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# Overview of Puerto Rico's Small-Scale Fisheries Statistics 1998-2001

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### **Abstract**

A total of 13,620,481 pounds (6,178 metric tons) of fish and shellfish were reported in Puerto Rico during 1998-2001. The mentioned landings have a market value of approximately \$27,407,302. The most important fish group, in terms of percentage of total pounds landed (fish and shellfish), for 1998-2001, were the deep water snappers (mainly Lutjanus vivanus and Etelis oculatus) 9%, yellowtail snapper (Ocyurus chrysurus) 7%, lane snapper (Lutjanus synagris) 7%, mackerel species (Scomberomorus cavalla and Scomberomorus regalis) 5%, various species of tuna 5%, various species of grunts mainly the white grunt (Haemulon plumieri) 4%, dolphinfish (Coryphaena hippurus) 4%, groupers, principally red hinds (Epinephelus g uttatus), reported 4%, p arrotfishes 3%, a nd v arious species of trunkfish 3%. The most important of the shellfish species were the spiny lobster (Panulirus argus) accounting for 9% of total reported landings, and the queen conch (Strombus gigas) 8%.

The gear type which accounted for the highest percentage of landings by weight of the total catch during 1998-2001, were lines (hand line, troll line, long line and rod and line) with 40%. Lines were followed by traps (fish pot and lobster pot) with 24%, nets (beach seine transmel net, gill net and cast net) with 21% and diving (skin and SCUBA) with 14%. Other gears were < 1% of the total landings reported.

Highlights of the biostatistical data for most caught species in Puerto Rico's fishery will be discussed.

Key Words: Biostatistical Data, Commercial Fishery Statistics, Puerto Rico.

### Introduction

The Fisheries Research Laboratory (FRL) of the Puerto Rico Department of Natural and Environmental Resources (DNER) monitors the commercial landings of fish and shellfish in Puerto Rico. The Fisheries Statistics Program (FSP) was implemented in 1967 under the Commercial Fisheries Research and Development Act of 1964 (PL 88-309) to collect data on the commercial fishery. Currently, this project is supported by the NOAA/National Marine Fisheries Service (NMFS) through the State/Federal Cooperative and Interjurisdictional Fisheries Programs and the DNER.

The objective of the Puerto Rico Fisheries Statistics Program is to maintain reporting services on the commercial finfish and shellfish resources of Puerto Rico, as well as manage and disseminate the fisheries statistics through coordination of activities between NMFS, FRL/DNER and other interested groups. The principal

goals of this program are:

- 1) Collect landings data from the island of Puerto Rico ensuring coverage of all coastal municipalities and their major fishing centers.
- 2) Determine the total weight of principal finfish and shellfish landed in Puerto Rico each month.
- 3) Determine the ex-vessel value of principal finfish and shellfish species landed in Puerto Rico each month.
- 4) Manage, correct, evaluate, summarize data and prepare semiannual and annual performance reports.
- 5) Collect and analyze biostatistical data of the Puerto Rico's commercial fishery.

### **Procedures**

### Commercial Landings Data

Commercial fishery landings data were collected from Puerto Rico's fishermen, fish buyers and fishing associations, whom voluntarily cooperate with the FSP. Four port samplers and the principal investigator visited the 42 coastal municipalities including the islands of Vieques and Culebra, and the 88 identified fishing centers. The data collected from January 1998-December 2002 are presented in this paper.

Efforts were made to collect the following data: fishing date, name of fish buyer, fisherman and/or helper (to avoid data duplication), municipality; fishing center (municipality landing area); number of trips; gear type; fishing effort (hours spent fishing); weight in pounds by species or taxonomic family; market value to the fisherman (price in U.S. dollars/pound); maximum and minimum fishing depth and fishing area. Trip tickets were completed using species common names and identification was possible by using an amended version of the bilingual technical report "Common Names of Fishes in Puerto Rico" (Erdman, 1987). A numerical system of species identification was developed to correspond with species codes used in Erdman's publication. Fishermen usually landed fishes in the round (not eviscerated), except deepwater snapper and large grouper that they usually landed gilled and gutted. Lobster, oyster and octopus were also landed in the round, and conch weights included meat only. Land crab statistics were reported in number of dozens with each dozen assumed to produce 1 lb. of meat. Some landings were reported as one of four classes of fish (first, second, third and "trash" fish) reflecting their market value: "trash" fish are perceived to have little or no market value. Classification varied somewhat by region but the following descriptions were used to characterize each class broadly: first class fish included large snapper, grouper, grunt, trunkfish and hogfish; second class included small snapper and grouper, parrotfish, goatfish, and triggerfish; third class included smaller individuals of second class fish and large squirrelfish. The "trashfish" category included butterflyfish, angelfish, surgeonfish, small squirrelfish and small fishes of a large number of species (Matos-Caraballo and Sadovy, 1990).

Catch per unit of effort (CPUE) was evaluated for landings data by calculation of total pounds per trip, making a subsample by month, using only those landings

trip tickets that clearly indicated a single trip.

Landings data was entered in computer, using Microsoft FoxPro 2.6, checked against the original landing trip tickets, corrected and analyzed using Microsoft FoxPro 2.6 and Microsoft Excel. All data presented in this report are raw data. As in previous years (1988-97) a correction factor was used in calculations to correct for under-reporting. The correction factor was expressed as the percentage of fishermen that regularly cooperated with statistics divided by the total number of active fishermen in the Island of Puerto Rico. A total of 1,758 commercial fishermen were active during 1994-97 (Matos-Caraballo, 1996). The correction factor for 1998 and 1999 was 78%, for 2000 was 57% and for 2001 was 68 %. Correction factors before 1989 are discussed in Matos-Caraballo and Sadovy (1990; 1991) and Matos-Caraballo (1992; 1993; 1995; 2001).

# Commercial Biostatistical Data

Biostatistical data of finfish and spiny lobster were collected by port agents. Each individual was identified by species to determine catch composition. Finfishes were measured in fork length (FL) and spiny lobster in carapace length (CL), both in millimeters (mm), and weighed in grams. Data were recorded on data sheets form. The form was designed to facilitate entry and processing of effort data. Biostatistical data were entered in Trip Interview Program (TIP) developed by NMFS Southeast Fishery Science Center. Later, the data stored in TIP was converted to FoxPro and a nalyzed using Microsoft Excel. The data collected include date, name of fisherman, fishing area, depth, gear, species, length, weight and effort by gear type. When possible, sex and gonad stage were visually inspected

### Results

### Commercial Landings Data

In Puerto Rico during 1998, it was estimated that a total of 4,427,467 pounds of fish and shellfish were landed, with a market value of \$8,946,870 (using the correction factor of 78%). During 1999, it was estimated that a total of 4,265,435 pounds of fish and shellfish were landed, with a market value of \$8,795,880 (using the correction factor of 78%). For 2000, it was estimated that a total of 5,756,130 pounds of fish and shellfish were landed, with a value of \$11,793,159 (using the correction factor of 57%). In 2001, it was estimated that a total of 5,233,859 pounds of fish and shellfish were landed, with a value of \$10,800,657 (using the correction factor of 68%). The correction factor of 78% of total fishermen cooperating with the Program in 1998-99 is the highest since 1988 when 56% of fishermen cooperated.

Reported data show that from January-December 1998, a total of 3,453,424 pounds were reported, in 1999 was a total of 3,327,039 pounds were reported, for 2000 a total of 3,280,994 pounds and for 2001 a total of 3,559,024 pounds (Table 1).

A total of 32,839 trip tickets were collected during 1998, 35,545 throughout 1999, 38,887 for 2000 and 41,949 for 2001. Landings were principally comprised by five species of shellfish and 45 groups of species or families of finfish, although a total of 155 finfish groups and/or species and 10 shellfish species were reported

by fishermen.

A total of 13,620,481 pounds (6,178 metric tons) of fish and shellfish were reported in Puerto Rico during 1998-2001. The mentioned landings have a market value of approximately \$27,407,302. The most important fish group, in terms of percentage of total pounds landed (fish and shellfish), for 1998-2001, were the deepwater snappers (mainly Lutjanus vivanus and Etelis oculatus) 9%, yellowtail snapper (Ocyurus chrysurus) 7%, lane snapper (Lutjanus synagris) 7%, mackerel species (Scomberomorus cavalla and Scomberomorus regalis) 5%, various species of tuna 5%, various species of grunts mainly the white grunt (Haemulon plumieri) 4%, dolphinfish (Coryphaena hippurus) 4%, groupers, principally red hinds (Epinephelus guttatus), reported 4%, parrotfishes 3%, and trunkfishes 3% (Table 1). The most important of the shellfish species were the spiny lobster (Panulirus argus) 9% of total reported landings, and the queen conch (Strombus gigas) 8% (Table 1).

Matos-Caraballo (2001) observed that during 1993-97, several fish and shellfish species that in the past were usually discarded by fishermen, have gained commercial importance. These species did not have market value years ago, now are easily sold at reasonable prices. During 1998-2001 this trend was observed. For example, Table 1 shows that the squirrelfish (e.g. Holocentrus ascensionis and H. rufus) was sold in 1997 at an average price of approximately \$1.29 per pound. Shellfish species in the same situation are marine crabs Carpilius corallinus and Mythrax spp were sold at approximately \$3.00/pound. On the other hand, species that have no market in Puerto Rico, Acanthurus spp, Holocanthus ciliaris, Pomacanthus arcuatus, and P. paru are fished in the municipality island of Vieques, to be sold in the market of Saint Croix, USVI.

The gear types (as defined in Matos-Caraballo and Torres-Rosado, 1989), which accounted for the highest percentage of landings, by weight during 1998-2001, were lines (hand line, troll line, long line and rod and line together) taking 40% of the total catch (Tables 2-5). Lines were followed by traps (fish trap and lobster trap) taking 21% of the total reported catch (Tables 2-5). Traps were followed by nets (beach seine, gill net, cast net and trammel net) that accounted for 20% of the total reported catch (Tables 2-5). Nets were followed by diving (skin and SCUBA), this gear class fished 19% of the total reported catch (Tables 2-5).

During 1998-2001, prices varied markedly by municipality (Table 6). For example, in 1999, the lowest average price per pound for fish and shellfish was obtained on the north coast, in the municipality of Isabela at \$1.18, and the highest average price was obtained in the south coast, in the municipality of Patillas with \$3.17/pound in 2001 (Table 6). The most productive of the 42 municipalities during 1998-2001, was Cabo Rojo accounting for 18% of the total landings, by weight (Table 6). The west coast, reported 34% of the total weight, being the most productive, followed by the south, 32%, the east, 21% and the north, 13% (Tables 6).

From a total of the trip tickets collected during 1998-2001, approximately 82% clearly indicated that the catch referred to a single fishing trip (number of trips = 1). A subsample of these data by month was made. Fishing trips are generally of a half-day duration. The CPUE for landings was 54 pounds per trip (ppt) in 1998, 53 ppt in 1999, 71 ppt in 2000, and 68 ppt in 2001.

### Commercial Biostatistical Data

A total of 53,027 individuals caught by commercial fishers were measured and weighed during 1998-2000. S ex determination of fishes in the field has been difficult due to the reluctance of fishermen to permit this activity, and the general limitation in available time for measuring samples, and difficulties in assessing any but the ripest individuals, for sex.

The species most frequently measured from 1998-2000 were Ocyurus chrysurus, Haemulon plumieri, Lutjanus synagris, Panulirus argus, Epinephelus fulvus, Epinephelus guttatus, Sparisoma chrysopterum, Lutjanus vivanus, Sparisoma viride and Scomberomorus cavalla...

Figuerola et. al, (in press) indicated that *Ocyurus chrysurus* females reach Minimum Size of Sexual Maturation (MSSM) at around 248mm FL and males at 224mm FL. During 1998-2000, approximately 15% of *O. chrysurus* individuals were taken below 224mm FL.

Panulirus argus has been protected under federal and local government management plans, for approximately the last 18 years. These management plans prohibit the capture and/or possession of *P. argus* below 89mm (3.5 inches) of carapace length. During 1998-2000, approximately 18% of the total individuals sampled by FSP were taken below the minimum legal size (MLS).

Epinephelus guttatus is the most abundant grouper species reported in Puerto Rico. Sadovy et. al. (1994) studied E guttatus from 1987-92, reporting that MSSM is 215mm FL. E. guttatus taken below 215mm FL, were approximately 3% of the biostatistical samples during 1998-2000.

Figuerola (1991) reported that *Lutjanus vivanus* females reach MSSM at 410mm FL. Biostatistics data of 1998-2000 show that approximately 97% of total individuals of  $\underline{L}$ . vivanus (males and females) were taken below the MMS of 410mm.

# Discussion

# Commercial Landings Data

The most reported groups by weight in the commercial fisheries landings for 1998-2001, showed that snappers, grunts, groupers, parrotfishes, mackerels, dolphinfish and trunkfishes. Reported commercial landings data reported have been around two millions pounds per year from 1987-94 (Matos-Caraballo, in press). Since 1995, 96 and 97, an increase has been observed in the number of fishermen that cooperated with the FSP, resulting in 3.7, 3.6 and 3.8 millions pounds reported respectively. An stability of this landings reports were consistently for 1998-2001. Approximately a total of 400 more commercial fishermen cooperated with FSP during 1997 than 1994. One possible reason to explain the increased landings reported might be due to an increase in the number of fishermen cooperated with the FSP during 1995-97. This increase in participation probably occurred because the PRDNER and the Puerto Rico Department of Agriculture have provided economical help to fishermen who cooperate on a regular basis to the FSP. Usually a certification from FSP is required. When we compare the landings reported in late 70's and early 80's (around 5 million-7 million pounds), with the reported landings of 1987-97, an indication of overfishing is observed.

Another symptom of overfishing was observed in several species discarded by

fishermen in the past that now have become commercial species (e.g. *Holocentrus ascensionis*, *H. rufus* and *Acanthurus spp*.). These species are now marketable due to the decrease in landings of preferred species, and an increase in the demand of more fresh fish products.

The fish market of Saint Croix USVI purchase the Vieques landings of Acanthurus spp, Holocanthus ciliaris, Pomacanthus. arcuatus, P. paru and many juvenile reef fish species. The mentioned species are subject to severe fishing pressure.

The municipality of Cabo Rojo and the west coast have continued to be the most productive municipality and coast respectively since 1972 (Weiler and Suárez-Caabro, 1980; Collazo and Calderón, 1988; Matos-Caraballo and Sadovy, 1990 and 1991; Matos-Caraballo, 1993; 1995; 1997). However, the west coast has shown a tendency to decrease the percentage of total landings reported from 52% in 1983 to 37% in 1997, and 34% in 1998-2001. For years 2000 and 2001 the south coast reported more landings that west coast for the first time since 1972. Cabo Rojo shows the same tendency (Figure 2). Biostatistical data of FSP indicate that the fishing resources in the west coast are overfished (Matos-Caraballo, in press). The mentioned tendencies are evidence of the need of effective management and enforcement to preserve the fishing resources of Puerto Rico.

Pots continued to show a decreasing trend in their catch percentages since 1982 (Matos-Caraballo and S adovy, 1990, and 1991, Matos-Caraballo, 1992; 1993; 1995; 1997), when fish traps alone caught 71.2% of the total pounds reported (Collazo and Calderón, 1988) to 24% during 1994-97, and contnues decreasing to 21% for the period of 1998-2001. On the other hand, an increasing trend was observed in the percentage of reported landings taken by all lines combined, when compared with 1982, in which the percentage was 12.4% (Collazo and Calderón, 1988) to 44% during 1994-97, 40% for the period of 1998-2001. Nets have shown a similar trend. For example, the gill nets and trammel nets caught 2.7% in 1982 (Collazo and Calderón, 1988), while in 1998-2001 they caught 20%. Young fishers were observed using SCUBA divers. They are very active, fishing 4-5 days per week and their main target are conch and lobsters. The diver gears reported 19% of the landings during 1998-2001.

Average annual catch per unit effort (CPUE) in was estimated to be 63ppt -80ppt during 1994-97, for 1998-2001 was reported 53-71ppt. Collazo and Calderón (1988) mentioned that during 1979-82, the CPUE for the vessels of 21-25 ft was 122.74 pounds/trip. It was observed that vessel over 30 feets length have almost disappeared from the Puerto Rico's commercial fisheriy. This is another evidence of the overfishing symptoms of Puerto Rico's fishery resources.

# Commercial Biostatistical Data

The commercial biostatistical for *L. vivanus* data indicates that the Puerto Rico fishery resource is overfished. *P. argus* in Puerto Rico has a minimum legal size of 89 mm carapace length. During 1994-97, a total of 36% of *P. argus* sampled was caught below minimum legal size. However for the period of 1998-2000, only 18% of *P. argus* was caught before minimum legal size. This improvement occurred probably because the good enforcement of the FMP and because this resource has a

strong resilience to a high fishing pressure.

### Conclusion

In 1979, reports of landings in Puerto Rico recorded 7,212,000 pounds of fish and shellfish. During the decade of the eighties, landings decreased consistently. During 1995-2001, reported landings ranged between 3.2 million and 3.8 million pounds of fish and shellfish. The vessels of >30 feets length have been diminishing. The Puerto Rico Fishery Census is in process and probably will result in a decrease of 5 00 commercial active fishers compared to 1996 commercial fishery census. Landings information has shown that several fish and shellfish species that fishermen discarded in the past because did not have market value are now easily sold. These species now market value because of the decreased landings of the traditional valuable species. Another symptom of overfishing is evidenced in the CPUE data. During 1979-82, average pounds per trip were 122.73 and in 2001, were 68 pounds per trip.

Another set of problems associated with the fishery resources is observed thru biostatistical data, which show that *L. vivanus* are consistently taken below the – MSSM. *P. argus* is protected by FMP that seems to be working, although this species is under heavy fishing pressure.

After the analysis of these facts, it is concluded that during 1998-2001, several fishery resources in Puerto Rico have continued to decline, despite an increase in the number of landings reported, due to an increase in the number of fishermen that cooperates with FSP. The information presented in this report urges the need for measures to protect the fishery resources of Puerto Rico, including the improvement of the enforcement of the existing fishing regulations and Fishery Management Plans.

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### Literature Cited

Collazo, J. and J. A. Calderón. 1988. Status of the Fisheries in Puerto Rico 1979-1982. Technical Report. CODREMAR 1 (2): 1-30.

Erdman, D. S. 1987. Common names of fishes in Puerto Rico. Technical Report. CODREMAR. 3(2): 1-44.

Figuerola, M. 1991. Aspectos reproductivos del chillo Lutjanus vivanus (Cuvier, 1828) (Pisces: Lutjanidae) en el oeste de Puerto Rico y sus implicaciones para el manejo pesquero. Memorias del XVII Simposio de los Recursos Naturales. Departamento de Recursos Naturales de Puerto Rico. Noviembre de 1991.

- Figuerola, M., D. Matos-Caraballo and W. Torres In press. Maturation and reproductive seasonality of four reef fish species in Puerto Rico. Proc. Gulf and Carib. Fish. Inst. 50:
- Matos-Caraballo, D. In press. Status of the fishery in Puerto Rico, 1990-93. Proc. Gulf and Carib. Fish. Inst. 47:
- Matos-Caraballo, D. 1992. Commercial Fisheries Statistics: Puerto Rico/State Federal Cooperative Fisheries Statistics Program. Department of Natural Resources. Annual Report to the National Marine Fisheries Service 55 p.
- Matos-Caraballo, D. 1993. Commercial Fisheries Statistics: Puerto Rico Intejurisdictional Fisheries Program. Department of Natural Resources. Annual Report to the National Marine Fisheries Service. 64 p.
- Matos-Caraballo, D. 1995. Commercial Fisheries Statistics: Puerto Rico Intejurisdictional Fisheries Program 1992-95. Department of Natural and Environmental Resources. Final Report to the National Marine Fisheries Service. 82 p.
- Matos-Caraballo, D. 1996. Puerto Rico Fishery Census, 1995-96. Department of Natural and Environmental Resources. Final Report to Saltonstall-Kennedy Program/NMFS. 21p.
- Matos-Caraballo, D. 1997. Commercial Fisheries Statistics: Puerto Rico/State Federal Cooperative Fisheries Statistics Program 1994-96. Department of Natural Resources. Final Report to the National Marine Fisheries Service. 74 p.
- Matos-Caraballo, D. 2001. Overview of Puerto Rico's Small-Scale fisheries statistics 1998-2001. Proc. Gulf and Carib. Fish. Inst. 52: 197-203
- Matos-Caraballo, D. and Y. Sadovy. 1990. Overview of Puerto Rico Small Scale Fisheries Statistics 1988-89. Technical Report. CODREMAR. 1(4): 1-17.
- Matos-Caraballo, D. and Y. Sadovy. 1991. Commercial Fisheries Statistics: Puerto Rico/State Federal Cooperative Fisheries Statistics Program. Department of Natural Resources Annual Report to the National Marine Fisheries Service. 53 p.
- Matos-Caraballo, D. y Z. Torres-Rosado. 1989. Censo Comprensivo de Pesquería Comercial de Puerto Rico, 1988. Informe Técnico. CODREMAR. 1(3): 1-55
- Sadovy, Y. and A. Rosario and A. Román. 1 994. Spawning dynamics in an aggregating grouper, the red hind, *Epinephelus guttatus*. Env. Biol. Fish.41:269-286
- Weiler, D. y J. Suárez-Caabro. 1980. Perspectivas de las Estadísticas de la Pesca en Pequeña Escala de Puerto Rico, 1972-1978. CODREMAR. Informe Técnico. 1(1): 1-27.

TABLE 1. LANDINGS REPORTED BY SPECIES AND BY COAST IN PUERTO RICO DURING 1998-2001.

	1608		1999		2000		2001		TOTAL
SPECIES	POUNDS	*p/p	POUNDS	*P/P	POUNDS	*p/p	POUNDS	*D/D	POUNDS
FISH			TOOTIDE	17.1	CONTO	1.71	TOCADS	F / F	FOUNDS
Tunas					İ		1		
Blackfin tuna	450	1.28	982	1.05	3,274	1.10	25,286	1.08	29,992
Little tunny	21,076	0.96	18,310	0.95	17,176			1.08	76,885
Skipjack tuna	51,922	1.12	40,318	1.18	32,174	1.14	38,391	1.07	162,805
Yellowfin tuna	41,653	1.21	48,915	1.22	46,755	1.17	35,392	1.31	172,715
Tuna category	83,720	1.13	46,620	1.14	38,165	1.25	26,14	1.33	194,652
Ballyhoo	49,449	1.26	50,648	1.24	56,934	1.27	60,905	1.28	217,936
Grunts	115,613	1.51	118,255	1.52	118,344	1.48	156,641	1.43	508,853
Hogtish	49,843	2.10	46,519	2.10	58,419	2.17	68,843	2.25	223,624
Trunktish	90,893	1.82	83,884	1.76	83,795	1.69	77,814	1.78	336,386
Delphinfish	137,033	1.60	130,055	1.62	137,729	1.57	111,075	1.89	515,892
Squirrelfishes	18,000	1.29	14,096	1.35	16,038	1.2	18,313	1.23	68,046
Mullets	53,451	1.30	01,935	1.22	54,106	1.25	61,129	1.23	230,621
Jacks	- 27,11								
Bar jack	27,166	1.38	10,895	1.43	45,265	1.35	50,845	1.41	164,171
Horse-eye jack Yellow jack	0,121 3,313	1.45 1.36	5,106	1.42	7,568	1.58	6,607	1.40	25,402
Jack Category	61,517	1.57	2,021 38,774	1.24	2,460 30,405	1.58	3,934	1.29	11,728
Parrotfishes	97,559	1.43	80,719	1.62	73,973	1.45	38,168 99,255	1.41 1.46	168,864
Groupers	27,253	1.43	60,719	1.47	/3,9/3	1.33	99,200	1.40	351,506
Coney	13,900	1.90	10,254	1.92	11,671	2.00	16,091	1.88	51,916
Red hind	54,974	2.08	65,912	2.05	01,239	2.09	69,098	2.16	251,223
Misty grouper	5,558	2.20	6,717	2.13	5,264	2.12	6,222	2.18	23,761
Nassau grouper	19,095	1.54	14,967	1.63	12,965	1.65	18,706	1.85	65,733
Yellowfin grouper	1,791	1.90	3,348	2.18	11,208	2.10	3,708	2.16	20,055
Grouper category	43,385	2.04	47,892	2.05	40,761	2.16	54,180	2.22	186,218
Mojarras	19,383	1.57	22,072	1.65	18,249	1.69	19,445	1.60	79,149
Snappers									
Lane snapper	220,886	1.97	196,483	2.05	211,517	2.04	186,225	2.12	815,111
Yellowtail snapper	252,016	2.02	279,373	2.12	363,508	1.93	328,998	2.14	1,223,895
Silk snapper	213,124	2.72	229,277	2.78	198,483	2.00	291,722	2.88	932,606
Mutton snapper	77,393	2.05	96,346	2.11	86,807	2.03	90,583	2.13	351,129
Queen snapper	46,069	2.85	00,082	2.84	82,866	2.76	107.671	2.88	303,288
Vermillion snapper	16,581	2.35	17,237	2.43	22,397	2.30	44,891	2.34	101,106
Wenchman	2,302	2.44	3,644	2.33	4,952	2.31	7,731	2.72	18,629
Snapper category	56,545	2.03	63,031	2.04	50,237	1.98	60,114	2.06	229,927
Triggerfishes	64,392	1.55	49,921	1.56	41,986	1.59	60,929	1.50	217,228
Barracudas	33,784	1.68	24,939	1.47	26,060	1.50	19,888	1.50	104,677
Porgies	26,545	1.57	34,577	1.52	29,563	1.52	37,031	1.51	127,716
Snooks	100	1.16	138	1.63	394	1.77	11,830	1.60	12,462
Tarpon Goatfishes	2,343 15,009	1.21	2,374	1.04	354	1.06	2,193	0.87	7,264
Sardines	23,665	1.65	26,203	1.87	20,703	1.95	22,475	1.95	84,390
King Mackarels	108,407	1.84	27,621	1.25	25,251	1.14	25,398	1.20	101,935
Cero	71,403	1.84 L84	127,697 63,924	1.92	124,496 53,769	1.70	101,572	1.94	462,172
Rays	16,161	0.98	3,149	0.84	10,201	0.97	84,711 3,637	1.07	273,807
Sharks	47,409	1.52	46,878	1.52	43,077	1.44	45,169	1.57	33,148 182,533
Wahoo	1,154	2.30	0,697	1.86	2,160	1.58	8,344	1.60	18,355
CLASSIFFIED	1,25-4	2.20	0,077	1.30	2,100	1.50	0,.144	1.00	10,333
First Class	137,856	1.50	103,248	1.77	85,684	1.79	96,539	1.98	423,327
Second Class	120,050	0.77	106,771	0.70	58,463	0.81	32,775	1.31	318,059
Third Class	65,703	1.14	33,090	1.18	49,562	1.17	40,055	1.01	195,010
Trash	86	1.09	475	1.29	568	1.46	515	1.52	1,644
Other fishes	143,640	0.29	115,481	0.28	98,079	0.47	83,572	1.80	440,772
Total Fishes	2,830,487	Lo.1	2,725,070	1.62	2,675,080	1.62	2,887,080	1.70	11,118,323
SHELLFISH		I							
Conch	260,990	2.22	213,739	2.25	281,702	2.23	328,467	2.44	1,084,898
Land crab	4,604	13.87	2,000	14.88	2,130	15.71	0,322	14.26	15,656
Lobster	298,389	5.24	326.914	5.27	258,154	5.05	285,018	2.53	1,168,475
Octopus	39,483	2.45	43,601	2.58	48,703	2.29	33,939	2.58	165,726
Marine crabs	2,478	2.94	2,513	2.41	2,211	2.09	3,351	2.50	10,553
Other shellfish	16,093	3.14	12,602	3.80	13,014	3.16	14,241	3.83	56,850
Total Shellfish	622,937	4.98	601,969	5.20	605,914	5.09	671,338	4.69	2,502,158
TOTAL	3,453,424	2.02	3,327,039	2.06	3,280,994	2.05	3,559,024	2.06	13,620,481

<sup>\*</sup> P/P - Average Price Per Pound

Part										-									ļ			
No. 10.   1.   1.   1.   1.   1.   1.   1.	SPECIES	EAST	ğ	П	l ⊢		Ιŀ		VEST	1	TOTAL		EAST		NORTH		SOUTH		WEST	H		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	HSI.	FOUNDS	AM.		+		+		SOUNDS	d/d.	POUNDS	d/d*	POUNDS	*P/P	POUNDS		POUNDS	d/d*	POUNDS	-		ď.
No. 11   11   11   11   11   11   11   11	unas							+														1
1.   1.   1.   1.   1.   1.   1.   1.	Blackfin tuna	87	1.7	.2					363	L			~		96	2.38	32		854	L		L
1.   1.   1.   1.   1.   1.   1.   1.	Little tunny	100	1.9			77	915	1.21	16.244					L			163		13,371			c
1.   1.   1.   1.   1.   1.   1.   1.	Skipjack tuna	274	1.5	ļ		09	1,485	1.20	46.826					l			2,185		31,157			
1.     1.	Yellowtin tuna	1.011				1 62	- 1	7	35,077							Į	749		36,072	ì		
1.   1.   1.   1.   1.   1.   1.   1.	Tuna calegory	2,542	7   7		_	7 7		# 5	56.543							- [	2,549		31,295			1.14
11.00   1.00	anyttov	241.0 L				6.7	- 1	1 60	34 000			ļ				1.21	25.160		7,487			1
1.00   1.01	oefish	11.846				× ×		211	13.748	1				Ш.		0.1	36,120	-	19,819			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	unkfish	11.056				15	1	1.82	51 719	1				_L		2.5	19, 00	i	10.02	$\perp$		ci i
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	olphinfish	2,466		-		22		E	0.09 07					1_		000	001 61	1	1000			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	nirrelfishes	3,206			1	20		1 36	3.741	96 0	000 81					1 13	45,129	$\perp$	010.7	l		
Table   Tabl	ullers	2774			1	33	_	2 2	1969	13 0	53.451				ľ	3	00.00	L	1.019	$\perp$	Ì	-  :
1, 10, 11, 11, 11, 11, 11, 11, 11, 11,	oks					1	+	1	10/0	-	10+00					-	24,392	3	8, 40	0.86		
1.10   1.10	Bor inch	1 101	-			100	1 657	191	005 0											1		
1, 10, 11, 11, 11, 11, 11, 11, 11, 11,	Dat Jak N	164.	1 1			9	50.7	100	9.388					-		1.86	11,459		10.826	$\perp$		
1,10,   1,10	Holse-eye jack	Č, t			Т.	़ ह	5	1.23	5.58					Ц.		-	398	1.19	1.648			
1,10,   1,   1,   1,   1,   1,   1,	yellow Jack	1	1.5		1	7 1	t-C0	7		87						2.08	096	┙	738		2,021	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Jack Calegory	1,739				7	12,906	7	29.590	92		1.57	4.55			12	4,488		12,946		38,774	
No. 11   18   1886   234   236   246   2	rrotfishes	13,017	3			8	42.389	1.51	37.506	D.S.	97.559			- 1		2.04	47,705	1.50	16,984	0.94	80.719	
1, 10, 10, 11, 11, 11, 11, 11, 11, 11,	sadno				$\perp$	-	1	+														L
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Coney	3.053	1.8		$\perp$	콨	_	2.02	4,138	1.43	13.900					2.26	3.594	1.93	2,339			
The color   The	Red hind	8,016	2.0		201 2.	37		2.06	23,652	1.89	54.974					2.40	267,71	2.08	26.335			
	Misty grouper	287	C		_	36	289	2,22	2,987	2.04						15.	1 074	5.00	7.498			
	Nassan grouper	984	1.9			50	820	1.75	14,205	1.23				1		85	1 264		8 763			Ĺ
The control of the	Yellowfin grouper	275	1.9.		_	30	311	1.57	452	1.67				1		241	308		1 000			
The color   The	Grouper calegory	7,412	2.1		L	A	10.358	1.97	17.166	28	l	ĺ					10.001	101	10 515		17 000	
Section   Sect	olarras	1917	1.5		_	99	2.714	1.65	1.280	-						1 2	2,001	2	1 000		240,14	L
The control of the	anners				L		-	-						1			010.5		1,008	⅃	7.0.77	L
	Lane snapper	29,152	2.0		┖		1	3	44 543	1.83	720 88K		,,	1		, 44	137 003		20.70	200	201 701	
11/10/10/10/10/10/10/10/10/10/10/10/10/1	Yellowtail snapper	62,939	2.0		L		1	1.95	47.932	1.73	252 016		£	_		247	107 003		47.164	1.05	250.303	
The color	Silk snapper	11,606	2.4		L.	79	L	2.98	134,003	59:5	213,124					2.86	26.739	2.74	142.003		200 000	į
The color	Mutton snapper	12,165	2.5			47	1	1.97	19,102	1.86	77.393		l	1		2 58	49.475	1 8	25.244		2,520	i
1,	Queen snapper	654	C C		L	78	1	3.03	34,457	1.8	16.069						5.871	3 00	40.160		20.340	Ĺ
	Vermillion snapper	999'9	2.0		<u></u>	36	1	2.39	3 795	2.94	16 581			1			105	2 64	513	0 0	200,00	1
11.00   1.00	Wenchman	300	1.3			E		2.60	852	2.74	0.300			1			1 513	20.5	513	0 6	10.00	
11.70   1.50   9.22   2.00   2.005   1.00   2.131   1.1   64.59   1.55   1.56	Snapper category	068'6	2.1.2			9+		1.93	16.992	1.67	56 545			1			30 805	101	10 605	1 -	2001	
1,000   1,00	geerfishes	11.795	1.5		ı	025		102	21317	=	54 307		ŀ			90-	10.001	25.1	000.71	7	160,00	7
11   12   15   15   16   17   17   17   17   17   17   17	macindas	1 907	1.7			9		1 61	13.689	0	33 764			ш.		8	10,00	1.73	000.01	1	49,921	
	roies	11.705	1 8			1 2	1_	19	3 430	100	30 50	1.00			700	6	2,013	86.1	1707	0.1	24,939	-
5.61         1.50         1.80         2.13         2.00         1.80         2.13         2.00         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         1.70         1.70         3.25         3.00         3.50         3.50         3.50         1.70         3.50 <th< td=""><td>carles</td><td></td><td></td><td></td><td>1</td><td>3 8</td><td></td><td>5 6</td><td>K#+3</td><td>100</td><td>CF. 00</td><td>CI.</td><td></td><td>- 1</td><td>/04</td><td>2</td><td>16.980</td><td>1.50</td><td>3.550</td><td>1.10</td><td>34.577</td><td>-</td></th<>	carles				1	3 8		5 6	K#+3	100	CF. 00	CI.		- 1	/04	2	16.980	1.50	3.550	1.10	34.577	-
5617         189         165         113         235         165         179         179         235         160         232         179         200         235         160         179         179         200         200         200         170         200         170 <td>DOKS</td> <td></td> <td></td> <td>-</td> <td>_</td> <td>200</td> <td>9</td> <td>100</td> <td>6</td> <td>9 2</td> <td>IOO</td> <td></td> <td></td> <td></td> <td>103</td> <td>5.00</td> <td>1</td> <td></td> <td>35</td> <td>0.88</td> <td>138</td> <td>9.</td>	DOKS			-	_	200	9	100	6	9 2	IOO				103	5.00	1		35	0.88	138	9.
1187   1981   1622   1981	rpon	1.			$\perp$	20 1	$\perp$	+	843		2.343			_	2,325	1.05	1	1	49	1.00	2,374	0.1
1187   128   1173   129   129   129	amsnes	0.01				0 9		3 5	262.2		15.009			_	582	2.2	6.97	1.69	741	1.11	26.203	1.8
The color of the	runtes	210,00	1.0			2 2			0763		3,065			- 1	18,318	2	6.277	133	1,700	1.17	27,621	1.35
66.497         1.69         1.24         1.04         1.24         1.04         1.24         1.04         1.24         1.04         <	ng Mackarens	Clarta	20.2			1/2	56.75	18.1	41.864		108.40			- 1	15.264	1.95	22.920	1.1	59.349	1.82	127.697	1.92
6697         16         12.36         18         1.10         0.98         5.15         1.00         0.98         5.14         0.98         5.14         0.98         5.14         0.98         5.14         0.98         5.14         0.98         5.15         0.10         0.33         2.15         0.7         3.14         0.2         0.24         0.29         0.24         0.10         0.28         0.10         0.24         0.15         0.20         0.24         0.25         0.25         0.25         0.27         2.0         0.27         0.10         0.14         1.9         1.51         1.51         1.51         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24 </td <td>TO THE</td> <td>11.0</td> <td>1.3</td> <td></td> <td></td> <td>9 5</td> <td>- 1</td> <td></td> <td>066</td> <td>- 1</td> <td>1.103</td> <td>S</td> <td>-</td> <td></td> <td>266.6</td> <td>2.18</td> <td>30,262</td> <td>1.94</td> <td>10,449</td> <td>1.50</td> <td>63,924</td> <td>1.9</td>	TO THE	11.0	1.3			9 5	- 1		066	- 1	1.103	S	-		266.6	2.18	30,262	1.94	10,449	1.50	63,924	1.9
1,000   1,00	N.S.	2099	131			20 5		5 .	14, 104		16.161	860					460	0.83	2.155	0.3	3,149	0.8
Column   C	da ka	600	1.0		-			0.00	10.00		60+:·+	1.52			10,706	1.76	8,436	1.80	15.718	1.15	46.878	1.5
60.402         193         4.567         131         15.845         1.06         57.045         1.37         1.15.856         1.50         44.439         2.05         3.44         1.97         1.3.75         1.27         1.19         2.06         3.44         1.97         1.3.75         1.27         1.19         2.06         3.44         1.97         1.3.75         1.27         1.19         2.06         3.44         0.77         1.14         3.2.70         1.18         2.07         0.07         1.14         3.2.70         1.18         2.07         0.07         1.14         3.2.70         1.14         0.07         1.14         3.2.70         1.14         0.07         1.14         3.2.70         1.14         0.07         1.14         3.2.70         1.14         0.07         1.14         3.2.70         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         1.14         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07	ASSIEDIED			-	1	£	$\perp$	3	Ŕ	88	Z.	08.3			277	2.00	4.734	1.50	1.454	1.85	6,697	1.8
Colorest	First Clerk	CO1 03	1 63		$\perp$			13	21013	,	720 25.					1		+				
Colored Colo	F List Class	204.00	1.2		$\perp$		- 1	00.1	240.VC	1.3	900 000			- 1	7	1.97	13.275	1 27	45,190	1.60	103,248	
String   S	Third Class	255 09	-		$\perp$		- 1	1 03	00.00	8 3	120,030			- 1	224	1.63	23.704	0.63	82,389	0.75	106,771	0.7
8.245 100 59.251 0.59 83.668 0.22 22.556 0.22 143.640 0.25 126 0.25 17.0 126.55 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Trach	92	100		$\perp$		1	5 5	000	00.0	00,00				017	00:1	306	0.86	莱	0.70	33,090	-
4.646   169   411498   135   535.214   163   1,099.311   1.40   2,804.455   1,66   530.75   1,75   396.853   199   875.659   1,66   911.813   1,40   2,804.455   1,66   1,75   396.853   1,69   875.659   1,66   911.813   1,40   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20   1,20   2,20	Other fishes	\$ 245	1		9	02	1	0.30	253.50	3 8	30 500			- [		1	150	0.65	103	0.75	475	2
Title   Titl	nai Fishes	476.463	1.65		-		Ш.	1 59	1 689 311	1 9	7 830 185	1 66	ľ	Ш.	30.6 200	0 9	38,801	57.0	47.5.4	9 .	115,481	
Time								-						1_	0.000		0.0.00	00.1	251.045		- 7-0.009	0
Time	TELLFISH															T		ľ				
1,005   12.45   1,064   12.85   2.346   14.58   2.346   14.54   14.54   14.35   13.44   14.15   551   12.56   34.3   18.50   2.360   12.50   12.50   12.50   14.50   12.50   14.50	onch	E E	2.16		_4		. F	2.26	141.003	2.16	260.990				1.581	3.27	44.087	2.3	116,003	2.08	213.739	či ci
55.70         5.28         16.683         6.20         125.003         5.13         101,003         5.14         298,389         5.34         7.2885         5.50         14.02         6.01         133.00         5.06         197.00         5.18         306.01         20.00         <	nd crab	1.008	수리				2,246 1	4.58	289	15.51	+.604				1.394	14.13	551	12.50	343	18.50	2,600	14.8
2.563 2.50 2.506 2.507 2.516 2.21 1.226 2.19 3.9435 2.45 2.48 2.51 2.348 3.51 2.52 3.44 3.50 2.50 4.3601 2.50 4.3601 2.51 2.21 1.226 2.11 1.226 2.20 2.41 2.52 3.40 1.206 2.50 1.246 2.50 1	bstcr	55,700	5.25	- [		{	125,003	5.13	101,003	2.	298,389				14.023	6.03	133.003	5.08	107.003	5.18	326.914	5.2
8 2.50 4.27 5.31 817 2.21 1.226 2.22 2.478 2.94 77 3.14 288 3.46 1.849 2.14 302 2.50 2.531	ropus	2,263	2.5(				30.545	2.50	4.169	2.19	39.483		"	_	2,348	3.09	32,781	2.62	5.974	2.28	43,601	2.58
109 3.62 1.658 2.70 2.638 3.68 12.018 2.15 16.993 3.14 1.076 3.80 4.059 3.62 3.113 1.27 (3.31 2.63 12.69) 12.69 13.109 4.75 24.526 5.46 207.374 5.06 259.98 4.95 67.296 5.05 128.916 5.21 23.690 5.60 215.414 4.83 233.949 5.53 601.969	arme crabs	∞	3 50		- 1	E .		2.21	1.226	티	2.478			1	285	3.46	1.849	2.14	302	2.50	2,513	2.41
31,526 5.46 207.374 5.06 259,938 4.95 622,936 5.05 138,916 5.21 23,690 5.60 215,414 4.83 233,949 5.53 601,969	her shellften	601	3.6	1		1		3.68	12.248	\$ CT	16.90			- 1	4,059	3.62	3,143	1.24	1,324	2.63	12.603	č
	ital Shellfish	131.099	7				- 1	90.5	259.938	4 95	10000									1		

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	SPECIES	POLNDS	T	NORTH		SOUTH		WEST		TOTAL	#D,D	EAST		NORTH		SOUTH		WEST		TOTAL	9
The control of the	FISH				П				1					CONT.	1 1	I CONTO	1 1	LOUINDS		FOUNDS	4/4
Column   C	unas Blackfin tuna	81			1.50	36	1.50	3,108	1.06	3,274	1.10		1.87		1.51		101	062.66	1 04	780 50	1.
	Little nunny	191				976	1 44	13,244	1.26	17,176	1.03		17.		1.39		1.60	10.899	0.86	20,323	12
1.   1.   1.   1.   1.   1.   1.   1.	Skipjack tuna	2,555				3.355	1.33	22.590	06:0	32,174	1.14		1.20		1.49	2	1.34	28,001	0.87	38,391	1.0
18   18   18   18   18   18   18   18	Yellowfin tuna	2,850				1.681	1.18	39,984	68.0	46,755			2.29		1.46		1.65		1.03	35,392	-
1.   1.   1.   1.   1.   1.   1.   1.	Tuna category	6.519				23.862	1 2	20.380	1 77	58,165	0 2		15		1.55	ľ	1.62		0.93	26.147	E :
18   18   18   18   18   18   18   18	Frunts	29,541				55,468	1.45	25.684	86.0	118.344	1.48		1 55		1 69		1 16		1.20	156 641	
1.   1.   1.   1.   1.   1.   1.   1.	Hoefish	18,032				28.326	2.18	10.946	2.10	58,419	2.17		2 201		3.32		0,50		100	130,041	4.1
1.   1.   1.   1.   1.   1.   1.   1.	Trunkfish	16,580			9.5	23,127	1.71	43,216	191	83,795	1 69		1.53		61.5		1.83		1 00	77 813	1 -
1.11   1.12	Oolphinfish	2,738			2.08	60,010	1.35	\$7,063	1.41	137,729	1.57		2.31		2.24		212	165 61	7	711 075	
Column   C	Squirrelfishes	3,442			1.37	7,297	1.30	2,200	0.74	16.038	1.27		1.33		1.28		1 30	2 168	27.0	18 313	
1.   1.   1.   1.   1.   1.   1.   1.	Mullets	3.711		_	1.32	24,782	E1	6,485	1.09	54,106	1.25		1.13		1.35		1.16	6.056	0.0	901 19	-
1871   1872	lacks																		2	21,1	
1.   1.   1.   1.   1.   1.   1.   1.	Bar jack	9.236			1.76	16.017		11,964	1.04	15,265	1.35		1.36	12,931	171	15.072	1.50	982 21	1 06	50.845	1.4
1.   1.   1.   1.   1.   1.   1.   1.	Horse-eye jack	86			1.83	732		2.457	1.13	7,568	1.58		1.96	2.925	1.61	674	111	2314	F6 0	20,00	
1.   1.   1.   1.   1.   1.   1.   1.	Yellow jack	122			1.85	923		654	1.38	2,460	1.58		560		1.83	155	147	2.003	1.08	150 %	
1,12,   1,   1,     1,	Jack Category	1.93			1.72	7,924		4,739	1.27	30,405	1.45		1.30	5	1.57	3.438	1 31	13.743	1 20	38 168	
1.   1.   1.   1.   1.   1.   1.   1.	Parrothshes	19,629			2.06	41,259		9,748	96.0	73,973	1.55	''	1.43	8,195	12	156.94	95	1384	0.80	99 755	
1, 10, 11, 11, 11, 11, 11, 11, 11, 11,	Groupers																		100	000000	-
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Coney	3,122			2.25	4,219	1.82	2.870	1.78	11,671	2.00	106.4	2.02		2.18	1000	1.0	, 193	1 60	16.041	-
This   1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Red hind	12,932			2.38	21.987	2.06	19,673	1.96	61.239	2.09		2.09		2.42		217	20.872	203	860 69	
	Misty grouper	628				756	2.18	3.168	2.04	5,264	2.12		2.09		2.45		80 0	0 180		550.50	ê
186   187	Nassau grouper	1,242				1.818	1.72	8,057	1.39	12.965	165		1 92		05.0		1.63	7,630	1.46	20E 91	i
The color	Yellowfin grouper					10,225	2.09	6.4	2.00	11,208	2.10		2.07		341		2.18	808	201	3 708	0.1
1,000   1,00	Grouper category					13,867	2.18	12,671	1.84	40,761	2,16		2.32		2.33	11 136	2 18	901.6	100	54 180	4 6
WHITE (1978)         S. S	Moiarras	4,062			-	4,371	5.1	1.523	1.78	18,249	1.69		1.67		171	077.0	1 53	1 543	1 06	19.445	10
47.4         7.5         8.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         18.5         2.5         2.5         18.5         2.5         18.5         2.5	Snappers																	200		71.77	
TANDA         2.25         NATA         2.25 <t< td=""><td>Lane snapper</td><td>31,114</td><td></td><td></td><td>2.37</td><td>145,003</td><td>2.00</td><td>27,137</td><td>1.89</td><td>211,517</td><td>2.04</td><td>32,929</td><td>2.19</td><td>12,577</td><td>2.35</td><td>108,003</td><td>2.08</td><td>32.716</td><td>40.0</td><td>186 225</td><td>0.1</td></t<>	Lane snapper	31,114			2.37	145,003	2.00	27,137	1.89	211,517	2.04	32,929	2.19	12,577	2.35	108,003	2.08	32.716	40.0	186 225	0.1
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Yellowtail snappe				2.25	189,003	1.73	52,601	1.75	363,508	1.93	119,003	2.27	65,975	2.30	90,233	2.06	53.787	1.86	328 998	1
TOTATION	Silk snapper				2.59	28,759	2.81	121,003	2.62	198,483	2.66	55.818	2.88	64,922	2.84	29,979	3.08	141,003	2.80	291,722	28.5
This control   1.5   1	Mutton snapper			ı	2.35	46,925	1.95	16.530	1.90	86.807	2.03	17.970	2.30	15.692	2.30		2.06	19,176	2.	90,583	2 1
	Queen snapper				2.85	4,390	20.6	70.820	2.70	82.866	2.76		2.45	18,953	2.88		3.33	75,489	2.79	107,671	28
1.65   1.5	Vermillion snappe				2,42	733	2.88	4.886	2.48	795.22	2.30		2.15	8.824	2.36		2.49	3,850	2.93	14.891	23
0.97         1.74         2.13         1.15         2.86         1.65 <th< td=""><td>Wenchman</td><td>973</td><td>1.89</td><td></td><td>=</td><td>1.238</td><td>2.61</td><td>2,351</td><td>2.84</td><td>4.952</td><td>2.31</td><td></td><td>2.05</td><td>622</td><td>2.79</td><td>-  </td><td>3.01</td><td>4,297</td><td>2.94</td><td>7,731</td><td>2.7</td></th<>	Wenchman	973	1.89		=	1.238	2.61	2,351	2.84	4.952	2.31		2.05	622	2.79	-	3.01	4,297	2.94	7,731	2.7
10.00   1.5   1.	Snapper category	7,450			57	29.854	1.92	5.807	1.65	50.237	1.98		2.20	13,718	224		1.98	11.503	1.87	60.114	2.0
1.1   1.2   1.3	Inggerfishes	10.9.8			86	11.78	2	12,311	1.27	41.986	1.59		1.40	6,445	1.87	22.658	1.70	13,049	1.15	60,929	1.5
12.00   12.0	Затасидая	C.001			1.62	16,172	151	3.968	1.13	26,066	1.50		1.54	5.833	1.49	10.362	1.58	2,323	1.22	19,888	1.5(
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	orgaes	10.91			30.0	14.399	56.1	3,461	1.58	29,363	1.52		148	1. J	1.51	18,194	9	1.961	1.2	37,031	1.5
12,100   2.25   4654   105   2.10   1.14   1.15   2.25   1.15   1.26	Sneoks		UC.I		27.7	1		66.	09.1	35	17.7		F	3,621	5	4.659	1.69	1.925	1.12	11.830	1.60
Table   Tabl	Carpon	12.030		165	1 05	7102	-	C 000	00.0	400 Oc	1.06	20 51	0.63	1,8/1	1100	100	i	301	0.47	2,193	0.8
1186   1134	Cardines	28.		15.221	1.03	2 039		2000	1.05	05.05	5 -	12,0.1	C1	10.05	13.0	8 2.7.5	7 2	696	0 0	22,475	6.1
Hear   121   Hear   1.5   19.71   Hear   1.5	King Mackarels	21.895			1.78	51.283	1.53	39.878	191	124.496	1.70	21 304	91 0	21 510	188	23.150	9 6	35.608	1.75	101 573	7
1146   121   128	Cero	14.687			1.75	19,718	1.81	4,720	1.81	53.769	1.90		2.18	8.270	1 96	10.4	191	1299	3	20101	2
12.182   1.73   8.294   1.56   6.597   1.64   1.66   1.6	Rays	1.146				1.363	0.75	2691	0.82	10.201	-60		1.33	1.151	0.98	45	2.50	1.136	0.92	3.637	10.
1.288         1.88         1.28         1.28         1.28         1.28         1.28         1.28         1.29         1.28         1.28         1.28         1.28         1.28         1.29         1.28         1.29         1.28         1.29 <t< td=""><td>Sharks</td><td>12,182</td><td></td><td></td><td>1.56</td><td>-65.9</td><td>1.61</td><td>16,007</td><td>1.06</td><td>43,077</td><td>1.44</td><td>-  </td><td>1.82</td><td>19.160</td><td>1.65</td><td>6,465</td><td>1.78</td><td>9,564</td><td>1.07</td><td>45.169</td><td>1.57</td></t<>	Sharks	12,182			1.56	-65.9	1.61	16,007	1.06	43,077	1.44	-	1.82	19.160	1.65	6,465	1.78	9,564	1.07	45.169	1.57
17.541   2.01   567   2.02   10.119   1.25   27.556   17.4   85.684   1.79   60.045   2.04   1.51   1.61   1.55   2.07	Waltoo			1.268	1.82	130	1.43	22	1.48	2,160	1.58			180	2.04	1.108	31	7.056	1.56	8,344	191
44.895         1.22         1.64         1.64         0.97         58.463         0.81         15.10         1.04         1.04         0.97         58.463         1.75         1.64         1.04	First Class	17.502	2.01	20%	2.00	10 119	5.	75 5°C	-	85.681	1 70	50 015	100	131	1.63	16 507	2000	) de oc	91.	200	
44885         122         4667         0.64         47.562         1.17         36.03         1.06         150         1.05         <	Second Class		3		i	18 637	1.0	30 104	0 97	58.463	180	15.124	1.51	116	100	5.400	90 -	20.790	2.0	96,359	5 3
Fig.   174   1586   104   467   154   467   158   467   98.079   0.47   56.8   184   20.96   1.76   50.231   1.81   5812   1.40   88.575   1.02   50.245   1.02	Third Class	44,895				4,667	0.64			49,562	112	36,038	106	61	1 00	10.501	0.80	70	0.83	35,025	
Table   1586   10   64191   0.37   10.88   0.47   98.079   0.47   6.568   184   20.961   1.97   50.231   1.81   5.812   1.40   83.572   1.40	Trash	61	7.			191	1.54	10	0.50	899	1.46	11	1.00	23	1.00	393	1.59	OS.	1.50	515	3
1860   1861   1866   1862   1862   1862   1864   1865   1864   1865	Other fishes	7,142		15.865	1.01	64.191	0.37	10.881	0.47	98.079	0.47	895'9	1.84	20.961	1.97	50.231	181	5.812	1.40	83.572	1.80
98.610         2.31         1.308         2.63         45.781         2.03         1.66.686         2.55         2.13         2.71         41.465         2.55         188.003         2.16         33.27         4.57         4.71         1.66         1.66         1.67         1.67         1.41         5.79         1.416         2.55         1.88         0.3         2.16         3.88         0.3         2.16         3.88         0.3         2.17         4.46         2.55         1.80         3.17         4.146         2.88         0.3         2.11         2.11         1.60         3.13         2.11         4.146         2.88         3.50         1.60         3.14         3.50         3.14         3.50         3.14         3.50         3.14         3.50         3.14         3.50         3.14         3.50         3.20 <td>Total Fishes</td> <td>490.144</td> <td></td> <td>325,740</td> <td>1.92</td> <td>1.038,743</td> <td>1.62</td> <td>820,453</td> <td>1.45</td> <td>2,675,080</td> <td>1.72</td> <td>728,009</td> <td>1.76</td> <td>507,428</td> <td>1.84</td> <td>837, 759</td> <td>1.78</td> <td>814,490</td> <td>1.47</td> <td>2,887,686</td> <td>1.70</td>	Total Fishes	490.144		325,740	1.92	1.038,743	1.62	820,453	1.45	2,675,080	1.72	728,009	1.76	507,428	1.84	837, 759	1.78	814,490	1.47	2,887,686	1.70
98.610         2.31         1.308         2.65         4.578         2.81         2.03         2.66.68         2.55         2.31         2.71         4.146         2.85         1.89         2.10         2.14         4.14         2.00         2.81         2.00         2.81         2.71         4.146         2.85         1.89         2.14         4.146         2.85         1.89         2.14         1.204         4.89         6.887         4.90         2.130         1.57         4.141         5.79         4.146         5.79         1.004         5.35         1.12.03         8.803         2.80         8.20         1.1004         5.35         1.12.03         8.803         9.80         1.1004         5.35         1.1004         5.32         1.1004         5.35         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1.1004         5.32         1	ATT. 1 P. C. 1.					†	$\dagger$														
Color   Colo	SHELLFISH	98.610		1 308	2,63	16.791	, 33	136 003	00,	100		707 70	23.0		i						Ì
68.437         5.44         10.837         5.51         112.003         4.85         66.887         4.92         2.88144         5.05         97.141         5.79         20.905         5.36         10.004         5.35         5.05         7.13         4.87         2.887         2.897         2.80         2.61         2.59         2.59         2.80         2.61         2.59         2.61         2.59         2.81         2.87         2.88         2.61         2.89         2.61         2.89         2.61         2.89         2.61         2.89         2.61         2.89         2.61         2.89         2.61         2.89         2.89         2.89         2.81         3.89         2.81         2.89         2.81         3.89         2.81         2.89         2.89         2.81         3.89         3.89         2	i and crait	1.081		536	(S) 12	1	14 02	55	1.00	7 130	13.71	150.00	12 11	195	1 :		8	188,003	2.16	328.467	4.5
2.39 2.73 1.37 2.45 41.417 2.28 3.552 1.93 48.703 2.29 2.837 2.86 2.16 5.61 25.98 2.615 2.28 2.615 2.24 33.099 2.83 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05	Lobster	68.437		10,837	5.51	112,003	4.85	66.877	4.92	258.154	5.05	97,141	5.79	20.955	2.96		5 35	\$6.018	5.26	285,018	5.4
344   202   135   300   1456   213   276   187   2211   2.09   236   2.16   560   3.74   1.859   2.28   646   1.94   3.351   3.151   2.77   1.711   2.77   1.711   2.79   2.0465   2.18   2.1	Octopus	2,393		1.371	2.45	41,417	2.28	3,522	1.93	48.703	2.29	2.837	2.86	2,500	2.61		2.58	2.615	2.24	33,939	2.58
1,2,558   3.75   1,591   2,53   2,53   2,53   3,55   3,5	Marine crabs	344		135	3.00	1.456	2.13	376	1.82	112.2	2.09	286	2.16	260	3.74		2.28	646	1.94	3,351	2.50
6637(c) 241 34118 24 24118 2 20 000 20 1 20 000 000 000 000 000 00	Other shellfish	173 563		16 379	0.7	305 300	2 6	28.7	G. :	13.014	3.16	1,988	00	4.800	2.53		1.68	1.511	2.77	14,241	3.83
	Total Sheimsn	707.674	3.41	347 118	2 5	1 744 147	20.4	1.031.037	1 60	2 200 004	50.0	200.465	5.35	32,389	5.32	182,654	5.19	255,830	× ;	671.338	5.16

# TABLE 2. LANDINGS REPORTED BY SPECIES AND BY GEAR IN PUERTO RICO DURING 1998.

| The Shares | Other shellfish   | Manne crabe                     | Octobits   | Lobster   | Cond orah  | SHELLFISH  | GREL LEISH   | Total Fishes   | Other bshes  | Dirt & L  
   | Trash  | Third Class  | Second Class   | First Class  | CLASSIFFIED  | water   | Wance  | Sharks  | Rays  | Cero  
  | King Mackarels  | Sardines   | Coatusties                             | Costichos  | Tarnon | Snooks  | Porgres   | Barracudas   
   | Inggertish                                | Shapper calegory | успеннан | Wandana | Vermillion snapper   | Oneen snapper | Mutten snapper | Silk snapper | Yellowtail snapper                       | Lane snapper   | Snappers  | Mojarras   | Grouper category  
  | renow iiii grouper   | Valloutin (Tomper  | Viscous property   | Visit grouper  | Red hind   
   | Circulation | Crouners | Parrorrishes   | lack Category  | Yellow jack   | Horse-eve jack   | Ваг јаск | Jacks  | Mullets   
   | Squireifishes   | Dolphingsh | Trunkfish | Hognsh  | Crants | Dallylloo | Ballyhan   | Tima category | Yellowfin funa  | Skipjack tuna  
  | Little hunny | Blackfin tuna | Tunas | FISH            |                  | SPECIES  |
|------------|---|---------------------------------|--|---|--|--|--|--|--
---|--|--|--|--|--|---
--|---|---|--|---|--|--|--|--------|---------
---|--|---|------------------|----------|---------|--|---------------|----------------|--------------|--|--
---|--|--|--
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---	---	--------------	---------------	-------	-----------------
1000	350 6	n	94	0.50	7
   | 2  | 0  | 700  | 0  |  |   | 0  | 844   | 0   | 388   
  | 1931  | 14.  | 0.10                                   | 01   | 109    | 0       | 5   | 5.169  
   | 15,422                                    | 801.3            | 120      |         | 0 -  | 0             | 10167          | 0            | £  | 3,044  |   | 1.062  | و   
  |  | 0  | > (  | ٥  | 0.   
   | -           |          | 253  | 2.0±.c   | 10  | 20   | 3.373    |  | 957   
   | 20  | 01.        | 1951      | 20  | 1,239  | 1003      | Total  | - 199         | 143   | 1,723  
  | 1,494        | 0             |       |                 |                  |  |
| 105.200    | 105.1   | 1 370                           | 1,475  | 101 756   | 2  | 111  |  | 000 to 400   | 16   | 6 100   
   | 12   | 32,520   | お.524  | 44,504   |  | C   | 2  | 0   | 0   | ت   
  | 9   | \$   | 11,901                                 | 11.051   | 5.     | 0       | 1066711   | 8041   
   | 11.009                                    | 10.442           | 10 10    | 1351    | 101 t  | IF C.         | [8.56]         | 1867.1       | 1586.61                                  | -9.86×   |   | 1.030  | 815.8   
  | 27.0   | 1981   | 2 7 7 7  | Irea   | 1741   
   | 1807        | 1 1 0 1  | 110, 17  | 1.003  | 288   | 87   | 1,674    |  | 2.100   
   | 9,135   | 10         | 58.398    | 11.454  | 1.7.4  | 12.0 mg   |  | 0             | 0   | 0  
  | 0            | 0,            |       |                 | s.               |  | | | | | | |
| 5          | ۵   |                                 | 1.00   | 80 OF   |  |  |  | <u>ئ</u><br>اوا  |  |   
   |  |  |  |  |  |   |  | -   |   |   
  |   |  |  | اد   |        |         | 0(  |  
   |   |                  |          |         |  |               | 12             |              |  | 12   |   |  |   
  |  |  | =  |  | <u>×</u>   
   |             |          |  |  |   |  |          |  | 0.  
   |   |            | 3,01      |   | واد    |           |  |               | 18  |  
  |              |               |       |                 | TRAP<br>Pounds)  | LOBSTER  |
| ,          |   |                                 | ,  |   | 2,012  | 101  |  | 405,594  | 01. th   | 3716  
   | 2  | 1 1.972  | 10.564   | 0,493  |  |   |  | 5.81  | 2,074   | 0] 2.548  
  | 1,150   | 3,136  | 1163                                   | . 103  | 901 3  | )       | 7.01 د  | 165'0  
   | 1403                                      | 3.800            | 0000     | 110     | 0  |               |                |              |  |  |   | ) 14.587   |   
  |  |  |  |  |  
   | 10-         |          | 3 3 1 3 5  | ) [6, 3]   | 300   | ) [  | 3.286    |  |   
   |   | 01.340     |           | Ī   |        |           |  |               |   |  
  | 0 TS3        | 0             |       |                 | (Pounds)         | CILL   |
|            |   |                                 |  |   | 5  | 3.7  |  |  |  |   
   |  |  |  |  |  | 1   |  |   |   |   
  |   |  |  |  |        |         |   |  
   |   |                  |          |         |  |               |                |              |  | 90.1a  |   |  |   
  |  |  |  |  |  
   |             |          |  |  |   |  |          |  |   
   |   |            |           |   |        |           |  |               |   |  
  | _            | ±-            |       |                 | (Pounds)         | BOTTOM   |
|            |   |                                 |  | 0 0   |  | , =  |  | 318  |  |   
   |  |  |  |  |  | 1.00  |  |   |   |   
  |   |  |  | 3 2  |        |         |   | 277  
   | , c                                       | 1                | _ 7      | 5 4     |  | 2             | 200            |              | ŏ  | 3  |   |  |   
  |  |  |  | ,  |  
   |             |          |  |  |   |  |          |  |   
   |   |            |           |   |        |           |  |               |   |  
  |              | 30            |       |                 | (Pounds)         | TROLL  |
| ]          |   |                                 |  | 2   | 2 6  |  |  |  |  |   
   |  |  |  |  |  |   |  | 0.0   |   |   
  |   |  |  |  | O.     |         |   | ٥  
   | 3   | 00               |          |         | 0  | 0             | NS 1           |              | 0.142                                    | 20.05  |   |  |   
  |  |  |  |  |  
   |             |          |  | در   |   |  |          |  |   
   |   |            |           | ٠   |        |           |  |               |   |  
  |              | Ü             |       |                 | LINE<br>(Pounds) | LONG   |
|            |   |                                 |  | 2 5   |  |  |  |  |  | ,   
   |  | 3  | 32   | )  |  | 01  |  | 2   | Ω.  | .±=   
  |   | 9  |  | 215  | )      | )       | <u>~</u>  |  
   |   |                  |          |         | 3  | 2             | 2              | 0            | ٥  |  |   | o.   |   
  | 0.1  | 3  |  |  | 8  
   | 2           |          | 21:  |  | 2   | _  | 3        |  | 4   
   | =   | 0          |           | 3   |        | 1 0       | 7  | 0             | 0   | =  
  | 2            | 0             |       |                 | TRAP<br>(Pounds) | LAND CRAB  |
| -          |   |                                 | 0  | 0   | 204  |  |  | 9  |  | 3 0   
   | 0  | O O  | 9  | 0  |  | 9   | 3  | 9   | 0   | ೨   
  | 0   | 0  | 0                                      | ٥  | ٥      | 0       | 0   | 0.1  
   | 9   | ) C              | 2 0      | 0       | 9  | 2             | <u></u>        | 0            | 0  | 0  |   | 0  | 9   
  | 9  | ٥  |  | 0  | 0 5  
   | 2           |          | 0  | 0  | <u>0</u>  | 16   | Û        |  | 0   
   | 9   | ٥          | 0         | c   | 2 2    | 2 0       | و د  | 0             | 0   | 0  
  | ೦            | o             |       |                 | NET (Pounds)     | CAST   |
| 10         | 110   | 3, 0                            | 2 0  | 0   | و د  |  |  | 511  | TTO  |   
   | ار   | 0  | 0  | 0  |  | c   | ٥  | 9   | 0   | 0   
  | 0   | 807  | 15                                     | 36   | O      | 0       | 58  | 69   
   |   |                  |          | 2 5     | 15   | <u>-)</u>     | 1871           | 42           | 213                                      | 324  |   | 560  | 0   
  | 0  | 2 8  | 0 0  | 2 (  | 2  
   | -           |          | 8  | 55   | 0   | 321  | 25       |  | .83   
   | 17  | 0          | 228       | 0   | 109    | 160       | 1 50   | 0             | 2   | 0  
  | ន            | 0             |       |                 | (Pounds)         | ROD AND  | | | | |
|            |   |                                 |  |   |  | ,  |  | 12   |  |   
   | 0  | 0  | 0  | 0  |  | c   |  |   |   |   
  |   |  | J                                      | > <  | 0      | <u></u> | 0   | 0  
   | 0)  | 9                | 2        | 2       |  | ٥             | (ن             |              |  | 01   |   |  |   
  |  |  |  |  |  
   |             |          | 2 3  | ر ب  | ټ   | <u>e</u> .   | 0        |  | 0   
   | 0)  | 0          | 0         | 0   |        | 2 0       | 0  | 2             | 0   | 0  
  | 0            | 01            |       | (a common)      | DIVING (Pounds)  | SKIN   | | | | |
| :          |   |                                 |  |   |  |  |  |  |  |   
   |  |  |  | 0 28.992   |  |   |  | -   |   |   
  |   |  |  |  |        |         |   |  
   |   |                  |          |         | 3 4  | 2 .           | 1000           |              |  | 0 1.05   |   |  | 5   
  |  |  |  |  | -  
   |             |          | 7  |  |   |  |          |  | 33  
   | 01 12   | 0)         | 77 9,12   | 1 92  |        |           | tile of a line   |               |   | |
  | 9            | 0             |       | The Contraction | DIVING (Pounds)  | SCUBA  |
|            |   |                                 |  |   |  |  |  | 12   |  |   
   |  |  |  |  |  |   |  |   |   |   
  |   | 2  |  | 0  | 2      |         | )   | 5  
   | 3.  | 0                |          |         | 7  |               |                |              |  | =  |   |  | S.  
  | 19   | 0  | 1  | 2 0  | 2 5  
   | ~           |          | 0 0  | 2  | -   | 0  |          |  |   
   |   |            |           |   |        |           |  | 0 0           | 0   | 0  
  | 9            | 0             |       |                 | (Pounds)         | TRAMMEL  | | | | |
|            |   |                                 |  |   |  |  |  |  |  |   
   | 0  | 10   | 5.801  | 2,300  |  | c   | 0  | 1 584   | 3,500   |   
  | 8   | 1  | 3                                      | 23.  | ್ಷ     | 9       | ٤   | 150  
   | É   | 1,231            |          | 3       | 2  | 0 46.06°      | 2510           | 0            | 3.550                                    | 3.895  |   | 63   | #11   
  |  | 0 1  | 5 9  | 2  | \$30°  
   | 2           | 100      | 181  | 108<br>1   | 0   | 30   | 2        |  | -82   
   | 1.142   | 133        | 3,852     | 197   | 3 00   | 3 2 0     | 3,   | 0             | 0   | 0  
  | 145          | 0             |       |                 | (Pounds)         | TOTAL  |
|            | 1000   1000 | 2.038 1.001 86 920 0 0 12.41 83 | 0 1.30 0 34 0 0 0 25 0 0 1.043 36<br>2.038 1.501 86 920 0 0 0 218 0 0 12.41 83 | 94         1.475         2.72         181         0         0         0         0         0         2503         16.766         249           0         1.370         0         54         0         0         0         0         0         0         1.043         36           2.038         1.501         86         930         0         0         0         0         128         0         0         12.47         83           3.750         1.501         86         930         0         0         0         0         0         0         12.47         83 | 2,050         101,266         40,086         1,051         0         0         0         0         7,41         132,091         14,303           94         1,475         2,72         181         0         0         0         0         0         7,51         182,091         16,76         239           0         1,320         0         54         0         0         0         0         25         0         0         1,043         36           2,038         1,501         86         920         0         0         0         218         0         0         12,417         83           2,038         1,501         86         920         0         0         0         218         0         0         12,417         83 | 20     10     20     < | 96         137         0         2.812         3.741         0.413         0         0         0         0         7.536         240,058           0         1,2001         1         1,2001         1         1,2001         1         1,2001         1         1,2001 | 96     137     0     2812     3.741     0.413     0     0     0     7.536     240,058     197       1,050     101,266     1,052     0     0     0     0     0     0     0     0     0     0     132,091     143,093       1,051     1,252     1,252     0     0     0     0     0     0     541     1,32,091     143,093       1,208     1,251     272     1831     0     0     0     0     0     0     25     0     0     1,679     29       2,038     1,251     36     320     0     0     0     0     218     0     0     12,417     83       3,038     1,551     36     320     0     0     0     0     12,817     0     0     12,417     83 | 13.7   14.203   14.203   14.203   15. | 10.   10. | 10_T   46-T2   12   62_48   9,814   1,031   1,073   0   2,041   0   1,50   3,198   3,202 | 10   15   10   12   12   12   13   10   13   10   10   10   13   10   10 | 1,000   1,00 | 1967   16.524   0   10.564   5.710   12   13   9   0   0   0   120   55.801     10   0   32.50   1   1   10.72   3.739   0   0   0   0   0   0   3.198     10   10   12   12   12   12   12   12 | 14.504   10   14.504   10   12.386   18.5   10   10   10   10   10   12.505   12.5 | 1.50   1.50 | 1,000   0,00 | 10   0   0   0   15   133   1,006   0   0   0   0   0   0   0   0   0 | 844   0   0   58    1282   124   10.755   0   0   0   0   1.193   1.584     0 | State   Stat | 888         0         2.548         28.14         31.833         22.1         0         1.77         120         309         1.71           844         0         0         2.548         28.12         31.833         22.1         0         0         1.77         120         13.600           844         0         0         38.7         22.882         1.23         10.75         0         0         0         0         1103         1.844           0         0         0         0         1.124         10.75         0         0         0         0         0         1.103         1.844           0         0         0         0         1.124         10.75         0 | 1888   90   90   1248   1883   199   198 | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 1,121   1,121   1,122   1,123   1,12 | 18     | 180     | 199   190   190   191 | 107   11,000   00   0.107   12,008   00   0.108   0.00   0.108   0.00   0.109   0.10 | Si   Ho   Ho   Ho   Ho   Ho   Ho   Ho   H |                  |          | Rey     | The color of the |               | Part           |              | 18.   14.1   1.   1.   1.   1.   1.   1. | Depart   1,277   1,988   31    4,164   290-200   1,159   1,1 | Mart   Mart | March   Marc | 1,000   1,00 | Column   C | Column   C | Column   C | The color of the | Column   C |             |          | Column   C | Column   C | 1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.       1. | Column   C | 1.       | Column   C | No.   No. | No.   No. |            | Column    | No. 1985   No. 1985 |        |           | March   Marc |               | The control of the | No. 1971   No. 1972   No. 1972 |              |               |       |                 |                  | Columb   C |

		12 2	0 191 54 96 0		000	0 0 0	74 2.443 5,842	19 0 30,430	2,087 1,584 5,601 139,275	იყ 0 54	Other shellfish Total Shellfish
Since	22,538 307 6,876 0 1,519 160,395 201,003 201,003 129,490 1129,490 1129,490 1129,490 1129,490 1129,490 1129,490 1129,490	12	191 54 96		0 0	0 0	2,443	0 61 107	2,087 1,584 5,601	09 0 54	Other shellfish
		12	191 54		0	0	<u>.</u>	01	2,087	00	
		12	191		-		0.00	///	280 (	00	Marine crabe
	22,538 307 6,876 6,876 1,519 1,60,305 201,003 0 139,460	10 12	0		0	0	558	1.06			Octopus
		12 22	0		0	0	2,767	30.207	£00.0£1	450	Lobster
March   Marc		12		2	0	0	0	0	0	0	Land crab
		2	0		0	0	0	0	0	0	Conch
SERVER         Changelone         Orapholone         Changelone         Changelone<		2									SHELLFISH
Charable         Probable         Probable         Probable         Charable         Probable		2									
			32,197		313,904	101,539	443,643	1.00,1	536,021	52,800	Total Fishes
The bold	0	700	848	3,803	506.6	20,089	44	51,525	8,303	Other fishes	
Mark		0					100		20.000	6.262	THOU I
		0 0			2	U.	150	0	200	0	Trash
		0	0		29	4,590	210	0	21,268	117	Third Class
		0	0	0	0	1.051	9,169	0	34,611	1,800	Second Class
			0	0	292	15,005	5,892	3	34,250	1.0.5	First Class
				-							CLASSIFFIED
Princip   Prin		U	C		2,421	27.2	4,000		<		a alco
			2.2		1,00,1	2015	4 002	0	0 6	0	Wahaa
	-	0	33		1 004	27 405	8 314	0	0	965	Sharks
		0	0		0	587	421	0	0	اغ.	Rays
			879		18,595	25,783	15,273	0	0	1,604	Cere
			164		49,138	01,108	12,771	0	c	1,89	hing Mackarels
			22.032			1,027	2,0,2		0 0	1004	Salmics
Charmaco,   Char	1+3		ביי ביר		0 0	1 637	ברא ר	0 0	0	UQU.	Cardinas
	0 145	0	75		85	3.035	11.041	0	11.784	0	Goatfishes
	0	0	0	0	0	463	1,835	0	0	0	Tarpon
	0	0	0		0	6	ŧ	c			SHOOKS
	607		,		0	00	40	2 0	0	0	Specific Carrier
	0 000	0	0		60	5.445	187.51	0	12.841	1 744	Porgies
	0 166	0	77		4,379	8.562	5,573	0	0	5,422	Barracudas
	0 12,289	0	30		14/	792,01	1,373	5	24,084	188	Inggernsnes
	3 14,308	C	10		004	10,505	1 2 2 2	16	2001	100	anapper caregory
		> 0	5 6		201	10 08 1	USC C1	c	0.701	2013	Snapper outlegory:
		o	0	464 0	0	3.076	0	0	104	0	Wenchman
	0	0	0	25 0	0	14,035	0	0	3,177	0	Vermillion snapper
		0	0	10,393	O	24,918	c		1,5,1	0	Queen snapper
		, ,	100	10.202		24.010	00000	0	1001	, ,	One of the control of
NEINE   TRAP   TRAP   PRINE   PRINE   DIVIS   PRINES   PRINS			105	2.029	O	53 761	10 988	٥٢	35.9 6.6	1 211	Vinton snamer
		0	0	2,913 0	0	173,957	0	0	52,407	0	Silk snapper
		2,243	127	6,761 0	0	227,069	14,170	9	22,711	4,117	Yellowtaii snapper
		4'4	40,17	33,7:3	,	100,000	32,000	1	1,104	0,100	ranic shapper
		474	1 500	TSO EE	0	51 031	son cr	0	71 484	111	I ane snapper
											Snappers
PRAP    PRAP		0	1,187	20 0	35	1,460	16,930	0	1.248	100	Мојапаѕ
		i d	801	220	214	2,07.7	164.7		2,010	202	Cionbei calegois
		70.0	1/10	o att	210	35036	2.401	0	9810	62	Gronner extraore
		0	0	0		623	ವ	0	148	0	Yellowfin grouper
SEINE   PRAP   PRAP   NET   LINE   LINE   LINE   LINE   LINE   Pounds)   Pounds		0	0	0.3	<i>\$</i> .	9,236	547	0	4,339	14	Nassau grouper
		C	C	0 27.5	39	4,902	200		040		austy grouper
		t: S	0 40	200	00	1055	250	0	5.15.15	0	Michigan and American
		768	38	289 0	0.0	30.039	1.326	26	12.745	30	Red hind
SEINE   TRAP   TRAP   TRAP   Pounds	0 289	0	0	48 0	72	4,609	1,364	-1	3,832	0	('oney
SEINE   TRAP   TRAP   Pounds   Pounds											Groupers
SEINE   TRAP   TRAP   NET   LINE			318	0	0	0	10,600	ŧ	20,009	011	Parrousites
SEINE   TRAP   TRAP   TRAP   Pounds			250	-		>	10000	4.0	200.00		J-1-10 1
SEINE   TRAP   TRAP   NET   LINE		0	910.1	247. 0	325	14.427	12.127	0	706	9.268	Jack Category
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   Pounds   Pounds		0	0	0	55	1.020	722	0	951	.0	Yellow jack
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pound	16 1	0	17	30 0	1001	3.002	616	_	9	15	Horse-eye jack
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   RAP   RET   LINE   RAP   RAP   RET   LINE   RAP   RAP   RET   RAP   R		F 4	130	0.000	2,101	2000	1100		0.00	216	III desir
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   Pounds)   Pounds		125	oot.	3 101	1.1382	17 3.40	٥	2005	710 5	Bar jack	
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   Pounds   Poun											Jacks
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)		0	2,129	197 0	140	1,657	53,585	96	1,588	2,176	Mullets
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   Pounds)   Pounds   Pou		c	67	107	100	3,272	1,942	c	.00.	ير ر	Sourcements
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds)			2	107	100	CTC 2	1000	0 0	3005	30	Controlfich
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds)		0	0	275	111 202	14.701	1 641	0	0	0	Dolphinfish
SEINE   TRAP   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   Pounds)   Pounds   Pound		0	<u>&amp;</u>	44 0	64	3,464	4,879	653	56,520	95	Trunkfish
SEINE   TRAP   TRAP   TRAP   CPounds   CPoun		0	0	30 0	121	2,152	1,883	C	10,758	c	Hoghsh
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou		U	3		214	14,207	ンペンテン	7.1	-70,00	2,011	Cimits
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou		,, <	500		2.20	11.02	21611	15	500 U3	117.5	Danyingo
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou		0	SZO	72 0	1005	1 534	47 478	0	189	95.0	Ballohaa
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou	0	0	124	60	29.724	13,344	1,829	0	0	1,494	Tuna category
SEINE   TRAP   TRAP   LINE   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Po	0	0	0	0	43,915	3,961	1,039	0	0	0	Yellowfin tuna
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou	0 0	0	25	33	29,240	0,140	2,302	C	c	KK6"7	Skipjack funa
SEINE   TRAP   TRAP   NET   LINE   LINE   LINE   TRAP   NET   LINE   DIVING   DIVING   Pounds)   Pounds   Pou			3	33	20.042	2112	7 2 2 2	0	0	2 200	Classical
SEINE TRAP TRAP NET LINE LINE LINE TRAP NET LINE DIVING DIVING (Pounds)	-	0	0	0	12.058	1 774	7,7,5	0	0	4 151	Little funny
SEINE TRAP TRAP NET LINE LINE TRAP (Pounds)		0	0	0	104	8.7	500	0	0	0	Blackfin tuna
SEINE TRAP TRAP NET LINE LINE LINE TRAP (Pounds)											Tunas
SEINE TRAP TRAP NET LINE LINE TRAP (Pounds)											FISH
SEINE TRAP TRAP NET LINE LINE TRAP NET LINE DIVING DIVING DIVING											
SEINE TRAD NET TIME TRAD NET THE			Ī				de)		5		

March   Marc	SPECIES	BEACH		TRAP	NET	LINE			TINE	TRAP	NET	LINE	DIVING	DIVING	(NET (Pounds)	(Pounds)	
		(Pounds)	(Pounds)	(Pounds)	(Pounds)	(Poune		Ì	(Founds)	( Founds)	(Founds)	(Founds)	(Louins)	(commod)	(Grama)		
	H. 32					-											1
	Nackfin tuna	0				36	164	3,044		0	0	0		30	0	0 0	3,2/4
	Little tunny	4,264				1,203	768	10,262		0	0	0		9.0	٠, ٥		37 174
	Skipjack tuna	1,207				2,183	1,328	24,446		0	0 0	0	0 0		318	301	46,755
	Yellowfin tuna	0				1,145	1,082	43,305				000	0			13	38,165
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	una category	2,643				0.750	1007	1 227		00	0	312	0			626	56,934
	lynoo	3,336				8 671	17.046	117		147	0	410	0			3,858	118,344
1   1   1   1   1   1   1   1   1   1	Afich	76,01				1 796	1.955	37		3	0	0	0			1,568	58,419
1	pkfsh	1 516				5,502	3,404	136		43	0	8	0			3,716	83,795
1.1   1.2	ohinfish	0				1,304	13,373	120,003	2,	136	0	0	0	0		613	137,729
1.   1.   1.   1.   1.   1.   1.   1.	imelfishes	0/-				2,148	7,029	273		99	0	29	0	6		244	10,038
The column   Column	llets	3,072		0		15,999	2,290	165		8118	0	387	0	0		305	34,100
1	Jacks													0	010	095	15 265
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Sar jack	3,429			2	12,201	14,315	1,430		123	0	205		208	512	000	7.568
1964   1974	lorse-eye jack	0.1		6		1,802	5,181	157		21	0	30		287	766	. 0	2 460
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ellow jack	51		0		282	1,100			000	0 0	007		† 1°	176	149	30,405
1975   1975	ack Category	3,391				14,119	11,094	31.		90	0 0	001					73.973
The control of the	rotfishes	185		8		176,02	154			0	0	1.5	0			2	200
The color of the	upers													000	121	, ç	11.67
The color of the	'oney'	9				1.511	5,624	23.		75	0	0 0			27.1	101	61.239
The color of the	ed hind	Ď,		-		2,021	33,782	32(		66	0	80			40.0		5.26
The color of the	fisty grouper	9		0	0	163	2,891			177	0	27			440		12.06
1	assau grouper	9				499	9,062	24.		08	0	5 0			000	0 0	1 20%
The color of the	ellowfin grouper	9	6.0	5		144	373			28	0	0 :::	0		980	460	40.761
1,18   2, 2, 2, 2, 3   1, 2, 3   1, 2, 3   1, 3	rouper category	209		0		1,935	19,036	37(		000		111	0		2000,	270	18.24
1.   1.   1.   1.   1.   1.   1.   1.	arras	88.		8		12,166	1,012	6		240		1,043		11	14.		
17.0         18.0 <th< td=""><td>ppers</td><td></td><td></td><td></td><td></td><td>1100</td><td>24.40</td><td>175</td><td></td><td>746</td><td></td><td>1 005</td><td></td><td></td><td>.443</td><td>ōlō</td><td>211,51</td></th<>	ppers					1100	24.40	175		746		1 005			.443	ōlō	211,51
The color of the	ane snapper	)+7-1 0-200		8		10 124	202 159	351	İ	T/17		616			400	1,439	363,50
The color of the	ellowfall snapper	8, 8,		0 (		2005	125,350			367		0			0	0	198,48
The control of the	In suapper	386		4		15.219	39,722			652	0	174	0		516	1,294	86,80
Year         11         573         O         1.50         1.5400         O	meen snapper			7		107	32,516	)		725	0	91	0	0	0	0	82,80
1.3. (2.1)         1.150         3.461         1.160	ermillion snapper	)I				720	15,499	7		837	0	0	0	0	0 0	0 0	20 6
OF         314         16   14   14           18   18   12           18   18   18   <t< td=""><td>Venchman</td><td>77</td><td></td><td>63</td><td></td><td>1,159</td><td>3,461</td><td></td><td></td><td>246</td><td>0</td><td>0</td><td>0</td><td></td><td>0 45</td><td>1 145</td><td>50.03</td></t<>	Venchman	77		63		1,159	3,461			246	0	0	0		0 45	1 145	50.03
2,5,34         1,980,3         1,06,14         88,16         4,290         10         2,1         10         1,06,14         88,16         4,290         10         2,1         10         10         234         1,178         11         11,084         0,033         4,290         10         10         10         234         1,178         11         11,080         3,43         1,178         10         10         10         234         1,178         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         12 <th< td=""><td>napper category</td><td>139</td><td></td><td>-</td><td></td><td>14,450</td><td>19,932</td><td>4</td><td></td><td>458</td><td>0.0</td><td>2 3</td><td>0 183</td><td></td><td>0.50</td><td>USX T</td><td>41.98</td></th<>	napper category	139		-		14,450	19,932	4		458	0.0	2 3	0 183		0.50	USX T	41.98
3.5.8         1.45         0         1.138         3.42         1.10         0         1.84         0         1.138         1.178	gerfishes	33.	2	9		1,61.4	8.815	\$7		80	0	61	36		23.4	117	26.06
141   1	racudas	2,57		5		888	0.523	1,29		01	0 0	18	2	10	358	1,178	29.50
The color of the	gres	14	4			850	3, 40	12		0	0	10	0	0	0	16	36
18         15,102         0         2,884         2,341         0         2,277         0         15,002         0         0         0         0         202           1,104         173         1,5102         1,5102         1,5102         1,272         1,4108         32,77         0         1,504         0         0         0         0         0         0         1,004         1,005         1,004         1,004         1,004         1,004         1,004         1,004         1,005         1,006         1,006         1,006         1,006         1,004         1,006         1,004         1,006         1,006         1,006         1,006         1,004         1,006	oks	41				311	36	?			0	0	0	0	0	0	35
7.6         1.1.2.         1.2.0.         1.2.7.         1.2.7.         1.2.0.         1.2.7.         1.2.0. <td>pon</td> <td></td> <td>-</td> <td>7</td> <td></td> <td>2 88.1</td> <td>2 3.4T</td> <td></td> <td></td> <td>, e</td> <td>0</td> <td>62</td> <td>0</td> <td>0</td> <td>84</td> <td>202</td> <td>20,7(</td>	pon		-	7		2 88.1	2 3.4T			, e	0	62	0	0	84	202	20,7(
Line   Column   Col	fillsnes	tr.		0 0		1 505	1.272			277	0	9.018	0	0	0	230	25,2
256         0         0         320         601         145         601         145         601         145         601         150         150         150         803         803           10         0 <th< td=""><td>Alles A Mackarole</td><td></td><td></td><td></td><td></td><td>13.524</td><td>1619</td><td>44,69%</td><td></td><td>303</td><td></td><td>158</td><td>0</td><td>369</td><td>638</td><td>1,065</td><td>124,45</td></th<>	Alles A Mackarole					13.524	1619	44,69%		303		158	0	369	638	1,065	124,45
101         0	E Machaners	100,				13.017	32.088	10,0		145	0	502	0	320	151	639	53.7
12   12   12   12   13   13   13   13	5 %			0		238	8	ð		0	0	0	0	0	861	8,925	10,20
406         26.745         2280         3.006         9.360         2.9         0	rks	12.		0	0	4.933	18,726	1,39.		970	0	0	284	0	1,104	/,54/	45,0
440         26,745         228         3,006         9,366         29         0         0         0         0         0         41,765         4,145         9,145         4,145         4,145         4,145         4,145         4,145         4,145         4,145         4,145         4,145         4,145         0         0         0         0         0         1,068         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,558         23,143         50,3         37.9         197,894         90,654	hoo			0	0	0	976	1,58	4	0	0	.0	0	0	0	0	7,10
4106         26.745         228         3,006         9,460         29         0         0         0         0         0         1,008         23,538           4,47         22,802         0         4,407         0         0         0         0         0         1,008         23,538           4,47         22,802         0         4,407         0         0         0         0         0         0         1,008         23,538           0         1,63         0	ASSIFFIED								1				c			4 145	85.68
4,497         12,338         0         4,602         1,876         0         0         0         0         0         26,492         9           6         19,338         0         1,333         36         0         0         0         0         0         0         46           6,407         160         0         1,333         1,345         2,675         11,635         0	irst Class	04		53		3,006	0956		2.10	0		0 0				23.558	58.4
0         13.53         0         20         20         20         0         0         0         0         0         46           0         1.93         1.93         1.93         2.63         1.93         1.93         1.93         2.63         1.93         2.03         46           5.54         1.94         1.09         1.94         2.63         1.94         0	second Class	449		77		4,662	3,616					0	0			0.	49,50
\$5.63         \$1.64         \$2.63         \$2.63         \$3.79         \$4.64         \$6.40         \$3.431         \$5.03         \$3.79         \$1.97.84         \$6.64           \$6.40.70         \$5.01.44         \$1.01.94         \$11.975         \$2.65         \$1.97.84         \$90.654           \$6.40.70         \$5.01.44         \$1.01.94         \$11.97.84         \$1.90.654         \$1.97.84         \$90.654           \$6.40.70         \$5.01.44         \$1.01.94         \$1.92.759         \$1.92.759         \$1.97.84         \$90.654           \$6.40.70         \$5.01.44         \$1.01.94         \$1.92.759         \$1.97.84         \$90.654         \$90.654           \$6.40.70         \$6.40.70         \$1.92.70	hird Class			2 9		200	2,040	1			C	0			0	46	5
67,000 (A)         57,000 (A)         77,000 (A)         107,894         90,654           64,070 (A)         500,141         1,019         428,141         940,056         295,539         121,850         0         31,431         503         3,779         197,894         90,654           64,070 (A)         500,141         1,019         42,130         0	Frash	-		60		11 033	270 11	2 67		163	0	726			620.0	60	.0°86
The color of the	mer nsnes	0.00				28.141	940.056	295.53		850				11	7,894	90,654	2,675,080
36         0	caller I m																
36         0	ELLFISH														307 0	3 940	781 7/
14   15   15   15   15   15   15   15	meh	3			0	175	С		0	0		5 6	5 0		0	0	2.1
State   Stat	nd crab				0 000	0 000	5 0		500	0 01		C4	00		4.710	7,754	258,1
2         1.421         2         2         3         0         35         0         385         245           0         1.431         1.416         145         0         0         1.037         0         2.150         2.150         2.23           180         3.004         14         1.212         1.416         145         21         2.130         1.07         0         26,556         4.74,652         12,395           833         99,686         18,965         7,835         1,489         145         21         2,120         6.00         20,556         4.74,652         103,040	bster	3			8.908	25.7				0		23				314	48,7
180   3,001   11   1,212   1,410   115   0   0   1,037   0   0   2,150   2,23   1,340   145   1,130   1,07   0   2,656   474,622   12,395   1,340   1,07	crine crabs			52	0	12	6		0	3		35	0			245	2,2
833         99,686         18,965         7,835         1,489         145         2,130         1,207         0         2,05,56         4,44,522         1,2,392           1,2,307         1,307         2,00,56         3,03,26         4,44,622         1,12,392         1,12,392           1,307         1,307         2,00         3,03,26         4,34,622         1,12,392           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         1,307           1,307         1,307         1,307         1,307         1,307         <	her shellfish	82	İ			1,212	1,410	14	5	0		1,037				223	13.0
	tal Shellfish	83				7.835	1,489	14		21		1,207				265.21	0000

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SPECIES	BEACH	FISH	LOBSTER TRAP	GILL	BOTTOM	TROLL	LONG	LAND CRAB TRAP	CAST	ROD AND LINE	SKIN	SCUBA DIVING	TRAMMEL NET	TOTAL
	(Pounds)	(Pounds)	(Pounds)	(spi		(Pounds)	ļ	(Pounds)		(Pounds)	(Pounds)		(Pounds)	(Pounds)
FISH														
Blackfin tuna	40.		0	0 816		20,455	705							25,286
Little turny	5,20.		0				-		0					
Skipjack tuna	70		0	0 3,6/3			0 1150			80,1			118	
Yellowtin funa	978		00	0 2,428						2,49		0		
Ballyhoo	57.			155 56,695						0	25			
Grunts	16,573													
Hogfish	436			2,400	3,702		33		0 118			7 320		77.814
Trunkfish	2,1/5	24,02								2.54				
Dolphunsh	1.498								5 136			329		
Mullets	1,800	1,037		,		591	20		0 2,369		0 0			
Jacks														
Bar jack	3,663	3			18.294	1,121	m		272		124	854	2,636	
Horse-eye jack	v.		0 !!	0 1,090					9		0 0			
Yellow jack	58	1 772	ŗ	000,11		200	43				791		330	38.168
Jack Category	0,029	,	3 3			7,7			345		\$4	73		
Parrotfishes	100			0.000										
Groupers		8707	Š.	0 1 947					101 0		05	935		
Coney			PI		38.795		530				103			
Ked fund			32	615		0					0		143	
Mistr grupos	100	34 2.406	Q.	0 722					0 8	)	97	Ą		
Vellowfin promer			33								0			
Grouper category	01		30						0 10				38	
Moiaras	279	000.1	000	0 14,629	1,648		19		0 1,361		0			19,445
Snappers														
Lane snapper	4,480		2		650,09	571			0	0	8 8		177	
Yellowtail snapper	12,858			15,70			2.577					5,646		
Silk snapper												0 000	0 0	
Mutton snapper	2,800			111					0 0 0			7,0,0		107 671
Queen snapper			1.7											
Vermillion snapper		92 -												
Wenchman	18										65		2,096	60,114
Snapper category		50 30 305		57 2.263	12.159	1,015	288		0 132	390		0 14,773		
Burracudas	(7.75		0	0 6,315					0 55				54	
Doreilos	519	13,100	30								0. 0			
Spooks	1,241		0											
Tamon	15	152	0	0 1.833		2 00			0		0	0		
Coatfishes		91	3.2										30	22,475
Sardines	1,051	999 19	69				211		2					
King Mackarels	22		0			8 28,044				2,580	250			
Cero	54	548	0											3.63-
Rays	74		0	0 490	0 1,080	000	0 311		000	7 360		0 310	1 967	
Sharks	0.51	7.	41 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						7				8,344
Wahoo			1											
First Class	8	30 45,353		151 427		5 102	2 15		0		)	0 35,057		96,539
Second Class	18	180 20,701		105'1 655					0				8 554	
Third Class	8	33 28,402	02		7.811	1 0	0		0		0			
Frash				0 26					0			0 2	190	515
Other fishes	\$,773					1,019					ľ			
Total Fishes	80.3	76 637,293	93 2,450	50 444,151			4 56,512		5, 25,027	14,407	2,334	210,913		7,887,080
110100 1 1000														
SHELLFISH		0	0	0 203		0	0		0		12.547	315,457	260	328,467
I and oneh			0					6,322			0			
I obster	35	102.00	93 32.198				0		317		0 4,587		5'5	7 285,018
Octobus				363 212										
Marine crabs		1.903	63	15 15					0 0				240	
Other shellfish	1													671.338
Total Shellbsh	80.681	81 746.428	28 35.029	129 447,621	1.091.958	253,84	1 56,512	6,327	26,793	14,402	37,300	0 688,194	13,935	
TOTAL	200						١							
							, '							

TABLE 6. LANDINGS REPORTED BY MUNICIPALITY AND BY COAST IN PUERTO RICO DURING 1998-2001.

	1998		1999		2000		2001	
LOCATION	POUNDS	P/P*	POUNDS	P/P*	POUNDS	P/P*	POUNDS	P/P*
NORTH	436,026	1.84	420,522	1.82	342,113	1.91	569,893	2.14
Isabela	13,690	1.52	12,963	1.18	7,849	2.46	11,735	3.56
Quebradillas	0	0.00	0	0.00	0	0.00	0	0.00
Camuy	22,910	1.64	5,927	1.78	6,813	1.70	4,060	2.68
Hatillo	4,580	1.36	5,164	1.95	1,762	1.48	4,232	2.28
Arecibo	40,980	2.05	56,206	2.13	38,480	2.20	73,812	2.47
Barceloneta	37,280	2.23	19,198	2.13	21,858	1.88	36,736	2.26
Manati	18,328	2.33	14,127	1.91	11.301	1.97	17,361	2.04
Vega Baja	35,898	2.90	28,412	2.15	35,899	2.37	68,169	2.41
Vega Alta	15,371	2.13	9,071	2.19	17,596	2.10	28,694	2.15
Dorado	13,864	2.04	15,794	2.75	13,576	2.24	28,069	2.70
Toa Baja	1,136	1.23	2,819	1.41	4,846	2.31	1,010	1.49
Cataño	42,650	2.12	46,419	2.24	21,097	2.18	23,769	2.34
San Juan	80,590	2.25	96,594	2.15	91,082	1.98	133,003	2.10
Carolina	28,135	1.78	32,799	1.60	27,054	1.83	56,785	1.73
Loíza	43,069	1.52	28,599	1.68	10,950	1.87	43,752	1.97
Río Grande	16,570	2.31	32,583	1.99	21,188	1.85	34,254	2.08
Luquillo	20,975	1.94	13.847	1.76	10,762	2.13	4,452	2.05
EAST	608,379	1.86	650,043	2.05	664.287	2.24	948,758	2.37
Fajardo	135,003	1.77	150,003	2.06	128,003	2.22	179,003	2.20
Ceiba	67,064	1.76	58,111	1.81	78,839	2.34	139,003	2.42
Naguabo	88.869	1.97	159,003	2.19	159,003	2.35	178,003	2.53
Humacao	63,415	2.14	99,565	2.46	101,003	2.67	111,003	2.71
Yabucoa	12,666	1.88	30.269	2.16	48,568	2.03	39,869	2.03
Maunabo	25,911	1.67	67,827	1.65	21,689	1.89	23,120	2.20
Culebra	451	1.71	28,977	2.06	24,179	2.17	21,754	2.39
Vieques	215,000	1.95	56,288	1.98	103,003	2.24	257.003	2.47
SOUTH	1.059,601	2.03	1,090,326	1.96	1,243,346	2.02	1,040,871	2.43
Patillas	38,876	2.55	32,863	2.51	48,061	2.51	47,939	3.17
Arroyo	42,353	1.83	43,845	1.74	41,700	1.90	56,950	2.15
Guayama	145,656	2.05	142,003	2.01	107,003	1.94	106,592	2.26
Salinas	91,035	2.13	79,622	2.14	95,842	2.10	83,597	2.40
Santa Isabel	52,611	2.31	53,647	2.34	62,297	2.32	54,992	2.77
Juana Diaz	163,003	1.84	135,003	1.99	135,003	2.01	143,003	2.60
Ponce	112.003	1.96	94,244	1.93	137,003	1.67	103,003	2.16
Peñuelas	53,129	2.43	53,608	2.16	68,427	3.09	69,042	3.26
Guayanilla	21,929	1.42	54,988	1.08	80,004	1.13	69,747	1.53
Guánica	124.003	2.01	157,003	1.83	247,003	1.75	107,003	
Lajas	215,003	1.81	243,500	1.78	221,003	1.85	199,003	
WEST	1,349,418	1.81	1,166,148	1.86	1,031,248		999,502	2.14
Cabo Rojo	755,003	2.02	629,003	2.18	545,003	2.16	491,062	2.27
Mayaguez	105,003	1.78	107,003	1.86	94,643		87,763	2.04
Añasco	69,316	2.47	34,524		45,625	2.14	44,847	
Rincón	88,355	1.82	106.003		121,003	1.94	122,003	
Aguada	93,738	1.51	79,612	1.41	79,971	1.61	96,824	1.71
Aguadilla	238,003	1.23	210,003		145,003		157,003	
TOTAL	3,453,424		3,327,039	1.92	3,280,994	2.01	3,559.024	2.27