

A List of Commercial Fish Species from Santarém, State of Pará, Brazil

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Abstract

A list, comprising 129 species in 23 families, is presented of the fish commonly caught in 1992/93 in the commercial fisheries around Santarém, Pará State, Brazil. The most important families were the Pimelodidae (22 spp.), Cichlidae (20) and Serrasalminidae (15), and six species contribute over 50% of the catch in weight.

Introduction

Fishing is a traditional activity, one of the supports of the regional economy, and the most important animal protein source for populations of the Amazon.

Despite the importance and the great potential that fish represents to the region, knowledge about the composition of the exploited species is what little information there is available in technical bulletins and reports with restricted circulation, and usually citing only the common names of the main species, of which there are not more than two or three dozens.

Since 1990 a research project has been conducted in the Santarém region (Projeto IARA), which aims to quantify the production, and in the long-term, the management of the fish resources from the marginal lakes in the region. Santarém is only a medium size city, but it is very important because of its location between Manaus and Belém, the two largest urban centers of the Brazilian Amazon. Also, Santarém supplies the small cities in the countryside that have roads connected to the Transamazon and Cuiabá-Santarém highways.

The list presented below is the result of an inventory of the commercial fish species carried out as a part of the studies being carried out by Projeto IARA.

Materials and Methods

We collected specimens of each fish species in all markets and industries in the city of Santarém, Lower Amazon, State of Pará during the years 1992 and 1993. All specimens collected were brought to the Laboratory of Taxonomy and Systematics of Fishes, at the Instituto Nacional de Pesquisas da Amazônia (INPA), in Manaus,

State of Amazonas, Brazil, where the identifications were made. Some species are identified as "sp.", i.e., it was not possible to find its proper name using the available literature, suggesting that this could be a species new to science or that the present status of knowledge of this group is poor and needs more study. Samples of most of the species have been deposited in the INPA Central Fish Collection.

Results and Discussion

Table 1 shows the list of the commercial fish species found in the markets of Santarém. We identified 129 species, belonging to six orders, and 23 families. Pimelodidae was the family with the greatest number of species (22), followed by Cichlidae (20) and Serrasalminidae (15). As it is common in other areas in the Amazon, few species represent more than 50% of the catches (Petreire 1978; Goulding 1979; Santos 1986/87; Merona and Bittencourt 1988). In Santarém these are: *Brachyplatystoma fasciatum*, *Hypophthalmus edentatus*, *H. marginatus*, *Pseudoplatystoma fasciatum*, *P. tigrinum*, *Plagioscion squamosissimus* and *Pirirampus pirinampu* (Mauro Rufino, pers. comm.). The other species in our list are occasional or rare.

The shark (*Carcharhinus leucas*) and the sawfish (*Pristis perotteti*) although occasionally present in the fish factories of Santarém have no importance as food for the population; we think they are kept in these places as tourist attractions.

Although the list contains species not yet identified, it shows that the number of species actually exploited commercially in the region is far greater than is suggested by the common names (68), which often relate to more than one species. It also shows that many more fish species are being exploited and consumed that are traditionally listed in the fisheries statistics.

Table 1. List of commercial fish species from Santarém region, Middle Amazon.

Family	Species	Author(s)	Common names
LAMNIFORMES			
CARCHARHINIDAE	<i>Carcharhinus leucas</i>	Valenciennes 1839	tubarão, cação
RAMJIFORMES			
PRISTIDAE	<i>Pristis perotteti</i>	Valenciennes 1841	peixe-serra, espadarte
POTAMOTRYGONIDAE	<i>Potamotrygon constellata*</i>		arraia, raia
	<i>Potamotrygon aff. hystrix</i>	(Müller and Henle 1841)	arraia, raia
	<i>Potamotrygon motoro</i>	(Müller and Henle 1841)	arraia, raia
	<i>Potamotrygon scobina</i>	Garman 1913	arraia, raia
CLUPEIFORMES			
CLUPEIDAE	<i>Ilisha amazonica</i>	(Miranda Ribeiro 1923)	apapá, sardinhão
	<i>Pellona castelnaeana</i>	Valenciennes 1847	apapá-amarelo, sardinhão
	<i>Pellona flavipinnis</i>	(Valenciennes 1836)	apapá-branco, sardinhão
OSTEOGLOSSIFORMES			
OSTEOGLOSSIDAE	<i>Arapaima gigas</i>	Schinz 1822	pirarucu, bodeco
	<i>Osteoglossum bicirrhosum</i>	Cuvier 1829	aruanã, baiano, sulamba, macaco-d'água
CHARACIFORMES			
CHARACIDAE	<i>Acestrorhynchus falcatus</i>	(Bloch 1794)	peixe-cachorro, dentudo, ueua
	<i>Acestrorhynchus falcirostris</i>	(Cuvier 1819)	peixe-cachorro, dentudo, ueua
	<i>Brycon cephalus</i>	(Günther 1868)	matrinxã, jatuarana
	<i>Catopristion mento</i>	(Cuvier 1819)	pacu-piranha, piranha-pacu
	<i>Colossoma macropomum</i>	(Cuvier 1817)	tambaqui, bocó, ruelo
	<i>Metynnis argenteus</i>	Ahl 1923	pacu-marreca
	<i>Metynnis hypsauchen</i>	(Müller and Troschel 1844)	pacu-marreca
	<i>Myleus schomburgkii</i>	(Jardine 1841)	pacu-jumento, pacu-cadete
	<i>Myleus torquatus</i>	(Kner 1858)	pacu-branco
	<i>Mylossoma aureum</i>	(Spix & Agassiz 1829)	pacu-manteiga, pacu-comum
	<i>Mylossoma duriventre</i>	(Cuvier 1817)	pacu-manteiga, pacu-comum
	<i>Piaractus brachyomus</i>	(Cuvier 1817)	pirapitinga
	<i>Serrasalmus calmoni</i>	Steindachner 1908	piranha, piranha-branca
	<i>Serrasalmus elongatus</i>	Kner 1858	piranha-mucura, piranha-comprida
	<i>Serrasalmus nattereri</i>	(Kner 1858)	piranha-caju, piranha-vermelha
	<i>Serrasalmus rhombeus</i>	(Linnaeus 1766)	piranha-preta
	<i>Serrasalmus spilopleura</i>	Kner 1858	piranha-mafurá, piranha-amarela
	<i>Serrasalmus aff. eigenmanni</i>	Norman 1929	piranha, piranha-branca
	<i>Roebooides myersi</i>	Gill 1870	zé-do-ó, madalena
	<i>Triportheus albus</i>	Cope 1872	sardinha-comum
	<i>Triportheus elongatus</i>	(Günther 1864)	sardinha-comprida
	<i>Triportheus flavus</i>	Cope 1872	sardinha-papuda
CURIMATIDAE			
	<i>Anostomoides laticeps</i>	(Eigenmann 1912)	araçu, piau
	<i>Caenotropus labyrinthicus</i>	(Kner 1858)	branquinha-cascuda, cabeça-de-ferro, cabeça-dura
	<i>Curimata inomata</i>	Vari 1989	branquinha
	<i>Cyphocharax abramoides</i>	(Kner 1858)	branquinha
	<i>Leporinus aff. affinis</i>	Günther 1864	aracu-pinima, aracu-flamengo
	<i>Leporinus fasciatus</i>	(Bloch 1794)	aracu-amarelo, aracu-pinima, aracu-flamengo
	<i>Leporinus friderici</i>	(Bloch 1794)	aracu-cabeça-gorda, aracu-comum
	<i>Leporinus trifasciatus</i>	Steindachner 1876	aracu-cabeça-gorda
	<i>Potamorhina altamazonica*</i>	(Cope 1878)	branquinha- cabeça-lisa
	<i>Potamorhina latior</i>	(Spix & Agassiz 1829)	branquinha-comum
	<i>Prochilodus nigricans</i>	Spix & Agassiz 1829	curimatã, curimatá
	<i>Psectrogaster amazonica</i>	Eigenmann & Eigenmann 1889	branquinha-cascuda
	<i>Psectrogaster rutloides</i>	(Kner 1858)	branquinhaw-cascuda
	<i>Rhytioidus argenteofuscus</i>	Kner 1859	aracu, pau-de-vaqueiro, pau-de-nêgo

* Could not be verified against FishBase 96 or W. Eschmeyer's SPECIES database.

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Table 1. Continued.

Family	Species	Author(s)	Common names
CURIMATIDAE	<i>Semaprochilodus insignis</i>	(Jardine & Schomburgk 1841)	jaraqui-escama-grossa
	<i>Semaprochilodus taeniurus</i>	(Valenciennes 1821)	jaraqui-escama-fina
	<i>Steindachnerina</i> cf. <i>bimaculata</i>	(Steindachner 1876)	branquinha
	<i>Schizodon fasciatus</i>	Agassiz 1829	aracu, pau-de-vaqueiro
	<i>Schizodon vittatus</i>	Valenciennes 1850	aracu, aracu-pororoca, aracu-comum
CYNODONTIDAE	<i>Cynodon gibbus</i>	(Agassiz 1829)	saranha, caranha, peixe-cachorro
	<i>Hydrolycus scomberoides</i>	(Cuvier 1819)	pirandirá, peixe-cachorro
	<i>Rhaphiodon vulpinus</i>	Agassiz 1829	peixe-cachorro
ERYTHRINIDAE	<i>Hoplerethinus unitaeniatus</i>	(Spix & Agassiz 1829)	jeju
	<i>Hoplias</i> gr. <i>malabaricus</i>	(Bloch 1794)	traira
HEMIODONTIDAE	<i>Anodus melanopogon</i>	Cope 1878	charuto, orana, cubiu-orana
	<i>Hemiodus immaculatus</i>	Kner 1858	charuto, orana, flexeira
	<i>Hemiodus microlepis</i>	Kner 1858	charuto, orana, flexeira
	<i>Hemiodus ocellatus</i>	(Vari 1982)	charuto, orna, flexeira
	<i>Hemiodus unimaculatus</i>	(Bloch 1794)	charuto, orana
	<i>Hemiodus</i> sp.		charuto, orana
SILURIFORMES AGENEIOSIDAE	<i>Ageneiosus brevifilis</i>	Valenciennes 1840	madubé
	<i>Ageneiosus dentatus</i>	Kner 1858	madubé
	<i>Ageneiosus</i> aff. <i>ucayalensis</i>	Castelnau 1855	madubé
	<i>Ageneiosus</i> sp.		madubé
AUCHENIPTERIDAE	<i>Auchenipterus nuchalis</i>	(Spix & Agassiz 1829)	mandi, mandi-peruano
	<i>Parauchenipterus galeatus</i>	(Linnaeus 1766)	mandi
CALLLICHTHYIDAE	<i>Hoplosternum litorale</i>	(Hancock 1828)	tamuatá, tamoatá
DORADIDAE	<i>Lithodoras dorsalis</i>	(Valenciennes 1840)	bacu-pedra, cascudo
	<i>Megalodoras uranoscopus</i>	(Eigenmann and Eigenmann 1888)	rebeca, rebacão, bacu
	<i>Oxydoras niger</i>	(Valenciennes 1855)	cujuba, cuiu-cuiu
	<i>Platyodoras costatus</i>	(Linnaeus 1758)	bacu
	<i>Pterodoras lentiginosus</i>	(Eigenmann 1917)	bacu-liso, bacu-barriga-mole
HYPOPHthalmIDAE	<i>Hypophthalmus edentatus</i>	Spix & Agassiz 1829	mapará
	<i>Hypophthalmus fimbriatus</i>	Kner 1858	mapará-bico-de-pena
	<i>Hypophthalmus marginatus</i>	Valenciennes 1840	mapará
LORICARIIDAE	<i>Hypostomus emarginatus</i>	Valenciennes 1840	acari-pedra
	<i>Liposarcus pardalis</i>	(Castelnau 1855)	acari-bodó- bodó, acari
PIMELODIDAE	<i>Brachyplatystoma filamentosum</i>	(Lichtenstein 1819)	filhote, piraiba
	<i>Brachyplatystoma flavicans</i>	(Castelnau 1855)	dourada
	<i>Brachyplatystoma juruense</i>	(Boulenger 1898)	sorubim, dourada-zebra, sorubim-flamengo
	<i>Brachyplatystoma vaillantii</i>	(Valenciennes 1840)	piramutaba
	<i>Calophysus macropterus</i>	(Lichtenstein 1819)	piracatinga, pintadinho, urubu-d'água
	<i>Goslinia platynema</i>	(Boulenger 1898)	babão, barbado, barba-chata
	<i>Hemisorubim platyrhynchus</i>	(Valenciennes 1840)	braço-de-moça, liro
	<i>Leiarus marmoratus</i>	Gill, 1870	jandiá, jundiá
	<i>Merodontotus tigrinus</i>	Britski, 1981	sorubim, zebra
	<i>Paulicea luetkeni</i>	(Steindachner 1876)	jaú
	<i>Phractocephalus hemiliopterus</i>	(Bloch & Schneider 1801)	pirarara
	<i>Pimelodina flavipinnis</i>	Steindachner 1876	fura-calça, moela, mandi-moela
	<i>Pimelodus</i> cf. <i>altipinnis</i>	Steindachner, 1864	mandi
	<i>Pimelodus blochii</i>	Valenciennes 1840	mandi
	<i>Pinirampus pinirampu</i>	(Spix & Agassiz 1829)	piranambu, barba-chata
	<i>Platynematichthys notatus</i>	(Jardine & Schomburgk 1841)	cara-de-gato
	<i>Platysilurus</i> cf. <i>barbatus</i>	Haseman 1911	mandi
	<i>Platystomatichthys sturio</i>	(Kner 1858)	braço-de-moça
	<i>Pseudoplatystoma fasciatum</i>	(Linnaeus 1766)	sorubim, pintado
<i>Pseudoplatystoma tigrinum</i>	(Valenciennes 1840)	sorubim, pintado, caparari, sorubim-tigre	
<i>Sorubim lima</i>	(Bloch & Schneider 1801)	bico-de-pato, braço-de-moça	
<i>Sorubimichthys planiceps</i>	(Spix & Agassiz 1829)	peixe-lenha, sorubim-lenha, chicote	

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Table 1. Continued.

Family	Species	Author(s)	Common names
PERCIFORMES			
CICHLIDAE			
	<i>Acarichthys heckelii</i>	(Müller and Troschel 1848)	acará
	<i>Acaronia nassa</i>	(Heckel 1840)	acará-boca-de-quguiá
	<i>Aequidens</i> sp.		acará-cascudo
	<i>Astronotus crassipinis</i>	(Heckel 1840)	acará-açu, apaiari
	<i>Caquetaia spectabilis</i>	(Steindachner 1875)	acará-rosado
	<i>Chaetobranchus flavescens</i>	Heckel 1840	acará-prata
	<i>Chaetobranchopsis orbicularis</i>	(Steindachner 1875)	acará-cascudo, acará-tucumã
	<i>Cichla monoculus</i>	Spix & Agassiz 1831	tucunaré
	<i>Cichla temensis</i>	Humboldt 1821	tucunaré-paca
	<i>Cichla</i> sp.		tucunaré
	<i>Cichlasoma amazonarum</i>	Kullander 1983	acará
	<i>Crenicichlaaff. ornata</i>	Regan 1905	jacundá, peixe-sabão
	<i>Crenicichla reticulata</i>	(Heckel 1840)	jacundá, peixe-sabão
	<i>Crenicichla</i> sp.		jacundá, peixe-sabão
	<i>Geophagus proximus</i>	(Castelnau 1855)	acará-tinga, acará-roi-roi
	<i>Heross</i> sp.		acará-roxo
	<i>Satanoperca acuticeps</i>	(Heckel 1840)	acará-bicudo, acará-papa-terra
	<i>Satanoperca jurupari</i>	(Heckel 1840)	acará-bicudo, acará-papa-terra
	<i>Symphysodon aequifasciata</i>	Pellegrin 1904	acará-disco
	<i>Uaru amphiacanthoides</i>	Heckel 1840	acará-baranuá, baru
SCIAENIDAE			
	<i>Pachypops fourcroy</i>	(Lacépède 1802)	pescada, curvina
	<i>Pachypops trifilis</i>	(Müller and Troschel 1848)	pescada, curvina
	<i>Plagioscion auratus</i>	(Castelnau 1855)	pescada-preta
	<i>Plagioscion</i> sp.		pescada
	<i>Plagioscion squamosissimus</i>	(Heckel 1840)	pescada-branca
	<i>Plagioscion surinamensis</i>	(Bleeker 1873)	pescada-branca

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