponge fleet consisted of 119 vessels and 200 boats. In 1897 102 vessels and 184 boats were engaged. The decrease is attributable to the poor season of 1896 and to the hurricane of September 29 of that year, which sank a number of vessels and seriously damaged others.

According to the reports of fishermen and others interested in the business, the sponges are decreasing in number, while inferior grades are now being secured. Formerly most of the sponges were taken in 10 feet depth of water, while now some of the sponging operations are conducted in water as deep as 45 feet, which is about the limit at which the fishery can be successfully prosecuted under the methods which now prevail.

Artificial propagation has been urged for some time by the most farsighted fishermen and dealers, but the lack of suitable laws permitting the ownership of land for this purpose has heretofore prevented. In 1897 such a law was passed, allowing "any person or persons owning lands bordering upon the waters of the State to propagate and grow sponges in the waters in front of such lands to a depth not exceeding 1 fathom at low tide, and they shall have the exclusive right to sponge or propagate and grow sponges within such limits." It is quite certain that good will result from the adoption of this law if the growers are properly protected. The oyster fishery.—There are extensive natural oyster deposits on the west coast of Florida, the most important of which are in De Soto, Hillsboro, Levy, Franklin, Washington, and Escambia counties. Ever since 1890 the oyster industry has been on the decline. In that year 2,597,567 pounds, valued at \$93,692, were secured, while in 1897 only 1,258,008 pounds, valued at \$50,258, were taken. Excessive tonging is responsible for a part of the decrease, and much damage is attributed to the severe storms which visit this coast, and to severe frosts when the beds were exposed at low water. The beds suffer little, if any, from the Principal enemies of the oyster in other regions—starfishes and borers.

The greatest decrease is in Franklin County, where the catch fell off 785,782 pounds.

In 1890 there were 2 oyster canneries in operation in this section, both in Franklin County; and they were still operating in 1897. Owing to the scarcity of pysters, it is customary for the larger of these canneries to shut down every other year, the output of both being controlled by one firm. Since this investigation was made a cannery has been started in Hillsboro County.

The decrease in the productiveness of the natural beds has led to the institution of oyster-culture, especially in Hillsboro Bay, Manatee River, at Cedar Key, and in Escambia and East bays, but oyster cultivation has not been generally taken up, and public sentiment is not yet sufficiently in favor of it to secure planted beds from poaching.

The turtle fishery.—Among the most valuable of the fishery products of Florida is the turtle, of which there are three species, the green, the loggerhead, and the hawksbill. In 1890 this fishery was prosecuted in 8 counties, while in 1897 it was carried on only in Monroe, Levy, Franklin, and Escambia counties. The total catch in 1897 was 634,616 pounds, valued at \$22,736, and of this 546,752 pounds, worth \$17,770, were taken in Monroe County. Monroe and Levy counties are the only ones that employ vessels in this fishery.

Turtles are gradually becoming scarce in Florida. Monroe County is the only one that shows an increase over the 1890 figures. In that year 297,157 pounds, valued at \$15,866, were taken in this county, while in 1897 the catch was 546,752 pounds, worth \$17,770. The greater part of this increase is due to the capture of turtles along the Yucatan coast by vessels trading in that region. These vessels carry turtle nets and use them whenever possible. They also buy turtles from Yucatan people, but these are not shown in the statistical tables.

In a number of counties where turtles were formerly quite common none are taken now. This is largely owing to the fact that turtle eggs have been eagerly sought for. The turtle should be protected during the breeding season, and the eggs should never be taken.

Very little use is made of turtles other than in the fresh state. A Key West firm began the preparation of green turtle soup in 1896 and has been very successful.

An idea of the extent of the turtle industry of Florida in past y	ears
can be gained from a glance at the following table:	

Counties.	1880.	1889.	1890.	1895.	1897.
Mouroe	Lbs.	Lbs. 291, 695	Lbs. 297, 157	Lbs. 410, 142	Lbs. 546, 752
Lee De Soto		3,500	3,000 4,000	4, 375	040, 102
Mяпаtee Hillsboro	 ,	60, 665 11, 735	60, 665 12, 004		
Levy Franklin	. .	70, 705	89, 958	107, 610 3, 850	85, 000 2, 144
WashingtonSanta Rosa	• • • • • • • • • • • • • • • • • • • •	100 740			
Escambia	·····	740	2, 250		
Total	180,000	439, 880	476, 034	530, 977	634, 616

FISHERIES OF ALABAMA.

Alabama has a much shorter coast line than any other State in the Gulf region. The more extensive and valuable section of the coast of the State consists of the shores of Mobile Bay and Mississippi Sound. Mobile Bay extends inland for a distance of about 40 miles, and is the only important indentation. The Mobile River, a large stream formed by the junction of the Alabama and Tombigbee rivers, flows into its headwaters. Mississippi Sound extends along the shore of Alabama west of Mobile Bay, the two bodies of water being connected by Grant Pass.

The two counties of the State which reach the coast and are interested in fisheries are Mobile County on the west and Baldwin County on the east of Mobile Bay. The city of Mobile, located on the west side of the bay in Mobile County, is the principal fishing and trade center. There are several small settlements in both counties which are to some extent fishing localities, the most important being Mon Louis Island, Dauphin Island, Coden, and Bayou Labatre, in Mobile County; Bromley, Daphne, Point Clear, Fish River, Magnolia Springs, Bonsecour, and Shell Banks, in Baldwin County.

The fishing interests of this State are divided into three principal branches, viz, the vessel fisheries, the shore or boat fisheries, and the trade in fishery products. The persons employed on the fishing vessels numbered 150, on boats in the shore fisheries 443, and in packing and fish houses of various kinds 196, a total of 789.

The number of vessels engaged in fishing was 53, having a value, including their outfits, of \$50,945; the number of boats employed in the shore fisheries was 254, valued at \$12,939; the apparatus used on vessels and boats, consisting of seines, trammel nets, lines, tongs, and spears, was valued at \$9,205; the value of the shore and accessory property employed in the fishery trade was \$49,350, and the amount of cash capital utilized \$42,750; a total investment, including the cash capital, of \$165,189.

The products of the fisheries consisted of 2,846,009 pounds of fish, valued at \$72,797; 73,200 hard crabs, or 24,400 pounds, valued at \$505;

40,600 pounds of shrimp, valued at \$600; 1,121 terrapin, or 2,934 pounds, valued at \$320; and 255,063 bushels, or about 102,025 barrels, of oysters, the meats of which weighed 1,785,438 pounds and were worth \$60,207; a total of 4,699,381 pounds, having a value of \$134,438.

The yield of the fisheries of this State in 1897 can not be regarded as fairly representing the annual average, from the fact that the enforcement of a quarantine in the months of September, October, and the early part of November, in consequence of the yellow-fever epidemic which prevailed during that period, seriously interfered with the prosecution of the industry and caused a considerable falling off in the products, especially those of the oyster fisheries.

The three tables which follow show by counties the number of persons employed, the number and value of vessels and boats, the quantity and value of 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 Alabama in 1897.

Table showing by counties the number of persons employed in the fisheries of Alabama in 1897.

How engaged.	Baldwin.	Mobile.	Total.
On vessels fishing	45 170	105 273 196	150 443 196
Total		574	789

Table showing by counties the vessels, boats, and apparatus employed in the fisheries of Alabama in 1897.

	Bal	dwin.	Mo	oile.	Total.	
Items.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	100.12	\$14, 350 2, 099 5, 800	34 356. 44	\$26, 025 8, 471 7, 139	53 522, 18 254	\$40, 375 10, 570 12, 935
Boats	4	200 23 270	3 6	325 300 108 390	3 10 110	325 500 131 660
Tongs Apparatus—shore fisheries: Scines Trammel nets	3 70	175 3, 500	7 46	535 2, 260 80	10 116	71 5, 76 8
Lines	40		25 130	7 792 49, 350 42, 750	25 170	1, 03 49, 35 42, 75
Cash capital		00.05		138, 532		165, 18

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Table showing by counties and species the yield of the fisheries of Alabama in 1897.

	Baldw	in.	Mobil	le.	Total.	
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Angel-ûsh	3, 300	\$50	2, 700	\$65	6,000	\$115
Black bass	25, 200	1,764	15, 800	1, 106	41,000	2,870
Biue-fish	124, 480	2, 490	80, 020	1,604	204, 500	4, 094
Cat-fish	109, 200	1,638	78, 800	1. 234	188, 000	2, 872
Channel bass or red-fish	122, 200	4, 277	90, 800	3, 148	213,000	7, 425
Crevalle	7, 350	110	4, 650	70	12,000	180
Crevalle	246, 800	3, 703	170, 200	2, 453	417,000	6, 156
Croakers	3, 900	59	2, 100	32	6,000	្រា
Drum	18, 200	637	28, 800	965	47, 000	1,602
Flounders	9,000	135	60,000	900	69, 000	1,03
Groupers	297, 400	4, 388	293, 900	4,099	591, 300	8.487
Mullet, fresh	251, 400	4,000	6,000	195	6,000	193
Mullet, salted	3,000	120	2,000	80	5,000	200
Perch	2, 500	38	1,500	23	4,000	6
Pickerel	2, 500	38	1,500	23	4.000	6
Pin-fish		2,625	22, 800	1, 587	60, 300	4, 21
Pompano		1, 225	300,000	10, 500	335, 000	11, 72
Red snapper		1,715	37, 800	1. 234	86, 800	2, 94
Sheepshead		2, 330	38, 900		85, 500	3, 96
Spanish mackerel		811	33, 700	1, 132	87, 000	1, 94
Spots		1,539	29, 828	1,044	79, 509	2, 78
Sun-fishes	48, 681	4, 573	158, 200	5, 138	296, 100	9,71
Trout	137, 900	4, 573	130, 200	3, 100	2,000	7
Whiting	2, 000		24, 400	505	a 24, 400	50
Crabs, hard	• • • • • • • • • • • • •		40,600	609	40, 600	60
Shrimp			2, 934	320	b 2, 934	32
Тегтаріп				36, 517	c 1, 785, 438	60, 20
Oysters	471, 940	23, 690	1, 313, 498	30, 317	- 1, 100, 400	
Total	1, 857, 951	58, 225	2, 841, 430	76, 213	4, 699, 381	134, 43

a 73,200 in number.

b 1,121 in number.

c 255,063 bushels.

The vessel and shore fisheries.—The principal fisheries prosecuted in Alabama are the seine and trammel-net fisheries, the red-snapper fishery, and the oyster fishery. In addition to these, cat fish and crabs are taken with trot lines, and flounders are caught in small quantities with spears.

The oyster fishery is of much greater importance than any other branch, and is engaged in by a large number of vessels and boats. The season begins about the 1st of September and continues until the latter part of April, although oysters are taken to a greater or less extent in nearly every month of the year. Tongs are the only apparatus of capture used. The oysters, as they are sold by the fishermen, are divided into three principal grades. These are the plants, cullens, and reefers. The plants and cullens are obtained chiefly from the planted grounds in Bon Secours Bay, a small indentation of Mobile Bay at the lower end of Baldwin County, and also from the planted grounds in Heron Bay and vicinity, which is in the lower part of Mobile County, on Mississippi Sound. The reefers are from the natural reefs in Mobile The prices received for the different Bay and Mississippi Sound. grades of oysters fluctuate more or less, but average from \$1.25 to \$1.50 a barrel for plants, \$1 a barrel for cullens, and about 60 cents a barrel for reefers. The greater part of the catch is sold to the dealers at Mobile.

It was formerly customary for a number of the vessels to engage in buying the oysters from the tongers and transporting them to Mobile. The profits of this enterprise, never very large, finally became so small that it was practically abandoned, and the vessels and boats now carry their own catch to market. Aside from the grades of oysters above referred to, considerable quantities are obtained from the natural reefs for canning purposes. These are sold at Biloxi, Miss., and also to a cannery which has recently been built at Bayou Labatre, the price received being from 25 to 30 cents a barrel. Oysters are also taken in the spring, after the market season is over, for planting purposes, for which the tongers receive 10 cents a barrel delivered on the plantinggrounds. They consist of oysters and shells together. The quantity of oysters taken by vessels was 894,915 pounds, or 51,138 barrels, valued at \$40,881; the quantity taken by boats was 890,253 pounds, or 50,887 barrels, valued at \$19,326; a total, exclusive of oysters for planting purposes, of 102,025 barrels, having a value of \$60,207, or nearly one-half the entire value of the fishery products of the State. The ovsters taken by vessels included a much larger proportion of the better grades than those taken by boats; hence their value was proportionately greater.

Seines are used to a limited extent on vessels, but are chiefly operated by small boats. The greater number of these are fish seines, and vary in length from 60 to 100 fathoms each, having a depth in the center of 10 to 15 feet and narrowing at the ends to 5 or 6 feet. They are made of cotton twine and cost, according to their size and quality, from \$40 to \$100 each. The size of the mesh, stretched, is about 2 inches in the center and 3 inches in the remainder of the net. A few shrimp seines are also used. These are made of lighter twine and are usually a little longer than the fish seines, and cost from \$60 to \$125 each. The catch taken by vessels in seines consisted of 22,200 pounds of fish, valued at \$873, and 20,000 pounds of shrimp, valued at \$300; the catch by boats was 117,026 pounds of fish, valued at \$2,477, and 20,600 pounds of shrimp, valued at \$309; a total of 179,826 pounds of fish and shrimp, having a value of \$3,959.

The most important apparatus used in the capture of inshore species, locally termed "beach fish," are the trammel nets. These are used to a considerable extent on both vessels and boats. The nets are made of cotton twine, and are divided in two sections, each section being 40 fathoms long and costing about \$25 or \$50 for the entire net. The size of the mesh in the outside webs is from 10 to 12 inches, and in the inside web about $2\frac{1}{2}$ inches stretched. The quantity of fish taken in trammel nets by vessels was 221,700 pounds, valued at \$4,405, and by boats 2,052,508 pounds, valued at \$51,538; a total of 2,274,208 pounds, having a value of \$55,943.

The red-snapper fishery, which has heretofore been carried on in an irregular manner in this State, was recently established at Mobile, and may grow to much larger proportions in the course of a few years. It is exclusively a vessel fishery, with hand lines as the apparatus of capture. There were five vessels engaged in it, four of which operated

during the entire year. The yield of this fishery was 335,000 pounds of red snappers, valued at \$11,725, and 69,000 pounds of groupers, valued at \$1,035; a total of 404,000 pounds of fish, having a value of \$12,760.

The fisheries with trot lines and spears are carried on with small boats and are not extensive. The quantity of cat-fish taken with trot lines was 12,000 pounds, valued at \$240, and of hard crabs, with trot lines rigged especially for that purpose, 24,400 pounds, valued at \$505. Flounders are the only species taken with spears, the quantity being 17,000 pounds, valued at \$550. There were also 2,509 pounds of terrapin, valued at \$274. These were picked up in the marshes without the use of apparatus.

The vessel fisheries slightly predominate in the quantity and value of oysters obtained, but are otherwise of much less importance than the shore fisheries. The products taken by vessels aggregated 1,563,815 pounds, valued at \$59,219, and by boats 3,136,566 pounds, valued at \$75,219. This includes oysters, which are represented by the weight of the meats on a basis of 17½ pounds to the barrel in the shell.

The following tables exhibit by counties, species, and apparatus the quantity and value of products taken in the vessel and shore fisheries of Alabama in 1897:

Table showing by counties, apparatus, and species the yield of the vessel fisheries of Alabama in 1897.

	Baldw	in.	Mobil	о.	Tota	1.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
eines:			1, 200	\$42	1, 200	84
Angel-fish			1, 500	60	1,500	6
Blue-fish			3,000	105	3,000	10
Channel hass or red-fish			3,000	100	600	1
Croakers			. 1.500	105	1.500	10
Pompano			3,000	105	3,000	ič
			1,500	75	1,500	1 7
Spanish mackerel				372	9, 900	37
Tront.			9,900	300	20,000	30
Shrimp			20,000	300	20,000	
Total			42, 200	1, 173	42, 200	1, 1
rammel nets:	l .				15 400	5
Channel bass or red-fish	2,000	\$70	13, 400	469	1 5 , 400) 3
Croakers	1,000	15	2,000	30	3,000	
Flounders			400	16	400	
Mullet	30,000	374	124,000	1,550	154, 000	1, 9
Pompano	1,000	70		<u></u>	1,000	1
Sheepshead	2,000	70	500	18	2,500	
Spanish mackerel	1,500	75			1,500	
Spots	2, 200	44	3, 200	64	5, 400	1
Trout	2,000	80	36, 500	1,460	88, 500	1, 5
Total	41,700	798	180, 000	3, 607	221,700	4,4
inea:						١.,
Grouper	9,000	135	60,000	900	69,000	1,0
Red snapper	35, 000	1, 225	300,000	10, 500	335, 000	11,7
Total	44, 000	1, 360	360,000	11, 400	404,000	12, 7
Congs:					004.015	40.0
Oysters	331, 940	18, 890	562, 975	21, 991	894, 915	40, 8
Grand total	417, 640	21,048	1, 145, 175	38, 171	1, 562, 815	59, 2

Table showing by counties, apparatus, and species the yield of the shore fisheries of Alabama in 1897.

	Baldw	in.	Mobil	е.	Tota	Total.	
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	
Seines:		l I					
Angel-fish	500	\$8			500	\$8	
Blue-flah	5, 130	103	3,500	\$44	8, 630	147	
Cat-flah	1,000	15	1,000	7]	2,000	22	
Cat-fish	4,950	173	2, 000	40	6, 950	213	
Croakers	10, 500	158	20,000	200	30, 500	358	
Drum	500	8			500	. 8	
Flounders	1, 200	42			1, 200	43	
Mullet			1,500	23	1,500	2:	
Pompano	1,500	105	300	12	1,800	117	
Shoonahood	2,000	70	6,000	120	8,000	190	
Spanish mackerel	2,500	125	10, 500	210	13,000	335	
Spots	2, 100	32			2, 100	32	
Sun-fishes	2, 221	78			2,221	78	
Tront.	5,700	188	30,000	600	35, 700	788	
Whiting	2,000	70		(<u>-</u>	2,000	70	
Chairma	. 	!	20,600	309	20,600	308	
Terrapin		i	425	46	425	46	
Total	41, 801	1, 175	95, 825	1,611	137, 626	2, 786	
Transcal and							
Trammel nets:	2,800	42	1,500	23	4,300	65	
Angel-fish	25, 200	1, 764	15,800	1, 106	41,000	2, 870	
Blue-fish	119, 350	2,387	75, 020	1,500	194, 370	3, 887	
Cat-fish		1.623	65, 800	987	174, 000	2,610	
Channel bass or red-fish	115, 250	4, 034	72,400	2, 534	187, 650	6, 568	
Crevalle		110	4, 650	70	12,000	180	
Croakers		3, 530	147, 600	2, 214	382, 900	5,744	
Drum	3,400	51	2, 100	32	5,500	83	
Flounders	17,000	595	11,400	399	28, 400	994	
Mullet, fresh		4, 014	168, 400	2,526	435, 800	6, 540	
Mullet, salted	201, 100		6,000	195	6,000	195	
Perch.	3,000	120	2,000	80	5,000	200	
Pickerel	2,500	38	1,500	23	4,000	61	
Pin-fish	2,500	38	1, 500	23	4,000	61	
Pompano	35, 000	2, 450	21,000	1,470	56,000	3, 920	
Sheepshead	45, 000	1, 575	28, 800	991	73, 300	2, 560	
Spanish mackerel		2, 130	26, 900	1,345	69, 500	3, 475	
Spots	49,000	735	80, 500	1.068	79, 500	1,803	
Sun-fishes	47, 460	1,661	29, 828	1,044	77, 288	2,705	
Trout	130, 200	4,305	81, 800	2,706	212, 000	7, 011	
Total	1, 258, 510	31, 202	793, 998	20, 336	2, 052, 508	51, 538	
Lines:					! 		
Catifiah		1	12,000	240	12,000	240	
Crabs, bard			24, 400		24, 400	505	
			¦ 	:			
Total		<u> </u>	36, 400	745	36, 400	745	
Spears:		1	17 600		15 600		
Flounders			17,000	550	17,000	550	
Tonge:	140 2000		250 500	1 1 1 100	000 500	10 000	
Oyaters	140,000	4, 800	750, 523	14,526	890, 523	19, 32	
Taken without apparatus:			2,509	274	2,509	274	
Terrapin	====	37, 177	1, 698, 255	38, 042	3, 136, 566	75, 219	
Grand total	1,440,311						

THE WHOLESALE FISHERY TRADE.

The city of Mobile is the principal market and point of distribution for the fishery products of the coastal waters of Alabama. The only other localities where the fishery trade is prosecuted are Coden and Bayou Labatre, located on the shores of Mississippi Sound, in the western part of the State, about 25 miles from Mobile. These places are less favorable as shipping-points on account of being about 9 miles from the railroad.

The most important branches of shore industry connected with the fisheries are the wholesale trades in fresh fish and oysters. Shrimp and crabs are also handled to a limited extent, and in 1897 an oyster cannery began to operate at Bayou Labatre.

The trade in fresh fish, which is the more extensive branch, was carried on chiefly by four firms at Mobile. The fish handled consist of a large variety of local species, or "beach fish," taken in the seines and trammel nets, and also of red snappers and groupers. These two species have usually been obtained at Pensacola, but during the past year about one-half the quantity utilized were landed by Mobile vessels. The fish are packed with ice in boxes and barrels and are shipped to numerous points in Alabama and adjacent States. The quantity handled was 3,151,900 pounds, valued at \$127,065.

The oyster trade is engaged in to a greater or less extent by eight firms, two of which are also fresh-fish dealers. The greater part of the oysters are opened and sold by count. They are divided into four grades, designated as plants, cullings, selects, and reefers. The first two grades are obtained from the planted grounds and the last two from the natural reefs. The oysters are packed with ice for shipment in buckets, half barrels, and barrels, and small quantities are also put up in hermetically sealed buckets holding from 1 to 4 quarts. The output of the cannery at Bayou Labatre above referred to consisted chiefly of canned oysters, shrimp and crabs being prepared in limited quantities. In order to avoid exposing the private interests of the firm, this being the only cannery in the State, the products have been included as opened oysters, whole shrimp, and live crabs, with the value received for them after being canned. The aggregate quantity, therefore, of oysters utilized for opening and canning purposes was 26,420,000 in number, or 104,061 gallons, the value of which as sold was \$106,164. There were also 1,850 barrels of oysters sold in the shell, valued at \$3,646, the total value of the various branches of the oyster trade being \$109,810. The quantity of shrimp handled raw and canned, represented in a raw condition, was 70,600 pounds, valued as sold at \$3,198, and the number of crabs was 135,600, valued at \$2,220.

There were 10 establishments in the State engaged in handling fishery products at wholesale, 8 of which were located at Mobile, 1 at Coden, and 1 at Bayou Labatre. In these 196 persons were employed

as shore hands. The value of the shore and accessory property used was \$49,350; the amount of cash capital was \$42,750; the wages paid amounted to \$28,556, and the aggregate value of the products handled was \$242,293.

The extent of the wholesale trade in fishery products in Alabama in 1897 is shown in the following table:

Table showing the extent of the wholese	ale trade in fishery	products for Alabama in	1897.
---	----------------------	-------------------------	-------

Items.	Quantity.	Value.	Items.	Quantity.	Value.
Establishments	10	\$49, 350		6,000	\$190
Cash capital		42.750	Floundersdo		1, 750
Wages paid		28, 556	Groupersdo		1, 625
Employees	198	(Jureldo		80
Products handled.			Mulletdo		12, 050 110
I rounces namaten.		}	Pin-fishdo		120
Oysters openednumber	*26, 420, 000	106, 164	Pompanodo		7, 250
Oysters sold in the shell,	20, 220, 000	100,101	Red snapperdo		30, 500
barrels	1.850	3,646	Sheepsheaddo	80, 800	4, 140
Shrimppounds	70, 600	3, 198	Silver perchdo		320
Crabsnumber	135,000	2, 220	Spanish mackereldo	105,000	6, 900
Angel-fishpounds	6,000	120	Spotsdo	87,000	2, 430
Black bassdo	41,000	3,620	Sun-fishesdo		4, 835
Blue-flahdo		8,040	Troutdo		15,040
Cat-fishdo		3,675	Whitingdo	2,000	40
Channel bassdo	211,000	10,550	M-4431 6 31		
Crevalledo	12,000	270			242, 293
Croakersdo	397, 000	13,910			

^{*} Equals 104,061 gallons.

FISHERIES OF MISSISSIPPI.

Description of the coast.—The coast line of Mississippi is broken by a number of small indentations, the most important of which are Point Aux Chenes Bay, Pascagoula Bay, Biloxi Bay, and Bay St. Louis. Each of these receives the waters of a number of small streams, the largest of which is the Pascagoula River, emptying into Pascagoula Bay; Biloxi River, emptying into Biloxi Bay, and the Wolf River, emptying into Bay St. Louis. At a distance of about 10 miles from the shore is a low broken chain of small sandy islands, none of which has more than an occasional inhabitant. Of these, Ship Island, lying directly off of Biloxi, is the most important and furnishes the only good harbor for large vessels on the coast. Mississippi Sound, extending the entire length of the coast and terminating on the east at the entrance of Mobile Bay, Alabama, lies between the islands and the mainland. Its waters are too shallow for navigation by large vessels, but it is of considerable importance as a fishing-ground.

Fishing localities.—There are three counties on the coast of this State, each of which is interested in the fisheries. These are Jackson, Harrison, and Hancock. The fisheries of Harrison County are much more extensive than in the other two counties combined. Fishing is prosecuted commercially or otherwise in all the localities along the shore, but the principal points are at Scranton and Ocean Springs, in Jackson County, Biloxi, in Harrison County, and Bay St. Louis, in Han-

cock County. These are all small towns, Biloxi, with a population not exceeding 5,000, being the largest and most important fishing and trade center.

General statistics.—The number of persons employed on the vessels fishing and transporting was 382; on boats in the various branches of shore fisheries, 679; in the canneries and packing houses, 1,504—a total of 2,565.

The number of vessels engaged in fishing and transporting fishery products was 83, having a value, including their outfits, of \$107,063; the number of boats of all classes used in the shore fisheries was 439, valued at \$17,039. The apparatus of capture used by vessels and boats, consisting of seines, trammel nets, gill nets, cast nets, dredges, tongs, spears, and lines, was valued at \$19,255. The value of shore and accessory property, which comprises chiefly the canneries and the packing houses, was \$125,644—a total investment, if the cash capital employed in the canning and packing industries, amounting to \$249,300, is included, of \$518,301.

The products of the fisheries consisted of 1,358,890 pounds of fish, valued at \$46,041; 1,903,165 pounds of shrimp, valued at \$28,804; 458,520 hard and soft crabs in number, valued at \$5,214; 3,372 terrapin, valued at \$1,275; and 629,713 bushels, or about 251,885 barrels of oysters, valued at \$110,964; the total value of products being \$192,298.

In the quantity and value of nearly all products, except shrimp, there was a large falling off from recent years. This may be explained by the fact that owing to the prevalence of yellow fever in this section in the fall of 1897 a rigid quarantine was maintained from September 6 to November 12; all means of transportation were suspended and the fisheries and canning and packing industries were practically discontinued. The shrimp fishery has materially increased, and it seems probable that under more favorable conditions all other branches of the fisheries would have been more extensive than ever before.

The three following tables show, by counties, the number of persons employed, the number and value of vessels, boats, and apparatus used, the amount of capital invested, and the quantity and value of the products of the fisheries of Mississippi in 1897:

Table showing by counties the number of persons employed in the fisheries of Mississippi in 1897.

Counties.	On ves- sels fish- ing.	On ves- sels trans- porting.	Boat or shore fisher- men.	Shores- men.	Total.
Jackson	20 241 104	17	271 296 112	143 1, 107 254	434 1, 661 470
Total	305	17	679	1, 504	2, 565

Table showing by counties the vessels, boats, and apparatus employed in the fisheries of Mississippi in 1897.

	Jackson.		Harrison.		Hancock.		Total.	
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	5	\$4,100	55	\$54,625	18	\$13,300	78	\$72, 025
Tonnage	44.45		540.61		179.49		764. 55	
Ontat		1,488		18, 855		3, 250		23,593
Vessels transporting			5	9, 100			5	9, 100
Tonnage			90. 33				90.33	l
Outfit				2, 345		<i></i>	l	2, 345
Boats	169	4, 953	204	9, 850	66	2, 236	439	17, 039
Apparatus—vessel fisheries:	100	1,000		,		,		
Seines	4	475	35	4, 300		100	40	4, 875
Trammel nets		180	•	1,000			3	180
Gill neta	1	130					1	130
	1 -	100	8	275			8	275
Dredges	19	93	251	1,316	78	468	348	1,877
Tongs	14	4	201	1,310	10	100	1	1,0.4
Spears	*	4	• • • • • • •	,	[_	•
Apparatus—shore fisheries:		0.005	47	5, 975	'		72	8,000
Seines	25	2, 025	9	270	2	90	29	1,680
Trammel nets	18	1,320			60	240	75	300
Cast nets			15	60	1 60	46	10	186
Lines		113	• • • • • • • •	27	[• • • • • • • · ·	40	10	100
Spears	10	10	*****					
Tongs	130	654	131	78 6	48	288	309 20	1, 728
Minor apparatus			20	10			20	105 044
Shore and accessory property.		9, 650		95, 870		20, 124		125, 644
Cash capital		7, 400	• • • • • • •	166, 900		75,000		249, 300
Total		32, 595		370, 564		115, 142		518, 301

Table showing by counties and species the yield of the fisheries of Mississippi in 1897.

5 t.	Jackson.		Harrison.		Hancock.		Total.	
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Black bass	15, 000	\$750			12, 000	\$600	27, 000	\$1,350
oue-nah	33, 300	1, 105 215					33, 300 21, 500	1, 105 215
Suffalo-fish	21, 500 28, 000	560			3, 200	160	31, 200	720
at-fish hannel bass or red-fish	153, 800	6,043	33, 200	\$1,660	12,000	600	199,000	8, 303
TORKATA	18,700	324	21, 200	1,080	8,500	425	48, 400	1,801
rum, salt-water			3,000	150	2,000	100	5,000	250
1000hdara	21, 600	672	6, 600	330			28, 200	1,00
ullet.	187, 100	1,891	46,500	850	7,000	140	240, 600	2, 88
erch	5,000	150])]	5,000	150
ID-fish	20,000	370	18, 880	944			38, 880	1, 314
Ombano	23,000	1,400	1,800	180			24,800	1,58
	79,400	2,566	21, 500	1,075	9, 250	462	110, 150	4, 10
Panish mackerel	45, 800	3, 180	3,960	396	15,000	1,500	04, 760	5, 07
P018	3,500	105	1,000	50	500		3,500	10. 50.
un fishes	23, 300	433	39, 300	1,875	500 23, 000	1, 150	24, 800 452, 800	15, 57
Crout	390, 500	12, 545 3, 592	1, 670, 765	25, 062	10,000		1, 903, 165	28, 80
	222, 400 5, 280	3, 382	90, 360	2,052	86,000	1, 350	131, 640	3, 49
rabe, hard	1, 200		4,000	400	16,000	1, 200	21, 200	
rabs, soft	1, 200	1 120	6, 798	1,275	10,000		86, 798	1, 27
Terrapin Dysters	567, 441	19,847	3, 045, 141	77, 480	795, 410	13, 697	44,407,992	110, 96
Total	1, 865, 821	55, 980	5, 014, 004	114, 839	949, 860	21, 499	7, 829, 685	192, 29

¹ 394,920 in number.

² 63,600 in number.

^{3,372} in number.

^{4629,713} in bushels.

The vessel and shore fisheries.—The oyster fishery is of much greater importance than any other fishery in the State. Its development has taken place chiefly since 1880, and has been largely due to the establishment of the oyster canneries, which have greatly increased the demand for the products. This fishery now employs a large fleet of vessels and boats, and is a source of considerable revenue to fishermen and shore employees engaged in preparing the products for market. The season for taking oysters begins October 1 and closes April 30. Until quite recently oyster tongs were the only apparatus of capture used on vessels and boats in this fishery, but in 1897 three small steamboats and one schooner were fitted with dredges. The quantity of oysters taken by vessels with dredges was 51,871 barrels, valued at \$15,728, and with tongs, 105,079 barrels, valued at \$45,493—a total catch by vessels of 156,949 barrels, having a value of \$61,221. catch by small boats, on which tongs were the only apparatus employed, aggregated 94,935 barrels, valued at \$49,743.

The oysters are nearly all obtained from the natural reefs in Mississippi Sound and in the vicinity of the islands along the coast. Oysters have been planted to some extent for many years at Biloxi, Ocean Springs, and Scranton, and there are still considerable areas of bottom utilized for planting purposes in these localities, but the results have

never been fully satisfactory.

The shrimp fishery, which was comparatively small until within the last few years, now ranks next in importance to the oyster fishery. The entire catch of shrimp—except 10,000 pounds, valued at \$150, obtained with cast nets-was taken in seines by vessels and large sailboats, each having a crew of four men, that being the number required to fish a seine. The fishing season is from about March 15 to May 1, and again in the fall from August 1 to November 1. The length of the seines varies more or less, but is usually about 115 fathoms each, with a depth of 6 feet at the ends and 12 feet in the center. The size of the mesh is 21 inches stretched. The seines are made of 9 to 12 thread cotton twine, and cost from \$100 to \$125 each. To facilitate the fishing operations, and for the purpose of securing larger quantities of shrimp, some of the packers employ a number of transporting vessels. These are supplied with ice and sent out on the fishing-grounds to buy the catch of the vessels and boats. The remainder of the shrimp is landed by the fishermen. Many of the fishing craft are owned by the packers, but the usual method in such cases is to have the vessel fished on shares, the owner paying the market price for the shrimp, which is about 1½ cents a pound when landed at the packing houses or sold to the transporting vessels.

The quantity of shrimp taken with seines was almost equally divided between the vessels and boats, the quantity secured by vessels being 951,105 pounds, valued at \$14,267, and by boats 942,060 pounds, valued

at \$14,387.

There is also considerable fishing with seines for fish—chiefly with small boats, vessels being engaged in it to only a limited extent. The season is from March 15 to October 1. The fish seines are made of somewhat heavier twine than the shrimp seines and are more expensive. They are from 95 to 100 fathoms long, the size of mesh being from 2 to 2½ inches stretched, and cost about \$150 each. Four or five men are employed in each seine crew. The quantity of fish taken with this apparatus by vessels was 96,100 pounds, valued at \$2,980, and by boats 363,740 pounds, valued at \$12,918.

In addition to the shrimp and fish taken in seines there was an incidental catch with shrimp seines consisting of 3,473 pounds of terrapin, valued at \$650, by vessels, and 3,325 pounds, valued at \$625, by boats, the value of all products by seine fishing being \$45,817.

The trammel-net fishery is prosecuted during the fall, winter, and spring, and, so far as fish proper are concerned, is of greater importance than the seine fishery, but is of less value when all the products taken by seines are considered. The trammel nets are used in sections of 40 to 50 fathoms each in length, two sections comprising one net. The size of mesh in the inside web is about 2 inches, and in the webs on either side about 14 inches stretched. The cost of the nets when new is from \$25 to \$30 for each section. The quantity of fish taken by vessels in trammel nets was 186,700 pounds, valued at \$6,758, and by boats 376,100 pounds, valued at \$11,901.

Considerable quantities of fish are taken with pole and line, and with hand lines, by small boats during the fall. The most important species caught in this manner are the trout and Spanish mackerel. Hard and soft crabs are also caught with trot lines from September 1 to May 15. The trot lines are from 400 to 700 feet long, the bait being attached to snoods placed about 4 feet apart. They cost from \$1.25 to \$2 each. The line catch aggregated 429,390 pounds of crabs and fish, having a value of \$13,851.

Gill nets are used to a very limited extent in the vessel fisheries, the catch amounting to only 5,600 pounds, valued at \$455.

Spears were used by one vessel and a number of small boats in the capture of flounders.

Cast nets and dip nets are used in the boat fisheries, the former for taking mullet and shrimp, and the latter for taking soft crabs, the value of the catch of both forms of apparatus being \$2,240.

The fisheries prosecuted by vessels are much less extensive than those carried on with small boats, but are gradually assuming greater relative importance, and the forms of apparatus used are becoming more varied. The total value of the products taken by vessels was \$86,493, and by boats \$105,805.

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The following tables exhibit the products of the vessel and shore fisheries in 1897, by counties, apparatus, and species:

Table showing by counties, apparatus, and species the yield of the vessel fisheries of Mississippi in 1897.

Jacks	on.	Harrison.		Hance	ock.	Total.		
Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	
						12 000	\$360	
				1 000	450		650	
							327	
							110	
							460	
		• • • • • • • • •	• • • • • •	2,000	100		300	
		· · · · · · · · · · · ·					73	
				*****	950		700	
			:::::::::	5,000	230		14, 267	
70,000	1,050							
		3, 473	650		·····	0,415	000	
151, 100	8.310	884, 578	13, 867	15, 000	720	1, 050, 678	17, 897	
							· 	
						10 000	380	
							2,480	
							128	
	128						50	
							300	
			[20,000	140	
						99 000	790	
						23,000	250	
						2,500	10	
							110	
				ļ			2, 625	
47, 500	2, 025		<u></u>		• • • • • • • •			
186,700	6, 758					186, 700	6, 758	
					l			
500	25						25	
100	5	.						
3,500	350						350	
1,500	75						78	
5, 600	455					5, 600	455	
							1	
5, 400	162					5, 400	165	
_, _,	l , " -		i	i		1		
117, 250	3,000	1, 199, 223	33, 536	522, 410	8, 957	1, 838, 883	45, 49	
12., 250	, .,	-,,		1		1	1	
	l	907, 743	15, 728			907, 743	15, 72	
					i——			
466, 050	13, 685	2, 991, 544	63, 131	537, 410	9,677	3, 995, 004	86, 49	
	12, 000 20, 000 1, 800 9, 000 12, 000 15, 000 15, 000 70, 000 151, 100 10, 000 56, 000 28, 000 28, 000 28, 000 28, 000 28, 000 28, 000 1, 500 186, 700 500 1, 500 5, 600 5, 400 117, 250	12,000 \$360 20,000 600 1,800 90 12,000 300 6,300 73 15,000 450 70,000 1,050 151,100 3,310 10,000 380 6,200 1,28 1,000 2,480 6,200 1,28 1,000 20,000 2,000 140 23,000 790 2,500 250 3,500 105 7,000 47,500 166,700 6,758 500 25 1,500 75 5,600 455 5,400 162 117,250 3,000	Lbs. Value. Lbs.	Lbs. Value. Lbs. Value.	Lbs. Value. Lbs. Value. Lbs.	Lbs. Value. Lbs. Value. Lbs. Value.	Lbs. Value. Lbs. Value. Lbs. Value. Lbs.	

Table showing by counties, apparatus, and species the yield of the shore fisheries of Mississippi in 1897.

	Jackson.		on. Harrison.		Hancock.		Total.	
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines:							9 000	\$180
Blue-fish	6, 000	\$180		[6,000	216
Buffalo-tish	21, 500	215	'				21,500	70
Cat-fish	3,500	70					3, 500	
Channel bass	41,800	1, 463		\$1,260			67,000	2,72
Croakers	6, 000	90	16, 200	810			22, 200	900
Flounders	6,000	180	3,600	180	ļ .		9, 600	360
Mullet	52, 500	525			1		52, 500	52
Pin-fish	11,000	200	11,880	594			22, 880	794
Pompano	14,000	840	1,800	180			15,800	1,020
Sheepshead	14, 500	435	18,000	900			32,500	1, 333
Spanish mackerel	22, 500	1, 350		396		l	26,4 6 0	1,740
	3,000	60	1 0,000				3,000	60
Sun-fishes	52,000	1.540	28, 800	1,440			80,800	2,980
Trout	152, 400	2, 542		11,845			942,000	14, 38
Shrimp			3, 325	625		l .	3, 325	62
Terrapin			3, 320	1 023				
Total	406, 700	9, 690	902, 425	18, 230			1, 309, 125	27, 92

Table showing by counties, apparatus, and species the yield of the shore fisheries of Mississippi in 1897—Continued.

	Jacks	on.	Harrie	on.	Hance	œk.	Tota	1.
Apparatus and species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Trammel nets:					10 000	\$600	27, 000	\$1, 350
Black bass	15, 000	\$750			12,000	φυνυ	4,800	160
Blue-fish	4,800	160	• • • • • • • • • • •		200	10	4,700	100
Cat fish	4,500	90	8, 000	\$400	8,000	400	52,000	2,300
Channel bass	36,000	1, 500 79	5,000	250	1,500	75	11, 200	404
Croakers	4,700	19	3,000	150	500	25	3, 500	175
Drum, salt-water	4, 200	130	3,000	150	500		7, 200	280
Flounders		976	30, 000	600			127, 600	1, 576
Mullet	97, 600	150	30,000	000			5,000	150
Perch	5,000	170	7, 000	350		•••••	16,000	520
Pin-fish	9,000		7,000	330	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	7, 000	420
Pompano	7,000	420	3, 500	175	5,000	250	38, 300	1, 401
Sheepshead	29, 800	976	3, 500	113	5,000	200	12,300	930
Spanish mackerel	12, 300	930	1.000	50	500	25	8,500	265
Sun-fishes	7, 000	190		435	500		51,000	1, 870
Trout	40,500	1,435	10, 500	400			01,000	2,01
Total	277, 400	7, 956	71,000	2,560	27,700	1, 385	376, 100	11,90
0								
Cast nets:			10 500	250	6,000	120	22, 500	376
Mullet			16, 500	230	10,000	150	10,000	15
Shrimp				• • • • • • • •	10,000	100	10,000	
Total			16, 500	250	16, 000	270	32, 500	520
T 3.				i				
Lines:		400			3,000	150	23,000	55
Cat-fish	20,000		• • • • • • • • • • • • • • • • • • •		3,000	150	3,000	15
Channel bass					1,000	50	1,000	- 5
Croakers	• • • • • • • • •		· · · · · · · · · · · · · · · · · · ·		1,500	75	1,500	7.
Drum, salt-water		`			2, 250	112	2, 250	11
Sheepshead			· · · · · · · · · · · · · · · · · · ·		15,000	1,500	15,000	1, 50
Spanish mackerel			, • • • • • • • • • • • • • • • • • • •		18,000	900	252,000	7, 92
Trout	234,000	7,020			36,000	1.350	131,640	3, 49
Crabs, hard	5, 280	92	90, 360	2, 052	30,000	1, 300	101,040	0, 20
Total	259, 280	7, 512	90, 360	2,052	79,750	4, 287	429, 390	13, 85
o_							I	i
Spears:				l		į.	5,000	15
Flounders	5,000	150					3,000	10
Tongs:	1			00 010	072 000	4, 680	1, 661, 366	49, 74
Oysters	450, 191	16, 847	938, 175	28, 216	273,000	4,080	1, 001, 300	20, 19
Minor apparatus:	l			400	10 000	1,200	21, 200	1, 72
Crabs, soft	1, 200	120	4,000	400	16,000	1,200	21, 200	1, 12
Grand total	1, 399, 771	42, 275	2, 022, 460	51,708	412, 450	11, 822	3, 834, 681	105, 80

THE WHOLESALE FISHERY TRADE.

The principal shore industries connected with the fisheries of Mississippi are the canning of oysters, shrimp, and crabs, and the trade in opened oysters, whole shrimp, live crabs, terrapin, and fresh fish.

The oyster-canning business was established at Biloxi in 1881. In that year one cannery was built and put in operation and others were added a few years later. Since that time the industry has grown to considerable proportions and has contributed materially to the prosperity of the communities in which it is carried on. In 1897 there were 4 canneries in operation—3 at Biloxi and 1 at Bay St. Louis. The aggregate value of these, including land, buildings, wharves, machinery, and fixtures, was \$88,000, the amount of cash capital utilized was \$203,000, and of wages paid \$55,552. The number of persons employed was 942. The total value of the output was \$346,751. Of this amount \$256,664 represents the value of the canned-oyster pack; the remain-

der, \$90,087, is the value of the opened oysters, canned shrimp, and other fish products handled at the canneries.

The packing of shrimp at the canneries and oyster houses has greatly increased during the past few years and is now an important feature of the fishery trade. The shrimp are packed in tin cans, chiefly of the 1 and 2 pound sizes, and also in packages holding 5, 10, and 20 pounds, or 1, 2, and 4 gallons. The quantity of shrimp utilized for packing was 9,304 barrels, costing, as landed from the vessels and boats, \$29,286, and having a value when packed of \$119,282. Besides this, 572 barrels were sold in a raw or whole condition, at a value of \$2,842, the aggregate value of the shrimp trade being \$122,124.

Hard crabs have also been prepared at the canneries in various years since about 1882, but the industry has never been extensive, chiefly on account of the limited demand for the goods. The meat of the crabs, after being removed from the shell, is packed in 1 and 2 pound cans, hermetically sealed, and processed in a manner similar to other canned products. The pack consisted of 10,560 1-pound and 2,160 2-pound cans, having a value of \$2,035.

The canning industry is of great importance to the fishery interests of this section, not only on account of the increased amount of capital invested, the labor employed, and wages distributed, but it has been largely instrumental in developing the oyster and shrimp fisheries by affording a convenient and ready market for their products. It is not probable that these fisheries would have ever reached their present stage of development under the conditions prevailing before the establishment of the canneries, when New Orleans was the principal market for the catch.

Next in importance to the canning industry is the trade in opened oysters. There were 16 packing houses, exclusive of the oyster canneries, engaged in this branch of business. Of these, 7 were located at Biloxi, 4 at Ocean Springs, and 5 at Scranton. The number of persons employed was 562, the value of shore property used was \$35,950, the amount of cash capital \$46,300, and of wages paid \$32,096. These firms, as already indicated, were also engaged in packing shrimp, and some of them in handling other fishery products.

The oysters are divided into three principal grades, designated as plants, selects, and reefers. After being opened they are counted and packed with ice in wooden buckets for shipment, the covers of the buckets being fastened on with wire nails. The capacity of the buckets ranges from 3 to about 8 gallons, or from 500 to 1,000 oysters, the size of the bucket required depending upon the number and grade of oysters to be packed. They cost from 15 to 28 cents, or an average of about 25 cents each. The oysters are sold by count instead of gallon in nearly all instances. This is an old custom among the oyster-packers of this region, and is said to be due to the fact that the trade which they supply demands solid measure, which renders it difficult, if the oysters

are sold by the gallon, to compete with the trade at Baltimore, Md. However this may be, the oysters are shipped without any water except what accumulates from the ice used to keep them cool. The price received by the 1,000 fluctuates considerably, but is approximately from \$6.25 to \$6.50 for plants, \$3.25 to \$3.50 for selects, and about \$2 for reefers. The number of gallons to 1,000 oysters is generally estimated to be about $7\frac{1}{2}$ for plants, $4\frac{1}{2}$ for selects, and 3 for reefers. The quantity of opened oysters sold in 1897, expressed in number, was 31,615,950, or about 154,711 gallons, having a value of \$119,941. The greater part of these was the product of the packing-houses, the quantity prepared at the oyster canneries being only 2,755,000, or about 13,947 gallons, valued at \$11,420. It should perhaps be noted that the trade in opened oysters, as shown by the above figures, is little more than half as large as it has been in previous years, but the decline is probably only temporary.

A small number of terrapin are handled by dealers at Biloxi. These are derived from the fisheries of Mississippi and Louisiana, a part of them being shipped from New Orleans. The value of the terrapin trade amounted to \$2,805. A few years since a terrapin pen was constructed at Biloxi which is used principally for keeping the animals and improving their condition. It is built on the shore at the water's edge, and is 500 feet square. A part of its area is covered with water having an extreme depth of about 6 feet.

The trade in fresh fish is carried on chiefly by four of the firms located at Scranton. It has not so far become very extensive, apparently on account of not being sufficiently well established to enable the dealers to buy all the fish that may be brought to them, and consequently it sometimes happens that when fish are needed the fishermen, who follow the business in a somewhat irregular manner, are not prepared to supply the demand. The quantity of fish handled aggregated 382,200 pounds, valued at \$19,324. In nearly all the localities along the coast considerable quantities are handled at retail. At Biloxi there are also from 700 to 1,000 barrels shipped annually by rail to New Orleans and other points by the fishermen. There are no fish salted in this section except a small quantity of mullet.

There is a very small trade in hard and soft crabs at Biloxi, Ocean Springs, and Scranton. The crabs are packed with ice in baskets, boxes, and tubs and shipped to Mobile and other points. The number of crabs shipped was 70,800, the value of which was \$733. In addition to this, a much larger quantity was shipped by individual fishermen.

The number of establishments in the State which handled fishery products at wholesale was 20; the value of shore property, \$123,950; the amount of cash capital used, \$249,300; of wages paid, \$87,648. The number of persons employed in canneries and packing houses, exclusive of fishermen, was 1,504. The aggregate value of the products prepared was \$525,186

The extent of the trade in 1897 is shown in detail in the following table:

Table showing the extent of the canning and wholesale trade of fishery products for Mississippi in 1897.

Items.	Biloxi a St. Lo		Ocean Si	prings.	Scran	ton.	Tota	ıl.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Establishments	*11 11,361	\$114,500 241,900 74,421	40	\$2, 300 2, 000 2, 955	103	\$7, 150 5, 400 10, 272	20 1,504	\$123, 95 249, 30 87, 64
Products received: Oysters barrels Shrimp do Crabs number. Terrapin do Fish pounds.	9, 304 174, 000 5, 113	888 1,977	60	40	18, 300 512 12, 000	13, 845 1, 798 70 13, 380	256, 110 9, 876 190, 800 5, 113	1,97
Products as sold: Oysters— Opened, plantsnumber Opened, selectsdo Opened, reefersdo Canned, 1-1b. cansdo Canned, 2-1b. cansdo Shells	13, 735, 000 320, 000 3, 368, 684 1, 333, 990	105, 617	890, 000 2, 810, 000				26, 880, 050 21, 382, 500 43, 353, 400 3, 308, 684 1, 333, 990 96, 000	105, 61
Shrimp— Whole	11, 250 44, 775 825 440, 304 221, 600 154, 800		60					4, 56: 17, 74: 66: 37, 86: 30, 03:
pickled	61, 200 96, 000	1		, ,	1		61, 200 96, 000	
Crabs— Whole number. Canned, 1-lb. cansdo Canned, 2-lb. cansdo Terrapindo	54,000 10,560 2,160 5,113	563 1, 540 495 2, 805	4, 800	50	12,000			73: 1,54 49:
Fish	150	375			7, 200 1, 200 9, 200 32, 500 5, 000 11, 700 4, 500 35, 100 28, 800 9, 700 108, 000	765 300 725 4, 300 250 465 930 250 351 390 1, 821 2, 400 481 5, 405	15, 300 10, 000 15, 000 84, 000 7, 200 9, 200 32, 500 11, 700 4, 500 35, 100 28, 800 9, 700 108, 000	76, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30
Value of products sold		460, 464		14, 133		50, 589		525, 18

*Equals 10,060 gallons.

^{*}One establishment at Bay St. Louis.
'In addition to this number 60 shore or boat fishermen were employed as shoresmen part of the season.
²Equals 51,500 gallons. *Equals 93,151 gallons.

FISHERIES OF LOUISIANA.

The extent of the fisheries of Louisiana in 1897, as shown by the statistics collected, does not properly represent the present condition of the fisheries of that State, owing to quarantine regulations restricting the prosecution of the fisheries during two months in the fall when shipments of all products are generally quite heavy. Notwithstanding this fact the yield in 1897 surpasses any previous year for which we have any record, the value being \$713,587, against \$681,284 in 1890 and \$392,610 in 1880. Had the trade not been restricted by quarantine the value of the product in 1897 would doubtless have approached \$900,000.

There are three principal fisheries of Louisiana, viz, the oyster fishery, valued in 1897 at \$432,668, which is centered about New Orleans, Houma, and Morgan City; the seine fishery for shrimp and for trout, red-fish or channel bass, sheepshead, etc., the yield of which in 1897 was sold by fishermen for \$173,454; and the trot-line fishery for cat-fish, yielding a product valued at \$46,682. The remaining \$60,783 worth of products consisted of alligator hides, \$22,096; crabs, \$12,891; terrapin, \$4,032; craw-fish, \$3,113, and a miscellaneous lot of fish caught by a variety of minor apparatus, such as fyke nets, lines, dip nets, etc.

The oyster industry of Louisiana is the most valuable on the United States coast south of Virginia, the yield in 1897 amounting to 959,190 bushels, worth \$432,668 at first hands. Were it not for the quarantine in the fall of 1897 the Louisiana oyster product during that year would doubtless have been 15 to 20 per cent greater.

The oyster reefs extend almost continuously along the southern coast, from the border of the State of Mississippi to the mouth of the Atchafalaya River, and are most abundant in Plaquemines, Terrebonne, Lafourche, St. Bernard, and Jefferson parishes. West of the Atchafalaya River there are a few oyster reefs in Cote Blanche Bay, Marsh Island Pass, and Cameron Pass, but they are only slightly developed and may be entirely omitted in a consideration of the present oyster industry of the State. In general the Louisiana oysters compare favorably with any on the Gulf coast.

There are three centers in the oyster trade of Louisiana, viz, New Orleans, Houma, and Morgan City. The New Orleans trade amounts to about 200,000 barrels annually, of which about 75,000 barrels are received at the Old Basin from Mississippi Sound and the Louisiana marshes east of the Mississippi River, 100,000 barrels at the French Market lugger landing from Bayou Cook, Barataria Bay, Jacks Camp, etc., and the remainder by steamer and rail from the waters of Plaque-Iniues and Jefferson parishes. Nearly all are consumed locally, very few oysters being shipped to outside points.

The oyster reefs on the east side of the Mississippi River, known as the Louisiana Marsh reefs, are utilized by fishermen from Mississippi as well as Louisiana. These reefs are frequently injured by fresh water from the rivers, and the oysters are not usually so valuable as those from the west side of the Mississippi River. In 1897 there were from Louisiana 34 sailboats, worth \$14,640, with 123 men, engaged in taking oysters from these reefs for the New Orleans market, and their catch, amounting to 55,860 barrels, was landed at Old Basin and sold for \$40,027. These men live mainly in New Orleans, and the oysters are carried from the reefs directly to the New Orleans market.

In Plaquemines Parish, on the east side of the Mississippi River, there is an extensive oyster-planting industry. The locality in which this is carried on is known generally as Salt Works, and includes Yankee Bayou, Scobels Bay, Bokeskie Bayou, Quarantine Bay, Whale Bay, etc. In that vicinity there are 65 camps with 186 oystermen, using 102 sailboats, worth \$22,780. They obtain oysters from Louisiana marshes and from the reefs west of the Mississippi River, and bed them on grounds preempted in accordance with the State law. After remaining 6 or 8 months or longer these oysters are taken up and sold in New Orleans. In 1897 the sales from the Salt Works amounted to 34,152 barrels, for which the oystermen received \$52,980. Most of these oysters are delivered at the French Market lugger landing in New Orleans.

The finest oysters in Louisiana are from the Bayou Cook section. under that name being included nearly all the waters of the western half of Plaquemines Parish, and especially Bayou Chute, Grand Bayou. Bay Adam, Bayou Fontenal, Bayou des Huitres, and the adjacent bayous. These oysters are the result of the most careful system of individual ostreiculture along the Gulf coast. The natural reefs in the Bayou Cook section were exhausted about thirty years ago, and the colony of Austrians settled there have since depended on gathering oysters in Lake Barre, Timbalier Bay, and other waters of southern Louisiana during the spring and planting them in Bayou Cook and the adjacent waters, where they remain until the following season, acquiring in the meantime the peculiar flavor which distinguishes the oysters from that locality. The oystermen of Bayou Cook are among the most enterprising and painstaking of the fishermen on the Gulf coast, and there is no class along that coast better equipped for their work or more successful in its prosecution. They live in small camps adjacent to their bedding-grounds, these camps being constructed of boards or palmettoes raised 10 or 15 feet above the marsh. In 1897 there were 302 persons engaged in the Bayou Cook oyster industry, living in 86 camps, and using 122 sailboats worth \$33,675, and 244 rowboats worth \$10 or \$12 each. The oysters marketed during that season amounted to 62,184 barrels, for which \$110,627 was received.

The waters of Jefferson Parish produced large quantities of oysters prior to 1893, but the severe storm in September of that year destroyed most of the reefs as well as the greater portion of the boats and apparatus for carrying on the fisheries. The oysters being situated in shoal water were washed in windrows and covered up by sand. These reefs are gradually recovering from the effect of that storm, but most of the

present oystermen of Jefferson Parish work on the reefs in Lafourche and Terrebonne parishes.

Between the Lafourche and the Atchafalaya rivers in the southern part of Lafourche and Terrebonne parishes are located the principal oyster reefs of Louisiana, and from them are drawn the supplies for Houma and Morgan City and much of those for New Orleans, as well as the oysters for bedding at Bayou Cook. These reefs are situated in Lake Barre, Timbalier Bay.

The market for these oysters prior to 1880 was New Orleans, together with a small consumption in the villages and settlements near the reefs: but in 1880 the wholesale trade was started at Morgan City and ten years later several shucking houses were established at Houma for shipping oysters to distant points. The trade has fluctuated considerably from year to year, but has gradually increased. Although the trade in 1897 was much less than usual, on account of the quarantine regulations, yet this section of Louisiana furnished 230,380 barrels of oysters, for which the fishermen received \$228,164. Of this quantity 84,468 barrels were marketed at Houma, 95,834 barrels at Morgan City, and 50,078 barrels were consumed in New Orleans and in the settlements adjacent to the reefs. In addition thereto there were about 100,000 barrels of oysters taken for bedding in Terrebonne, Lafourche, Jefferson, and Plaquemines parishes, which are not included in the tables. The number of persons engaged in tonging and transporting these oysters to market was 1,012, using 646 sailboats, worth \$85,716, and a large number of skiffs, worth from \$8 to \$20 each. A number of areas have been preempted in Terrebonne and Lafourche parishes, and some attention has been given during the last year or two to oyster-culture in this section, but the yield from private grounds was inconsiderable in 1897. It is customary for the oystermen to bed the oysters taken at the beginning of the season and before the market houses have opened, but these oysters are usually taken up when the market demand is good.

As used in this connection, a barrel signifies a flour barrel with capacity for 24 bushels of oysters, and not the local measurement. no place on the Louisiana coast is a standard measure used in handling oysters. At the French Market in New Orleans a basket of uniform size is used, and in filling it the oysters are heaped up to a point as long as any will remain on and the contents of two of these baskets is considered a barrel, although it is equivalent to only about 85 per cent of a standard barrel. At the Old Basin until quite recently a shallow box was used, this being filled up to a point as in case of the baskets at the French Market and the contents of four of these boxes is considered a barrel, although it is equivalent to only 90 per cent of a barrel. At Morgan City and Houma measurements are made with baskets of uniform size, three of which are supposed to make a barrelful; but at the reefs these are usually heaped, whereas at the markets they are filled even with the rim, and the gain in number of barrels is considerable, amounting usually to 50 per cent of the reef measurement.

Compared with 1890 there has been a very large decrease in the seine fishery of Louisiana, the number of seines used decreasing from 168 worth \$14,600 in 1890 to 136 worth \$12,211 in 1897, the catch for the former year being 10,576,833 pounds valued at \$243,528 and for the latter year 6,554,749 pounds, for which the fishermen received \$173,454. The decrease is most noticeable in the yield of shrimp, buffalo-fish and eat-fish, the shrimp falling off from 6,662,050 pounds worth \$90,519 in 1890 to 4,402,626 pounds for which the fishermen received \$78,792; the buffalo-fish seine catch decreased from 1,030,250 to 147,200 pounds and the cat-fish yield from 653,925 to 144,900 pounds. The large decrease in the yield of the last two species was due mainly to an interdiction of seine fishing in the lakes; but the general decrease in the seine fishery is due largely to the results of the severe storm in September of 1893, which drowned many seine fishermen and destroyed much of the property of the survivors.

With the exception of the Manila fishermen employed by the Chinese shrimp-driers in the Barataria region, and of several seine crews at Morgan City, practically all the seine fishery of Louisiana is tributary to New Orleans, and there are three branches of the fishery tributary to that city, viz, Lake Pontchartrain, the St. Bernard or Shell Beach, and the Barataria Bay seine fishery. In 1897 the first comprised 16 sail boats with an equal number of seines and 94 men, who made their headquarters at Bayou Bridge, and who landed 829,759 pounds of fish, consisting principally of red-fish, trout, sheepshead, and croakers, valued at \$38,384, and also of 51 crews of 106 men using 51 seines worth \$1,401, which were operated from various points along the shore of Lake Pontchartrain, catching 368,360 pounds of fish worth \$16,490.

The St. Bernard seine fishery gave employment in 1897 to 85 men using 17 seines worth \$1,870, which yielded 325,060 pounds of fish worth \$14,334, made up principally of trout, sheepshead, redfish or channel bass, shrimp, and croakers. Each of the St. Bernard seining crews usually operates from a sail vessel, but the catch is generally sent to market by the Shell Beach Railroad or by wagons.

The Barataria seine fishery gave employment in 1897 to 412 men, using 79 boats worth \$23,840, and 40 seines, 6,270 fathoms in length, and valued at \$6,765. Their catch consisted of 4,286,626 pounds of shrimp, for which they received \$76,223, and 494,965 pounds of other species, consisting principally of trout, red-fish, channel bass, mullet, and croakers, the whole being worth \$21,107. Included with the aforegoing are 15 crews of 196 Manilamen, Spaniards, etc., who work principally for the Chinese shrimp-driers near the head of Barataria Bay. Of the shrimp, 1,331,736 pounds were purchased by the Chinese driers, 1,142,360 by New Orleans shrimp-canners, and the remaining 1,781,530 pounds were sold at the French Market in New Orleans. Shrimp are caught throughout the year in Louisiana, but the principal season is during March and April, and through August and September.

The seine fishery prosecuted from Morgan City is of recent origin,

beginning in 1896, and was of small extent in 1897, only 4 seines being used, the principal species obtained being shrimp, red-fish or channel bass, trout, etc. The prospects for developing an important seine fishery tributary to Morgan City are extremely favorable.

Although the value of the alligator yield increased slightly from 1890 to 1897, being \$21,150 in the former year and \$22,096 in the latter, the condition of that industry is far from satisfactory. For many years there has been a steady decrease in abundance of alligators, and the average size of the hides secured has diminished. Localities in which they formerly abounded are now almost exhausted, and it is only by greatly increased efforts that the product has been kept up to its present extent. The number of hides reported in 1889 was 74,240, worth \$38,185 at first hands; in 1890, 38,588, worth \$21,150, and in 1897, 41,092, for which the hunters received \$22,096. The yield of alligators in those parts of the State not covered by the present canvass is estimated at 30,000, valued at \$15,000. These alligators are secured principally by shooting, but also in various other ways, such as gaffing with a long pole when hibernating in old stump holes and the like, hooking on lines attached to bent saplings so fastened as to fly up when the alligator becomes fixed to the hook, etc.

The cat-fish fishery in Louisiana, which is the most extensive in the United States, is centered at Morgan City and Melville. The business in 1897 was seriously restricted by quarantine regulations, which prevented shipments during two months of the fall; but the catch by lines amounted to 1,950,064 pounds, for which the fishermen received The greater part of these, 979,093 pounds, worth \$24,516, were received at Morgan City, where they were dressed and shipped throughout the West. The receipts of cat-fish at Melville aggregated 456,291 pounds gross weight, worth \$10,496; and 121,670 pounds of cat-fish, worth \$2,836, were received at Plaquemine. The two last-named ports also received 148,273 pounds of buffalo-fish and 18,120 pounds of cat-fish and drum, which were caught in fyke nets. These fisheries were carried on by 828 woodsmen living in the St. Mary, Assumption, Iberia, Iberville, St. Landry, St. Martin, Pointe Coupee, and Avoyelles parishes, and who engaged in fishing, alligator hunting, gathering moss, and the like. In taking cat-fish they use both trot lines and single lines, the latter being employed during high water, the lines being tied to tree trunks and bushes in the swamps, whereas the trot lines are strung out in the lakes and bayous.

The aggregate weight of crabs taken in Louisiana is considerable, amounting in 1897 to 4,376,500 in number, equivalent to about 1,458,833 pounds. These are caught by long lines in brackish waters adjacent to New Orleans, and especially in Jefferson, Orleans, and St. Bernard parishes. Owing to the expense attendant upon marketing the crabs the fishermen obtain very small returns, sometimes receiving only 5 cents for a basket containing 5 dozen crabs, and the total receipts from this source in 1897 were only \$12,891.

Some little attention is given to soft crabs in the vicinity of New Orleans, but this is confined principally to searching for them in the shoal water. On account of the high price at which they sell during the winter and early spring it seems probable that a profitable business could be built up in obtaining soft crabs after the manner practiced in Maryland and North Carolina.

The minor fisheries of Louisiana are of very little consequence and scarcely rank as industries. In the various localities a few hand lines, dip nets, crawfish pots, and the like are used at odd times and the surplus above home wants is sold in the vicinity. The total extent of these fisheries as well as of those mentioned before is presented in the following series of tables, showing the number of persons engaged, the boats, apparatus, etc., employed, and the quantity and value of the products of the fisheries of Louisiana in 1897.

Persons employed.

How engaged.	No.
On vessels fishing. On vessels transporting. In shore or boat fisheries.	80 63 3, 576 684
Total	4, 403

Table of apparatus and capital.

Items.	No.	Value.	Items.	No.	Value.
Vessels fishing	198. 57 30 197. 23	17, 095	Lines	1,563	\$12, 156 940 2, 538 7, 971 7, 615 173, 903 69, 000

Table of products.

Species.	Lba.	Value.	Species.	Lbs.	Value.
Black bass Blue-fish Buffalo-fish Cat-fish Cat-fish Croakers Drum, fresh-water Drum, salt-water Flounders Hog-fish Mullet Porch Pompano Sheepshead Shoemaker	320 3, 960 311, 093 2, 153, 134 465, 200 18, 000 328, 775 7, 250 18, 570 9, 625 125 165, 819 11, 050 17, 665 238, 010	\$26 132 4,768 51,420 20,529 690 16,980 74 540 654 5,871 1,891 12,500 346	Alligator hides	22, 880 119, 780 586, 048 66, 550 16, 714, 230 4, 480, 726 21, 458, 833 84, 950 41, 680	\$128 5, 132 1, 449 3, 789 26, 500 3, 583 432, 668 80, 576 12, 801 3, 113 4, 149 22, 090

¹ Represents 383,076 barrels or 959,190 bushels.

² Represents 4,376,500 in number.

³ Represents 41,092 in number.

The fishermen of Louisiana are largely of foreign birth, and in a majority of cases have little attachment to the places where they camp. moving from place to place according to the productiveness of the fisheries in the various localities. For this reason it is extremely difficult to report the extent of the fisheries of each parish or county separately, but for the purpose of securing uniformity in presenting the figures for all the Gulf States, the following five tables are arranged to show by parishes the number of persons employed, the quantity and value of boats, apparatus, etc., and the weight and value of the product. The last two tables are intended to represent the yield in the vessel fisheries and in the shore fisheries separately. It must not be understood, however, that there is any difference in the so-called "vessel fisheries" and the shore or boat fisheries of this State, for their characteristics are identical, and there is probably no sail craft employed in the fisheries of Louisiana large enough to be listed at the custom-house if measured according to the present regulations.

Table showing the number of persons employed in the fisheries of Louisiana in 1897.

Parishes or countles.	On ves- sels fishing.	On ves- sels trans- porting.	Shore or boat flah- ermen.	Shores- men.	Total.
Calcasieu			8		8
Cameron Jefferson		4	422 362	24	450 364
LafourcheOrleans	18		415	370	803 494
Plaquemines			158		158 140
St. Charles				15	32 357
St. Landry 1	87	47	576	161	821 34
St. Tammany	}		26		26
Terrebonne	23	12	555 5	114	70 4 5
Total		63	3, 576	684	4, 403

¹ Includes the parishes Pointe Coupée, Iberville, Avoyelles, and a portion of St. Martin. ² Includes the parishes of Assumption, Iberia, and portions of Iberville and St. Martin.

Table showing by counties the vessels, boats, and apparatus employed in the fisheries of Louisiana in 1897.

	Cal	casieu.	Car	neron.	Jeti	erson.	Lafo	urche.	Orl	eans.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing							1 5 72	\$400	28. 78	\$1,935
Tounage							5.73	100	20. 10	1,060
Vessels transporting Tonnage					12. 20	\$700				
Outfit. Boats fishing		\$225		\$260	180	200 24, 432	227	21, 455	231	27, 405
Boats transporting					3	825				
Seines							2	12	18	90
Apparatus—shore fisheries: Seines	1				34	5, 200	11	1,770	46	2,210 742
Minor apparatusLines	. (45		40		485 640		 		120 615
Tongs	. (75	5	25 20	53	165 24, 160	292	1,465 5,500	123	95, 100
Cash capital			<u> </u>		ļ <u></u> -	5,500				80,000
Total	.	345		. 345		62, 307	}	30, 702		159, 277

Table showing by counties the ressels, hoats, and apparatus employed in the fisheries of Louisiana in 1897—Continued.

Thomas	Plaqu	emines.	St. B	ernard.		hn B a p- ist.	. St. C	harles.	St. I	Landry
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value
Boats fishing	674	\$61, 810	151	\$2,415	108	\$1,684	30	\$540	355 14	\$3, 240 5, 665
Apparatus—shore fisheries: Seines			17	1, 870	4	195	9	310	188	940
Minor apparatus Lines		83					: ;			1, 536
Shore and accessory prop-	 	13, 150	į	260		300		150		5,813 4,300
Cash capital	i			5, 351		2, 572	<u></u>	1, 195		;-
	St.	Mary.	St. Ta	minany.	Tang	ipahoa.	Terre	bonno.	Vor	milion.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value
Vessels fishing	16 98. 56	\$7, 260		 		:	65. 50			
Ontfit	22 148. 21	1, 685 14, 745		 	l. .	 .	6	1, 100 1, 650		
*Outfit	539	4, 800 11, 368	23	\$805	20	\$455		34, 895	4	\$12
Seines Tongs Apparatus—shore fisheries:	1 33	55 165		 			23	117		
Seines	2	136 50 4, 970	3	110 67 48	2	80 38 22	7	275 70		40
Tongs	64	320		100		60	537	2, 685 12, 450	[
erty		16, 765 19, 500				<u></u>		9, 700		-
Total		81, 819		1, 130		655	ļ	68, 953		16

Items.	No.	Value.	Itoms.	No.	Value.
Vessels fishing Tonnage Outfit Vessels transporting. Tonnage Outfit Boats fishing Boats fishing Apparatus—vessel fisheries: Seines. Tongs	30 197. 23 3, 008 17	17, 095	Apparatus—shore fisheries: Seines	1,563	\$12, 15 94 2, 53 7, 97 7, 61 173, 90 69, 00

Table showing by counties and species the yield of the fisheries of Louisiana in 1897.

ı	Calca	sieu.	Came	eron.	Jeffer	son.	Lafour	che.	Orlean	18.
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	1	Value.	Lbs.	Value.
									320	\$26
Black bass									3,460	112
Blue-fish			• • • • • • • •		7, 400	\$148	28, 900	\$578	27,090	514
Buffalo-fish			4,000	\$120	149, 600	3, 220		384	59,420	1,627
Cat-fish	30, 850	\$562	4,000	4120	110,000	1 0, 200	į			
Channel bass or		1			54, 125	2, 585	22, 030	1,080	266,705	11,745
red-fish									18,000	690
Crevalle					29,820	1, 347	5,400	221	154,915	7, 743 420
Draw colt water				I. .		. .			16,170 5,325	399
Drum, salt-water. Flounders Mullet. Perch Pompano Sheepshead Shoomaker Sjiver perch Spanish mackerel Striped bass Sun-fishes Trout. Other tish					1	.	00 005	1,567	12,274	400
Mullet					92, 560		38, 685	1,507	12,214	400
Perch			2, 800	84	2,650	78			17,100	1,805
Рошрапо	<i></i>					699	1,960	126	127,735	6, 390
Sheepshead					12,000	088	1,500		9,600	346
Shoemaker			• • • • • • •				1		2,870	110
Silver perch		!	• • • • • • • •		3, 260	326	950	95	2,870 47,710	4,320
Spanish mackerel	¦	,	<i></i>	¦	720				4,340	277
Striped base		[<u>-</u>	02 750	519	7, 170				45,630	1,341
Sun-fishes	ļ ·	••••	20, 130	312	157, 795		56, 590	2,862	175,215	7,432
Trout	· • • • • • •		•	1	17, 200	951	7, 200	294	13,500	755
Trout. Other fish Oysters. Shrimp. Crabs. Craw-fish Terrapins Turtles. Alligators	· · · · · · · · ·		19, 250	870	186,900	10, 142	882, 910	49,601	1,076,425	44, 358
Oystors	i · · · · · · · · · · ·		10, 200		3, 328, 460	54, 837	928, 160	21, 386	24,100	584
Surimp		·¦			975,067	6, 179			320,000	4, 120 913
Change Aub					. 20,500	670			21,350	813
Tarranius					. 1, 375	58			2,600	61
Turtles	1				.¦ 6,850	177			2,000	
Alligators					.	. 4, 257		0,245		
	00.050	582	54 800	1 586	5. 053, 459	96, 628	1, 985, 585	83, 437	2,451,854	96, 494
Total	30, 850	582	34, 800	1, 550	0,000,10			<u></u>	<u></u>	<u> </u>
	Plan	emines.		Bernard	1. St. (harles.	St. John	Baptist.	St. La	ndry.
Species.			_		- 	1,,	T. b	Value.	Lbs.	Value.
эрслов.	Lbs.	Value	. Lbs	. Val	ue. Lbs	. Valu	e. Lbs.	· aiue.		
					OD 5	50 \$48	0 37,000	\$740	148, 273	\$1,583
Buffalo-fish	. 11,00								588, 831	13,586
Cat-fish		0 2,47	2 49, 7	00 1,0	66 47,5	00 1,01	4 01, 100	1, 102	1 555,	1
Channel bass or		- 1	_		90 1,0	00 5	5 300	21		
red-flsh		00 2	0 44,3	60 2, 2 00 1, 1						
Croakers			4 36,0	W 1, 1	.52 10, 4				. 7, 250	74
Drum, fresh wate	r		2, 4	00 1	20					.
Drum, salt-water Flounders	` - 		4,0		240					
Mullet		•	11,5		60 5, 2	00 19	8 3,650	138		•
Perch			5,6	00 2	38					
Pormana	-		5	00	60				-	
Shownshood	2.0	0 1	2 59, 1	80 3,5	94 3,8		37 4,300	314		• •••••
Pompano	j'		3,6	50 3			12	117	1	
Striped bess			14, 9	100			32 1,600 78 6,250	417		
Striped bass Sun-fishes	1,1		3 13, 7	(00 4	137 4, 7 273 10, 5	30 2	78 6, 250 28 12, 920	1 804	·	
Trout	3,0	00 3	5 78, 2		273 10, 5 360 3, 8	00 0	08 4,600			
OAL O. L			12, 8	100	5,6		2,000			
Oysters	.,1,685,8	80 163, 60	17	000	140					
Oysters Shrimp	. 36,0	00 74	10 52, 0	200 5	140		9,000	138		
				300	80 15,0	00 5	10 18,500) 640		
Craw-fieh					137		3, 200) 74		
Turtles					;		107 04	7, 346	744, 354	15, 24
		80 167, 4	23 541,6	850 19.	860 134, 5	370 4.9	47 187, 049	, 1,3 <u>4</u> 0	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 20, 22

Table showing by counties and species the yield of the fisheries of Louisiana in 1897-Cont'd.

	St. M	ary.	St. Tan	amany.	Tangi	pahoa.	Terrel	onne.	Verm	illion.
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value
Blue-fish	500	\$20	Ì	ĺ				·		:
Buffelo-fish	4, 620	118	2, 960	\$59	4, 100	\$84	10, 00u	\$140		
Cat-fish	979, 093	24, 516	18, 280	602	9,910	301			22,400	8448
Channel bass or	,		,		.,				J., 200	, ,
red-fish	35,900	1,413	1,870	140	Í	1	34,910	1, 160		
Croakers		155	20,990	1,669	12,040	715	10,610	364		
Flounders			300	15						
Hog-fish	75	3					50	2		
Mullet		21	300	12			600	12		
Pompano		26						1		
Sheepshead	8, 520	341	2, 600	198	1,455	99	14, 900	466		
Silver perch		l	_, 555			1	145	18		
Spanish mackerel	75	3						5		
Striped bass		i	920	70						
Sun-fishes	1, 800	36	2,760	174	1,790	99	1, 250	25	4,800	144
Trout	23, 860	948	5, 020	355	4, 785	326	38, 693	1, 208	1,000	
Other fish	20,000	1	4, 250	249	3, 200	170	00,000	1,200		
Ovsters	389, 585	22, 712	2,200	-10	0,200		2, 473, 380	141, 378		,
Shrimp		1, 136			• • • • • • •		60, 200	753		
Craba	0.,000	1,100	16, 533	240	5, 333	74	00, 200	100	• • • • • • • •	1
l'errapins	14, 757	2, 123	10,000	[210	0,000		25, 548	1,968		
l'urtles	14, 101	2,120	3, 200	84	1,800	44	125	1,503	·····	
Alligators		5, 816						6, 780		
Total	1,521,580	59, 387	79, 983	3, 867	44, 413	1,912	2, 670, 471	154, 283	27, 200	593

Species.	Lbs.	Value.	Species.	Lbs.	Value.
Black bass	320	\$26	Silver perch	3, 015	\$12
Blue-fish	3, 960	132	Spanish mackerel	55, 805	5, 13
Buffalo-fish	311, 093	4,768	Striped bass		1, 44
Cat-fish	2, 153, 134 465, 200	51, 420	Sun-fishes		3, 78
		20, 529 690	Trout		26, 50
Crevalle	18, 000		Other fish	66, 550	3, 58
Croakers	328, 775	16, 980	Oysters		432, 66
Drum, fresh-water	7, 250	74	Shrimp	4, 486, 726	80, 570
Drum, salt-water	18, 570	540	Crabe	1,458,833	12, 89
Flounders	9, 625	654	Craw fish		3, 113
Hog-fish	125	5 (Terrapins	41,680	4, 149
Mullet	165, 819	5, 871	Turtlés	22, 395	58
Perch	11, 050	500	Alligator		22, 09
Pompano	17, 665	1.891	G		
Sheepshead	238, 010	12, 506	Total	17, 401, 788	713. 58
Shoemaker	9,600	346			

Table showing by counties, apparatus, and species the yield of the vessel fisheries of Louisiana in 1897.

Apparatus and	Lafor	ırche.	Orle	ans.	St. Y	fary.	Terret	onne.	Total.	
species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines: Channel bass or										
red-fish		l	. 		6, 150	\$246			6. 150	\$246
Croakers					180	7			180	7
Mullet					150	3			150	3
Sheepshead					1,120	45		• • • • • • • •	1,120	45
Trout					4,060	162		•••••	4,060	162
Shrimp	•••••				1,800	86		• • • • • • • • • • • • • • • • • • • •	1,800	36
Total					13, 460	499			13, 460	499
Torgs:				====						
Oysters	11,060	\$627	98, 875	\$4 , 331	119, 910	6, 852	93, 030	\$5, 316	322, 875	17, 126
Grand total	11,060	627	98, 875	4, 331	133, 370	7, 351	93, 030	5, 316	336, 335	17, 625

Table showing by counties, apparatus, and species the yield of the shore fisheries of Louisiana in 1897.

Apparatus and	Calca	sieu.	Came	oron.	Jeffer	son.	Lafour	che.	Orlea	па.
species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value,
Seines:					1				200	400
Black bass									320 3,460	\$26 112
Blue-fish Buffalo-fish Cat-fish	. 		[• • • • • • •	7,400	\$148	28, 900	\$578	27, 090	514
Cot flob •					9,000	240	12, 800	384	40, 120	1,003
red-fish	 .				54, 125	2, 585	22, 030	1,080	266, 585	11, 736
Crevalle									18,000	690
Croakers	• • • • • • • • • • • • • • • • • • •	·			2 6 , 020	1, 224	5, 400	221	127, 415 16, 170	6, 593 420
Croakers Drum, salt-water Flounders Mullet	· • • • • • • •	¦	• • • • • • • •	· • • • • • •		``····		•••••	5, 825	399
Manual Ma		·			88, 360	2,924	38,685	1.567	7, 124	218
Pompano	• • • • • • • • • • • • • • • • • • • •				00,000	2,022			17, 100	1,805
Pompano Sheepshead Shoemaker Sliver perch Spanish mackerel Striped bass Sun-fishes				l	8, 900	491	1,960	126	123, 605	8,094
Shoemaker									9,600	846
Silver perch					2 - 5 2 2 - 1				2, 870	110
Spanishmackerel					2, 460	246	950	95	44, 860 3, 440	4,014 207
Striped bass					320 1,470	21 86			48, 230	1, 213
Sun-fishes					141, 485	6, 558	56, 590	2, 862	162, 855	6, 544
Trout. Other fish Shrimp			ſ		11, 200	612	7, 200	294	9,500	520
Shrimn					3,328,466	54, 837	928, 160	21, 386		• • • • • • •
						l 	i -			-
Total					3,679,206	69, 972	1, 102, 675	28, 593	928, 169	42, 564
Minon opposited.				i]	l	ļ			
Cat-figh		 .	l		6,200	136			4,200	128
Mullet					4, 200	139	[4, 150	137
Cat-fish. Mullet Trout. Sun-fishes			.}		2,200	132			2,000 600	145
Sun-fishes			¦		1,700 2,000	87 114			2,000	36 100
Other fish	•••••				2,000	114			24, 100	584
Shrimp	·····				10,667	167			320,000	4, 120
Other fish					20, 500	670	1		21,850	913
						58				
Turtles					6,850	177			2,600	61
Turtles		.l	.	ļ		4,257		5,243		
Total					55, 692	5, 937		5, 243	381,000	6, 224
		; 	 							
Lines:		****	1 000	\$120	134, 400	2,844	[ĺ	15, 100	496
Cat-fish	30, 850	\$082	4,000	\$12U	134, 400	2,014			10,100	
rod finh		l	1	1	l				120	(9
					3,800	123			27, 500	1, 150
Mullet									1,000	45
Croakers Mullet Perch Sheepshead Spanish mackerel Striped bass Sun-fishes Trout Other fish]		. 2,800	84	2,650	78			1 300	296
Sheepshead					3,100 800	208 80			4, 130 2, 850	312
Spanish mackerel		·¦			400	28			900	70
Sun Anhan			28, 750	512	4,000	120			1,800	92
Tront					14, 110	859			10,860	748
						225			2,000	138
Crabs					964, 400	6,012	ļ			·]
	l	.!			1 101 000	10 577			66, 260	3, 848
Total	30,850	582	35, 550	716	1,181,660	10, 577			00, 200	0,040
Tongs:				1				1		1
Oysters	l		19, 250	870	186, 900	10, 142	871, 850	48, 974	977, 550	40,027
						ـــــاـ	- 		0.050.050	
Grand total	80, 850	582	54, 800	1,586	5,053,458	96, 628	1, 974, 525	82, 810	2,352,979	92, 163
	1, - /*	1	1	1	1	1	•	1	<u>.</u>	•

Table showing the yield of the shore fisheries of Louisiana in 1897-Continued.

Apparatus and	Plaquer	nines.	St. Ber	nard.	St. Cha	rles.	St. John	Baptist.	St. Lan	dry.
species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Val.	Lbs.	Value.	Lbs.	Val.
Seines: Buffalo-fish			6, 000	\$104 394	23, 750 21, 000	\$480 465	37, 000	\$740 798		
Cat-fish			17, 600 44, 360	2, 290	1,000	75	31, 000	21		•••••
Croakers			29,500 2,400 4,000	892 120 240	14,050	783	28, 570	2, 165	•	•••••
Mullet		• • • • • • • • • • • • • • • • • • • •	9, 000 5, 600	360 338	2,000	70	2,000	80		
Pompano			53. UUU	3, 220 200	1, 200 100	84 12	1, 500	90	 	
Striped bass Sun-fishes			10,700	644 372	400 2, 400	32 144	1,000 4,250	75 297 168		
Trout Other fish Shrimp			68, 000 8, 000 52, 000	3, 560 400 1, 140	4, 160 2, 000	318 100	2, 180 2, 000	140		•••••
Total			325, 060	14, 334	72, 060	2, 563	109, 800	4, 574		
Fyke nets: Buffalo-fish						,.			148, 273	\$1, 583 254
Cat-fish Drum, frosh-water.									10, 870 7, 250	74
Total			<u></u>	====					166, 893	1,911
Minor apparatus: Buffalo-fish Cat-fish Channel bass or	11, 000 2, 000	\$220 40	8, 100	162	2, 500	54	7, 400	210		
red-fish Croakers Mullet	4,000 2,000	20 100	2,500	100	2,000	80	1,650	58		
Striped bass			2,000 1,000	100 50	1,000	50 90	2,000	120		
Trout Other fish Shrimp			1,800	90	1,500 1,000	60	1, 200 1, 400	66 80		
CrabsCraw-fishTurtles			132, 900 9, 600 4, 620	2, 140 389 137	15,000	510	9,000 18,500 3,200	138 640 74		
Total	55,000	1, 120	162, 520	3, 159	23, 000	844	44, 350	1, 386		
Lines:	121, 600	2, 432	24, 000	510	24,000	495	18, 750	474	577, 961	18, 332
Croakers	5, 100 2, 000	204	6, 500	260 374	5, 400 1, 200 2, 160	362 48 183	2,800	224		
Spanish mackerel Striped bass			1, 650 2, 200	1 6 5 160		- -	600	42		
Sun-fishes Trout Other fish	1, 100 3, 000	33 15	300 10, 240 3, 000	15 713 170	1, 380 4, 870 800	320 48	9, 540 1, 200	570 76		
Total	132, 800	2, 696	54, 070	2, 367	39, 810	1, 540	32, 890	1, 386	577, 961	13, 332
Tongs: Oysters	1, 685, 880	163, 607								
Grand total	1, 873, 680	167, 423	541, 650	19, 860	134, 870	4, 947	187, 040	7, 346	744, 354	15, 248

Table showing the yield of the shore fisheries of Louisiana in 1897—Continued.

A and the second of	St. M	ary.	St. Tam	many.	Tangil	ahoa.	Terreb	onne.	Vermi	lion.
Apparatus and is species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Val.
Seines:		·	ĺ	ĺ		' '	. :	ĺ		
Blue-fish	500	\$20			4 100	· · · · · · · · · · · · · · · · · · ·	10,000	\$140	• • • • • • • • • • • • • • • • • • • •	
Buffalo-fish	- •	[. 	2,960	\$59 258	4, 100 5, 260	\$84 158	10,000	ψ110		
Cat fish	. .		8, 120	200	3, 200	. 100				
Channel bass or	29, 750	1,167	1,870	140			34, 910	1, 160		
red-fish	3,700	148	12, 350	984	9, 865	585	10,610	364	. .	
Croakers Flounders	3, 100	140	300	15		'				
Hog-flah	75	3					50		 .	
Mullet	000	18	300	12			600	12		
Pompano	65	26	. 	'٠٠٠٠ <u>٠</u> ٠٠'					' 	; -
Sheepshead	7, 400	296	800	62	615	47		18		
Silver perch	 .	ļ					145	10		
Spanish mack-				'		ļ	60	5	I .	l
erel	75	3		70						
Striped bass			920 1,610	70 104	1, 370	78	1, 250	25		
Sun-fishes	1,800	36		67	500	25	38, 693	1,208		
Trout	19,800	786	2,000	110	1,600	90				
Other fish	32,000	640		l .			60, 200		l. 	
Shrimp		21					1,068		I	
Terrapins	140	J .		l	ļ		125	4	j	
Turnes					<u> </u>	·{				
Total	96, 208	3,164	32, 190	1,871	23, 310	1,067	172, 611	4, 253		• • • • • • •
211002	=-:			===	===	:\- = 				=====
Minor apparatus:		1			800	100	: 	I	i	I
Cat-fish	[<i></i>	·{• • • • • • • •	1, 100	32	300	17			1	1.
Tront		.,	500 600		420	21				
Sun-figher		. i	750		600	30			1	
Other fish	24,000	460	130			ì			ì	
Shrimp	24,000		16, 533	240	5, 333	74	24, 480	; ,• • • • • • •		
Crabs	14 614	2, 102	10,000				24, 480	1,872		j
Terrapins	14,014	2,100	3, 200	84	1,800	1 44				
Turtles		5,816	1	·	·	.¦	1	6,780	ļ	.¦
Amgator made		J			ļ	-!			<u> </u>	·
Total	38, 614	8, 378	22, 683	i 468			24,480	8,652		
		تعتم معت ازد	·		عت صدر			,	1-1-	1
Lines:	1	i	1		i	1 '				
Buffalo-fish	4,620	118	1	910	3,850	1 191			1 22, 400	\$44
Cat fish	979, 093	24, 516	9,060		2,175					
Croskers			8,640 1,800	136	2, 840	1			· · · · · · · · · · · · · · · · · · ·	
Sheepshead	1		3,560	268	3, 985					
Trout	· · · · · · · · · · · · · · · · · · ·		550		1		. İ. .		. 4,800	
Other fish	1	1	1,500		1,000	50	j		.	
Other had			-		-' -	-:	-!	·		
Total	083, 713	24, 634	25, 110	1,528	11,850		[59
733	===	کا محمد اید	1	1		1	1		1	J
Tongs:	0.00 075	15,860	i	.!			. 2,380,350	136,062		
Oysters	269, 675	10,600	2/	= ====			عند : عند اه		=!====	
Grand total	200 014	59 026	79, 983			1.912	2,577,441	148, 967	27, 200	59

Table showing the yield of the shore fisheries of Louisiana in 1897—Continued.

SUMMARY.

Apparatus and species.	Lbs.	Value.	Apparatus and species.	Lbs.	Value.
Seines:			Minor apparatus:		
Black bass	320	\$26	Buffalo-fish	11,000	\$220
Blue-fish	3, 960	132	Cat-fish	32, 300	784
Buffalo-fish	147, 200	2, 847	Channel bass or red-fish	4,000	20
Cat-fieh		3,700	Croakers		100
Channel bass or red-fish	454, 930	20, 254	Mullet	14, 500	514
Crevalle	18,000	690	Striped bass		100
Croakers	267, 480	13, 959	Sun-flehes	7, 320	401
Drum, salt-water		540	Trout		480
Flounders	9, 625	654	Other fish	9, 550	519
Hog-fish	125	5	Shrimp.		1,784
Mullet	148, 969	5, 261			
Perch	5, 600	338	Crabs	284, 933	6, 879
	17, 665	1, 891			3, 113
Pompano Sheepshead			Terrapins	40, 469	4,032
Sheepsnesd	213, 880	10, 976	Turtles	22, 270	577
Shoemaker	9, 600	346	'Alligator hides		22, 096
Silver perch	8, 015	128			
Spanish mackerel	50, 505	4, 575	Total	816, 592	41, 619
Striped bass	16,780	1,049	l		
Sun fishes	69, 780	2, 355	Lines:		
Trout	494, 723	22, 086	Buffalo fish	4, 620	118
Other fish	43, 500	2, 266	Cat-fish	1,965,064	46, 682
Shrimp	4, 400, 826	78, 756	Channel bass or red-fish.	120	9
Terrapins	1, 211	117	Croakers	59, 115	2, 914
Turtles	125	4	Mullet	2, 200	93
• *			Perch	5,450	162
Total	6, 541, 289	172, 955	Sheepshead	23, 010	1, 485
			Spanish mackerel	5,300	557
Fyke nets:		1	Striped bass	4, 100	300
Buffalo-fish	148, 273	1,583	Sun-fishes	42, 680	1,033
Cat-fish	10, 870	254	Trout	60, 165	3,772
Drum, fresh-water	7, 250	74	Other fish	13, 500	798
		'	Crabs	964, 400	6, 012
Total	166, 393	1, 911	Total		<u>_</u>
Tongs:			Total	8, 149, 724	6 3, 935
Oysters	6, 391, 455	415, 542	Grand total	17, 065, 453	695, 962

Only about one-third of the fishery products of Louisiana enter into the wholesale trade, the remaining two-thirds being sold direct from the boats to the retail merchants and consumers. The wholesale oyster trade is centered at Morgan City and Houma. The trade in oysters at New Orleans is more extensive than at Morgan City and Houma combined, but it is almost exclusively retail and very few are shipped from that city. The trade at Morgan City originated about 1880 and at Houma in 1889. The business at the latter point fell off on account of depleted beds, but was revived in 1896. Nearly all the oysters received are opened and shipped throughout the West. The extent of the business at each point during 1897 was reduced by the quarantine regulations during October and November.

The great bulk of the shrimp caught in Louisiana are sold to the Chinese driers in the Barataria section, to the canners in New Orleans, and to the retail trade in New Orleans, only a small proportion being consumed in the fishing settlements. In the Barataria section there are three Chinese camps devoted to drying shrimp, principally for export to the Orient. This industry was begun in 1873 and although badly affected by the storm of 1893, and by serious competition with a similar business in Mexico, yet it is still in fairly prosperous condition. In 1897 these camps received 1,331,736 pounds of fresh shrimps, costing \$10,304, which yielded 142,510 pounds of dried, worth \$21,185. They

also prepared 61,147 pounds of dried fish, using 142,510 pounds of miscellaneous fresh fish, but most of the fish-drying was done by them at temporary camps on Timbalier Island.

The wholesale cat-fish trade is conducted at Morgan City, Melville, and the village of Plaquemine. The trade originated at Morgan City in 1873 and reached its maximum in 1893. The origin of the trade at Melville followed shortly after the completion of the Texas and Pacific Railroad through that place, and that at Plaquemine dates only from 1897. During the year covered by this report the gross weight of cat-fish received at Morgan City was about 842,575 pounds; at Melville, 367,402 pounds, and at Plaquemine, 70,483 pounds, in addition to which there was a small quantity of other species received at each point.

The following table shows the extent of the wholesale business at each place in 1897:

Table showing the wholesale trade in fisher	y products for Louisiana in 1897.
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Items.	Morgan City.	Houma.	Barataria section.	New Or- leans and elsewhere.	Total.
Establishments	\$11,080	\$9,450 \$9,700 114	\$20, 500 \$5, 500 24	\$71, 805 \$34, 300 199	20 \$112,840 \$69,000 498
Products received: Oysters barrels Value Shrimp pounds	\$64,000	\$84,468	1, 331, 736 \$10, 304	1, 142, 360 \$22, 847	180, 302 \$168, 507 2, 474, 096 \$33, 151
Cat fish pounds. Value Buffalo fish pounds. Value Other fish pounds.	\$42, 575 \$21, 064			\$14, 384 129, 158	1, 481, 887 \$35, 448 129, 158 \$1, 382 142, 510
Value Products as sold: Number of cysters sold opened Value Number of cans of oysters prepared	28, 897, 490 \$131, 639	33, 787, 250 \$136, 587			\$1,833 62,684,740 \$268,226 401,160
Pounds of shrimp dried. Value Value Services of shrimp prepared	, , , , , , , , , , , , , , , , , , ,		141, 413 \$21, 185	421, 264	\$20, 198 141, 418 \$21, 185 421, 264 \$59, 876
Value Pounds of cat-fishdressed wgt Value Pounds of buffalo-fishdressed wgt	577, 106 \$32, 487			437, 885 \$24, 219 88, 464 82, 678	1, 014, 991 \$56, 706 88, 464 \$2, 678
Value Pounds of other fish dried Value			04, 221		61, 147 \$2, 956

FISHERIES OF TEXAS.

The fisheries of Texas are confined almost exclusively to the coastal indentations and their estuaries. In the Gulf of Mexico very few fish are caught, the only important fishery prosecuted there being the taking of red snappers. The principal fisheries in the bays are seining and oystering, while associated with these and of less importance are the use of green turtle nets, cast nets, lines, spears, etc. The history and method of the fisheries and the fishery resources of Texas were described in considerable detail in the report of the U.S. Fish Commission for 1891, to which reference should be made.

The general condition of the fisheries in 1897 did not compare favorably with that of 1890, there being a decrease at nearly all points except Matagorda Bay and Sabine Lake. The persons employed numbered 1,277 in 1890 as against 1,199 in 1897. The value of vessels, boats, apparatus, shore property, etc., decreased from \$319,122 to \$237,496, the reduction being greatest in the case of shore property and cash capital. The value of the products in 1890 was \$313,832 against \$286,610 in 1897. In 1880 the persons employed numbered 601; the capital invested, \$42,400, and the value of the products, \$128,300. The greatest decrease in products in 1897 is noticed in the case of oysters, but nearly all the fisheries show some falling-off since 1890.

A noticeable exception to this is the yield of red snappers, of which only 4,800 pounds were obtained in 1890, whereas the product in 1897 approximated 464,791 pounds, valued at \$17,451. Prior to 1892 the red-snapper fishery was of little value in Texas, being confined to an occasional trip at odd intervals. Since then an important and profitable fishery has been developed at Galveston, the vessels making weekly trips to the banks south of that port.

The seine fishing is the most valuable and extensive fishery in Texas. The number of seines has increased from 136 in 1890 to 171 in 1897, but the yield shows a falling-off, the catch in 1890 being 3,786,100 pounds, whereas in 1897 it was 3,561,035 pounds; the value being \$157,502 in the former year and \$143,070 in the latter. The decrease in the yield of the seines is greatest in case of sheepshead, the total yield of that species in 1890 being 759,050 pounds, whereas in 1897 it was but 464,024 pounds. Trout, croakers, and several other species show considerable decrease. On the other hand, the yield of blue-fish, flounders, Spanish mackerel, and shrimp has increased.

The oyster industry shows a much greater decrease since 1890 than the seine fishery. The yield in 1890 aggregated 440,800 bushels, valued at \$127,990, whereas in 1897 it was but 355,910 bushels, worth \$94,663 at first hands. This is due to business depression in several of the coastal towns and to the failure of the principal attempts made at oyster

¹ The Coast Fisheries of Texas, by Charles H. Stevenson, Report U. S. Fish Commission for 1889-1891, pp. 373-420.

culture about 1890. The decrease is greatest in Galveston, Aransas, and Corpus Christi bays—the yield in Sabine Lake showing a considerable increase. While some experimental work at oyster culture is now in operation, practically the entire market receipts are from the public reefs. These oysters are shipped raw to the trade throughout the west and southwest and to Mexican points, none of them being steam-canned.

The green-turtle fishery has never been of great consequence on the Texas coast, yet its present extent is very much less than formerly, the decrease since 1890 being about 60 per cent. Most of the green turtle are taken by gill nets or fly nets, the percentage taken in seines being very small. Notwithstanding an increase of 10 per cent in number of nets used in 1897 over 1890, the gill-net yield in the two years decreased from 585,000 to 237,385 pounds. The scarcity of green turtle is generally attributed to the vigorous fishery prosecuted along the Mexican coast. Several green-turtle canneries were formerly operated in Texas, but they have been closed on account of the scarcity of turtles, and the product is now placed on the market fresh.

Cast nets, hand lines, spears, and crab traps constitute the minor apparatus employed, and their yield fluctuates from year to year according to the prosperity of other industries along the coast. If the other industries of the coast towns give steady employment to the laborers, the latter spend but little time in fishing with this class of apparatus.

The general extent of the fisheries of Texas in 1897 is presented in the following series of three tables, showing the number of persons engaged, the quantity and value of boats, apparatus, etc., employed, and the weight and value of the catch:

Table of persons employed.

How engaged.	No.
On vessels fishing. In shore or boat fishories. On shore, in fish-houses, etc.	175 965 59
Total	1, 199

Table of apparatus and capital.

Items.	No.	Value.	Items.	No.	Value.
Vessels fishing	686 24 22	2, 702 2, 702 115	Apparatus—shore fisheries: Seines Turtle gill nets. Cast nets Minor nets Lines. Spears Tongs and rakes. Shore and accessory property Cash capital.	158 60 285	\$15, 517 1, 254 542 20 393 52 1, 688 55, 151 30, 000 237, 40

Species.	Lbs.	Value.	Species.	Lbs.	Value.
Blue-fish Buffislo-fish Cat-fish Channel bass or red-fish Crevalle Croakers Drum Flounders Groupers Hog-fish	29, 540 12, 200 71, 230 1, 144, 376 18, 000 136, 700 50, 400 218, 025 3, 463 15, 995	\$1, 281 470 3, 035 51, 922 743 6, 007 2, 046 9, 819 84 784	Pompano. Red snapper Sheepshead Spanish mackerel Striped bass Sturgeon Trout Other fish Shrimp Crabs	464, 791 467, 504 40, 710 8, 950 22, 400 1, 011, 620 60, 500 360, 530	\$81; 17, 45; 21, 72; 1, 93; 38; 98; 45, 52; 2, 64; 7, 46; 3, 68;
Jew-fish. Mullet, fresh Mullet, salted Perch Pike	33, 281 60, 350 500 32, 150 22, 730	1, 083 2, 167 25 1, 506 989	Turtles. Terrapins Oysters Total	³ , 880 ² 2, 491, 370	6, 866 50' 94, 66: 286, 610

Table of products.

The principal localities where the Texas fisheries are prosecuted are the bays formed between the mainland and the outlying chain of islands and peninsulas, viz, Galveston, Matagorda, Aransas, Corpus Christi, and Laguna Madre; also Sabine Lake, in the extreme eastern part of the State; this, however, is an expansion of the Sabine River rather than a bay. The only important fishery prosecuted outside of these indentations is the red-snapper fishery carried on in the Gulf of Mexico from the port of Galveston.

The most important of these localities from a fishery point of view is Galveston Bay, the value of its fisheries in 1897 approximating \$102,772, whereas in 1890 it amounted to \$160,869, the decrease being greatest in the yield of oysters, the value of which in 1890 was \$72,140 and in 1897 \$36,201. The value of the yield by seines in Galveston Bay decreased from \$79,909 in 1890 to \$60,261 in 1897.

Second in importance to Galveston Bay is Corpus Christi Bay, the value of its fishery yield in 1897 being \$52,370, against \$45,625 in 1890, the increase being in the yield by seines, due to an increase in the number employed. The value of the oyster product of Corpus Christi Bay in 1890 was \$18,350, whereas in 1897 it was \$14,977. A noticeable feature of the fisheries of this bay is the large increase in the yield of shrimp, from 10,000 pounds in 1890 to 224,400 pounds in 1897.

The value of the fisheries of Matagorda Bay are only slightly less than those of Corpus Christi, amounting to \$51,328 in 1897. This is a great improvement over 1890, when the value was but \$33,693. The increase has occurred principally in the seine fishery, the value of which in 1890 amounted to \$3,593 and in 1897 to \$25,358, the number of seines used increasing in the same time from 5 to 29. The oyster yield of Matagorda Bay was 109,350 bushels, worth \$29,200 in 1890, and 95,816 bushels, valued at \$23,768, in 1897. The fishery resources of Matagorda Bay are second to none on the Texas coast, their present minor rank being due to lack of sufficient transportation facilities, although they are now very much better than in 1890. Port Lavaca is the shipping-point for the products of this bay.

Represents 424,360 in number.

² Represents 355,910 bushels.

The fisheries of Aransas Bay show a considerable falling-off since 1890, when its rank was second among the Texas bays, the value amounting to \$62,822, against \$36,236 in 1897. The decrease is most apparent in the seine fishery, the 29 seines used in 1890 yielding 1,244,100 pounds of fish, worth \$43,562; whereas in 1897 the yield in the 28 seines was but 638,636 pounds, for which the fishermen received \$26,009. The oyster yield of Aransas Bay in 1890 was 26,550 bushels, worth \$6,600, and in 1897 it was increased to 28,700 bushels, valued at \$6,872.

The fisheries of Sabine Lake have developed considerably during recent years, increasing in value from \$4,038 in 1890 to \$12,530 in 1897, due principally to the utilization of the oyster reefs at the lower end of the lake, which yielded 32,164 bushels in 1897 and many more than that in 1898. The fisheries of the lower end of Laguna Madre and of several other points on the coast are of minor importance, due to lack of suitable transportation facilities.

The following tables show in detail the extent of the fisheries of each of the above mentioned localities, the figures being presented by counties. The counties which border Galveston Bay are Galveston, Harris, and Chambers; the fisheries of Matagorda Bay are prosecuted from Matagorda and Calhoun counties, those of Aransas Bay from Aransas County, Corpus Christi Bay from Nueces County, Laguna Madre from Cameron County, and Sabine Lake from Jefferson County. The Brazoria County fisheries are prosecuted in Brazos River and in West Bay, and the red-snapper fishery of Galveston County in the Gulf of Mexico.

Table showing the number of persons employed in the fisheries of Texas in 1897.

Counties.	On ves- sels fish- ing.	Boat or shore fisher- men.	Shores- men.	Total.
Aransas. Brazoria	10	173 22	7	190 22
Calhoun	36	92 27 19	17 2	145 20 19
Chambers. Galveston. Harris	61 16	387 33	19	467 49
Jefferson Matagorda Nueces	17 35	48 22 142	14	48 80 191
Total	175	965	59	1, 109

Table showing by counties the ressels, boats, and apparatus employed in the fisheries of Texas in 1897.

	Ara	nsas.	Bra	zoria.	Cal	houn.	Car	neron.	Cha	mbers.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Vessels fishing	3	\$1,900			10					
Tonnage	23, 25		• • • • • •	• • • • • • • • • • • • • • • • • • •	81.10		·			· • • • • • •
Outfit	98	921 12, 855	22	\$2, 504	65	3, 126 8, 834	20	\$1,370	18	\$2,05
Boats			24	φ2, JUS		","	20	φ1, 510	16	φ2, 00
Seines	2	220			9 5			• • • • • • • •		
Turtle nets	17	85			12					
Tongs and rakes Apparatus—shore fish- eries:							_			
Seines	26	3,028	4	340	18		7	540	3	34
Turtle nets	48	270			06 24		10	24 30		· · · · · · ·
Cast nets	24	82 30		· • • • • • • • • • • • • • • • • • • •	24	82	10	70		
Lines		10						''		
Spears	22	132	12	72	16	1	6	30	9	5
property Cash capital		6, 820 9, 000		50				570		5
Total		35, 3 53	1	2, 972		44,964	 ,	2, 634		2, 51
	Galv	eston.	Ha	rris.	Jeffe	гвоц.	Mata	gorda.	Nu	есеч.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value
Vessels fishing	13 252. 35	\$16,820	5 44, 07	\$2,850			7 57. 54	\$4,420	7 50, 50	\$4, 92
TonnageOutfit	202.00	4, 894	22.01	1.665				1.801		2, 71
Boats	304	35, 617	25	2, 755	52	\$3,596	26	2,002	56	6, 32
eries: Seines Lines	2	260 148	3	365			1	112	7	80
Tongs and rakes Apparatus—shore fish-	10	60	4	24			14	84	3	į
eries: Seines Turtle nets	62	6, 470	10	956	4	510	1	100	12 84	1, 30 63
Cast nets	60	220		l					40	12
Minor nets	60	20								
Lines	. 	173				105 .				1
Spears		27	· • • • • •	. 						1
Tongs and rakes	157	942	4	24	21	126	18	108	20	12
Shore and accessory property		23, 986 2, 000		162		467 .		100		12, 10 8, 00
Total		91, 637		8, 801		4,801		8, 727		85, 09

Items.	No.	Value.	I teme.	No.	Value.
Vessels fishing	508.81	\$36, 565 15, 119 77, 911	Apparatus—shore fisheries: Soines	147 204 158 60	\$15, 51 1, 25 54 2
Apparatus—vessel fisheries: Seines		2, 762 115 148 255	Lines Spears Tongs and rakes Shore and accessory property Cash capital Total	285	39 5 1, 68 55, 15 30, 00 237, 49

Table showing by counties and species the yield of the fisheries of Texas in 1897.

	Aran	sas.	Brazo	ria.	Calhe	oun.	Come	ron.	Cham	bers.
Species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Blue-fish	9, 300	\$380	400	\$20	6, 400	\$265	2,000	\$70	250	\$14
Uat-fish	11,000 239,616	495 9, 849	14,000	630	228, 210	9, 574	21,000 35,240	1,050	14,860	852
Channel bass Crevallo	3, 200	97	14,000		2,800	110	1,000	80		
Croakers	7, 650	304 75	2, 000	80	24,600	948	5,000	150	3,400 1,600	170 80
Drum Flounders	2,450 55,500	2, 236	1,000	45	29, 850	1, 221	4,600	161	800	48
Hog-flsh	2,480	108 535			3, 825	163				
Jew-fish Mullet, fresh	13, 800 23, 900	813	800	32	3,050	105	6,000	180		
Mullet salted			700	30	9,050	369	1, 200	36	500 800	25 44
Perch Pike	3,500 1,000	140		30	1, 130	45	1, 200			
Pompano	6, 900	308	200	12	5,470	255	¦	 -		842
Spanish mackerel	80,500 9,600	8,309 414	7, 600	808	79, 574 7, 500	3, 332 339	4, 000	180	6, 000 300	24
Striped base	2, 250	94			1,300	54	2,000	80		
Sturgeon	200, 350	8, 192	10,000	490	152, 350	6, 387	22, 400 33, 800	1, 195	9, 170	529
Other fish	15,000	450	2,000	80						
Shrimp	8,710 4,800	111	4,000	120	10, 200	308	45, 200 3, 000	1,373	1,000	40
Crabs Turtles	25 340	997			47, 355	1, 894	8, 840	265		
Terrapins	830	227 6,872	50, 820	2, 390	268, 002	9, 311	73, 500	2, 100	41,020	1, 758
Oysters	923, 076	36, 236	93, 520	4, 237	880,666	34, 680	268, 780	9, 155	79, 700	8, 926
Total	823,010	30, 200	00,000	1, 20.		101, 400	, 200, 100	1 2, 200	1 10,100	
0	Galve	ston.	Hai	rris.	Jeffer	rson.	Matag	orda.	Nue	ces.
Species.	Lbs.	Value.	Lbs.	Value	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Blue-fish	3, 350	\$201	750	\$45			320	\$16	6, 770	\$270
Buffalo-fish			.[12, 200 33, 230	\$470 1,250	[······]	••••••	• • • • • • • •	
Cat-fish Channel bass	6,000 255,630	240 14, 491	73, 620	4, 252	11,700	654	21,800	894	249, 700	9, 480
Crevalle	6,600	331	1.400	70			2, 200	88	3,000	105 813
Croakers Drum	51,800 22,550	2, 575 941	15, 750 5, 900	819 300	1,200 1,000	60 45	2, 200	88	23, 100 16, 900	605
Flounders	54, 125	3, 209	7, 050	434	200	12	2, 650	110	62, 250	2, 843
Groupers	3, 463 4, 950	84 297	1,500	90	· · · · · · · · · · · · · · · · · · ·		240	10	8,000	118
Jew-fish	19,981	548								
Mullet, fresh	15, 800 9, 400	670 564	1,200	120	400	20	500	22	9,600 4,600	307 161
Perch	6, 650	201	1,800	97	250	12			11,900	481
Pompano	600	48			· · · · · · · · ·	{- 	330	15	4, 350	174
Red snapper Sheepshead	464, 791 133, 750	17, 453 7, 550	37, 300	2, 153	4,980	254	8,800	360	109,000	4, 115
Spanish mackerel	3,600	288	1,000	80	700	50] 3,400	65	12, 610 2, 100	513
Striped bass Trout	1,000	12, 522	56, 300	3, 237	5, 300	527	100 14, 200	580	313, 650	11, 866
Other fish	14,000	840	4,500	266	5,000	270			20,000	740
Shrimp	112,000	2,590 2,800	5,900	214	12,000	15 870	620	19	224, 400 6, 820	2, 674 252
Turtles	34, 800	1, 170	4,700	180			210	8	116, 140	2, 346
Terrapins	1,200 721,420	120 31, 371	71, 540	3, 072	1,850 225,148	160 8,355	402,710	14, 457	436, 310	14,977
Oysters			[1			
Total	2,228,960	101, 327	292, 410	115, 501	315, 658	12, 530	450,080	16, 048	1,635,700	52, 370

Species.	Lbs.	Value.	Species.	Lbs.	Value.
Blue-fish	29, 540	\$1, 281	Pompano		\$812
Buffalo-fish	12, 200	470	Red snapper	464, 791	17, 453
Cat-fish	71, 230	3,035	Sheepshead	467, 504	21,723
Channel bass	1, 144, 376	51, 922	Spanish mackerel	40,710	1,939
Crevalle	18.000	743	Striped bass	8, 950	384
Croakers	136, 700	6,007	Sturgeon	22, 400	984
Drum	50,400	2,046	Trout	1,011,620	45, 525
Flounders	218, 025	9,819	Other fish	60, 500	2, 646
Groupers	3, 463	84	Shrimp	860, 530	7, 464
Hog fish.	15, 995	784	Crabs	138, 120	8,689
Jew-fish.	83, 281	1,083	Turtles	237, 385	6, 860
Mullet, fresh	60, 350	2, 167	Terrapins	8, 880	507
ATULIST, RAITED		25	Oysters	2, 491, 870	94, 663
reren		1,506	•		
Pike	22, 730	989	Total	7, 174, 550	286, 616

Table showing by counties, apparatus, and species the yield of the vessel fisheries of Texas in 1897.

A 3	A:	ransas.		Ca	houn.		Galvest	on.
Apparatus and species.	Lbs.	Va	lue.	Lbs.	Value.	L	bs.	Value.
Seines:								
Blue-fish	1, 10	0	\$46	2, 400			350	\$21 1,284
Channel bass or red-fish. Crevalle	37, 50 20	9	1,571	96, 800 800	4,06		23, 000 600	1,284 31
Cronkers	4,65	ŏ	184	10,600			8, 200	160
Drum	. 45	0 [15	- .			900	45
Flounders	. 4,50 . 48		196 22	11, 950	50		1,800	104
Hog-fish	. 30		13	1,625	7	3	450	27
Mullet	2, 80	ŏ	106	550	2	i		
Perch			• • • • • •	4, 050	16		500	30
Pike Pompano	90	n · · · · · ·	38	130 2,470	11	5	650	34
Sheepshead	. 9, 50	0	399	32, 074	1,34	7 İ	11,000	620
Spanish mackerel	. 1,60	0	72	3,500	15	9	400	32
Striped bass	1, 45 27, 35	0 1	62 1, 146	300 66, 600		2	19, 600	1 100
TroutOther fish	21,00	·.	1,140			°		1, 100
Shrimp	150	0	5	3, 200	10	0	1,000	30
Turtles	2, 70		108	695	2	G	2,800	110
Terrapins	95, 78		67 4, 057	237, 744	9, 93		04 950 -	9 a nô
		<u>-</u>	2 , 037	201, 144		- 	66, 250	3, 628
Lines: Groupers		1					3, 463	84
Jew fish							18, 181	440
Red snappers		<u> </u>		· · · · · · · · · · · ·	. <u> </u>	. 4	64, 791	17, 453
Total		<u> </u>			· · · · · · · · · · · · · · · · · · ·	. 4	86, 435	17, 977
Turtle nets:								
Turtles	8, 640)	343	8, 920	358	3		• • • • • • • • • • • • • • • • • • • •
Tongs and rakes: Oysters				169, 162	6, 05	4 1	29, 080 İ	5, 229
•		====	==		- -	_'		
Grand total	104, 429	9	4,400	415, 826	16, 35	6	81, 765	26, 834
	Harr	ia	Mo	tagorda.	37.00		· · · · · · · · · · · · · · · · · · ·	
	HAIL	10.	MI	stagoraa.	Nue	ces.	Te	otal.
Apparatus and species.	Lbs.	Value.	Lbs			Value.	Lbs.	Value.
Apparatus and species.	l		l					
Seines:	Lbs.	Value.	Lbs	s. Value	Lbs.	Value.	Lbs.	Value.
Seines: Blue-fish	Lbs.	Value.	Lbs	3. Value	Lbs.	Value.	Lbs.	Value.
Seines:	350 37, 500 400	Value. \$21 2, 100 20	Lbs	3. Value 620 \$16 800 454	2,570 92,700	\$102 3,457	Lbs. 7,090 298,300	Value. \$311 12,932
Seines: Blue-fish	350 37,500 400 5,100	\$21 2,100 20 274	Lbs	3. Value	2, 570 92, 700	\$102 3, 457	7, 090 298, 300 2, 000 31, 250	Value. \$311 12, 932 88 1, 305
Seines: Blue-fish	350 37,500 400 5,100 2,200	\$21 2, 100 20 274 115	10, i	S20 \$16 800 454 200 48	2,570 92,700 6,500 9,700	\$102 3,457	7, 096 298, 309 2, 006 31, 256 13, 256	Value. Value.
Seines: Blue-fish	350 37,500 400 5,100	\$21 2,100 20 274	10, i	S20 \$16 800 454 200 48	2,570 92,700 . 6,500 9,700 5,550	\$102 3, 457	7, 096 298, 309 2, 006 31, 256 13, 256	Value. Value.
Seinea: Blue-fish	350 37,500 400 5,100 2,200 2,250	\$21 2, 100 20 274 115 146	10, i	\$20 \$16 800 454 200 48	2,570 92,700 6,500 9,700 5,550	\$102 3,457 231 353 197	7, 096 298, 305 2, 000 31, 256 13, 255 27, 500 3, 295	Value. \$311 12, 932 0 528 1, 305 1, 210 164 13
Seines: Blue-fish. Channel bass or red-fish. Crevalle. Croakers. Drum Flounders. Hog-fish Jew-fish Mullet.	350 37,500 400 5,100 2,200 2,250 500	\$21 2, 100 20 274 115 146 80	10, i	\$10 \$16 \$16 \$16 \$16 \$16 \$16 \$16 \$16 \$16 \$16	2,570 92,700 6,500 9,700 5,550	\$102 3,457 231 353 197	7, 096 298, 306 2, 006 31, 256 13, 256 27, 506 3, 298 4, 956	Value. \$311 12, 932 88 1, 305 528 1, 210 164 13
Seines: Blue-fish. Channel bass or red-fish. Crowalle Croakers Drum. Flounders Hog-fish Jew-fish Mullet Porch.	350 37,500 400 5,100 2,200 2,250 500	\$21 2, 100 20 274 115 146 30	10, i	S20 \$16 800 454 200 48	2,570 92,700 6,500 9,700 5,550	\$102 3, 457 231 353 197 57 69	7, 096 298, 305 2, 006 31, 256 13, 256 27, 506 3, 295 304, 956 7, 856	Value. \$311 12,932 88 1,305 528 1,210 164 1
Seines: Blue-fish. Channel bass or red-fish. Crovalle. Croakers. Drum Flounders. Hog-fish Jew-fish Mullet. Perch. Pike. Pompano.	350 37, 500 5, 100 2, 200 2, 250 500	\$21 2,100 20 274 115 146 80	10, 8	3. Value \$20 \$16 800 454 200 48 450 62 240 10 22330 15	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,560	\$102 3,457 231 353 197 57 69 195	7, 096 298, 306 2, 000 31, 256 13, 256 27, 506 3, 296 4, 956 7, 856 7, 086 6, 250	Value. \$311 12, 932 8, 1305 528 1, 104 13 184 184 276 268
Seinea: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum. Flounders Hog-fish Jew-fish Mullot Perch Pike Pompano Sheepshead	350 37,500 400 5,100 2,200 2,250 500 800 17,700	\$21 2, 100 20 274 115 146 80 48 42	10, 8 10, 8 1, 1, 1, 4	\$1. Value \$20 \$16 \$60 454 \$20 48 \$450 62 \$240 10 \$500 22 \$30 15 \$30 15	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000	\$102 3,457 231 353 197 69 195 102 1,787	7, 096 298, 305 2, 006 31, 255 13, 255 27, 506 3, 295 4, 956 7, 885 7, 885 121, 074	Value. \$311 12, 932 528 1, 305 528 1, 210 104 13 184 388 276 208 5, 304 5, 304 5, 304 7, 305 8, 305 9, 305 1, 30
Seines: Blue-fish. Channel bass or red-fish. Crevalle. Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike. Pompano Sheepshead Spanish mackerel.	350 37,500 400 5,100 2,200 2,250 500 800 17,700	\$21 2, 100 20 27 115 146 80 48 42	10, 8 10, 8 1, 1	\$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100	2, 570 92, 700 6, 500 9, 700 5, 550 1, 600 2, 000 2, 55, 500 2, 55, 600 2, 55, 600 5, 310	\$102 3, 457 231 353 197 57 69 195 102 1, 787 221	Lbs. 7, 096 298, 306 2, 000 81, 256 13, 256 27, 506 3, 299 4, 956 7, 886 7, 084 6, 256	Value. \$311 12, 932 88 1, 305 528 1, 210 164 13 184 3938 276 268 5, 304 560
Seines: Blue-fish	350 37,500 400 5,100 2,200 2,250 500 800 17,700	\$21 2, 100 20 274 115 146 80 901 56 12 1,557	10, 8 10, 8 1, 2 1, 3 3, 8	\$1. Value \$20 \$16 \$60 454 \$20 48 \$450 62 \$240 10 \$500 22 \$30 15 \$30 15	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,550 2,500 2,700 1,000	\$102 3,457 231 353 197 69 195 102 1,787	7, 096 298, 305 2, 006 31, 255 13, 255 27, 506 3, 295 4, 956 7, 885 7, 885 121, 074	Value. \$311 12, 932 1, 305 528 1, 210 164 13 184 388 276 268 5, 304 560 124 124 125 126 127 127 128 128 129 120 120 121 121 122 123 124 125 126 127 128
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish.	350 37,500 400 5,100 2,200 2,250 500 300 17,700 700 27,800 1,500	Value. 2, 100 20 274 115 146 80 48 42 901 12 1, 556 12 1, 557 86	10,8 10,8 1,4 1,4 3,8 8,8	\$100 200 100 100 200 260	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,000 2,550 47,000 5,310 900	\$102 3, 457 231 353 197 57 69 195 102 1, 787 221 34	7, 099 298, 309 29, 809 31, 256 13, 256 27, 506 3, 299 4, 956 7, 856 121, 074 11, 917 2, 956 204, 900	Value. \$311 12, 932 88 1, 305 528 1, 210 164 164 184 276 268 5, 304 560 114 11, 228 86
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum. Flounders Hog-fish Jew-fish Mullot Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish. Shrimp	350 37,500 400 5,100 2,200 2,250 500 300 17,700 700 27,800 1,500	\$21 2,100 20 271 115 146 80 48 42 991 58 12 1,557 86	10, 8 10, 8 1, 2 1, 4 3, 8 4 6, 2	\$1. Value \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 197 57 69 195 102 1, 787 221 34	7, 096 298, 308 2, 090 81, 255 13, 255 27, 506 3, 299 3, 309 4, 956 7, 855 7, 856 121, 077 11, 916 2, 955 264, 900 1, 500	Value. \$311 12, 932 528 1, 305 528 1, 210 104 13 184 388 5, 304 11, 228 86 268 268
Seines: Blue-fish. Channel bass or red-fish. Crevalle. Croakers Drum Flounders Hog-fish Jew-fish Mullet. Perch Pike. Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish. Shrimp Turtles	350 37, 500 400 5, 100 2, 200 2, 250 500 	Value. 2, 100 20 274 115 146 80 48 42 901 12 1, 556 12 1, 557 86	10, 8 10, 8 1, 2 1, 4 3, 8 4 6, 2	\$100 200 100 100 200 260	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 197 57 69 195 102 1, 787 221 34	Lbs. 7, 096 298, 306 2, 000 31, 256 13, 256 3, 297 506 4, 956 7, 956 0, 256 121, 076 11, 916 2, 956 8, 370 11, 110	Value. \$311 12, 932 12, 932 13, 305 528 1, 210 164 13 184 276 268 5, 304 5, 304 11, 228 268 2
Seines: Blue-fish. Channel bass or red-fish. Crovalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout Other fish. Shrimp Turtles Terrapins	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 306 2, 090 81, 255 13, 255 27, 500 4, 956 7, 856 7, 086 6, 256 121, 077 11, 916 2, 950 8, 377 11, 105	Value. \$311 12, 932 12, 932 13
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Porch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish. Shrimp Turtles Terrapins.	350 37,500 400 5,100 2,200 2,250 500 300 17,700 700 27,800 1,500	\$21 2,100 20 271 115 146 80 48 42 991 58 12 1,557 86	10, 8 10, 8 1, 2 1, 4 3, 8 4 6, 2	\$1. Value \$16 800 \$16 800 454 200 48 450 62 240 10 500 22 100 40 200 200 200 48	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 197 57 69 195 102 1, 787 221 34	Lbs. 7, 096 298, 306 2, 000 31, 256 13, 256 3, 297 506 4, 956 7, 956 0, 256 121, 076 11, 916 2, 956 8, 370 11, 110	Value. \$311 12,932
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout Other fish Shrimp Turtles Terrapins Total Lines:	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 099 298, 309 2, 000 31, 250 13, 255 27, 500 3, 299 4, 955 7, 986 6, 255 121, 074 11, 910 11, 100 8, 377 11, 106 831, 083	Value. \$311 12,932 88 1,305 528 1,210 164 184 184 184 184 185 186 186 186 187 188 188 188 188 188 188 188 188 188
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum. Flounders Hog-fish Jew-fish Mullet Perch. Pike. Pompano Sheepshead. Spanish mackerel Striped bass Trout. Other fish. Shrimp Turtles Terrapins. Total Lines: Groupers	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 000 81, 255 27, 506 3, 295 300 4, 956 7, 885 7, 086 6, 256 121, 074 11, 916 2, 955 264, 906 1, 506 8, 377 11, 105 831, 083	Value. \$311 12, 932 88 1, 305 528 1, 210 164 13 184 268 5, 304 560 124 11, 228 86 68 69 60 70
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout Other fish Shrimp Turtles Terrapins Total Lines: Groupers Jew-fish Jes or red-fish Lines: Groupers Jew-fish Jew-fish Lines: Jew-fish Jew-fish Jew-fish Jew-fish Jew-fish Jew-fish Jew-fish Jew-fish Jew-fish	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 099 298, 309 2, 000 31, 250 13, 255 27, 500 3, 299 4, 955 7, 986 6, 255 121, 074 11, 910 11, 100 8, 377 11, 106 831, 083	Value. \$311 12, 932 88 1, 305 528 1, 210 164 13 184 268 5, 304 560 124 11, 228 86 68 69 60 70
Seines: Blue-fish. Channel bass or red-fish. Crevalle Crookers Drum Flounders Hog-fish Jew-fish Mullet Forch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish Sbrimp Turtles Terrapins Total Lines: Groupers Jew-fish Red snappers	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 000 81, 255 13, 255 27, 506 3, 299 300 4, 955 7, 885 7, 086 6, 256 121, 074 11, 916 2, 955 264, 900 1, 500 8, 377 11, 105 831, 083	Value. \$311 12, 932 528 1, 305 528 1, 210 104 13 184 276 208 5, 304 560 11, 228 6 6 7 8 8 6 4 11, 28 8 6 6 7 8 17 453
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum. Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout. Other fish. Sbrimp Turtles Terrapins Total Lines: Groupers Jew-fish Red snappers	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 000 81, 255 27, 506 3, 295 300 4, 956 7, 885 7, 086 6, 256 121, 074 11, 916 2, 955 264, 906 1, 506 8, 377 11, 105 831, 083	Value. \$311 12, 932 528 1, 305 528 1, 210 104 13 184 388 276 2088 5, 304 11, 228 86 432 67 35, 686 84 17, 453
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout Other fish Shrimp Turtles Terrapins Total Lines: Groupers Jew-fish Red snappers Total Trutle nets:	350 37, 500 400 5, 100 2, 250 500 2, 250 500 17, 700 200 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 090 81, 255 13, 255 7, 506 6, 256 7, 086 6, 256 121, 077 11, 106 156 831, 088 3, 463 18, 181 464, 791	Value. \$311 12, 932 88 1, 305 528 1, 210 104 13 184 888 276 208 5, 304 11, 228 86 268 432 67 35, 686 17, 453 17, 977 17, 977
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum. Flounders Hog-fish Jew-fish Mullet Perch. Pike. Pompano Sheepshead. Spanish mackerel Striped bass Trout. Other fish. Shrimp Turtles Terrapins. Total Lines: Groupers Jew-fish Red snappers. Total Turtle nets: Turtles.	350 37, 500 400 5, 100 2, 200 2, 250 500 17, 700 700 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	3. Value \$16 820 \$16 800 454 454 200 48 450 62 2440 10 500 22 330 15 800 100 20 100 4 200 280 320 19	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 000 81, 255 13, 255 27, 506 3, 299 300 4, 955 7, 885 7, 086 6, 256 121, 074 11, 916 2, 955 264, 900 1, 500 8, 377 11, 105 831, 083	Value. \$311 12, 932 88 1, 305 528 1, 210 104 13 184 13 184
Seines: Blue-fish. Channel bass or red-fish. Crevalle Croakers Drum Flounders Hog-fish Jew-fish Mullet Perch Pike Pompano Sheepshead Spanish mackerel Striped bass Trout Other fish Shrimp Turtles Terrapins Total Lines: Groupers Jew-fish Red snappers Total Trutle nets:	350 37, 500 400 5, 100 2, 200 2, 250 500 17, 700 700 27, 800 1, 500 3, 400 4, 700	\$21 2, 100 20 274 115 146 30 48 42 901 56 127 1, 557 186 114 180	10, 3 1, 1 1, 5 3, 8 4 0, 2	\$1. Value \$10 \$20 \$16 800 \$45 454 200 \$48 450 62 240 10 600 22 330 15 800 160 20 20 20 19 210 8	2,570 92,700 6,500 9,700 5,550 1,600 2,000 5,500 2,550 47,000 5,310 900 117,350	\$102 3, 457 231 353 353 107 57 69 195 102 1, 787 221 34 4, 367	7, 096 298, 300 2, 090 81, 255 13, 255 7, 506 6, 256 7, 086 6, 256 121, 077 11, 106 156 831, 088 3, 463 18, 181 464, 791	Value. \$311 12, 932 8, 83 1, 305 528 1, 210 104 13 184 388 276 208 5, 304 11, 228 86 268 432 67 35, 686 440 17, 453 17, 977 701

Table showing by counties, apparatus, and species the yield of the shore fisheries of Texas in 1897.

			_		-,,					
Apparatus and	Ara	nans.	Bra	zoria.	Cal	houn.	Cam	eron.	Chan	bers.
apecies.	Lbs.	Value	Lha.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value.
Seines:						-				'
Blue-flah	8, 200	\$334	400	\$20	4,000	\$160	2,000	\$70	250	\$14
Channel bass	. 196, 107 3, 000	8,038	14,000	630	131,410 2,000	5, 508 80	32, 640 1, 000	1, 142	14, 860	852
Croakers	.] 3,000	120	2,000	80	12, 000	480	5,000	150	3, 400	170
Drum Flounders	2,000 19,000	760	1,000	45	14, 500	580	4,600	161	1,600 800	80 48
Hog-fish	2,000	84			2, 200	88				
Jow-fish Mullet, fresh	. 1,000 . 18,500	630	800	32	2,500	84	3,000	90		
Mullet, salted							·		500	25
Porch	2,000	80	700	30	5,000	200	1, 200	36	800	44
Pompano	6,000	270 2,910	200	12	3,000	142				
Sheepshead Spanish mackerel	8,000	342	7,600	308	47, 500 4, 000	1,985	4,000	160	6, 000 300	342 24
Striped bass	800	32	• • • • • • •		1,000	42	4,000 2,000	80		
Sturgeon	169, 500	6, 906	10,000	490	82, 750	3, 469	22, 400 30, 500	1,008	9, 170	529
Other fish	15,000 2,060	450 58	2,000 4,000	80 120	4,800	128			1,000	
Turties	14,000	546			1, 600	64	41, 700 2, 000	1, 251	1,000	40
Terrapins	680	160				.)			·····	l
Total	542, 847	21, 952	42,700	1,847	319, 260	13, 228	152, 040	5, 282	38, 680	2, 168
Turtle nets:	ļ	 			 36, 140	1, 448	6, 840	205		
Cast nets:	====	,====_i	===	: ====================================		====				
Croakers		<u>;</u>			2,000	60			[
Mullet Perch	2,600 1,500	77					3,000	90		
Trout	3,500 1,500	140		j	3,000	120	1,800	72		
Shrimp	<u> </u>	48			2, 200	82	8,500	122		
Total	9, 100	825			7, 200	262	8, 300	284		
Lines: Cat-fish	11,000	408		ł		} ~	01 000	1 050		
Channel bass	6,000	495 240	• • • • • • • • • • • • • • • • • • •). 	· • • • • • • • • • • • • • • • • • • •		21,000 2,600	1,050 104		
Jew fish	12,000	480	• • • • • • • •	· · • · • · ·	- 		1,500		• • • • • • • •	
Crabs	4,800	192			\		3,000	55 75	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
Total	33, 800	1,407		 			28, 100	1, 284	• • • • • • • • • • • • • • • • • • • •	
Spears:	20,000	1, 280			2 400					
Flounders	32, 000 200, 900	6, 872	50, 820	2, 390	3, 400 98, 840	136 3, 257	79 500	0.100	47.000	
		اصد		====	====	=====	73,500	2, 100	41,020	1, 758
Grand total	818, 647	31, 836	93, 520	4, 237	461, 840	18, 320	268, 780	9, 155	79, 700	8, 926
Apparatus and	Galvee	ton.	Hari	ris.	Jeffer	rson.	Matag	orda.	Nuec	68.
species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Seines:	į	!	1	1	ĺ	ĺĺ	į	ſ	(
Blue-fish	3,000	\$180	400	\$24	10.000	\$470			4, 200	\$168
Buffalo-fish	• • • • • • • • • • • • • • • • • • •)	12, 200	286	: <u>.</u>		· · · · · · · · · · · · · · · · · · ·	
Channel bass	228, 630	12, 967	36, 120	2, 152	9, 600	528	11,000	\$440	157, 000	6,023
Crevalle	6, 000 48, 600	2,415	1,000 10,650	50 545	1,200	60	1,000	40	3, 000 16, 600	105 582
Drum	21,650	896	3 700 1	185 288	1,000	45 12	. • • • • • • •		7, 200 8, 700	252
Flounders Hog-fish	24, 825 4, 500	1, 490 270	4, 800 1, 000	60	200		1, 200	48 (8, 700 3, 000	822 118
Hog-fish Jew-fish Mullet from		! .	1,200	60	· · · · · · · · · · · · · · · · · · ·	·}			 }	
Mullet, fresh Perch	5, 800 6, 500	270 300	1, 200	72	400	20	· · · · · · · ·]		2,000 2,600	70 92
Pike	6,000	330	1,000	55	250	12			6.400 (236
Sheepshead	119,750		19,600	1,162	4,500	225	5,000	200	1, 800 62, 000	72 2, 328
Spanish mackerel	8, 200	256	300	24	700	56	1,000	45	7, 300 }	292

Table showing by counties, apparatus, and species the yield of the shore fisheries of Texas in 1897—Continued.

Apparatus and	Galve	ston.	Har	ris.	Jeff	erson.	Mata	gorda.	Nue	ces.
species.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.	Lbs.	Value.
Scines—Continued. Striped bass	1,000 191,100 10,000 04,000 32,000 1,200	\$60 11,074 600 2,560 1,060 120	28, 500 3, 000 2, 500	\$1,680 180 100	3,800 1,000 500 1,850	15	8,000		1, 200 196, 300 20, 000 171, 000	\$46 7,499 740 1,820
Total	778, 355	42, 036	114, 970	6, 637	43, 600	2, 376	27, 200	1,093	670, 300	20. 765
Turtle nets: Turtles									116, 140	2, 346
Cast nets: Mullet Perch Trout. Shrimp	10,000 2,400 3,000	400 144 180							6, 000 53, 400	180 854
Total	15, 400	724							59, 400	1,034
Minor nets: Crabs	112, 000	2, 800	 				:			
Lines: Catfish Channel bass Jew-fish Sheepshead Trout Other fish	6,000 4,000 1,800 3,000 2,800 4,000	240 240 108 180 168 240			26, 830 2, 100 480 1, 500 4, 000	964 126 29 90 220				
Crabs	21, 600	1 170			12,000	370			6, 320	252
Spears: Flounders	27, 500	1, 176			46, 910	1, 799		====	48, 000	1, 824
Tongs and rakes:	592, 340	26, 142	29, 400	1, 260	225, 148	8, 355	168, 420	5, 980	397, 110	13, 640
Grand total'I	,547,195	74, 493	144, 370	7, 897	315, 658	12, 530	195, 620	7,073	1,297,270	====

Apparatus and species.	Lbs.	Value.	Apparatus and species.	Lbs.	Value.
Seines:			Cast nots:		
Blue-fish		\$970	Croakers	2,000	. \$60
Buffalo fish	12, 200	470	Mullet	21, 600	747
Cat-fish	6,400	286	Perch	3, 900	204
Chanuel bass or red-tish	831, 367	38, 280	Trout	11, 300	512
Crevalle	16,000	655	Shrimp	60, 600	1, 106
Croakers	103, 450	4,642	Total	00,000	
Drum	37, 150	1,518		99, 400	2, 629
Flounders	79, 625	3, 754	Turtle nets:		,
Hog-fish	12, 700	620	Turtles	159, 120	3,997
Jew-fish	1,000	42	Minor nets:		.,
Mullet, fresh	33, 800	1, 236	Crabs	110 000	0.000
Mullet, saited	500	25		112,000	2, 800
Perch	20,400	964	Lines:		
Pike	15, 650	713	Cat-fish	64, 830	2,749
Pompano	11,600	544	Channel bass or red-fish	14, 700	710
Sheepshead	342, 950	16, 210	Jew-tish	13, 800	588
Spanish mackerel	28, 800	1,379	Sheepshend	3, 480	209
Striped bass	6,000	260	Trout	5, 800	313
Sturgeon	22,400	984	Other fish	8,000	460
Trout	729, 620	33,472	Crabs	26, 120	889
Other fish	51,000	2,100	Total	136, 730	5.918
Shrimp	291, 560	6, 090			====
Turtles	49, 600	1,730	Spears:		
Terrapins	3, 730	440	_Flounders	110, 900	4,855
l.			Tongs and rakes:		
Total	2, 729, 952	117, 384	Oysters	1, 877, 498	71, 754
į.		'	Grand total	5, 225, 600	209, 837

The extent of the wholesale trade in fishery products on the Texas coast is set forth in the following summary. Most of the products of Matagorda, Aransas, and Corpus Christi bays are shipped respectively from Port Lavaca, Rockport, and Corpus Christi to the west and southwest, and the same is true of the red snappers caught off Galveston. But most of the products of other sections of the coast are consumed in the localities where obtained. A noticeable feature of the wholesale fish trade on this coast is the organization effected by the fishermen several years ago of union or cooperative fish markets, the profits of which are shared in by the fishermen. But at present these are not patronized by the fishermen as generally as three or four years ago. There is no drying, pickling, smoking, or canning of fishery products along the Texas coast.

Statement showing the extent of the wholesale trade in fishery products for Texas in 1897.

	Corpus	Christi.	Galvo	seton.	Port La	ıvaca.	Rock	port.	Tot	al.
Items.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Establishments		\$12, 100	1	\$3,300	2	\$10,800	2	\$6,500	7	\$32.700
Cash capital		6,000		2 000		13,000		9,000		30,000
Tons of ice used.	200	1,600	120	480	180	1,120	200	1,400	700	4, 600
Employees	14	<u></u>	4	ì. .	i7	j <u></u>	7	•••••	42	
Products handled.	=======================================				i	!	l .		i	
- 1000000000000000000000000000000000000	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
Blue-fish	6,400	\$386			7, 100	\$465	9,000	\$ 560	22,500	\$1,411
Cat-fish					\		11,000	715	11,000	715
Channel bass or			1			i.		ł		
red-fish	229, 324	13, 182		l. 	232, 180	16,074	228, 642	13, 816	690, 146	43,072
Crevalle	3,000	160			2,000	130	2,800	146	7,800	436
Croakers	21, 854	1, 270			21,650	1, 287	7,520	457	51,024	3,014
Flounders	38, 730	2, 297			24, 120	1,405	47, 654	3,071	110, 504	6,778
Hog-fish	3,000	180			4, 340	312	2,400	165	9,740	657
Jew-fish	0,000				1		12,000	815	12,000	815
Perch	4, 200	242			7, 634	513	3, 200	187	15, 034	942
Pike	9, 850	583					800	48	10,650	631
Pompano	4, 250	283			5,000	400	d, 720	584		1, 267
Mullet	8, 000	410			2,600	152	22, 150	1,276	32, 750	1,838
Red snapper	0,000	1	464, 791	\$28, 380				i	484, 791	23, 380
Sheepshead	103, 450	6, 454			84,500	5,792	74,500	4, 815	262, 450	17,061
Spanish mackerel		735			8, 120	632	9,000	044	27, 660	2,011
Striped bass	2,000	120					2,000	140	4,000	260
Trout	296, 000	16, 695			151, 545	9, 023	188, 850	11, 698	636, 395	37,416
Other fish	32,000	1, 920	19, 143	628			12, 400	693	63, 543	3, 241
Turtles		2, 816		1	44, 615	2, 685	28,000	1,360	153, 235	6,861
Terrapins	50,020	_,010				.[950	295	950	295
Shrimp	204, 150	5, 634	1		9,000	360	3,000	140	216, 150	6, 184
Oysters	410, 480	22, 870			602, 084	30, 152	217,000		1,229,564	62, 787
Total	1,467,848	76, 237	483, 934	24, 008	1,206,488	69, 382	889, 586	51, 390	4,047,856	221, 017

^{1 175,652} bushels.