

AMERICAN FISHERIES SOCIETY

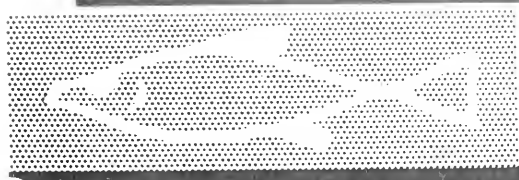
SPECIAL PUBLICATION NO. 2 • 1960

Transactions of the American
Fisheries Society



a list of
Common & Scientific
Names of Fishes
From the United
States & Canada

Second Edition



QL
614
.A43
v.2

QL
614
.A43
V.2

AMERICAN FISHERIES SOCIETY

Special Publication No. 2

A List of
Common and Scientific
Names of Fishes
from the United States
and Canada



(SECOND EDITION)



*Report of the Committee on Names of Fishes, Presented at the
Eighty-ninth Annual Meeting, Clearwater, Florida, September 16-18, 1959*

REEVE M. BAILEY, *Chairman*
ERNEST A. LACHNER, C. C. LINDSEY, C. RICHARD ROBINS
PHIL M. ROEDEL, W. B. SCOTT, LOREN P. WOODS

Ann Arbor, Michigan • 1960

Copies of this publication may be purchased for \$1.00 each (paper cover) or \$2.00 (cloth cover). Orders, accompanied by remittance payable to the American Fisheries Society, should be addressed to E. A. Seaman, *Secretary-Treasurer*, American Fisheries Society, Box 483, McLean, Virginia.

Copyright 1960
AMERICAN FISHERIES SOCIETY

Printed by
WAVERLY PRESS, Inc.
Baltimore, Maryland

Introduction

This second list of the names of fishes of the United States and Canada is not simply a reprinting with corrections, but constitutes a major revision and enlargement. The earlier list, published in 1948 as Special Publication No. 1 of the American Fisheries Society, has been widely used and has contributed substantially toward its goal of achieving uniformity and avoiding confusion in nomenclature. Of the 570 names on that list, 560 are retained in the present version. The 10 removed have since proved to be synonyms of other included species, or are extralimital. In the preparation of the first list, the Committee made arbitrary decisions as to what species should be included as "better known fishes." As interest in fishes expands, it becomes increasingly difficult to determine when a given species merits an approved vernacular or common name. The present Committee has avoided this decision by attempting to include common names for all native and successfully introduced species in the region of coverage. Except for possible errors of oversight, the chief failure to realize complete listing involves small, rare, and poorly-known forms near the periphery of our area: Bering Sea, deepwater fishes that occasionally are found over the continental shelf, and Caribbean species that sporadically invade southern Florida. As knowledge of such forms increases they may be added in subsequent revisions. This list includes 1892 entries, more than a threefold increase. We make no apology for the greater length, believing that these small, less well-known fishes have real or potential importance as laboratory experimental animals, in public or private aquaria, for bait, or, most often, simply as objects of natural-history inquiry or aesthetic appeal. The plan of organization and indexing are such that the inclusion of the lesser fishes need not interfere with use by those not concerned with them.

AREA OF COVERAGE

The present list purports to include all species of fishes known from the fresh waters of the continental United States and Canada, and those marine species inhabiting contiguous shore waters on or above the continental shelf, to a depth of 100 fathoms.

The shore fishes from Greenland, eastern Canada and the United States, and the northern Gulf of Mexico to the mouth of the Rio Grande are included, but those from Iceland, Bermuda, the Bahamas, Cuba and the other West Indian islands, and Mexico are excluded unless they occur also in the region covered. In the Pacific, the area treated includes that part of the continental shelf from the Mexican-United States boundary to Bering Strait. The Arctic shore waters of Alaska and Canada are included. Hawaii, with a large and strikingly different Indo-Pacific fish fauna, is excluded. Deep-sea fishes, whether benthic or bathypelagic, are excluded unless they appear also within the 100-fathom isobath. In practice this line of distinction is difficult to apply, and becomes arbitrary to that extent. Pelagic fishes that enter waters over the continental shelf are included. The list provides a general guide to distribution: "A" denotes Atlantic Ocean but includes the eastern Arctic, "P" refers to Pacific Ocean and includes the western Arctic, and "F" indicates occurrence in fresh water. Appropriate combinations of letters are used for those fishes that live, either naturally or by introduction, in more than one of these regions.

COMMON NAMES

The Committee aims at the development of a body of common names that reflect broad current usage, the creation of a richer, more meaningful and colorful vernacular nomenclature, and the promotion of mechanisms that will add to stability and the universality of names applied to American fishes.

The common name as here employed is viewed as a formal, usually anglicized appellation to be used in lieu of the Latinized scientific name of a species. It is hoped, and the history of the recent past confirms, that common names may be more stable than scientific names. Certainly they should be more readily adaptable to lay uses than scientific names. There is clear need for standardization and uniformity in vernacular names not only for sport or commercial fishes, but as trade names, for aquarium fishes, in legal terminology, and as substitutes for scientific names of almost any fish

in popular or scientific writing. The Committee believes that it is desirable to establish a common name for each species of fish occurring naturally or through successful introduction in the waters of English-speaking North America.

Agreement on many names may be arrived at quickly, but others are attended by complications and marked disagreement develops. This is especially true of fish known by market names that differ from those names that are more familiar to sport fishermen, biologists or others. The existence for a single species of different names in separate parts of its geographic range creates difficulties that seem soluble only through arbitration. Conversely a given name may be employed in several places for diverse species. Although committee action on such situations may not be expected to change local use quickly, at least it seems plainly improper to sanction use of one name for two or more different species.

After wrestling with common names for over twenty years, the Committee on Names of Fishes realized the importance of establishing a set of guiding principles to be employed in the determination of names. Such a code permits a more objective appraisal of the relative merits among several names than if selection is based primarily on personal experience and preference. Consideration of many vernacular names of fishes makes it apparent that few principles can be established for which some exceptions must not be admitted. This is true because at this late date a majority of our larger and more abundant, hence important, species have such firmly established common names that it would be unrealistic to reject them. Decision on the name for a species may often be decided by weighing the pros and cons among the possible alternatives and selecting that one which best fits the aggregate of guiding criteria.

In the introduction to the earlier list of names a number of rules of procedure were itemized. Recently the Committee incorporated these into the following statement of criteria that it regards as appropriate to the selection of common names of fishes.

PRINCIPLES GOVERNING SELECTION OF COMMON NAMES¹

1. *A single vernacular name shall be accepted for each species or taxonomic unit included.*—

¹ First printed in 1955 (Trans. Am. Fish. Soc., Vol. 84 [1954] pp. 368-371).

In the present list only two fishes have two approved names: redbfish and ocean perch for *Sebastes marinus*; cisco and lake herring for *Coregonus artedii*.

2. *No two species on the list shall have the same approved name.*

3. *The expression "common" as part of a fish's name shall be avoided wherever possible.*

4. *Simplicity in names is favored.*—Hyphens, suffixes, and apostrophes shall be omitted (e.g., smallmouth bass) except where they are orthographically essential (e.g., three-eye flounder), have a special meaning (e.g., C-O sole), or are necessary to avoid possible misunderstanding (e.g., cusk-eel). Compounded modifying words, including paired structures, should usually be treated as singular nouns in apposition with a group name (e.g., spottail shiner, soupin shark), but a plural modifier should usually be placed in adjectival form (e.g., black-banded sunfish, spotted hake). Preference shall be given to names that are short and euphonious.

The compounding of brief, familiar words into a single name, written without hyphen, may in some cases promote clarity and simplicity (e.g., tomcod, goldfish, mudminnow), but the wholesale practice of combining words, especially those that are lengthy, awkward, or unfamiliar, is deplored.

5. *Common names shall not be capitalized in text use except for those elements that are proper names (e.g., rainbow trout but Sacramento perch).*

6. *Names intended to honor persons (e.g., Allison's tuna, Julia's darter) are not admissible.*

7. *Only clearly defined and well-marked taxonomic entities (usually species) shall be assigned common names.*—Most subspecies are not suitable subjects for common names, but those forms that are so different in appearance (not just in geographic distribution) as to be distinguished readily by sport or commercial fishermen or laymen or for which a common name constitutes a significant aid in communication may merit separate names. Subspecies have importance in evolutionary inquiry but are rarely of significance to laymen or in those aspects of biological endeavor in which common names are of concern. The practice of adding geographic modifiers to designate regional

populations makes for a cumbersome terminology.

8. *The common name shall not be intimately tied to the scientific name.*—Thus the vagaries of scientific nomenclature do not entail constant changing of common names. The practice of applying a name to each genus, a modifying name for each species, and still another modifier for each subspecies, while appealing in its simplicity, has the defect of inflexibility. If a fish is transferred from genus to genus, or shifted from species to subspecies or vice versa, the common name should nevertheless remain unaffected. It is not a primary function of common names to indicate relationship. When two or more taxonomic groups (e.g., nominal species) are found to be identical, one name shall be adopted for the combined group.

This principle is regarded not only as fundamental to the achievement of stability, but as essential to the development of a true vernacular nomenclature.

9. *Names shall not violate the tenets of good taste.*

The preceding principles are largely in the nature of procedural dicta. Those given below are criteria that are regarded as aids in the selection of suitable names.

10. *Colorful, romantic, fanciful, metaphorical, and otherwise distinctive and original names are especially appropriate.*—Such terminology adds to the richness and breadth of the nomenclature and yields a harvest of satisfaction to the user. Examples of such names include: Dolly Varden, madtom, hogchoker, garibaldi, pumpkinseed, flier, angelfish, midshipman, and chilipepper.

11. *American Indian names are welcome for adoption as common names.*—Those in current use include muskellunge, eulachon, mummichog, chinook, tautog, menhaden, and cisco.

12. *Regardless of origin, truly vernacular names that are widespread and in common use by the public are to be retained wherever possible.*—In addition to aboriginal names, many now well-known names of American fishes have been derived from non-English-speaking fishermen of foreign extraction: barracuda, cero, grouper, pompano (Spanish); bocaccio (Italian); capelin, inconnu (French). Although too little genuine originality is evident, many excellent names have

been developed by American immigrants. Most of these conform to principles 14 and 15 below.

13. *Commonly employed names adopted from traditional English usage (e.g., cod, pike, sole, flounder, bass, perch, chub, minnow) may be given considerable latitude in taxonomic placement.*—Adherence to customary English practice is to be preferred if this does not conflict with the broad general use of another name. Many English names, however, have been applied to similar appearing but often distantly related fishes in America. We find perch in use for representatives of at least 9 families of spiny-rayed fishes. Chub appears in such diverse groups as the Salmonidae, Cyprinidae, and Kyphosidae. The ocean whitefish (*Caulolatilus princeps*) is not a salmonid and the blue pike (*Stizostedion vitreum glaucum*) is remote from the Esocidae, yet each is best known to fishermen throughout its range by the name indicated. For widely-known species the Committee believes it preferable to recognize general use than to engage in a probably futile effort to gain the general adoption of bookish or pedantic substitutes. Thus, established practice should outweigh consistency with original English usage.

14. *Structural attributes, including color and color pattern, are desirable and are in common use in forming names.*—Sailfin, flathead, slippery, giant, mottled, copper, tripletail, and a multitude of others decorate fish names. Efforts should be made to select terms that are descriptively accurate, and to hold repetition of those most frequently employed (e.g., white, black, spotted, banded) to a minimum.

15. *Ecological characteristics are useful in making good names.*—They too should be properly descriptive. Terms such as sand, rock, lake, riffle, freshwater and mountain are well known in fish names.

16. *Geographic distribution provides suitable adjectival modifiers.*—Poorly descriptive or misleading geographic characterizations (e.g., Kentucky bass for a wide-ranging species) should be corrected unless they are too deeply entrenched in current usage. In the interest of brevity it is usually possible to delete words such as lake, river, or ocean in the names of species (e.g., Colorado squawfish, not Colorado River squawfish).

17. *Generic names may be employed outright (e.g., remora) or in modified form (e.g.,*

molly, from *Mollinnesia*) as common names.—Once adopted such names should be maintained even if the generic name is changed. These vernaculars should be written in Roman and without capitalization. Brevity and euphony are of especial importance for names of this type, which will probably be adopted most often for aquarium fishes or other smaller and little-known kinds that do not already have a well-established vernacular nomenclature.

18. *The duplication of common names for fishes and other organisms should be avoided if possible, but names in wide general use need not be rejected on this basis alone.*—The name dolphin is commonly applied to certain cetaceans and also to *Coryphaena hippurus*. Similarly, buffalo is employed for various artiodactyls and for suckers of the genus *Ictiobus*. On the basis of prevailing use these names are admissible as fish names.

19. *Names that appear on official lists of names of fishes prepared by other agencies shall be preferred.*

PLAN OF LIST

The list is presented as a natural or phylogenetic sequence of families of fishes, with the species of each family alphabetized to generic and specific names. In order to facilitate use the three classes of recent fishes (Agnatha—jawless fishes, Chondrichthyes—cartilaginous fishes, and Osteichthyes—bony fishes) and the orders are indicated. For the latter, the ordinal names of the Goodrich system (*formes* endings) are given first, followed, in parentheses, by equivalent names employed by Regan, Jordan, Romer or others. Both common and technical names of families (*idae* endings) are given. Within families the sequence is alphabetical to scientific name; the occasional disadvantage of separating closely related forms within a family is regarded as more than offset by the greater ease in use.

An innovation in this edition is the inclusion of authorities for scientific names. These are commonly needed by fishery workers, who may not have ready access to the necessary references. In any event their appearance here in a single cover is a great convenience. Care has been taken to prevent errors in author's names; usage here reflects current interpretation of the International Rules on Zoological Nomenclature. In line with those rules, the author's name(s) follows the specific name directly and without

punctuation if the species, when originally described, was assigned to the same genus in which it appears here; if the species was described in another genus, the author's name(s) appears in parentheses. For example, the brook trout was originally named *Salmo fontinalis* by Mitchell; it appears here as *Salvelinus fontinalis* (Mitchill).

In preparation of the list hundreds of decisions had to be made that involved interpretation of rules of nomenclature, systematic status and limits of species, genera, and families, occurrence within the prescribed region, and other problems. Four times in six years it has been possible for a majority of the committee members to gather around a table and attack these problems together. The resultant interchange of ideas and information, extended by circulation of dozens of work lists, has made possible striking concordance on what started as areas of disagreement. There remain, to be sure, many differences of opinion, but there has been a broadened area of understanding and a spirit of good humor and willingness to compromise difficulties. Decisions have been made by majority opinion of the Committee. Thus, no committee member subscribes to all decisions reached. In many places, information available to the Committee exceeded that in the current literature. In general it has been our policy to withhold making such changes here, although we have made some considered exceptions, especially when the new data will appear shortly.

INDICES

The main list, Part I, appears on pages 6 to 50; there follow indices, Part II, to common names (pages 51 to 75) and, Part III, to scientific names (pages 76 to 102). The index to common names gives page references to approved common names of classes, families, and species. A single entry is included for each species; for example, *Salmo gairdneri* is entered only under "trout, rainbow." In addition to approved names, the index includes also other names that are in wide use followed by the equivalent approved name. There are a great many vernacular names of American fishes, and extensive search would be necessary to assemble even a large fraction of them. This the Committee has not attempted to do, but most of the more widely used names are included.

The index to scientific names gives page references to the names here entered for

classes, orders, families, genera, and species. Each species is entered only under its specific name. For example, the bluegill may be located under "*macrochirus*, *Lepomis*" but not under *Lepomis macrochirus*, although an entry for *Lepomis* directs the reader to the proper page. Scientific names that are not accepted in this list are excluded except for those that appeared in the first edition and have since been placed in synonymy.

ACKNOWLEDGMENTS

Many persons have contributed to the preparation of this report. In addition to the present Committee, these include authors of the first edition, Walter A. Chute, W. A. Clemens, John R. Dymond, the late Samuel F. Hildebrand, George S. Myers, and Leonard P. Schultz, and others who served during the interim between the two editions, Charles M. Breder, Ralph Hile, Raymond E. Johnson, Frank T. Knapp, John C. Marr, Edward C. Raney, William E. Ricker, and Royal D. Suttkus. Specialists have been most generous in their assistance, which is much appreciated. Among the many, a few may be mentioned for their especial helpfulness: Frederick H. Berry, James E. Böhlke, John C. Briggs, Homer Cirele, Daniel M.

Cohen, John E. Fitch, W. I. Follett, Earl S. Herald, Carl L. Hubbs, Clark Hubbs, William A. Kennedy, A. H. Leim, Gordon F. Luce, Jr., William R. Martin, Robert R. Miller, George A. Moore, C. Lavett Smith, William R. Taylor, Boyd W. Walker, Vladimir Walters, and Norman J. Wilimovsky.

In 1951 the American Fisheries Society approved a plan whereby the Committee on Names of Fishes of that Society would serve jointly as a Committee on Common Names of Fishes in the American Society of Ichthyologists and Herpetologists. The president of the ASIH formally appointed the Committee. Since that time this arrangement has worked smoothly. All personnel on the Committee are members of both societies and the formulation of this list, it is believed, serves common interests. Annual meetings of the ASIH have provided a convenient opportunity to assemble the joint committee to attack problems in the preparation of this list. The plan is mutually advantageous, and we hope it may continue.

We gratefully acknowledge financial assistance in the publication of this list provided by the National Science Foundation. (NSF-G12424).

PART I

Accepted Common Name, Occurrence, and Scientific Name

COMMON NAME	OCCURRENCE ¹	SCIENTIFIC NAME
-------------	-------------------------	-----------------

CLASS AGNATHA—JAWLESS FISHES

ORDER MYXINIFORMES (MYXINOIDEA; HYPEROTRETI)

Myxinidae—hagfishes

Atlantic hagfish.....	A	<i>Myxine glutinosa</i> Linnaeus
Black hagfish.....	P	<i>Polistotrema deani</i> Evermann and Goldsborough
Pacific hagfish.....	P	<i>Polistotrema stouti</i> (Lockington)

ORDER PETROMYZONTIFORMES (PETROMYZONTIA; HYPEROARTII)

Petromyzontidae—lampreys

Ohio lamprey.....	F	<i>Ichthyomyzon bdellium</i> (Jordan)
Chestnut lamprey.....	F	<i>Ichthyomyzon castaneus</i> Girard
Northern brook lamprey.....	F	<i>Ichthyomyzon fossor</i> Reighard and Cummins
Southern brook lamprey.....	F	<i>Ichthyomyzon gagei</i> Hubbs and Trautman
Allegheny brook lamprey.....	F	<i>Ichthyomyzon greeleyi</i> Hubbs and Trautman
Mountain brook lamprey.....	F	<i>Ichthyomyzon hubbsi</i> Raney
Silver lamprey.....	F	<i>Ichthyomyzon unicuspis</i> Hubbs and Trautman
Least brook lamprey.....	F	<i>Lampetra aepyptera</i> (Abbott)
River lamprey.....	P-F.....	<i>Lampetra ayresi</i> (Günther)
Arctic lamprey.....	P-F.....	<i>Lampetra japonica</i> (Martens)
American brook lamprey.....	F	<i>Lampetra lamottei</i> (LeSueur)
Western brook lamprey.....	F	<i>Lampetra planeri</i> (Bloch)
Pacific lamprey.....	P-F.....	<i>Lampetra tridentata</i> (Gairdner)
Sea lamprey.....	A-F.....	<i>Petromyzon marinus</i> Linnaeus

CLASS CHONDRICHTHYES—CARTILAGINOUS FISHES

ORDER SQUALIFORMES (SELACHII)

Hexanchidae—cow sharks

Sixgill shark.....	A-P.....	<i>Hexanchus griseum</i> (Bonnaterre)
Sevengill shark.....	P	<i>Notorynchus maculatus</i> Ayres

Chlamydoselachidae—frill sharks

Frill shark.....	P	<i>Chlamydoselachus anguineum</i> Garman
------------------	---------	--

Heterodontidae—horn sharks

Horn shark.....	P	<i>Heterodontus francisci</i> (Girard)
-----------------	---------	--

Carchariidae—sand sharks

Sand shark.....	A	<i>Carcharias taurus</i> Rafinesque
-----------------	---------	-------------------------------------

Lamnidae—mackerel sharks

Bigeye thresher.....	A	<i>Alopias superciliosus</i> (Lowe)
Thresher shark.....	A-P.....	<i>Alopias vulpinus</i> (Bonnaterre)

¹ A = Atlantic; P = Pacific; F = Freshwater

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
White shark.....	A-P.....	<i>Carcharodon carcharias</i> (Linnaeus)
Basking shark.....	A-P.....	<i>Cetorhinus maximus</i> (Gunnerus)
Bonito shark.....	P.....	<i>Isurus glaucus</i> (Müller and Henle)
Mako.....	A.....	<i>Isurus oxyrinchus</i> Rafinesque
Salmon shark.....	P.....	<i>Lamna ditropis</i> Hubbs and Follett
Porbeagle.....	A.....	<i>Lamna nasus</i> (Bonnaterre)

Orectolobidae—nurse sharks

Nurse shark.....	A.....	<i>Ginglymostoma cirratum</i> (Bonnaterre)
------------------	--------	--

Rhincodontidae—whale sharks

Whale shark.....	A-P.....	<i>Rhincodon typus</i> Smith
------------------	----------	------------------------------

Scyliorhinidae—cat sharks

Brown cat shark.....	P.....	<i>Apristurus brunneus</i> (Gilbert)
Swell shark.....	P.....	<i>Cephaloscyllium uter</i> (Jordan and Gilbert)
Filetail cat shark.....	P.....	<i>Parmaturus xanthurus</i> (Gilbert)
False cat shark.....	A.....	<i>Pseudotriakis microdon</i> Brito Capello
Chain dogfish.....	A.....	<i>Scyliorhinus retifer</i> (Garman)

Carcharhinidae—requiem sharks

Finetooth shark.....	A.....	<i>Aprionodon isodon</i> (Müller and Henle)
Blacknose shark.....	A.....	<i>Carcharhinus acronotus</i> (Poey)
Bignose shark.....	A.....	<i>Carcharhinus altima</i> (Springer)
Roundnose shark.....	P.....	<i>Carcharhinus azureus</i> (Gilbert and Starks)
Sickle shark.....	A.....	<i>Carcharhinus falciformis</i> (Müller and Henle)
Silky shark.....	A.....	<i>Carcharhinus floridanus</i> Bigelow, Schroeder, and Springer
Bay shark.....	P.....	<i>Carcharhinus lamiella</i> (Jordan and Gilbert)
Bull shark.....	A.....	<i>Carcharhinus leucas</i> (Müller and Henle)
Blacktip shark.....	A.....	<i>Carcharhinus limbatus</i> (Müller and Henle)
Whitetip shark.....	A.....	<i>Carcharhinus longimanus</i> (Poey)
Spinner shark.....	A.....	<i>Carcharhinus maculipinnis</i> (Poey)
Sandbar shark.....	A.....	<i>Carcharhinus milberti</i> (Müller and Henle)
Dusky shark.....	A.....	<i>Carcharhinus obscurus</i> (LeSueur)
Smalltail shark.....	A.....	<i>Carcharhinus porosus</i> (Ranzani)
Narrowtooth shark.....	P.....	<i>Carcharhinus remotus</i> (Duméril)
Tiger shark.....	A-P.....	<i>Galeocerdo cuvieri</i> (Peron and LeSueur)
Soupsfin shark.....	P.....	<i>Galeorhinus zyopterus</i> Jordan and Gilbert
Night shark.....	A.....	<i>Hypoprion signatus</i> Poey
Gray smoothhound.....	P.....	<i>Mustelus californicus</i> Gill
Smooth dogfish.....	A.....	<i>Mustelus canis</i> (Mitchill)
Sicklefin smoothhound.....	P.....	<i>Mustelus lunulatus</i> Jordan and Gilbert
Florida smoothhound.....	A.....	<i>Mustelus norrisi</i> Springer
Lemon shark.....	A.....	<i>Negaprion brevirostris</i> (Poey)
Blue shark.....	A-P.....	<i>Prionace glauca</i> (Linnaeus)
Pacific sharpnose shark.....	P.....	<i>Scoliodon longurio</i> (Jordan and Gilbert)
Atlantic sharpnose shark.....	A.....	<i>Scoliodon terraenovae</i> (Richardson)
Brown smoothhound.....	P.....	<i>Triakis henlei</i> (Gill)
Leopard shark.....	P.....	<i>Triakis semifasciata</i> Girard

Sphyrnidae—hammerhead sharks

Scalloped hammerhead.....	A-P.....	<i>Sphyrna lewini</i> (Griffith)
Great hammerhead.....	A.....	<i>Sphyrna mokarran</i> (Rüppell)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Bonnethead	A-P	<i>Sphyrna tiburo</i> (Linnaeus)
Smooth hammerhead	A-P	<i>Sphyrna zygaena</i> (Linnaeus)
Squalidae—dogfish sharks		
Black dogfish	A	<i>Centroscyllium fabricii</i> (Reinhardt)
Kitefin shark	A	<i>Dalatias licha</i> (Bonnaterre)
Bramble shark	A-P	<i>Echinorhinus brucus</i> (Bonnaterre)
Greenland shark	A	<i>Somniosus microcephalus</i> (Bloch and Schneider)
Pacific sleeper shark	P	<i>Somniosus pacificus</i> Bigelow and Schroeder
Spiny dogfish	A-P	<i>Squalus acanthias</i> Linnaeus
Cuban dogfish	A	<i>Squalus cubensis</i> Howell Rivero
Squatinae—angel sharks		
Pacific angel shark	P	<i>Squatina californica</i> Ayres
Atlantic angel shark	A	<i>Squatina dumerili</i> LeSueur
ORDER RAJIFORMES (BATOIDEI)		
Pristidae—sawfishes		
Smalltooth sawfish	A	<i>Pristis pectinatus</i> Latham
Largetooth sawfish	A	<i>Pristis perotteti</i> Müller and Henle
Rhinobatidae—guitarfishes		
Thornback	P	<i>Platyrhinoidis triseriata</i> (Jordan and Gilbert)
Atlantic guitarfish	A	<i>Rhinobatos lentiginosus</i> (Garman)
Shovelnose guitarfish	P	<i>Rhinobatos productus</i> (Ayres)
Banded guitarfish	P	<i>Zapteryx exasperata</i> (Jordan and Gilbert)
Torpedinidae—electric rays		
Lesser electric ray	A	<i>Narcine brasiliensis</i> (Olfers)
Pacific electric ray	P	<i>Torpedo californica</i> Ayres
Atlantic torpedo	A	<i>Torpedo nobiliana</i> Bonaparte
Rajidae—skates		
Ocellate skate	A	<i>Raja ackleyi</i> Garman
Aleutian skate	P	<i>Raja aleutica</i> Gilbert
Big skate	P	<i>Raja binoculata</i> Girard
Clearnose skate	A	<i>Raja eglanteria</i> Bosc
Little skate	A	<i>Raja erinacea</i> Mitchell
Rosette skate	A	<i>Raja garmani</i> Whitley
California skate	P	<i>Raja inornata</i> Jordan and Gilbert
Bering skate	P	<i>Raja interrupta</i> Gill and Townsend
Black skate	P	<i>Raja kincaidi</i> Garman
Barndoor skate	A	<i>Raja laevis</i> Mitchell
Freckled skate	A	<i>Raja lentiginosa</i> Bigelow and Schroeder
Winter skate	A	<i>Raja ocellata</i> Mitchell
Spreadfin skate	A	<i>Raja olseni</i> Bigelow and Schroeder
Alaska skate	P	<i>Raja parmifera</i> Bean
Thorny skate	A	<i>Raja radiata</i> Donovan
Longnose skate	P	<i>Raja rhina</i> Jordan and Gilbert
Flathead skate	P	<i>Raja rosispinis</i> Gill and Townsend
Smooth skate	A	<i>Raja senta</i> Garman

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Spinytail skate.....	A	<i>Raja spinicauda</i> Jensen
Starry skate.....	P	<i>Raja stellulata</i> Jordan and Gilbert
Roundel skate.....	A	<i>Raja texana</i> Chandler
Roughtail skate.....	P	<i>Raja trachura</i> Gilbert

Dasyatidae—stingrays

Southern stingray.....	A	<i>Dasyatis americana</i> Hildebrand and Schroeder
Roughtail stingray.....	A	<i>Dasyatis centroura</i> (Mitchill)
Diamond stingray.....	P	<i>Dasyatis dipterurus</i> (Jordan and Gilbert)
Atlantic stingray.....	A	<i>Dasyatis sabina</i> (LeSueur)
Bluntnose stingray.....	A	<i>Dasyatis sayi</i> (LeSueur)
Pelagic stingray.....	P	<i>Dasyatis violacea</i> (Bonaparte)
Spiny butterfly ray.....	A	<i>Gymnura altavela</i> (Linnaeus)
California butterfly ray.....	P	<i>Gymnura marmorata</i> (Cooper)
Smooth butterfly ray.....	A	<i>Gymnura micrura</i> (Bloch and Schneider)
Round stingray.....	P	<i>Urolophus halleri</i> Cooper
Yellow stingray.....	A	<i>Urolophus jamaicensis</i> (Cuvier)

Myliobatidae—eagle rays

Spotted eagle ray.....	A	<i>Actobatus narinari</i> (Euphrasen)
Bat stingray.....	P	<i>Myliobatis californicus</i> Gill
Bullnose ray.....	A	<i>Myliobatis freminvillei</i> LeSueur
Southern eagle ray.....	A	<i>Myliobatis goodei</i> Garman
Cownose ray.....	A	<i>Rhinoptera bonasus</i> (Mitchill)

Mobulidae—mantas

Atlantic manta.....	A	<i>Manta birostris</i> (Walbaum)
Pacific manta.....	P	<i>Manta hamiltoni</i> (Newman)
Devil ray.....	A	<i>Mobula hypostoma</i> (Bancroft)
Spinetail mobula.....	P	<i>Mobula japanica</i> (Müller and Henle)
Smoothtail mobula.....	P	<i>Mobula lucasana</i> Beebe and Tee-Van

ORDER CHIMAERIFORMES (CHIMAERAE)

Chimaeridae—chimaeras

Ratfish.....	P	<i>Hydrolagus collicii</i> (Lay and Bennett)
--------------	---	--

CLASS OSTEICHTHYES—BONY FISHES

ORDER ACIPENSERIFORMES (CHONDROSTEI)

Acipenseridae—sturgeons

Shortnose sturgeon.....	A-F	<i>Acipenser brevirostrum</i> LeSueur
Lake sturgeon.....	F	<i>Acipenser fulvescens</i> Rafinesque
Green sturgeon.....	P-F	<i>Acipenser medirostris</i> Ayres
Atlantic sturgeon.....	A-F	<i>Acipenser oxyrinchus</i> Mitchell
White sturgeon.....	P-F	<i>Acipenser transmontanus</i> Richardson
Pallid sturgeon.....	F	<i>Scaphirhynchus albus</i> (Forbes and Richardson)
Shovelnose sturgeon.....	F	<i>Scaphirhynchus platorynchus</i> (Rafinesque)

Polyodontidae—paddlefishes

Paddlefish.....	F	<i>Polyodon spathula</i> (Walbaum)
-----------------	---	------------------------------------

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
-------------	------------	-----------------

ORDER SEMIONOTIFORMES (PROTOSPONDYLI AND GINGLYMODI)

Lepisosteidae—gars

Spotted gar	F	<i>Lepisosteus oculatus</i> (Winchell)
Longnose gar	F	<i>Lepisosteus osseus</i> (Linnaeus)
Shortnose gar	F	<i>Lepisosteus platostomus</i> Rafinesque
Florida gar	F	<i>Lepisosteus platyrhincus</i> DeKay
Alligator gar	F	<i>Lepisosteus spatula</i> Lacépède

ORDER AMIIFORMES (HALECOMORPHI)

Amiidae—bowfins

Bowfin	F	<i>Amia calva</i> Linnaeus
------------------	---	----------------------------

ORDER CLUPEIFORMES (ISOSPONDYLI)

Elopidae—tarpons

Machete	P-F	<i>Elops affinis</i> Regan
Ladyfish	A	<i>Elops saurus</i> Linnaeus
Tarpon	A	<i>Megalops atlantica</i> Valenciennes

Albulidae—bonefishes

Bonefish	A-P	<i>Albula vulpes</i> (Linnaeus)
--------------------	-----	---------------------------------

Clupeidae—herrings

Blueback herring	A-F	<i>Alosa aestivalis</i> (Mitchill)
Alabama shad	A-F	<i>Alosa alabamae</i> Jordan and Evermann
Skipjack herring	A-F	<i>Alosa chrysochloris</i> (Rafinesque)
Hickory shad	A	<i>Alosa mediocris</i> (Mitchill)
Ohio shad	F	<i>Alosa ohioensis</i> Evermann
Alewife	A-F	<i>Alosa pseudoharengus</i> (Wilson)
American shad	A-F-P	<i>Alosa sapidissima</i> (Wilson)
Finescale menhaden	A	<i>Brevoortia gunteri</i> Hildebrand
Largescale menhaden	A	<i>Brevoortia patronus</i> Goode
Yellowfin shad	A	<i>Brevoortia smithi</i> Hildebrand
Atlantic menhaden	A	<i>Brevoortia tyrannus</i> (Latrobe)
Atlantic herring	A	<i>Clupea harengus harengus</i> Linnaeus
Pacific herring	P	<i>Clupea harengus pallasi</i> Valenciennes
Gizzard shad	A-F	<i>Dorosoma cepedianum</i> (LeSueur)
Threadfin shad	A-F	<i>Dorosoma petenense</i> (Günther)
California round herring	P	<i>Etrumeus acuminatus</i> Gilbert
Atlantic round herring	A	<i>Etrumeus sadina</i> (Mitchill)
False pilchard	A	<i>Harengula clupeiola</i> Valenciennes
Redear sardine	A	<i>Harengula humeralis</i> Cuvier
Scaled sardine	A	<i>Harengula pensacolatae</i> Goode and Bean
Flatiron herring	P	<i>Harengula thrissina</i> (Jordan and Gilbert)
Dwarf herring	A	<i>Jenkinsia lamprotaenia</i> (Gosse)
Pacific thread herring	P	<i>Opisthonema libertate</i> (Günther)
Atlantic thread herring	A	<i>Opisthonema oglinum</i> (LeSueur)
Spanish sardine	A	<i>Sardinella anchovia</i> Valenciennes
Pacific sardine	P	<i>Sardinops sagax</i> (Jenyns)

COMMON NAME OCCURRENCE SCIENTIFIC NAME

Engraulidae—anchovies

Key anchovy.....	A	<i>Anchoa cayorum</i> (Fowler)
Deepbody anchovy.....	P	<i>Anchoa compressa</i> (Girard)
Cuban anchovy.....	A	<i>Anchoa cubana</i> (Poey)
Slough anchovy.....	P	<i>Anchoa delicatissima</i> (Girard)
New Jersey anchovy.....	A	<i>Anchoa duodecim</i> (Cope)
Striped anchovy.....	A	<i>Anchoa hepsetus</i> (Linnaeus)
Longnose anchovy.....	A	<i>Anchoa lamprotaenia</i> Hildebrand
Dusky anchovy.....	A	<i>Anchoa lyolepis</i> (Evermann and Marsh)
Bay anchovy.....	A	<i>Anchoa mitchilli</i> (Valenciennes)
Silver anchovy.....	A	<i>Anchoviella curystole</i> (Swain and Meek)
Slim anchovy.....	P	<i>Anchoviella miarcha</i> (Jordan and Gilbert)
Flat anchovy.....	A	<i>Anchoviella perfasciata</i> (Poey)
Anchoveta.....	P	<i>Cetengraulis mysticetus</i> (Günther)
Northern anchovy.....	P	<i>Engraulis mordax</i> Girard

Salmonidae—trouts, whitefishes, and graylings

Longjaw cisco.....	F	<i>Coregonus</i> ¹ <i>alpenae</i> (Koelz)
Cisco or lake herring.....	F	<i>Coregonus artedii</i> LeSueur
Arctic cisco.....	F	<i>Coregonus autumnalis</i> (Pallas)
Lake whitefish.....	A-F	<i>Coregonus clupeaformis</i> (Mitchill)
Bloater.....	F	<i>Coregonus hoyi</i> (Gill)
Deepwater cisco.....	F	<i>Coregonus johanna</i> (Wagner)
Kiyi.....	F	<i>Coregonus kiyi</i> (Koelz)
Broad whitefish.....	F	<i>Coregonus nasus</i> (Pallas)
Blackfin cisco.....	F	<i>Coregonus nigripinnis</i> (Gill)
Nipigon cisco.....	F	<i>Coregonus nipigon</i> (Koelz)
Humpback whitefish.....	F	<i>Coregonus pidschian</i> (Gmelin)
Shortnose cisco.....	F	<i>Coregonus reighardi</i> (Koelz)
Least cisco.....	F	<i>Coregonus sardinella</i> Valenciennes
Shortjaw cisco.....	F	<i>Coregonus zenithicus</i> (Jordan and Evermann)
Pink salmon.....	A-F-P	<i>Oncorhynchus gorbusha</i> (Walbaum)
Chum salmon.....	P-F	<i>Oncorhynchus keta</i> (Walbaum)
Coho salmon.....	A-F-P	<i>Oncorhynchus kisutch</i> (Walbaum)
Sockeye salmon ²	P-F	<i>Oncorhynchus nerka</i> (Walbaum)
Chinook salmon.....	P-F	<i>Oncorhynchus tshawytscha</i> (Walbaum)
Bear Lake whitefish.....	F	<i>Prosopium abyssicola</i> (Snyder)
Pygmy whitefish.....	F	<i>Prosopium coulteri</i> (Eigenmann and Eigenmann)
Round whitefish.....	F	<i>Prosopium cylindraceum</i> (Pallas)
Bonneville cisco.....	F	<i>Prosopium gemmiferum</i> (Snyder)
Bonneville whitefish.....	F	<i>Prosopium spilonotus</i> (Snyder)
Mountain whitefish.....	F	<i>Prosopium williamsoni</i> (Girard)
Golden trout.....	F	<i>Salmo aguabonita</i> Jordan
Cutthroat trout.....	P-F	<i>Salmo clarki</i> Richardson
Rainbow trout ³	A-F-P	<i>Salmo gairdneri</i> Richardson
Gila trout.....	F	<i>Salmo gilae</i> Miller
Atlantic salmon ⁴	A-F	<i>Salmo salar</i> Linnaeus

¹ The genus *Coregonus* is here employed to include species referred by some authors to *Leucichthys*.

² Lacustrine sockeye salmon stocks are known as kokanee.

³ Rainbow trout are commonly called steelhead trout when they enter or return from the sea and large inland lakes.

⁴ Lake populations of Atlantic salmon are variously known as ouananiche, lake Atlantic salmon, landlocked salmon, and Sebago salmon.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Brown trout.....	A-F	<i>Salmo trutta</i> Linnaeus
Arctic char ¹	A-F-P	<i>Salvelinus alpinus</i> (Linnaeus)
Brook trout.....	A-F	<i>Salvelinus fontinalis</i> (Mitchill)
Dolly Varden.....	P-F	<i>Salvelinus malma</i> (Walbaum)
Lake trout.....	F	<i>Salvelinus namaycush</i> (Walbaum)
Inconnu.....	F	<i>Stenodus leucichthys</i> (Güldenstadt)
Arctic grayling.....	F	<i>Thymallus arcticus</i> (Pallas)
Osmeridae—smelts		
Whitebait smelt.....	P	<i>Allosmerus elongatus</i> (Ayres)
Pond smelt.....	P-F	<i>Hypomesus olidus</i> (Pallas)
Surf smelt.....	P-F	<i>Hypomesus pretiosus</i> (Girard)
Capelin.....	A-P	<i>Mallotus villosus</i> (Müller)
Arctic smelt.....	P-F	<i>Osmerus dentex</i> Steindachner
American smelt.....	A-F	<i>Osmerus mordax</i> (Mitchill)
Longfin smelt.....	P-F	<i>Spirinchus dilatatus</i> Schultz and Chapman
Night smelt.....	P	<i>Spirinchus starksi</i> (Fisk)
Sacramento smelt.....	P-F	<i>Spirinchus thaleichthys</i> (Ayres)
Eulachon.....	P-F	<i>Thaleichthys pacificus</i> (Richardson)
Argentinidae—argentines		
Pacific argentine.....	P	<i>Argentina sialis</i> Gilbert
Atlantic argentine.....	A	<i>Argentina silus</i> Ascanius
Bathylagidae ² —deepsea smelts		
California smoothtongue.....	P	<i>Leuroglossus stilbius</i> Gilbert
Opisthoproctidae ³ —barreleyes		
Barreleye.....	P	<i>Macropinna microstoma</i> Chapman
Hiodontidae—mooneyes		
Goldeye.....	F	<i>Hiodon alosoides</i> (Rafinesque)
Mooneye.....	F	<i>Hiodon tergisus</i> LeSueur
Umbridae—mudminnows		
Alaska blackfish.....	F	<i>Dallia pectoralis</i> Bean
Olympic mudminnow.....	F	<i>Novumbra hubbsi</i> Schultz
Central mudminnow.....	F	<i>Umbra limi</i> (Kirtland)
Eastern mudminnow.....	F	<i>Umbra pygmaea</i> (DeKay)
Esocidae—pikes		
Redfin pickerel.....	F	<i>Esox americanus americanus</i> Gmelin
Grass pickerel.....	F	<i>Esox americanus vermiculatus</i> LeSueur
Chain pickerel.....	F	<i>Esox niger</i> LeSueur
Northern pike.....	F	<i>Esox lucius</i> Linnaeus
Muskellunge ⁴	F	<i>Esox masquinongy</i> Mitchill

¹ Sunapee trout, blueback trout, and Quebec red trout are regarded by some authors as species distinct from the Arctic char.

² Most deepsea smelts are bathypelagic; few enter water less than 100 fathoms deep.

³ Bathypelagic fishes of which one species has been recorded as a straggler in our area.

⁴ Spelled maskinonge in Ontario and Quebec.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
-------------	------------	-----------------

ORDER MYCTOPHIFORMES (INIOMI)

Synodontidae—lizardfishes

Largescale lizardfish.....	A	.....<i>Saurida brasiliensis</i> Norman
Smallscale lizardfish.....	A	.....<i>Saurida caribbaea</i> Breder
Shortjaw lizardfish.....	A	.....<i>Saurida normani</i> Longley
Inshore lizardfish.....	A	.....<i>Synodus foetens</i> (Linnaeus)
Sand diver.....	A	.....<i>Synodus intermedius</i> (Agassiz)
California lizardfish.....	P	.....<i>Synodus lucioceps</i> (Ayres)
Offshore lizardfish.....	A	.....<i>Synodus poeyi</i> Jordan
Red lizardfish.....	A	.....<i>Synodus synodus</i> (Linnaeus)
Snakefish.....	A	.....<i>Trachinocephalus myops</i> (Forster)

Scopelarchidae—pearleyes

Northern pearleye.....	P <i>Neoscopelarchoides dentatus</i> Chapman
------------------------	---	--

Myctophidae—lanternfishes

The many species of lanternfishes are chiefly bathypelagic, but occasional stragglers are found over the continental shelf.

Alepisauridae—lancetfishes

Longnose lancetfish.....	A	.....<i>Alepisaurus ferox</i> Lowe
Pacific lancetfish.....	P	.....<i>Alepisaurus richardsoni</i> Bleeker

ORDER CYPRINIFORMES (OSTARIOPHYSI)

Characidae—characins and tetras

Mexican tetra.....	F <i>Astyanax mexicanus</i> (Filippi)
--------------------	---	---

Cyprinidae—minnows and carps

Chiselmouth.....	F	.....<i>Acrocheilus alutaceus</i> Agassiz and Pickering
Longfin dace.....	F	.....<i>Agosia chrysoaster</i> Girard
Stoneroller.....	F	.....<i>Campostoma anomalum</i> (Rafinesque)
Mexican stoneroller.....	F	.....<i>Campostoma ornatum</i> Girard
Goldfish.....	F	.....<i>Carassius auratus</i> (Linnaeus)
Northern redbelly dace.....	F	.....<i>Chrosomus eos</i> Cope
Southern redbelly dace.....	F	.....<i>Chrosomus erythrogaster</i> (Rafinesque)
Finescale dace.....	F	.....<i>Chrosomus neogaeus</i> (Cope)
Mountain redbelly dace.....	F	.....<i>Chrosomus oreas</i> Cope
Redside dace.....	F	.....<i>Clinostomus elongatus</i> (Kirtland)
Rosyside dace.....	F	.....<i>Clinostomus funduloides</i> Girard
Carp.....	F	.....<i>Cyprinus carpio</i> Linnaeus
Devils River minnow.....	F	.....<i>Dionda diaboli</i> Hubbs and Brown
Roundnose minnow.....	F	.....<i>Dionda episcopa</i> Girard
Ozark minnow.....	F	.....<i>Dionda nubila</i> (Forbes)
Desert dace.....	F	.....<i>Eremichthys acros</i> Hubbs and Miller
Silverjaw minnow.....	F	.....<i>Ericymba buccata</i> Cope
Cutlips minnow.....	F	.....<i>Exoglossum maxillingua</i> (LeSueur)
Utah chub.....	F	.....<i>Gila atraria</i> (Girard)
Blue chub.....	F	.....<i>Gila bicolor</i> (Girard)
Thicktail chub.....	F	.....<i>Gila crassicauda</i> (Baird and Girard)
Humpback chub.....	F	.....<i>Gila cypha</i> Miller

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Sonora chub.....	F	<i>Gila ditaenia</i> Miller
Rio Grande chub.....	F	<i>Gila nigrescens</i> (Girard)
Arroyo chub.....	F	<i>Gila orcutti</i> (Eigenmann and Eigenmann)
Yaqui chub.....	F	<i>Gila purpurea</i> (Girard)
Bonytail.....	F	<i>Gila robusta</i> Baird and Girard
Flame chub.....	F	<i>Hemitremia flammea</i> (Jordan and Gilbert)
California roach.....	F	<i>Hesperoleucus symmetricus</i> (Baird and Girard)
Brassy minnow.....	F	<i>Hybognathus hankinsoni</i> Hubbs
Cypress minnow.....	F	<i>Hybognathus hayi</i> Jordan
Silvery minnow.....	F	<i>Hybognathus nuchalis</i> Agassiz
Speckled chub.....	F	<i>Hybopsis</i> ¹ <i>aestivalis</i> (Girard)
Bigeye chub.....	F	<i>Hybopsis amblops</i> (Rafinesque)
Alabama chub.....	F	<i>Hybopsis bellica</i> (Girard)
Hornyhead chub.....	F	<i>Hybopsis biguttata</i> (Kirtland)
Slender chub.....	F	<i>Hybopsis cahni</i> Hubbs and Crowe
Oregon chub.....	F	<i>Hybopsis crameri</i> Snyder
Streamline chub.....	F	<i>Hybopsis dissimilis</i> (Kirtland)
Sturgeon chub.....	F	<i>Hybopsis gelida</i> (Girard)
Flathead chub.....	F	<i>Hybopsis gracilis</i> (Richardson)
Redeye chub.....	F	<i>Hybopsis harperi</i> (Fowler)
Highback chub.....	F	<i>Hybopsis hypsinotus</i> (Cope)
Blotched chub.....	F	<i>Hybopsis insignis</i> Hubbs and Crowe
Thicklip chub.....	F	<i>Hybopsis labrosa</i> (Cope)
Bluehead chub.....	F	<i>Hybopsis leptcephala</i> (Girard)
Sicklefin chub.....	F	<i>Hybopsis meeki</i> Jordan and Evermann
River chub.....	F	<i>Hybopsis micropogon</i> (Cope)
Spotfin chub.....	F	<i>Hybopsis monacha</i> (Cope)
Lake chub.....	F	<i>Hybopsis plumbea</i> (Agassiz)
Rosyface chub.....	F	<i>Hybopsis rubrifrons</i> (Jordan)
Silver chub.....	F	<i>Hybopsis storeriana</i> (Kirtland)
Gravel chub.....	F	<i>Hybopsis x-punctata</i> Hubbs and Crowe
Least chub.....	F	<i>Iotichthys phlegethontis</i> (Cope)
Hitch.....	F	<i>Lavinia exilicauda</i> Baird and Girard
Little Colorado spinedace.....	F	<i>Lepidomeda vittata</i> Cope
Spikedace.....	F	<i>Meda fulgida</i> Girard
Moapa dace.....	F	<i>Moapa coriacea</i> Hubbs and Miller
Peamouth.....	F	<i>Mylocheilus caurinus</i> (Richardson)
Hardhead.....	F	<i>Mylopharodon conocephalus</i> (Baird and Girard)
Golden shiner.....	F	<i>Notemigonus crysoleucas</i> (Mitchill)
White shiner.....	F	<i>Notropis albeolus</i> Jordan
Whitemouth shiner.....	F	<i>Notropis alborus</i> Hubbs and Raney
Highfin shiner.....	F	<i>Notropis altipinnis</i> (Cope)
Texas shiner.....	F	<i>Notropis amabilis</i> (Girard)
Pallid shiner.....	F	<i>Notropis annis</i> Hubbs and Greene
Comely shiner.....	F	<i>Notropis amoenus</i> (Abbott)
Satinfin shiner.....	F	<i>Notropis analostanus</i> (Girard)
Pugnose shiner.....	F	<i>Notropis anogenus</i> Forbes
Rosefin shiner.....	F	<i>Notropis ardens</i> (Cope)
Popeye shiner.....	F	<i>Notropis ariommus</i> (Cope)
Burrhead shiner.....	F	<i>Notropis asperifrons</i> Suttkus and Raney
Emerald shiner.....	F	<i>Notropis atherinoides</i> Rafinesque

¹ The genus *Hybopsis* is here employed to include species referred by some authors to *Couesius*, *Erimystax*, *Extrarius*, *Macrhybopsis*, *Nocomis*, *Oregonichthys*, and *Platygobio*.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Blackspot shiner	F	<i>Notropis atrocaudalis</i> Evermann
Rough shiner	F	<i>Notropis baileyi</i> Suttkus and Raney
Red River shiner	F	<i>Notropis bairdi</i> Hubbs and Ortenburger
Pretty shiner	F	<i>Notropis bellus</i> (Hay)
Bridle shiner	F	<i>Notropis bifrenatus</i> (Cope)
River shiner	F	<i>Notropis blenniuis</i> (Girard)
Bigeye shiner	F	<i>Notropis boops</i> Gilbert
Tamaulipas shiner	F	<i>Notropis braytoni</i> Jordan and Evermann
Brazos shiner	F	<i>Notropis brazosensis</i> Hubbs and Bonham
Smalleye shiner	F	<i>Notropis buccula</i> Cross
Ghost shiner	F	<i>Notropis buechanani</i> Meek
Blue shiner	F	<i>Notropis caeruleus</i> (Jordan)
Ocmulgee shiner	F	<i>Notropis callisema</i> (Jordan)
Alabama shiner	F	<i>Notropis callistius</i> (Jordan)
Bluestripe shiner	F	<i>Notropis callitaenia</i> Bailey and Gibbs
Bluntnose shiner	F	<i>Notropis camurus</i> (Jordan and Meek)
Crescent shiner	F	<i>Notropis cerasinus</i> (Cope)
Ironcolor shiner	F	<i>Notropis chalybaeus</i> (Cope)
Chihuahua shiner	F	<i>Notropis chihuahua</i> Woolman
Redlip shiner	F	<i>Notropis chiliticus</i> (Cope)
Greenfin shiner	F	<i>Notropis chloristius</i> (Jordan and Brayton)
Greenhead shiner	F	<i>Notropis chlorocephalus</i> (Cope)
Rainbow shiner	F	<i>Notropis chrosomus</i> (Jordan)
Warpaint shiner	F	<i>Notropis coccogenis</i> (Cope)
Common shiner	F	<i>Notropis cornutus</i> (Mitchill)
Dusky shiner	F	<i>Notropis cummingsae</i> Myers
Bigmouth shiner	F	<i>Notropis dorsalis</i> (Agassiz)
Broadstripe shiner	F	<i>Notropis euryzonus</i> Suttkus
Ribbon shiner	F	<i>Notropis fumeus</i> Evermann
Whitetail shiner	F	<i>Notropis galacturus</i> (Cope)
Arkansas River shiner	F	<i>Notropis girardi</i> Hubbs and Ortenburger
Wedgespot shiner	F	<i>Notropis greenei</i> Hubbs and Ortenburger
Blackchin shiner	F	<i>Notropis heterodon</i> (Cope)
Blacknose shiner	F	<i>Notropis heterolepis</i> Eigenmann and Eigenmann
Spottail shiner	F	<i>Notropis hudsonius</i> (Clinton)
Sailfin shiner	F	<i>Notropis hypslepterus</i> (Günther)
Highscale shiner	F	<i>Notropis hypsilepis</i> Suttkus and Raney
Silverband shiner	F	<i>Notropis illecebrosus</i> (Girard)
Rio Grande shiner	F	<i>Notropis jemezianus</i> (Cope)
Ohoopsee shiner	F	<i>Notropis leedsii</i> Fowler
Plateau shiner	F	<i>Notropis lepidus</i> (Girard)
Tennessee shiner	F	<i>Notropis leuciodus</i> (Cope)
Mountain shiner	F	<i>Notropis lirus</i> (Jordan)
Longnose shiner	F	<i>Notropis longirostris</i> (Hay)
Yellowfin shiner	F	<i>Notropis lutipinnis</i> (Jordan and Brayton)
Red shiner	F	<i>Notropis lutrensis</i> (Baird and Girard)
Taillight shiner	F	<i>Notropis maculatus</i> (Hay)
Pinewoods shiner	F	<i>Notropis matutinus</i> (Cope)
Whitefin shiner	F	<i>Notropis niveus</i> (Cope)
Kiamichi shiner	F	<i>Notropis ortenburgeri</i> Hubbs
Sharptooth shiner	F	<i>Notropis oxyrhynchus</i> Hubbs and Bonham
Ozark shiner	F	<i>Notropis ozarcanus</i> Meek
Plains shiner	F	<i>Notropis percobromus</i> (Cope)
Colorless shiner	F	<i>Notropis perpallidus</i> Hubbs and Black

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Coastal shiner	F	<i>Notropis petersoni</i> Fowler
Silver shiner	F	<i>Notropis photogenis</i> (Cope)
Chub shiner	F	<i>Notropis potteri</i> Hubbs and Bonham
Swallowtail shiner	F	<i>Notropis procne</i> (Cope)
Proserpine shiner	F	<i>Notropis proserpinus</i> (Girard)
Fieryblack shiner	F	<i>Notropis pyrrhomelas</i> (Cope)
Cherryfin shiner	F	<i>Notropis roseipinnis</i> (Hay)
Rosyface shiner	F	<i>Notropis rubellus</i> (Agassiz)
Saffron shiner	F	<i>Notropis rubricroceus</i> (Cope)
Sabine shiner	F	<i>Notropis sabinæ</i> Jordan and Gilbert
New River shiner	F	<i>Notropis scabriceps</i> (Cope)
Sandbar shiner	F	<i>Notropis scepticus</i> (Jordan and Gilbert)
Flagfin shiner	F	<i>Notropis signipinnis</i> Bailey and Suttkus
Bluntnose shiner	F	<i>Notropis simus</i> (Cope)
Mirror shiner	F	<i>Notropis spectrunculus</i> (Cope)
Spotfin shiner	F	<i>Notropis spilopterus</i> (Cope)
Silverstripe shiner	F	<i>Notropis stilbius</i> (Jordan)
Sand shiner	F	<i>Notropis stramineus</i> (Cope)
Weed shiner	F	<i>Notropis texanus</i> (Girard)
Topeka shiner	F	<i>Notropis topeka</i> Gilbert
Tricolor shiner	F	<i>Notropis trichroistius</i> (Jordan and Gilbert)
Redfin shiner	F	<i>Notropis umbratilis</i> (Girard)
Stargazing shiner	F	<i>Notropis uranoscopus</i> Suttkus
Blacktail shiner	F	<i>Notropis venustus</i> (Girard)
Mimic shiner	F	<i>Notropis volucellus</i> (Cope)
Bluenose shiner	F	<i>Notropis welaka</i> Evermann and Kendall
Steelcolor shiner	F	<i>Notropis whipplei</i> (Girard)
Coosa shiner	F	<i>Notropis xaenocphalus</i> (Jordan)
Altamaha shiner	F	<i>Notropis xaenurus</i> (Jordan)
Bleeding shiner	F	<i>Notropis zonatus</i> (Agassiz)
Bandfin shiner	F	<i>Notropis zonistius</i> (Jordan)
Pugnose minnow	F	<i>Opsopoeodus emiliae</i> Hay
Sacramento blackfish	F	<i>Orthodon microlepidotus</i> (Ayres)
Tonguetied minnow	F	<i>Parexoglossum lauræ</i> Hubbs
Riffle minnow	F	<i>Phenacobius catostomus</i> Jordan
Suckermouth minnow	F	<i>Phenacobius mirabilis</i> (Girard)
Kanawha minnow	F	<i>Phenacobius teretulus</i> Cope
Stargazing minnow	F	<i>Phenacobius uranops</i> Cope
Bluntnose minnow	F	<i>Pimephales notatus</i> (Rafinesque)
Fathead minnow	F	<i>Pimephales promelas</i> Rafinesque
Slim minnow	F	<i>Pimephales tenellus</i> (Girard)
Bullhead minnow	F	<i>Pimephales vigilax</i> (Baird and Girard)
Woundfin	F	<i>Plagopterus argentissimus</i> Cope
Splittail	F	<i>Pogonichthys macrolepidotus</i> (Ayres)
Sacramento squawfish	F	<i>Ptychocheilus grandis</i> (Ayres)
Colorado squawfish	F	<i>Ptychocheilus lucius</i> Girard
Northern squawfish	F	<i>Ptychocheilus oregonensis</i> (Richardson)
Umpqua squawfish	F	<i>Ptychocheilus umpquæ</i> Snyder
Blacknose dace	F	<i>Rhinichthys atratulus</i> (Hermann)
Longnose dace	F	<i>Rhinichthys cataractæ</i> (Valenciennes)
Umpqua dace	F	<i>Rhinichthys evermanni</i> Snyder
Leopard dace	F	<i>Rhinichthys falcatus</i> (Eigenmann and Eigenmann)
Speckled dace	F	<i>Rhinichthys osculus</i> (Girard)
Bitterling	F	<i>Rhodeus sericeus</i> (Pallas)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Redside shiner.....	F	<i>Richardsonius balteatus</i> (Richardson)
Lahontan reidside.....	F	<i>Richardsonius egregius</i> (Girard)
Rudd.....	F	<i>Scardinius erythrophthalmus</i> (Linnaeus)
Creek chub.....	F	<i>Semotilus atromaculatus</i> (Mitchill)
Fallfish.....	F	<i>Semotilus corporalis</i> (Mitchill)
Pearl dace.....	F	<i>Semotilus margarita</i> (Cope)
Tui chub.....	F	<i>Siphateles bicolor</i> (Girard)
Mohave chub.....	F	<i>Siphateles mohavensis</i> Snyder
Leatherside chub.....	F	<i>Snyderichthys copei</i> (Jordan and Gilbert)
Loach minnow.....	F	<i>Tiaroga cobitis</i> Girard
Tench.....	F	<i>Tinca tinca</i> (Linnaeus)

Catostomidae—suckers

River carpsucker.....	F	<i>Carpiodes carpio</i> (Rafinesque)
Quillback.....	F	<i>Carpiodes cyprinus</i> (LeSueur)
Plains carpsucker.....	F	<i>Carpiodes forbesi</i> Hubbs
Highfin carpsucker.....	F	<i>Carpiodes velifer</i> (Rafinesque)
Utah sucker.....	F	<i>Catostomus ardens</i> Jordan and Gilbert
Longnose sucker.....	F	<i>Catostomus catostomus</i> (Forster)
Bridgelip sucker.....	F	<i>Catostomus columbianus</i> (Eigenmann and Eigenmann)
White sucker.....	F	<i>Catostomus commersoni</i> (Lacépède)
Webug sucker.....	F	<i>Catostomus fecundus</i> Cope and Yarrow
Sonora sucker.....	F	<i>Catostomus insignis</i> Baird and Girard
Flannelmouth sucker.....	F	<i>Catostomus latipinnis</i> Baird and Girard
Lost River sucker.....	F	<i>Catostomus lucatus</i> (Cope)
Largescale sucker.....	F	<i>Catostomus macrocheilus</i> Girard
Modoc sucker.....	F	<i>Catostomus microps</i> Rutter
Sacramento sucker.....	F	<i>Catostomus occidentalis</i> Ayres
Klamath smallscale sucker.....	F	<i>Catostomus rimitulus</i> Gilbert and Snyder
Klamath largescale sucker.....	F	<i>Catostomus snyderi</i> Gilbert
Tahoe sucker.....	F	<i>Catostomus tahoensis</i> Gill and Jordan
Warner sucker.....	F	<i>Catostomus warnerensis</i> Snyder
Shortnose sucker.....	F	<i>Chasmistes brevisrostris</i> Cope
Cui-ui! ¹	F	<i>Chasmistes cujus</i> Cope
June sucker.....	F	<i>Chasmistes liorus</i> Jordan
Blue sucker.....	F	<i>Cycleptus elongatus</i> (LeSueur)
Creek chubsucker.....	F	<i>Erimyzon oblongus</i> (Mitchill)
Lake chubsucker.....	F	<i>Erimyzon sucetta</i> (Lacépède)
Sharpfin chubsucker.....	F	<i>Erimyzon tenuis</i> (Agassiz)
Alabama hog sucker.....	F	<i>Hypentelium etowanum</i> (Jordan)
Northern hog sucker.....	F	<i>Hypentelium nigricans</i> (LeSueur)
Roanoke hog sucker.....	F	<i>Hypentelium roanokense</i> Raney and Lachner
Smallmouth buffalo.....	F	<i>Ictiobus bubalus</i> (Rafinesque)
Bigmouth buffalo.....	F	<i>Ictiobus cyprinellus</i> (Valenciennes)
Black buffalo.....	F	<i>Ictiobus niger</i> (Rafinesque)
Harelip sucker.....	F	<i>Lagochila lacera</i> Jordan and Brayton
Spotted sucker.....	F	<i>Minytrema melanops</i> (Rafinesque)
Silver redbhorse.....	F	<i>Moxostoma anisurum</i> (Rafinesque)
Bigeye jumprock.....	F	<i>Moxostoma ariommum</i> Robins and Raney
Blackfin sucker.....	F	<i>Moxostoma atripinne</i> Bailey

¹ Pronounced kwef-wee.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Shorthead redhorse.....	F	<i>Moxostoma breviceps</i> (Cope)
River redhorse.....	F	<i>Moxostoma carinatum</i> (Cope)
Black jumprock.....	F	<i>Moxostoma cervinum</i> (Cope)
V-lip redhorse.....	F	<i>Moxostoma collapsum</i> (Cope)
Gray redhorse.....	F	<i>Moxostoma congestum</i> (Baird and Girard)
Carolina redhorse.....	F	<i>Moxostoma coregonus</i> (Cope)
Black redhorse.....	F	<i>Moxostoma duquesnei</i> (LeSueur)
Golden redhorse.....	F	<i>Moxostoma erythrurum</i> (Rafinesque)
Rustyside sucker.....	F	<i>Moxostoma hamiltoni</i> (Raney and Lachner)
Copper redhorse.....	F	<i>Moxostoma hubbsi</i> Legendre
Greater jumprock.....	F	<i>Moxostoma lachneri</i> Robins and Raney
Neuse redhorse.....	F	<i>Moxostoma lachrymale</i> (Cope)
Northern redhorse.....	F	<i>Moxostoma macrolepidotum</i> (LeSueur)
Suckermouth redhorse.....	F	<i>Moxostoma pappillosum</i> (Cope)
Blacktail redhorse.....	F	<i>Moxostoma poecilurum</i> (Jordan)
Torrent sucker.....	F	<i>Moxostoma rthoecum</i> (Thoburn)
Smallfin redhorse.....	F	<i>Moxostoma robustum</i> (Cope)
Striped jumprock.....	F	<i>Moxostoma rupiscartes</i> Jordan and Jenkins
Greater redhorse.....	F	<i>Moxostoma valenciennesi</i> Jordan
Gila sucker.....	F	<i>Pantosteus clarki</i> (Baird and Girard)
Bluehead sucker.....	F	<i>Pantosteus delphinus</i> (Cope)
White River sucker.....	F	<i>Pantosteus intermedius</i> (Tanner)
Mountain sucker.....	F	<i>Pantosteus platyrhynchus</i> (Cope)
Rio Grande sucker.....	F	<i>Pantosteus plebetus</i> (Baird and Girard)
Lahontan sucker.....	F	<i>Pantosteus lahontan</i> Rutter
Santa Ana sucker.....	F	<i>Pantosteus santaanae</i> Snyder
Green sucker.....	F	<i>Pantosteus virescens</i> Cope
Humpback sucker.....	F	<i>Xyrauchen texanus</i> (Abbott)
Cobitidae—loaches		
Oriental weatherfish.....	F	<i>Misgurnus anguillicaudatus</i> (Cantor)
Ariidae—sea catfishes		
Gafftopsail catfish.....	A	<i>Bagre marinus</i> (Mitchill)
Sea catfish.....	A	<i>Galeichthys felis</i> (Linnaeus)
Ictaluridae—freshwater catfishes		
White catfish.....	F	<i>Ictalurus catus</i> (Linnaeus)
Blue catfish.....	F	<i>Ictalurus furcatus</i> (LeSueur)
Headwater catfish.....	F	<i>Ictalurus lupus</i> (Girard)
Black bullhead.....	F	<i>Ictalurus melas</i> (Rafinesque)
Yellow bullhead.....	F	<i>Ictalurus natalis</i> (LeSueur)
Brown bullhead.....	F	<i>Ictalurus nebulosus</i> (LeSueur)
Flat bullhead.....	F	<i>Ictalurus platycephalus</i> (Girard)
Yaqui catfish.....	F	<i>Ictalurus pricei</i> (Rutter)
Channel catfish.....	F	<i>Ictalurus punctatus</i> (Rafinesque)
Mountain madtom.....	F	<i>Noturus cletherus</i> Jordan
Slender madtom.....	F	<i>Noturus exilis</i> Nelson
Stonecat.....	F	<i>Noturus flavus</i> Rafinesque
Black madtom.....	F	<i>Noturus funebris</i> Gilbert and Swain
Carolina madtom.....	F	<i>Noturus furiosus</i> Jordan and Meek
Orangefin madtom.....	F	<i>Noturus gilberti</i> Jordan and Evermann
Tadpole madtom.....	F	<i>Noturus gyrinus</i> (Mitchill)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Least madtom	F	<i>Noturus hildebrandi</i> (Bailey and Taylor)
Margined madtom	F	<i>Noturus insignis</i> (Richardson)
Speckled madtom	F	<i>Noturus leptacanthus</i> Jordan
Brindled madtom	F	<i>Noturus miurus</i> Jordan
Freckled madtom	F	<i>Noturus nocturnus</i> Jordan and Gilbert
Flathead catfish	F	<i>Pylodictis olivaris</i> (Rafinesque)
Widemouth blindcat	F	<i>Satan eurystomus</i> Hubbs and Bailey
Toothless blindcat	F	<i>Trogloglanis pattersoni</i> Eigenmann

ORDER ANGUILLIFORMES (APODES)

Anguillidae—freshwater eels

American eel	A-F	<i>Anguilla rostrata</i> (LeSueur)
------------------------	-----	------------------------------------

Muraenidae—morays

Pygmy moray	A	<i>Anarchias yoshiae</i> Kanazawa
Chain moray	A	<i>Echidna catenata</i> (Bloch)
Viper moray	A	<i>Enchelycore nigricans</i> (Bonnaterre)
Green moray	A	<i>Gymnothorax funebris</i> Ranzani
California moray	P	<i>Gymnothorax mordax</i> (Ayres)
Spotted moray	A	<i>Gymnothorax moringa</i> (Cuvier)
Blackedge moray	A	<i>Gymnothorax nigromarginatus</i> (Girard)
Purplemouth moray	A	<i>Gymnothorax vicinus</i> (Castelnau)
Goldentail moray	A	<i>Muraena miliaris</i> (Kaup)
Reticulate moray	A	<i>Muraena retifera</i> Goode and Bean

Nemichthyidae—snipe eels

Fishes of this family inhabit the deep seas and thus are not members of the fauna covered in this list.

Congridae—conger eels

Bandtooth conger	A	<i>Ariosoma impressa</i> (Poey)
Margintail conger	A	<i>Conger caudilimbatus</i> (Poey)
Conger eel	A	<i>Conger oceanicus</i> (Mitchill)
Manytooth conger	A	<i>Conger triporiceps</i> Kanazawa
Yellow conger	A	<i>Congrina flava</i> (Goode and Bean)
Whiptail conger	A	<i>Congrina gracilior</i> Ginsburg
Silver conger	A	<i>Hoplunnis macrurus</i> Ginsburg
Slender pike eel	A	<i>Neoconger mucronatus</i> Girard
Catalina conger	P	<i>Rhynchocymba catalinensis</i> Wade

Ophichthidae—snake eels

Key worm eel	A	<i>Ahlia egmontis</i> (Jordan)
Whip eel	A	<i>Bascanichthys scuticaris</i> (Goode and Bean)
Sooty eel	A	<i>Bascanichthys teres</i> (Goode and Bean)
Surf eel	A	<i>Caecula conklini</i> (Eigenmann)
Blotched snake eel	A	<i>Callechelys muraena</i> Jordan and Evermann
Shorttail snake eel	A	<i>Callechelys perryae</i> Storey
Ridgefin eel	A	<i>Cryptopterygium holochroma</i> Ginsburg
Horsehair eel	A	<i>Gordiichthys irretitus</i> Jordan and Davis
Thread eel	A	<i>Gordiichthys springeri</i> Ginsburg
California worm eel	P	<i>Hesperomyrus fryi</i> Myers and Storey
Sailfin eel	A	<i>Letharchus velifer</i> Goode and Bean
Sharptail eel	A	<i>Myrichthys acuminatus</i> (Gronow)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Goldspotted eel.....	A	<i>Myrichthys oculatus</i> (Kaup)
Tiger snake eel.....	P	<i>Myrichthys tigrinus</i> Girard
Speckled worm eel.....	A	<i>Myrophis punctatus</i> Lütken
Spotted spoon-nose eel.....	A	<i>Mystriophis intertinctus</i> (Richardson)
Snapper eel.....	A	<i>Mystriophis mordax</i> (Poey)
Stippled spoon-nose eel.....	A	<i>Mystriophis punctifer</i> (Kaup)
Shrimp eel.....	A	<i>Ophichthus gomesi</i> (Castelnau)
Palespotted eel.....	A	<i>Ophichthus ocellatus</i> (LeSueur)
Spotted snake eel.....	A	<i>Ophichthus ophis</i> (Linnaeus)
Pacific snake eel.....	P	<i>Ophichthus triserialis</i> (Kaup)
Yellow snake eel.....	P	<i>Ophichthus zophochir</i> (Jordan and Gilbert)
Finless eel.....	A	<i>Verma kendalli</i> (Gilbert)
Dysommidae—mustard eels		
Mustard eel.....	A	<i>Dysomma aphododera</i> Ginsburg
ORDER NOTACANTHIFORMES (HETEROMI)		
Notacanthidae—spiny eels		
Spiny eel.....	A	<i>Notacanthus nasus</i> Bloch
ORDER BELONIFORMES (SYNENTOGNATHI)		
Scomberesocidae—sauries		
Pacific saury.....	P	<i>Cololabis saira</i> (Brevoort)
Atlantic saury.....	A	<i>Scomberesox saurus</i> (Walbaum)
Belonidae—needlefishes		
Flat needlefish.....	A	<i>Ablennes hians</i> (Valenciennes)
Agujon.....	A	<i>Strongylura acus</i> (Lacépède)
California needlefish.....	P	<i>Strongylura exilis</i> (Girard)
Atlantic needlefish.....	A	<i>Strongylura marina</i> (Walbaum)
Redfin needlefish.....	A	<i>Strongylura notata</i> (Poey)
Houndfish.....	A	<i>Strongylura raphidoma</i> (Ranzani)
Timucu.....	A	<i>Strongylura timucu</i> (Walbaum)
Hemiramphidae—halfbeaks		
Hardhead halfbeak.....	A	<i>Chriodorus atherinoides</i> Goode and Bean
Flying halfbeak.....	A	<i>Euleptorhamphus velox</i> Poey
Ribbon halfbeak.....	P	<i>Euleptorhamphus viridis</i> (van Hasselt)
Balao.....	A	<i>Hemiramphus balao</i> LeSueur
Ballyhoo.....	A	<i>Hemiramphus brasiliensis</i> (Linnaeus)
Longfin halfbeak.....	P	<i>Hemiramphus saltator</i> Gilbert and Starks
California halfbeak.....	P	<i>Hyporhamphus rosae</i> (Jordan and Gilbert)
Halfbeak.....	A-P	<i>Hyporhamphus unifasciatus</i> (Ranzani)
Exocoetidae—flyingfishes		
California flyingfish.....	P	<i>Cypselurus californicus</i> (Cooper)
Clearwing flyingfish.....	A	<i>Cypselurus comatus</i> (Mitchill)
Margined flyingfish.....	A	<i>Cypselurus cyanopterus</i> (Valenciennes)
Bandwing flyingfish.....	A	<i>Cypselurus exsiliens</i> (Linnaeus)
Spotfin flyingfish.....	A	<i>Cypselurus furcatus</i> (Mitchill)
Atlantic flyingfish.....	A	<i>Cypselurus heterurus</i> (Rafinesque)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Oceanic two-wing flyingfish.....	A	<i>Exocoetus obtusirostris</i> Günther
Tropical two-wing flyingfish.....	A	<i>Exocoetus volitans</i> Linnaeus
Sharpchin flyingfish.....	P	<i>Fodiator acutus</i> (Valenciennes)
Fourwing flyingfish.....	A	<i>Hirundichthys affinis</i> (Günther)
Smallwing flyingfish.....	A	<i>Oxyporhamphus micropterus</i> (Valenciennes)
Sailfin flyingfish.....	A	<i>Parexocoetus brachypterus</i> (Richardson)
Bluntnose flyingfish.....	A	<i>Prognichthys gibbifrons</i> (Valenciennes)
Blackwing flyingfish.....	P	<i>Prognichthys rondeleti</i> (Valenciennes)

ORDER CYPRINODONTIFORMES (MICROCYPRINI)

Cyprinodontidae—killifishes

Diamond killifish.....	A	<i>Adinia xenica</i> (Jordan and Gilbert)
White River killifish.....	F	<i>Crenichthys baileyi</i> (Gilbert)
Railroad Valley killifish.....	F	<i>Crenichthys nevadae</i> Hubbs
Leon Springs pupfish.....	F	<i>Cyprinodon bovinus</i> Baird and Girard
Devils Hole pupfish.....	F	<i>Cyprinodon diabolis</i> Wales
Comanche Springs pupfish.....	F	<i>Cyprinodon elegans</i> Baird and Girard
Lake Eustis minnow.....	F	<i>Cyprinodon hubbsi</i> Carr
Desert pupfish.....	F	<i>Cyprinodon macularius</i> Baird and Girard
Nevada pupfish.....	F	<i>Cyprinodon nevadensis</i> Eigenmann and Eigenmann
Owens River pupfish.....	F	<i>Cyprinodon radiosus</i> Miller
Red River pupfish.....	F	<i>Cyprinodon rubrofluvialtis</i> Fowler
Salt Creek pupfish.....	F	<i>Cyprinodon salinus</i> Miller
Sheepshead minnow.....	A-F	<i>Cyprinodon variegatus</i> Lacépède
Pahrump killifish.....	F	<i>Empetrichthys latos</i> Miller
Ash Meadows killifish.....	F	<i>Empetrichthys merriami</i> Gilbert
Goldspotted killifish.....	A	<i>Floridichthys carpio</i> (Günther)
Whiteline topminnow.....	F	<i>Fundulus albolineatus</i> Gilbert
Northern studfish.....	F	<i>Fundulus catenatus</i> (Storer)
Golden topminnow.....	F	<i>Fundulus chrysotus</i> (Günther)
Banded topminnow.....	F	<i>Fundulus cingulatus</i> Valenciennes
Marsh killifish.....	A-F	<i>Fundulus confluentus</i> Goode and Bean
Banded killifish.....	F	<i>Fundulus diaphanus</i> (LeSueur)
Gulf killifish.....	A	<i>Fundulus grandis</i> Baird and Girard
Mummichog.....	A-F	<i>Fundulus heteroclitus</i> (Linnaeus)
Saltmarsh topminnow.....	A-F	<i>Fundulus jenkinsi</i> (Evermann)
Plains killifish.....	F	<i>Fundulus kansae</i> Garman
Spotfin killifish.....	A	<i>Fundulus luciae</i> (Baird)
Striped killifish.....	A	<i>Fundulus majalis</i> (Walbaum)
Blackstripe topminnow.....	F	<i>Fundulus notatus</i> (Rafinesque)
Starhead topminnow.....	F	<i>Fundulus notti</i> (Agassiz)
Blackspotted topminnow.....	F	<i>Fundulus olivaceus</i> (Storer)
California killifish.....	P-F	<i>Fundulus parvipinnis</i> Girard
Bayou killifish.....	A-F	<i>Fundulus pulvereus</i> (Evermann)
Speckled killifish.....	F	<i>Fundulus rathbuni</i> Jordan and Meek
Plains topminnow.....	F	<i>Fundulus sciadicus</i> Cope
Seminole killifish.....	F	<i>Fundulus seminolis</i> Girard
Longnose killifish.....	A	<i>Fundulus similis</i> (Baird and Girard)
Southern studfish.....	F	<i>Fundulus stellifer</i> (Jordan)
Waccamaw killifish.....	F	<i>Fundulus waccamensis</i> Hubbs and Raney
Rio Grande killifish.....	F	<i>Fundulus zebrinus</i> Jordan and Gilbert
Flagfish.....	F	<i>Jordanella floridae</i> Goode and Bean

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Pygmy killifish.....	F	<i>Leptolucania ommata</i> (Jordan)
Bluefin killifish.....	F	<i>Lucania goodei</i> Jordan
Rainwater killifish.....	A-F	<i>Lucania parva</i> (Baird and Girard)
Rivulus.....	F	<i>Rivulus marmoratus</i> Poey

Poeciliidae—livebearers

Mosquitofish.....	A-F	<i>Gambusia affinis</i> (Baird and Girard)
Big Bend gambusia.....	F	<i>Gambusia gagei</i> Hubbs
Largespring gambusia.....	F	<i>Gambusia geiseri</i> Hubbs and Hubbs
Clear Creek gambusia.....	F	<i>Gambusia heterochir</i> Hubbs
Pecos gambusia.....	F	<i>Gambusia nobilis</i> (Baird and Girard)
Blotched gambusia.....	F	<i>Gambusia senilis</i> Girard
Least killifish.....	F	<i>Heterandria formosa</i> Agassiz
Amazon molly.....	F	<i>Mollienesia formosa</i> (Girard)
Sailfin molly.....	A-F	<i>Mollienesia latipinna</i> LeSueur
Gila topminnow.....	F	<i>Poeciliopsis occidentalis</i> (Baird and Girard)

Amblyopsidae—cavefishes

Ozark cavefish.....	F	<i>Amblyopsis rosae</i> (Eigenmann)
Northern cavefish.....	F	<i>Amblyopsis spelaea</i> DeKay
Spring cavefish.....	F	<i>Chologaster agassizi</i> Putnam
Swampfish.....	F	<i>Chologaster cornuta</i> Agassiz
Southern cavefish.....	F	<i>Typhlichthys subterraneus</i> Girard

ORDER GADIFORMES (ANACANTHINI)

Gadidae—codfishes and hakes

Polar cod.....	A	<i>Arctogadus glacialis</i> (Peters)
Arctic cod.....	A-P	<i>Boreogadus saida</i> (Lepechin)
Cusk.....	A	<i>Brosme brosme</i> (Müller)
Saffron cod.....	P	<i>Eleginus gracilis</i> (Tilesius)
Fourbeard rockling.....	A	<i>Enchelyopus cimbrius</i> (Linnaeus)
Pacific cod.....	P	<i>Gadus macrocephalus</i> Tilesius
Atlantic cod.....	A	<i>Gadus morhua</i> Linnaeus
Greenland cod.....	A	<i>Gadus ogac</i> Richardson
Burbot.....	F	<i>Lota lota</i> (Linnaeus)
Haddock.....	A	<i>Melanogrammus aeglefinus</i> (Linnaeus)
Silver hake.....	A	<i>Merluccius bilinearis</i> (Mitchill)
Pacific hake.....	P	<i>Merluccius productus</i> (Ayres)
Pacific tomcod.....	P	<i>Microgadus proximus</i> (Girard)
Atlantic tomcod.....	A	<i>Microgadus tomcod</i> (Walbaum)
Longfin hake.....	A	<i>Phycis chesteri</i> Goode and Bean
Pollock.....	A	<i>Pollachius virens</i> (Linnaeus)
Walleye pollock.....	P	<i>Theragra chalcogrammus</i> (Pallas)
Squirrel hake.....	A	<i>Urophycis chuss</i> (Walbaum)
Gulf hake.....	A	<i>Urophycis cirratus</i> (Goode and Bean)
Carolina hake.....	A	<i>Urophycis earlly</i> Bean
Southern hake.....	A	<i>Urophycis floridanus</i> (Bean and Dresel)
Spotted hake.....	A	<i>Urophycis regius</i> (Walbaum)
White hake.....	A	<i>Urophycis tenuis</i> (Mitchill)

Macrouridae—grenadiers¹

Marlin-spike.....	A	<i>Nezumia bairdi</i> (Goode and Bean)
-------------------	---	--

¹ Most grenadiers, or rat-tails, live in deep water, but one species is found in Atlantic shore waters.

COMMON NAME OCCURRENCE SCIENTIFIC NAME

ORDER GASTEROSTEIFORMES (THORACOSTEI + HEMIBRANCHII + LOPHOBRANCHII + SOLENICHTHYES)

Gasterosteidae—sticklebacks

Fourspine stickleback.....	A-F	<i>Apeltes quadracus</i> (Mitchill)
Brook stickleback.....	F	<i>Eucalia inconstans</i> (Kirtland)
Threespine stickleback.....	A-F-P	<i>Gasterosteus aculeatus</i> Linnaeus
Twospine stickleback.....	A	<i>Gasterosteus wheatlandi</i> Putnam
Ninespine stickleback.....	A-F	<i>Pungitius pungitius</i> (Linnaeus)

Aulorhynchidae—tube-snouts

Tube-snout.....	P	<i>Aulorhynchus flavidus</i> Gill
-----------------	---------	-----------------------------------

Aulostomidae—trumpetfishes

Trumpetfish.....	A	<i>Aulostomus maculatus</i> Valenciennes
------------------	---------	--

Fistulariidae—cornetfishes

Cornetfish.....	A	<i>Fistularia tabacaria</i> Linnaeus
-----------------	---------	--------------------------------------

Centriscidae—snipefishes

Slender snipefish.....	A-P	<i>Macrorhamphosus gracilis</i> (Lowe)
Longspine snipefish.....	A	<i>Macrorhamphosus scolopax</i> (Linnaeus)

Syngnathidae—pipefishes and seahorses

Whitenose pipefish.....	A	<i>Corythoichthys albirostris</i> Heckel
Crested pipefish.....	A	<i>Corythoichthys brachycephalus</i> (Poey)
Swivelhead pipefish.....	P	<i>Dermatostethus punctipinnis</i> Gill
Spotted seahorse.....	A	<i>Hippocampus erectus</i> Perry
Pacific seahorse.....	P	<i>Hippocampus ingens</i> Girard
Offshore seahorse.....	A	<i>Hippocampus obtusus</i> Ginsburg
Dwarf seahorse.....	A	<i>Hippocampus zosterae</i> Jordan and Gilbert
Fringed pipefish.....	A	<i>Micrognathus crinigerus</i> (Bean and Dresel)
Insular pipefish.....	A	<i>Micrognathus crinitus</i> (Jenyns)
Banded pipefish.....	A	<i>Micrognathus vittatus</i> (Kaup)
Opossum pipefish.....	A	<i>Oostethus lineatus</i> (Kaup)
Snubnose pipefish.....	P	<i>Syngnathus arctus</i> (Jenkins and Evermann)
Barred pipefish.....	P	<i>Syngnathus auliscus</i> (Swain)
Kelp pipefish.....	P	<i>Syngnathus californiensis</i> Storer
Pugnose pipefish.....	A	<i>Syngnathus dunckeri</i> Metzelaar
Shortfin pipefish.....	A	<i>Syngnathus elucens</i> Poey
Dusky pipefish.....	A	<i>Syngnathus floridae</i> (Jordan and Gilbert)
Northern pipefish.....	A	<i>Syngnathus fuscus</i> Storer
Bay pipefish.....	P	<i>Syngnathus griseolineatus</i> Ayres
Chain pipefish.....	A	<i>Syngnathus louisianae</i> Günther
Sargassum pipefish.....	A	<i>Syngnathus pelagicus</i> Linnaeus
Gulf pipefish.....	A	<i>Syngnathus scovelli</i> (Evermann and Kendall)
Bull pipefish.....	A	<i>Syngnathus springeri</i> Herald

ORDER LAMPRIDIFORMES (ALLOTRIOGNATHI)

Lamprididae—opahs

Opah.....	A-P	<i>Lampris regius</i> (Bonnaterre)
-----------	-----------	------------------------------------

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Stylephoridae—tube-eyes		
Tube-eye.....	A	<i>Stylephorus chordatus</i> Shaw
Lophotidae—crestfishes		
Crestfish.....	A-P	<i>Lophotus capellei</i> (Schlegel)
Regalecidae—oarfishes		
Oarfish.....	A-P	<i>Regalecus glesne</i> (Ascanius)
Trachipteridae—ribbonfishes		
Dealfish.....	A	<i>Trachipterus arcticus</i> (Brünnich)
Scalloped ribbonfish.....	A-P	<i>Trachipterus cristatus</i> Bonelli
Polka-dot ribbonfish.....	A-P	<i>Trachipterus polystictus</i> Ogilby
King-of-the-salmon.....	P	<i>Trachipterus trachypterus</i> (Gmelin)
ORDER BERYCIFORMES (BERYCOIDEI)		
Polymyiidae—beardfishes		
Beardfish.....	A	<i>Polymixia lowei</i> Günther
Holocentridae—squirrelfishes and soldierfishes		
Squirrelfish.....	A	<i>Holocentrus ascensionis</i> (Osbeck)
Deepwater squirrelfish.....	A	<i>Holocentrus bullisi</i> Woods
Reef squirrelfish.....	A	<i>Holocentrus coruscus</i> (Poey)
Longjaw squirrelfish.....	A	<i>Holocentrus marianus</i> (Cuvier)
Longspine squirrelfish.....	A	<i>Holocentrus rufus</i> (Walbaum)
Dusky squirrelfish.....	A	<i>Holocentrus vexillarius</i> (Poey)
Blackbar soldierfish.....	A	<i>Myripristis jacobus</i> Cuvier
Bigeye soldierfish.....	A	<i>Ostichthys trachypomus</i> (Günther)
Cardinal soldierfish.....	A	<i>Plectrypops retrospinis</i> (Guichenot)
ORDER PERCOPSIFORMES (SALMOPERCAE)		
Percopsidae—trout-perches		
Trout-perch.....	F	<i>Percopsis omiscomaycus</i> (Walbaum)
Sand roller.....	F	<i>Percopsis transmontana</i> (Eigenmann and Eigenmann)
Aphredoderidae—pirate perches		
Pirate perch.....	F	<i>Aphredoderus sayanus</i> (Gilliams)
ORDER ZEIFORMES (ZEOMORPHI)		
Zeidae—dories		
American John Dory.....	A	<i>Zenopsis ocellata</i> (Storer)
Caproidae—boarfishes		
Deepbody boarfish.....	A	<i>Antigonia capros</i> Lowe
Shortspine boarfish.....	A	<i>Antigonia combatia</i> Berry and Rathjen
ORDER PERCIFORMES (PERCOMORPHI; ACANTHOPTERYGII)		
Centropomidae—snooks		
Swordspine snook.....	A	<i>Centropomus ensiferus</i> Poey
Little snook.....	A	<i>Centropomus parallelus</i> Poey

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Tarpon snook	A	<i>Centropomus pectinatus</i> Poey
Snook	A	<i>Centropomus undecimalis</i> (Bloch)
Serranidae ¹ —sea basses		
Mutton hamlet	A	<i>Alphestes afer</i> (Bloch)
Crimson bass	A	<i>Anthias asperilinguis</i> Günther
Southern sea bass	A	<i>Centropristes melanus</i> Ginsburg
Bank sea bass	A	<i>Centropristes ocyurus</i> (Jordan and Evermann)
Rock sea bass	A	<i>Centropristes philadelphicus</i> (Linnaeus)
Black sea bass	A	<i>Centropristes striatus</i> (Linnaeus)
Coney	A	<i>Cephalopholis fulva</i> (Linnaeus)
Marbled grouper	A	<i>Dermatolepis inermis</i> (Valenciennes)
Dwarf sand perch	A	<i>Diplectrum bivittatum</i> (Valenciennes)
Sand perch	A	<i>Diplectrum formosum</i> (Linnaeus)
Rock hind	A	<i>Epinephelus adscensionis</i> (Osbeck)
Spotted cabrilla	P	<i>Epinephelus analogus</i> Gill
Speckled hind	A	<i>Epinephelus drummondhayi</i> Goode and Bean
Yellowedge grouper	A	<i>Epinephelus flavolimbatus</i> Poey
Red hind	A	<i>Epinephelus guttatus</i> (Linnaeus)
Jewfish	A	<i>Epinephelus itajara</i> (Lichtenstein)
Red grouper	A	<i>Epinephelus morio</i> (Valenciennes)
Warsaw grouper	A	<i>Epinephelus nigritus</i> (Holbrook)
Snowy grouper	A	<i>Epinephelus niveatus</i> (Valenciennes)
Nassau grouper	A	<i>Epinephelus striatus</i> (Bloch)
Spanish flag	A	<i>Gonioplectrus hispanus</i> (Cuvier)
Longtail bass	A	<i>Hemanthias leptus</i> (Ginsburg)
Splittail bass	P	<i>Hemanthias peruanus</i> (Steindachner)
Red barbier	A	<i>Hemanthias vivanus</i> (Jordan and Swain)
Butter hamlet	A	<i>Hypoplectrus unicolor</i> (Walbaum)
Black grouper	A	<i>Mycteroperca bonaci</i> (Poey)
Gulf grouper	P	<i>Mycteroperca jordani</i> (Jenkins and Evermann)
Gag	A	<i>Mycteroperca microlepis</i> (Goode and Bean)
Scamp	A	<i>Mycteroperca phenax</i> Jordan and Swain
Tiger grouper	A	<i>Mycteroperca tigris</i> (Valenciennes)
Yellowfin grouper	A	<i>Mycteroperca venenosa</i> (Linnaeus)
Broomtail grouper	P	<i>Mycteroperca xenarcha</i> Jordan
Roughtongue bass	A	<i>Ocyanthias martinicensis</i> (Guichenot)
Blackear bass	A	<i>Paracentropristes pomospilus</i> Ginsburg
Kelp bass	P	<i>Paralabrax clathratus</i> (Girard)
Spotted sand bass	P	<i>Paralabrax maculatofasciatus</i> (Steindachner)
Sand bass	P	<i>Paralabrax nebulifer</i> (Girard)
Creole-fish	A	<i>Paranthias furcifer</i> (Valenciennes)
Graysby	A	<i>Petrometopon cruentatum</i> (Lacépède)
Yellowtail bass	A	<i>Pikea mexicana</i> Schultz
Wreckfish	A	<i>Polyprion americanus</i> (Bloch and Schneider)
Orangeback bass	A	<i>Prionodes annularis</i> (Günther)
Lantern bass	A	<i>Prionodes baldwini</i> Evermann and Marsh
Saddle bass	A	<i>Prionodes notospilus</i> (Longley)
Tattler	A	<i>Prionodes phoebe</i> (Poey)
Streamer bass	A	<i>Pronotogrammus aureorubens</i> Longley
Reef bass	A	<i>Pseudogrammus brederi</i> (Hildebrand)
White perch	A-F	<i>Roccus americanus</i> (Gmelin)

¹ In addition to the species listed, two are sufficiently important in the sport fishery near our area off Florida to warrant mention: misty grouper, *Epinephelus mystacinus* (Poey); yellowmouth grouper *Mycteroperca interstitialis* (Poey).

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
White bass.....	F	<i>Roccus chrysops</i> (Rafinesque)
Yellow bass.....	F	<i>Roccus mississippiensis</i> (Jordan and Eigenmann)
Striped bass.....	A-F-P	<i>Roccus saxatilis</i> (Walbaum)
Freckled soapfish.....	A	<i>Rypticus arenatus</i> Cuvier
Soapfish.....	A	<i>Rypticus saponaceus</i> (Bloch and Schneider)
Spotted soapfish.....	A	<i>Rypticus subbifrenatus</i> (Gill)
Belted sandfish.....	A	<i>Serranellus subligarius</i> (Cope)
Pygmy sea bass.....	A	<i>Serraniculus pumilio</i> Ginsburg
Chalk bass.....	A	<i>Serranus tortugarum</i> Longley
Giant sea bass.....	P	<i>Stereolepis gigas</i> Ayres

Lobotidae—tripletails

Tripletail.....	A	<i>Lobotes surinamensis</i> (Bloch)
-----------------	---	-------------------------------------

Lutjanidae—snappers

Black snapper.....	A	<i>Apsilus dentatus</i> Guichenot
Queen snapper.....	A	<i>Etelis oculatus</i> (Valenciennes)
Mutton snapper.....	A	<i>Lutjanus analis</i> (Cuvier)
Schoolmaster.....	A	<i>Lutjanus apodus</i> (Walbaum)
Red snapper.....	A	<i>Lutjanus blackfordi</i> Goode and Bean
Blackfin snapper.....	A	<i>Lutjanus buccanella</i> (Cuvier)
Caribbean red snapper.....	A	<i>Lutjanus campechanus</i> (Poey)
Cubera snapper.....	A	<i>Lutjanus cyanopterus</i> (Cuvier)
Gray snapper.....	A	<i>Lutjanus griseus</i> (Linnaeus)
Dog snapper.....	A	<i>Lutjanus jocu</i> (Bloch and Schneider)
Mahogany snapper.....	A	<i>Lutjanus mahogoni</i> (Cuvier)
Lane snapper.....	A	<i>Lutjanus synagris</i> (Linnaeus)
Silk snapper.....	A	<i>Lutjanus vivanus</i> (Cuvier)
Yellowtail snapper.....	A	<i>Ocyurus chrysurus</i> (Bloch)
Wenchman.....	A	<i>Pristipomoides andersoni</i> Ginsburg
Vermilion snapper.....	A	<i>Rhomboplites aurorubens</i> (Cuvier)

Priacanthidae—bigeyes

Bigeye.....	A	<i>Priacanthus arenatus</i> Cuvier
Glasseye snapper.....	A	<i>Priacanthus cruentatus</i> (Lacépède)
Short bigeye.....	A	<i>Pristigenys alta</i> (Gill)
Popeye catalufa.....	P	<i>Pristigenys serrula</i> (Gilbert)

Apogonidae—cardinalfishes

Bronze cardinalfish.....	A	<i>Apogon alutus</i> Jordan and Gilbert
Bridle cardinalfish.....	A	<i>Apogon aurolineatus</i> (Mowbray)
Barred cardinalfish.....	A	<i>Apogon binotatus</i> (Poey)
Freckled cardinalfish.....	A	<i>Apogon conklini</i> (Silvester)
Whitestar cardinalfish.....	A	<i>Apogon lachneri</i> Böhlke
Flamefish.....	A	<i>Apogon maculatus</i> (Poey)
Dusky cardinalfish.....	A	<i>Apogon pigmentarius</i> (Poey)
Pale cardinalfish.....	A	<i>Apogon planifrons</i> Longley and Hildebrand
Twospot cardinalfish.....	A	<i>Apogon pseudomaculatus</i> Longley
Sawcheek cardinalfish.....	A	<i>Apogon quadrisquamatus</i> Longley
Conchfish.....	A	<i>Apogon stellatus</i> (Cope)
Belted cardinalfish.....	A	<i>Apogon townsendi</i> (Breder)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Centrarchidae—sunfishes		
Mud sunfish.....	F	<i>Acantharchus pomotis</i> (Baird)
Roanoke bass.....	F	<i>Ambloplites cavifrons</i> Cope
Rock bass.....	F	<i>Ambloplites rupestris</i> (Rafinesque)
Sacramento perch.....	F	<i>Archoplites interruptus</i> (Girard)
Flier.....	F	<i>Centrarchus macropterus</i> (Lacépède)
Warmouth.....	F	<i>Chaenobryttus gulosus</i> (Cuvier)
Everglades pygmy sunfish.....	F	<i>Elassoma evergladei</i> Jordan
Okefenokee pygmy sunfish.....	F	<i>Elassoma okefenokee</i> Böhlke
Banded pygmy sunfish.....	F	<i>Elassoma zonatum</i> Jordan
Blackbanded sunfish.....	F	<i>Enneacanthus chaetodon</i> (Baird)
Bluespotted sunfish.....	F	<i>Enneacanthus gloriosus</i> (Holbrook)
Banded sunfish.....	F	<i>Enneacanthus obesus</i> (Girard)
Redbreast sunfish.....	F	<i>Lepomis auritus</i> (Linnaeus)
Green sunfish.....	F	<i>Lepomis cyanellus</i> Rafinesque
Pumpkinseed.....	F	<i>Lepomis gibbosus</i> (Linnaeus)
Orangespotted sunfish.....	F	<i>Lepomis humilis</i> (Girard)
Bluegill.....	F	<i>Lepomis macrochirus</i> Rafinesque
Dollar sunfish.....	F	<i>Lepomis marginatus</i> (Holbrook)
Longear sunfish.....	F	<i>Lepomis megalotis</i> (Rafinesque)
Redear sunfish.....	F	<i>Lepomis microlophus</i> (Günther)
Spotted sunfish.....	F	<i>Lepomis punctatus</i> (Valenciennes)
Bantam sunfish.....	F	<i>Lepomis symmetricus</i> Forbes
Redeye bass.....	F	<i>Micropterus coosae</i> Hubbs and Bailey
Smallmouth bass.....	F	<i>Micropterus dolomieu</i> Lacépède
Suwannee bass.....	F	<i>Micropterus notius</i> Bailey and Hubbs
Spotted bass.....	F	<i>Micropterus punctulatus</i> (Rafinesque)
Largemouth bass.....	F	<i>Micropterus salmoides</i> (Lacépède)
Guadalupe bass.....	F	<i>Micropterus treculi</i> (Vaillant and Bocourt)
White crappie.....	F	<i>Pomoxis annularis</i> Rafinesque
Black crappie.....	F	<i>Pomoxis nigromaculatus</i> (LeSueur)
Percidae—perches		
Crystal darter.....	F	<i>Ammocrypta asprella</i> (Jordan)
Naked sand darter.....	F	<i>Ammocrypta beani</i> Jordan
Western sand darter.....	F	<i>Ammocrypta clara</i> Jordan and Meek
Eastern sand darter.....	F	<i>Ammocrypta pellucida</i> (Baird)
Scaly sand darter.....	F	<i>Ammocrypta vivax</i> Hay
Sharphead darter.....	F	<i>Etheostoma acuticeps</i> Bailey
Mud darter.....	F	<i>Etheostoma asprigene</i> (Forbes)
Cumberland snubnose darter.....	F	<i>Etheostoma atripinne</i> (Jordan)
Scalyhead darter.....	F	<i>Etheostoma barratti</i> (Holbrook)
Greenside darter.....	F	<i>Etheostoma blennioides</i> Rafinesque
Blenny darter.....	F	<i>Etheostoma blennius</i> Gilbert and Swain
Rainbow darter.....	F	<i>Etheostoma caeruleum</i> Storer
Bluebreast darter.....	F	<i>Etheostoma camurum</i> (Cope)
Bluntnose darter.....	F	<i>Etheostoma chlorosomum</i> (Hay)
Ashy darter.....	F	<i>Etheostoma cinereum</i> Storer
Carolina darter.....	F	<i>Etheostoma collis</i> (Hubbs and Cannon)
Coosa darter.....	F	<i>Etheostoma coosae</i> (Fowler)
Arkansas darter.....	F	<i>Etheostoma cragini</i> Gilbert
Blackside snubnose darter.....	F	<i>Etheostoma duryi</i> Henshall

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Brown darter	F	<i>Etheostoma edwini</i> (Hubbs and Cannon)
Arkansas saddled darter	F	<i>Etheostoma euzonum</i> (Hubbs and Black)
Iowa darter	F	<i>Etheostoma exile</i> (Girard)
Fantail darter	F	<i>Etheostoma flabellare</i> Rafinesque
Fountain darter	F	<i>Etheostoma fonticola</i> (Jordan and Gilbert)
Savannah darter	F	<i>Etheostoma fricksium</i> Hildebrand
Swamp darter	F	<i>Etheostoma fusiforme</i> (Girard)
Slough darter	F	<i>Etheostoma grahmi</i> (Girard)
Rio Grande darter	F	<i>Etheostoma grahmi</i> (Girard)
Tuckasegee darter	F	<i>Etheostoma gutselli</i> (Hildebrand)
Harlequin darter	F	<i>Etheostoma histrio</i> Jordan and Gilbert
Turquoise darter	F	<i>Etheostoma inscriptum</i> (Jordan and Brayton)
Blueside darter	F	<i>Etheostoma jessiae</i> (Jordan and Brayton)
Greenbreast darter	F	<i>Etheostoma jordani</i> Gilbert
Yoke darter	F	<i>Etheostoma juliae</i> Meek
Kanawha darter	F	<i>Etheostoma kanawhae</i> (Raney)
Stripetail darter	F	<i>Etheostoma kennicotti</i> (Putnam)
Greenthroat darter	F	<i>Etheostoma lepidum</i> (Baird and Girard)
Longfin darter	F	<i>Etheostoma longimanum</i> Jordan
Redband darter	F	<i>Etheostoma luteovinctum</i> Gilbert and Swain
Spotted darter	F	<i>Etheostoma maculatum</i> Kirtland
Pinewoods darter	F	<i>Etheostoma mariae</i> (Fowler)
Least darter	F	<i>Etheostoma microperca</i> Jordan and Gilbert
Niangua darter	F	<i>Etheostoma nianguae</i> Gilbert and Meek
Johnny darter	F	<i>Etheostoma nigrum</i> Rafinesque
Barcheek darter	F	<i>Etheostoma obeyense</i> Kirsch
Finescale saddled darter	F	<i>Etheostoma osburni</i> (Hubbs and Trautman)
Goldstripe darter	F	<i>Etheostoma parvipinne</i> Gilbert and Swain
Waccamaw darter	F	<i>Etheostoma perlongum</i> (Hubbs and Raney)
Riverweed darter	F	<i>Etheostoma podostemone</i> Jordan and Jenkins
Cypress darter	F	<i>Etheostoma procliare</i> (Hay)
Stippled darter	F	<i>Etheostoma punctulatum</i> (Agassiz)
Orangebelly darter	F	<i>Etheostoma radiosum</i> (Hubbs and Black)
Redline darter	F	<i>Etheostoma rufilineatum</i> (Cope)
Rock darter	F	<i>Etheostoma rupestre</i> Gilbert and Swain
Arrow darter	F	<i>Etheostoma sagitta</i> (Jordan and Swain)
Saluda darter	F	<i>Etheostoma saludae</i> (Hubbs and Cannon)
Maryland darter	F	<i>Etheostoma sellare</i> (Radcliffe and Welch)
Sawcheek darter	F	<i>Etheostoma serriferum</i> (Hubbs and Cannon)
Tennessee snubnose darter	F	<i>Etheostoma simoterum</i> (Cope)
Orangethroat darter	F	<i>Etheostoma spectabile</i> (Agassiz)
Spottail darter	F	<i>Etheostoma squamiceps</i> Jordan
Speckled darter	F	<i>Etheostoma stigmaeum</i> (Jordan)
Gulf darter	F	<i>Etheostoma swaini</i> (Jordan)
Swannanoa darter	F	<i>Etheostoma swannanoa</i> Jordan and Evermann
Missouri saddled darter	F	<i>Etheostoma tetrazonum</i> (Hubbs and Black)
Seagreen darter	F	<i>Etheostoma thalassinum</i> (Jordan and Brayton)
Tippecanoe darter	F	<i>Etheostoma tippecanoe</i> Jordan and Evermann
Tuscumbia darter	F	<i>Etheostoma tuscumbia</i> Gilbert and Swain
Variagate darter	F	<i>Etheostoma variatum</i> Kirtland
Striped darter	F	<i>Etheostoma virgatum</i> (Jordan)
Glassy darter	F	<i>Etheostoma vitreum</i> (Cope)
Redfin darter	F	<i>Etheostoma whipplei</i> (Girard)
Banded darter	F	<i>Etheostoma zonale</i> (Cope)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Backwater darter	F	<i>Etheostoma zoniferum</i> (Hubbs and Cannon)
Yellow perch	F	<i>Perca flavescens</i> (Mitchill)
Yellow darter	F	<i>Percina aurantiaca</i> (Cope)
Logperch	F	<i>Percina caprodes</i> (Rafinesque)
Channel darter	F	<i>Percina copelandi</i> (Jordan)
Piedmont darter	F	<i>Percina crassa</i> (Jordan and Brayton)
Bluestripe darter	F	<i>Percina cymatotaenia</i> (Gilbert and Meek)
Gilt darter	F	<i>Percina evides</i> (Jordan and Copeland)
Longhead darter	F	<i>Percina macrocephala</i> (Cope)
Blackside darter	F	<i>Percina maculata</i> (Girard)
Longnose darter	F	<i>Percina nasuta</i> (Bailey)
Blackbanded darter	F	<i>Percina nigrofasciata</i> (Agassiz)
Stripeback darter	F	<i>Percina notogramma</i> (Raney and Hubbs)
Sharpnose darter	F	<i>Percina oxyrhyncha</i> (Hubbs and Raney)
Bronze darter	F	<i>Percina palmaris</i> (Bailey)
Leopard darter	F	<i>Percina pantherina</i> (Moore and Reeves)
Shield darter	F	<i>Percina peltata</i> (Stauffer)
Slenderhead darter	F	<i>Percina phoxocephala</i> (Nelson)
Roanoke logperch	F	<i>Percina rex</i> (Jordan and Evermann)
Dusky darter	F	<i>Percina sciera</i> (Swain)
River darter	F	<i>Percina shumardi</i> (Girard)
Olive darter	F	<i>Percina squamata</i> (Gilbert and Swain)
Stargazing darter	F	<i>Percina uranidea</i> (Jordan and Gilbert)
Sauger	F	<i>Stizostedion canadense</i> (Smith)
Walleye	F	<i>Stizostedion vitreum vitreum</i> (Mitchill)
Blue pike	F	<i>Stizostedion vitreum glaucum</i> Hubbs

Branchiostegidae—tilefishes

Blackline tilefish	A	<i>Caulolatilus cyanops</i> Poey
Ocean whitefish	P	<i>Caulolatilus princeps</i> (Jenyns)
Tilefish	A	<i>Lopholatilus chamaeleonticeps</i> Goode and Bean
Sand tilefish	A	<i>Malacanthus plumieri</i> (Bloch)

Pomatomidae—bluefishes

Bluefish	A	<i>Pomatomus saltatrix</i> (Linnaeus)
--------------------	---	---------------------------------------

Rachycentridae—cobias

Cobia	A	<i>Rachycentron canadum</i> (Linnaeus)
-----------------	---	--

Carangidae¹—jacks, scads, and pompanos

African pompano	A	<i>Alectis crinitus</i> (Mitchill)
Yellow jack	A	<i>Caranx bartholomaei</i> Cuvier
Green jack	P	<i>Caranx caballus</i> Günther
Blue runner	A	<i>Caranx crysos</i> (Mitchill)
Crevalle jack	A	<i>Caranx hippos</i> (Linnaeus)
Horse-eye jack	A	<i>Caranx latus</i> Agassiz
Bar jack	A	<i>Caranx ruber</i> (Bloch)
Bumper	A	<i>Chloroscombrus chrysurus</i> (Linnaeus)
Mexican scad	P	<i>Decapterus hypodus</i> Gill
Mackerel scad	A	<i>Decapterus macarellus</i> (Cuvier)
Round scad	A	<i>Decapterus punctatus</i> (Agassiz)

¹ An important sport fish, the black jack, *Caranx lugubris* Poey, occurs just out of our area and is landed at Florida por

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Rainbow runner	A	<i>Elagatis bipinnulatus</i> (Quoy and Gaimard)
Bluntnose jack	A	<i>Hemicaranx amblyrhynchus</i> (Cuvier)
Pilotfish	A-P	<i>Naucrates ductor</i> (Linnaeus)
Roosterfish	P	<i>Nematistius pectoralis</i> Gill
Leatherjacket	A-P	<i>Oligoplites saurus</i> (Bloch and Schneider)
Bigeye scad	A	<i>Selar crumenophthalmus</i> (Bloch)
Lookdown	A	<i>Selene vomer</i> (Linnaeus)
Pacific amberjack	P	<i>Seriola colburni</i> (Evermann and Clark)
Yellowtail	P	<i>Seriola dorsalis</i> (Gill)
Greater amberjack	A	<i>Seriola dumerili</i> (Risso)
Almaco jack	A	<i>Seriola falcata</i> Valenciennes
Lesser amberjack	A	<i>Seriola fasciata</i> (Bloch)
Banded rudderfish	A	<i>Seriola zonata</i> (Mitchill)
Pompano	A	<i>Trachinotus carolinus</i> (Linnaeus)
Permit	A	<i>Trachinotus falcatus</i> (Linnaeus)
Palometa	A	<i>Trachinotus glaucus</i> (Bloch)
Paloma pompano	P	<i>Trachinotus paitensis</i> Cuvier
Gafftopsail pompano	P	<i>Trachinotus rhodopus</i> (Gill)
Rough scad	A	<i>Trachurus lathami</i> Nichols
Jack mackerel	P	<i>Trachurus symmetricus</i> (Ayres)
Cottonmouth jack	A	<i>Uraspis heidi</i> Fowler
Pacific moonfish	P	<i>Vomer declivifrons</i> Meek and Hildebrand
Atlantic moonfish	A	<i>Vomer setapinnis</i> (Mitchill)
Coryphaenidae—dolphins		
Pompano dolphin	A	<i>Coryphaena equisetis</i> Linnaeus
Dolphin	A-P	<i>Coryphaena hippurus</i> Linnaeus
Bramidae—pomfrets		
Pomfret	A-P	<i>Brama rayi</i> (Bloch)
Bigscale pomfret	A-P	<i>Taractes longipinnis</i> (Lowe)
Gerridae—mojarras		
Irish pompano	A	<i>Diapterus olisthostomus</i> (Goode and Bean)
Striped mojarra	A	<i>Diapterus plumieri</i> (Cuvier)
Spotfin mojarra	A-P	<i>Eucinostomus argenteus</i> Baird and Girard
Silver jenny	A	<i>Eucinostomus gula</i> (Quoy and Gaimard)
Bigeye mojarra	A	<i>Eucinostomus havana</i> (Nichols)
Mottled mojarra	A	<i>Eucinostomus lefroyi</i> (Goode)
Flagfin mojarra	A	<i>Eucinostomus melanopterus</i> (Bleeker)
Slender mojarra	A	<i>Eucinostomus pseudogula</i> Poey
Yellowfin mojarra	A	<i>Gerres cinereus</i> (Walbaum)
Pomadasyidae—grunts		
Sargo	P	<i>Anisotremus davidsoni</i> (Steindachner)
Black margate	A	<i>Anisotremus surinamensis</i> (Bloch)
Porkfish	A	<i>Anisotremus virginicus</i> (Linnaeus)
Tomtate	A	<i>Bathystoma aurolineatum</i> (Cuvier)
Smallmouth grunt	A	<i>Brachygenys chrysargyrea</i> (Günther)
Barred grunt	A	<i>Conodon nobilis</i> (Linnaeus)
Margate	A	<i>Haemulon album</i> Cuvier
Black grunt	A	<i>Haemulon bonariense</i> Cuvier
Caesar grunt	A	<i>Haemulon carbonarium</i> Poey

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
French grunt	A	<i>Haemulon flavolineatum</i> (Desmarest)
Spanish grunt	A	<i>Haemulon macrostomum</i> Günther
Cottonwick	A	<i>Haemulon melanurum</i> (Linnaeus)
Sailors choice	A	<i>Haemulon parrai</i> (Desmarest)
White grunt	A	<i>Haemulon plumieri</i> (Lacépède)
Bluestriped grunt	A	<i>Haemulon sciurus</i> (Shaw)
Pigfish	A	<i>Orthopristis chrysopterus</i> (Linnaeus)
Burro grunt	A	<i>Pomadasys croco</i> (Cuvier)
Salema	P	<i>Xenistius californiensis</i> (Steindachner)

Sciaenidae—drums

Freshwater drum	F	<i>Aplodinotus grunniens</i> Rafinesque
Silver perch	A	<i>Bairdiella chrysura</i> (Lacépède)
Bairdiella	P ¹	<i>Bairdiella icistius</i> (Jordan and Gilbert)
Black croaker	P	<i>Cheilotrema saturnum</i> (Girard)
Sand seatrout	A	<i>Cynoscion arenarius</i> Ginsburg
Spotted seatrout	A	<i>Cynoscion nebulosus</i> (Cuvier)
White seabass	P	<i>Cynoscion nobilis</i> (Ayres)
Silver seatrout	A	<i>Cynoscion nothus</i> (Holbrook)
Shortfin corvina	P	<i>Cynoscion parvipinnis</i> Ayres
Weakfish	A	<i>Cynoscion regalis</i> (Bloch and Schneider)
Orangemouth corvina	P ¹	<i>Cynoscion xanthulus</i> Jordan and Gilbert
Cubbyu	A	<i>Equetus acuminatus</i> (Bloch and Schneider)
Jackknife-fish	A	<i>Equetus lanceolatus</i> (Linnaeus)
Striped drum	A	<i>Equetus pulcher</i> (Steindachner)
Spotted drum	A	<i>Equetus punctatus</i> (Bloch and Schneider)
White croaker	P	<i>Genyonemus lineatus</i> (Ayres)
Banded drum	A	<i>Larimus fasciatus</i> Holbrook
Spot	A	<i>Leiostomus xanthurus</i> Lacépède
Southern kingfish	A	<i>Menticirrhus americanus</i> (Linnaeus)
Minkfish	A	<i>Menticirrhus focaliger</i> Ginsburg
Gulf kingfish	A	<i>Menticirrhus littoralis</i> (Holbrook)
Northern kingfish	A	<i>Menticirrhus saxatilis</i> (Bloch and Schneider)
California corbina	P	<i>Menticirrhus undulatus</i> (Girard)
Atlantic croaker	A	<i>Micropogon undulatus</i> (Linnaeus)
Reef croaker	A	<i>Odontoscion dentex</i> (Cuvier)
Catalina croaker	P	<i>Ophioscion thompsoni</i> (Hubbs)
Black drum	A	<i>Pogonias cromis</i> (Linnaeus)
Spotfin croaker	P	<i>Roncador stearnsi</i> (Steindachner)
Red drum	A	<i>Sciaenops ocellata</i> (Linnaeus)
Queenfish	P	<i>Scriphus politus</i> Ayres
Star drum	A	<i>Stellifer lanceolatus</i> (Holbrook)
Sand drum	A	<i>Umbrina coroides</i> Cuvier
Yellowfin croaker	P	<i>Umbrina roncadore</i> Jordan and Gilbert
Blue croaker	A	<i>Vacuqua sialis</i> (Jordan and Eigenmann)

Mullidae—goatfishes

Yellow goatfish	A	<i>Mulloidichthys martinicus</i> (Cuvier)
Red goatfish	A	<i>Mullus auratus</i> Jordan and Gilbert
Mexican goatfish	P	<i>Pseudupeneus dentatus</i> (Gill)

¹ In our area confined to Salton Sea.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Spotted goatfish	A	<i>Pseudupeneus maculatus</i> (Bloch)
Dwarf goatfish	A	<i>Upeneus parvus</i> Poey
Sparidae—porgies		
Sheepshead	A	<i>Archosargus probatocephalus</i> (Walbaum)
Sea bream	A	<i>Archosargus rhomboidalis</i> (Linnaeus)
Grass porgy	A	<i>Calamus arctifrons</i> Goode and Bean
Jolthead porgy	A	<i>Calamus bajonado</i> (Bloch and Schneider)
Pacific porgy	P	<i>Calamus brachysomus</i> (Lockington)
Saucereye porgy	A	<i>Calamus calamus</i> (Valenciennes)
Whitebone porgy	A	<i>Calamus leucosteus</i> Jordan and Gilbert
Sheepshead porgy	A	<i>Calamus penna</i> (Valenciennes)
Littlehead porgy	A	<i>Calamus proridens</i> Jordan and Gilbert
Silver porgy	A	<i>Diplodus argenteus</i> (Valenciennes)
Spottail pinfish	A	<i>Diplodus holbrookii</i> (Bean)
Pinfish	A	<i>Lagodus rhomboides</i> (Linnaeus)
Red porgy	A	<i>Pagrus sedecim</i> Ginsburg
Longspine porgy	A	<i>Stenotomus caprinus</i> Bean
Seup	A	<i>Stenotomus chrysops</i> (Linnaeus)
Pempheridae—sweepers		
Glassy sweeper	A	<i>Pempheris schomburgki</i> Müller and Troschel
Scorpidae—halfmoons		
Halfmoon	P	<i>Medialuna californiensis</i> (Steindachner)
Kyphosidae—sea chubs		
Zebra perch	P	<i>Hermosilla azurea</i> Jenkins and Evermann
Yellow chub	A	<i>Kyphosus incisor</i> (Cuvier)
Bermuda chub	A	<i>Kyphosus sectatrix</i> (Linnaeus)
Girellidae—nibblers		
Opaleye	P	<i>Girella nigricans</i> (Ayres)
Ephippidae—spadefishes		
Atlantic spadefish	A	<i>Chaetodipterus faber</i> (Broussonet)
Pacific spadefish	P	<i>Chaetodipterus zonatus</i> (Girard)
Chaetodontidae—butterflyfishes		
Cherubfish	A	<i>Centropyge argi</i> Woods and Kanazawa
Bank butterflyfish	A	<i>Chaetodon aya</i> Jordan
Foureye butterflyfish	A	<i>Chaetodon capistratus</i> Linnaeus
Spotfin butterflyfish	A	<i>Chaetodon ocellatus</i> Bloch
Reef butterflyfish	A	<i>Chaetodon sedentarius</i> Poey
Banded butterflyfish	A	<i>Chaetodon striatus</i> Linnaeus
Blue angelfish	A	<i>Holacanthus bermudensis</i> (Goode)
Queen angelfish	A	<i>Holacanthus ciliaris</i> (Linnaeus)
Rock beauty	A	<i>Holacanthus tricolor</i> (Bloch)
French angelfish	A	<i>Pomacanthus arcuatus</i> (Linnaeus)
Gray angelfish	A	<i>Pomacanthus aureus</i> (Bloch)
Longsnout butterflyfish	A	<i>Prognathodes aculeatus</i> (Poey)

COMMON NAME OCCURRENCE SCIENTIFIC NAME

Cichlidae—cichlids

Velvet cichlid.....	F	<i>Astronotus ocellatus</i> (Agassiz)
Rio Grande perch.....	F	<i>Cichlasoma cyanoguttatum</i> (Baird and Girard)

Embiotocidae—surfperches

Barred surfperch.....	P	<i>Amphistichus argenteus</i> Agassiz
Calico surfperch.....	P	<i>Amphistichus koelzi</i> (Hubbs)
Redtail surfperch.....	P	<i>Amphistichus rhodoterus</i> (Agassiz)
Kelp perch.....	P	<i>Brachyistius frenatus</i> Gill
Shiner perch.....	P-F	<i>Cymatogaster aggregata</i> Gibbons
Island seaperch.....	P	<i>Cymatogaster gracilis</i> Tarp
Black perch.....	P	<i>Embiotoca jacksoni</i> Agassiz
Striped seaperch.....	P	<i>Embiotoca lateralis</i> Agassiz
Spotfin surfperch.....	P	<i>Hyperprosopon anale</i> Agassiz
Walleye surfperch.....	P	<i>Hyperprosopon argenteum</i> Gibbons
Silver surfperch.....	P	<i>Hyperprosopon ellipticum</i> (Gibbons)
Rainbow seaperch.....	P	<i>Hypsurus caryi</i> (Agassiz)
Tule perch.....	F	<i>Hysterochypus traski</i> Gibbons
Reef perch.....	P	<i>Micrometrus aurora</i> (Jordan and Gilbert)
Dwarf perch.....	P	<i>Micrometrus minimus</i> (Gibbons)
Sharpnose seaperch.....	P	<i>Phanerodon atripes</i> (Jordan and Gilbert)
White seaperch.....	P	<i>Phanerodon furcatus</i> Girard
Rubberlip seaperch.....	P	<i>Rhacochilus toxotes</i> Agassiz
Pile perch.....	P	<i>Rhacochilus vacca</i> (Girard)
Pink seaperch.....	P	<i>Zalemnius rosaceus</i> (Jordan and Gilbert)

Pomacentridae—damsel-fishes

Sergeant major.....	A	<i>Abudefduf saxatilis</i> (Linnaeus)
Night sergeant.....	A	<i>Abudefduf taurus</i> (Müller and Troschel)
Blue chromis.....	A	<i>Chromis cyanea</i> (Poey)
Yellowtail reef-fish.....	A	<i>Chromis enchrysurus</i> Jordan and Gilbert
Gray reef-fish.....	A	<i>Chromis insolatus</i> (Cuvier)
Brown chromis.....	A	<i>Chromis multilineata</i> (Guichenot)
Blacksmith.....	P	<i>Chromis punctipinnis</i> (Cooper)
Dusky damselfish.....	A	<i>Eupomacentrus dorsopunicans</i> (Poey)
Beaugregory.....	A	<i>Eupomacentrus leucostictus</i> (Müller and Troschel)
Bicolor damselfish.....	A	<i>Eupomacentrus partitus</i> (Poey)
Threespot damselfish.....	A	<i>Eupomacentrus planifrons</i> (Cuvier)
Cocoa damselfish.....	A	<i>Eupomacentrus variabilis</i> (Castelnau)
Garibaldi.....	P	<i>Hypsypops rubicunda</i> (Girard)
Yellowtail damselfish.....	A	<i>Microspathodon chrysurus</i> (Cuvier)

Labridae—wrasses

Spotfin hogfish.....	A	<i>Bodianus pulchellus</i> (Poey)
Spanish hogfish.....	A	<i>Bodianus rufus</i> (Linnaeus)
Creole wrasse.....	A	<i>Clepticus parrai</i> (Bloch and Schneider)
Red hogfish.....	A	<i>Decodon puellaris</i> (Poey)
Dwarf wrasse.....	A	<i>Doratonotus megalepis</i> Günther
Greenband wrasse.....	A	<i>Halichoeres bathyphilus</i> Beebe and Tee-Van
Slippery dick.....	A	<i>Halichoeres bivittatus</i> (Bloch)
Painted wrasse.....	A	<i>Halichoeres caudalis</i> (Poey)
Yellowhead wrasse.....	A	<i>Halichoeres garnoti</i> (Valenciennes)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Clown wrasse.....	A	<i>Halichoeres maculipinna</i> (Müller and Troschel)
Blackear wrasse.....	A	<i>Halichoeres poeyi</i> (Steindachner)
Puddingwife.....	A	<i>Halichoeres radiatus</i> (Linnaeus)
Rock wrasse.....	P	<i>Halichoeres semicinctus</i> (Ayres)
Hogfish.....	A	<i>Lachnolaimus maximus</i> (Walbaum)
Señorita.....	P	<i>Oxyjulis californica</i> (Günther)
California sheephead.....	P	<i>Pimelometopon pulchrum</i> (Ayres)
Tautog.....	A	<i>Tautoga onitis</i> (Linnaeus)
Cunner.....	A	<i>Tautoglabrus adspersus</i> (Walbaum)
Bluehead.....	A	<i>Thalassoma bifasciatum</i> (Bloch)
Rosy razorfish.....	A	<i>Xyrichtys martinicensis</i> Valenciennes
Pearly razorfish.....	A	<i>Xyrichtys psittacus</i> (Linnaeus)
Green razorfish.....	A	<i>Xyrichtys ventralis</i> Bean
Scaridae—parrotfishes		
Bluelip parrotfish.....	A	<i>Cryptotomus roseus</i> Cope
Emerald parrotfish.....	A	<i>Nicholsina usta</i> (Valenciennes)
Purple parrotfish.....	A	<i>Scarus coelestinus</i> Valenciennes
Blue parrotfish.....	A	<i>Scarus coeruleus</i> (Bloch)
Striped parrotfish.....	A	<i>Scarus croicensis</i> Bloch
Rainbow parrotfish.....	A	<i>Scarus guacamaia</i> Cuvier
Queen parrotfish.....	A	<i>Scarus vetula</i> Bloch and Schneider
Redband parrotfish.....	A	<i>Sparisoma aurofrenatum</i> (Valenciennes)
Spotfin parrotfish.....	A	<i>Sparisoma axillare</i> Steindachner
Redtail parrotfish.....	A	<i>Sparisoma chrysopterum</i> (Bloch and Schneider)
Bucktooth parrotfish.....	A	<i>Sparisoma radians</i> (Valenciennes)
Redfin parrotfish.....	A	<i>Sparisoma rubripinne</i> (Valenciennes)
Stoplight parrotfish.....	A	<i>Sparisoma viride</i> (Bonnaterre)
Acanthuridae—surgeonfishes		
Ocean surgeon.....	A	<i>Acanthurus bahianus</i> Castelnau
Doctorfish.....	A	<i>Acanthurus chirurgus</i> (Bloch)
Blue tang.....	A	<i>Acanthurus coeruleus</i> Bloch and Schneider
Gulf surgeonfish.....	A	<i>Acanthurus randalli</i> Briggs and Caldwell
Gempylidae—snake mackerels		
Snake mackerel.....	A	<i>Gempylus serpens</i> Cuvier
Escolar.....	A-P	<i>Lepidocybium flavobrunneum</i> (Smith)
Oilfish.....	A-P	<i>Ruwettus pretiosus</i> Cocco
Trichiuridae—cutlassfishes		
Scabbardfish.....	P	<i>Lepidopus xantusi</i> Goode and Bean
Atlantic cutlassfish.....	A	<i>Trichiurus lepturus</i> Linnaeus
Pacific cutlassfish.....	P	<i>Trichiurus nitens</i> Garman
Scombridae—mackerels and tunas		
Wahoo.....	A	<i>Acanthocybium solanderi</i> (Cuvier)
Frigate mackerel.....	A	<i>Auxis thazard</i> (Lacépède)
Little tuna.....	A	<i>Euthynnus alletteratus</i> (Rafinesque)
Black skipjack.....	P	<i>Euthynnus lineatus</i> Kishinouye
Skipjack tuna.....	A-P	<i>Euthynnus pelamis</i> (Linnaeus)
Wavyback skipjack.....	P	<i>Euthynnus yaito</i> Kishinouye

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Pacific bonito.....	P	<i>Sarda chiliensis</i> (Cuvier)
Striped bonito.....	A	<i>Sarda orientalis</i> (Temminck and Schlegel)
Atlantic bonito.....	A	<i>Sarda sarda</i> (Bloch)
Chub mackerel.....	A	<i>Scomber colias</i> Gmelin
Pacific mackerel.....	P	<i>Scomber japonicus</i> Houttuyn
Atlantic mackerel.....	A	<i>Scomber scombrus</i> Linnaeus
King mackerel.....	A	<i>Scomberomorus cavalla</i> (Cuvier)
Monterey Spanish mackerel.....	P	<i>Scomberomorus concolor</i> (Lockington)
Spanish mackerel.....	A	<i>Scomberomorus maculatus</i> (Mitchill)
Cero.....	A	<i>Scomberomorus regalis</i> (Bloch)
Albacore.....	A-P	<i>Thunnus alalunga</i> (Bonnaterre)
Yellowfin tuna.....	A-P	<i>Thunnus albacares</i> (Bonnaterre)
Blackfin tuna.....	A	<i>Thunnus atlanticus</i> (Lesson)
Bigeye tuna.....	A-P	<i>Thunnus obesus</i> Lowe
Bluefin tuna.....	A-P	<i>Thunnus thynnus</i> (Linnaeus)
Luvaridae—louvars		
Louvar.....	A-P	<i>Luvarus imperialis</i> Rafinesque
Istiophoridae ¹ —billfishes		
Atlantic sailfish.....	A	<i>Istiophorus albicans</i> (Latreille)
White marlin.....	A	<i>Makaira albida</i> (Poey)
Striped marlin.....	P	<i>Makaira audax</i> (Phillipi)
Blue marlin.....	A	<i>Makaira nigricans</i> Lacépède
Shortbill spearfish.....	P	<i>Tetrapturus angustirostris</i> Tanaka
Longbill spearfish.....	A	<i>Tetrapturus belone</i> Rafinesque
Xiphiidae—swordfishes		
Swordfish.....	A-P	<i>Xiphias gladius</i> Linnaeus
Eleotridae—sleepers		
Fat sleeper.....	A-F	<i>Dormitator maculatus</i> (Bloch)
Spotted sleeper.....	F	<i>Eleotris picta</i> Kner and Steindachner
Spinycheek sleeper.....	F	<i>Eleotris pisonis</i> (Gmelin)
Emerald sleeper.....	A	<i>Erotelis smaragdus</i> (Valenciennes)
Masked sleeper.....	A	<i>Eviota personata</i> Jordan and Thompson
Bigmouth sleeper.....	A-F	<i>Gobiomorus dormitor</i> Lacépède
Blue sleeper.....	A	<i>Ioglossus calliurus</i> Bean
Gobiidae—gobies		
River goby.....	A-F	<i>Awaous tajasica</i> (Lichtenstein)
Bearded goby.....	A	<i>Barbulifer ceuthoecus</i> (Jordan and Gilbert)
Notchtongue goby.....	A	<i>Bathygobius curacao</i> (Metzelaar)
Frillfin goby.....	A	<i>Bathygobius saporator</i> (Valenciennes)
White-eye goby.....	A	<i>Bollmannia jeannae</i> Fowler
Arrow goby.....	P-F	<i>Clevelandia ios</i> (Jordan and Gilbert)
Bridled goby.....	A	<i>Coryphopterus glaucofraenum</i> Gill
Bluespot goby.....	P	<i>Coryphopterus nicholsi</i> (Bean)
Neon goby.....	A	<i>Elacatinus oceanops</i> Jordan
Tidewater goby.....	P-F	<i>Eucyclogobius newberryi</i> (Girard)

¹ The following species, not yet recorded from our area, occur south of the California border in the Pacific: Pacific sailfish, *Istiophorus greyi* Jordan and Evermann; black marlin, *Makaira indica* (Cuvier); and blue marlin, *Makaira nigricans* Lacépède.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Sponge goby	A	<i>Evermannichthys spongicola</i> (Radeliffe)
Lyre goby	A	<i>Evorthodus lyricus</i> (Girard)
Tiger goby	A	<i>Garmannia macrodon</i> (Beebe and Tee-Van)
Longjaw mudsucker	P-F	<i>Gillichthys mirabilis</i> Cooper
Goldspot goby	A	<i>Gnatholepis thompsoni</i> Jordan
Violet goby	A	<i>Gobioides broussonneti</i> Lacépède
Darter goby	A	<i>Gobionellus boleosoma</i> (Jordan and Gilbert)
Slim goby	A	<i>Gobionellus gracillimus</i> Ginsburg
Sharptail goby	A	<i>Gobionellus hastatus</i> Girard
Longtail goby	P	<i>Gobionellus longicaudus</i> (Jenkins and Evermann)
Highfin goby	A	<i>Gobionellus oceanicus</i> (Pallas)
Freshwater goby	A-F	<i>Gobionellus shufeldti</i> (Jordan and Evermann)
Emerald goby	A	<i>Gobionellus smaragdus</i> (Valenciennes)
Marked goby	A	<i>Gobionellus stigmaticus</i> (Poey)
Spottail goby	A	<i>Gobionellus stigmaturus</i> (Goode and Bean)
Naked goby	A	<i>Gobiosoma bosci</i> (Lacépède)
Seaboard goby	A	<i>Gobiosoma ginsburgi</i> Hildebrand and Schroeder
Whiteline goby	A	<i>Gobiosoma horsti</i> Metzelaar
Twoscale goby	A	<i>Gobiosoma longipala</i> Ginsburg
Orangespotted goby	A	<i>Gobiosoma longum</i> Nichols
Code goby	A	<i>Gobiosoma robustum</i> Ginsburg
Paleback goby	A	<i>Gobulus myersi</i> Ginsburg
Cheekspot goby	P	<i>Ilypnus gilberti</i> (Eigenmann and Eigenmann)
Bay goby	P	<i>Lepidogobius lepidus</i> (Girard)
Halfblind goby	P	<i>Lethops connectens</i> Hubbs
Crested goby	A	<i>Lophogobius cyprinoides</i> (Pallas)
Bluebanded goby	P	<i>Lythrypnus dalli</i> (Gilbert)
Zebra goby	P	<i>Lythrypnus zebra</i> (Gilbert)
Seminole goby	A	<i>Microgobius carri</i> Fowler
Clown goby	A	<i>Microgobius gulosus</i> (Girard)
Banner goby	A	<i>Microgobius microlepis</i> Longley and Hildebrand
Green goby	A	<i>Microgobius thalassinus</i> (Jordan and Gilbert)
Shadow goby	P	<i>Quietula y-cauda</i> (Jenkins and Evermann)
Smallmouth goby	A	<i>Risor ruber</i> (Rosén)
Blind goby	P	<i>Typhlogobius californiensis</i> Steindachner

Microdesmidae—wormfishes

Pugjaw wormfish	A	<i>Microdesmus floridanus</i> (Longley)
Pink wormfish	A	<i>Microdesmus longipinnis</i> (Weymouth)

Scorpaenidae—scorpionfishes and rockfishes

Blackbelly rosefish	A	<i>Helicolenus dactylopterus</i> (De la Roche)
Spinycheek scorpionfish	A	<i>Neomerinthe pollux</i> (Poey)
Longsnout scorpionfish	A	<i>Pontinus castor</i> Poey
Scalyhead scorpionfish	A	<i>Pontinus longispinis</i> Goode and Bean
Highfin scorpionfish	A	<i>Pontinus rathbuni</i> Goode and Bean
Longfin scorpionfish	A	<i>Scorpaena agassizi</i> Goode and Bean
Red scorpionfish	A	<i>Scorpaena atlantica</i> Nichols and Breder
Goosehead scorpionfish	A	<i>Scorpaena bergi</i> Evermann and Marsh
Barbfish	A	<i>Scorpaena brasiliensis</i> Cuvier
Smoothhead scorpionfish	A	<i>Scorpaena calcarata</i> Goode and Bean
Hunchback scorpionfish	A	<i>Scorpaena dispar</i> Longley and Hildebrand
Lionfish	A	<i>Scorpaena grandicornis</i> Cuvier

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
California scorpionfish	P	<i>Scorpaena guttata</i> Girard
Mushroom scorpionfish	A	<i>Scorpaena inermis</i> Cuvier
Finescale scorpionfish	A	<i>Scorpaena microlepis</i> Gunter
Spotted scorpionfish	A	<i>Scorpaena plumieri</i> Bloch
Reef scorpionfish	A	<i>Scorpaenodes caribbaeus</i> Meek and Hildebrand
Redfish or ocean perch	A	<i>Sebastes marinus</i> (Linnaeus)
Blackthroat rockfish	P	<i>Sebastes¹ aleutianus</i> Jordan and Evermann
Pacific ocean perch	P	<i>Sebastes alutus</i> (Gilbert)
Kelp rockfish	P	<i>Sebastes atrovirens</i> (Jordan and Gilbert)
Brown rockfish	P	<i>Sebastes auriculatus</i> (Girard)
Aurora rockfish	P	<i>Sebastes aurora</i> (Gilbert)
Silvergray rockfish	P	<i>Sebastes brevispinis</i> (Bean)
Gopher rockfish	P	<i>Sebastes carnatus</i> (Jordan and Gilbert)
Copper rockfish	P	<i>Sebastes caurinus</i> (Richardson)
Greenspotted rockfish	P	<i>Sebastes chlorostictus</i> (Jordan and Gilbert)
Black-and-yellow rockfish	P	<i>Sebastes chrysomelas</i> (Jordan and Gilbert)
Dusky rockfish	P	<i>Sebastes ciliatus</i> (Tilesius)
Starry rockfish	P	<i>Sebastes constellatus</i> (Jordan and Gilbert)
Blackmouth rockfish	P	<i>Sebastes crameri</i> Jordan
Calico rockfish	P	<i>Sebastes dalli</i> (Eigenmann and Beeson)
Splitnose rockfish	P	<i>Sebastes diploproa</i> (Gilbert)
Greenstriped rockfish	P	<i>Sebastes elongatus</i> (Ayres)
Puget Sound rockfish	P	<i>Sebastes emphaeus</i> Starks
Widow rockfish	P	<i>Sebastes entomelas</i> (Jordan and Gilbert)
Pink rockfish	P	<i>Sebastes eos</i> (Eigenmann and Eigenmann)
Yellowtail rockfish	P	<i>Sebastes flavidus</i> Ayres
Bronzespotted rockfish	P	<i>Sebastes gilli</i> Eigenmann and Eigenmann
Chilipepper	P	<i>Sebastes goodei</i> Eigenmann and Eigenmann
Rosethorn rockfish	P	<i>Sebastes helvomaculatus</i> (Ayres)
Squarespot rockfish	P	<i>Sebastes hopkinsi</i> Cramer
Shortbelly rockfish	P	<i>Sebastes jordani</i> Gilbert
Cow rockfish	P	<i>Sebastes levis</i> (Eigenmann and Eigenmann)
Coral-red rockfish	P	<i>Sebastes macdonaldi</i> (Eigenmann and Beeson)
Quillback rockfish	P	<i>Sebastes maliger</i> (Jordan and Gilbert)
Black rockfish	P	<i>Sebastes melanops</i> (Girard)
Blackgill rockfish	P	<i>Sebastes melanostomus</i> Eigenmann and Eigenmann
Vermilion rockfish	P	<i>Sebastes miniatus</i> (Jordan and Gilbert)
Blue rockfish	P	<i>Sebastes mystinus</i> (Jordan and Gilbert)
China rockfish	P	<i>Sebastes nebulosus</i> (Ayres)
Tiger rockfish	P	<i>Sebastes nigrocinctus</i> (Ayres)
Speckled rockfish	P	<i>Sebastes ovalis</i> Ayres
Bocaccio	P	<i>Sebastes paucispinis</i> (Ayres)
Canary rockfish	P	<i>Sebastes pinniger</i> (Jordan and Gilbert)
Northern rockfish	P	<i>Sebastes polyspinis</i> (Taranetz and Moiseev)
Redstripe rockfish	P	<i>Sebastes proriger</i> (Jordan and Gilbert)
Grass rockfish	P	<i>Sebastes rastrelliger</i> (Jordan and Gilbert)
Swordspine rockfish	P	<i>Sebastes rhodochloris</i> (Jordan and Gilbert)
Rosy rockfish	P	<i>Sebastes rosaceus</i> Jordan and Gilbert
Raspehead rockfish	P	<i>Sebastes ruberrimus</i> Cramer
Flag rockfish	P	<i>Sebastes rubrivinctus</i> (Jordan and Gilbert)
Stripetail rockfish	P	<i>Sebastes saxicola</i> (Gilbert)

¹ The species here assigned to *Sebastes* are referred by some authors to *Sebastes*.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Halfbanded rockfish.....	P	<i>Sebastes semicinctus</i> Gilbert
Olive rockfish.....	P	<i>Sebastes serranoides</i> Eigenmann and Eigenmann
Treefish.....	P	<i>Sebastes serriceps</i> (Jordan and Gilbert)
Honeycomb rockfish.....	P	<i>Sebastes umbrosus</i> (Jordan and Gilbert)
Whitebelly rockfish.....	P	<i>Sebastes vexillaris</i> (Jordan and Gilbert)
Pygmy rockfish.....	P	<i>Sebastes wilsoni</i> Gilbert
Sharpchin rockfish.....	P	<i>Sebastes zacentrus</i> (Gilbert)
Shortspine channel rockfish.....	P	<i>Sebastolobus alascanus</i> Bean
Longspine channel rockfish.....	P	<i>Sebastolobus altivelis</i> Gilbert

Triglidae—searobins

Shortfin searobin.....	A	<i>Bellator brachyichir</i> (Regan)
Streamer searobin.....	A	<i>Bellator egretta</i> (Goode and Bean)
Horned searobin.....	A	<i>Bellator militaris</i> (Goode and Bean)
Slenderhead searobin.....	A	<i>Peristedion imberbe</i> (Poey)
Armored searobin.....	A	<i>Peristedion miniatum</i> Goode
Spiny searobin.....	A	<i>Prionotus alatus</i> Goode and Bean
Sicklefin searobin.....	A	<i>Prionotus beani</i> Goode
Northern searobin.....	A	<i>Prionotus carolinus</i> (Linnaeus)
Striped searobin.....	A	<i>Prionotus evolans</i> (Linnaeus)
Barred searobin.....	A	<i>Prionotus martis</i> Ginsburg
Bandtail searobin.....	A	<i>Prionotus ophryas</i> Jordan and Swain
Mexican searobin.....	A	<i>Prionotus paralatus</i> Ginsburg
Blackwing searobin.....	A	<i>Prionotus pectoralis</i> Nichols and Breder
Bluespotted searobin.....	A	<i>Prionotus roseus</i> Jordan and Evermann
Blackfin searobin.....	A	<i>Prionotus rubio</i> Jordan
Leopard searobin.....	A	<i>Prionotus scitulus</i> Jordan and Gilbert
Shortwing searobin.....	A	<i>Prionotus stearnsi</i> Jordan and Swain
Lumptail searobin.....	P	<i>Prionotus stephanophrys</i> Lockington
Bighead searobin.....	A	<i>Prionotus tribulus</i> Cuvier

Anoplopomatidae—sablefishes

Sablefish.....	P	<i>Anoplopoma fimbria</i> (Pallas)
Skilfish.....	P	<i>Erilepis zonifer</i> (Lockington)

Hexagrammidae—greenlings

Kelp greenling.....	P	<i>Hexagrammos decagrammus</i> (Pallas)
Masked greenling.....	P	<i>Hexagrammos octogrammus</i> (Pallas)
Whitespotted greenling.....	P	<i>Hexagrammos stelleri</i> Tilesius
Rock greenling.....	P	<i>Hexagrammos superciliosus</i> (Pallas)
Lingcod.....	P	<i>Ophiodon elongatus</i> Girard
Painted greenling.....	P	<i>Oxylebius pictus</i> Gill
Atka mackerel.....	P	<i>Pleurogrammus monopterygius</i> (Pallas)

Zaniolepididae—combfishes

Shortspine combfish.....	P	<i>Zaniolepis frenata</i> Eigenmann
Longspine combfish.....	P	<i>Zaniolepis latipinnis</i> Girard

Cottidae¹—sculpins

Hookear sculpin.....	A	<i>Artediellus uncinatus</i> (Reinhardt)
Coralline sculpin.....	P	<i>Artedius corallinus</i> (Hubbs)

¹ In addition to the species included, some 45 cottids are known to occur in North American waters only in Alaska. Most are small and little known. Their inclusion in this list would be premature.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Roughcheek sculpin	P	<i>Artedius creaseri</i> (Hubbs)
Padded sculpin	P	<i>Artedius fenestralis</i> Jordan and Gilbert
Spurcheek sculpin	P	<i>Artedius hankinsoni</i> (Hubbs)
Scalyhead sculpin	P	<i>Artedius harringtoni</i> (Starks)
Smoothhead sculpin	P	<i>Artedius lateralis</i> (Girard)
Bonehead sculpin	P	<i>Artedius notospilotus</i> Girard
Rosylip sculpin	P	<i>Ascelichthys rhodorus</i> Jordan and Gilbert
Spinynose sculpin	P	<i>Asemichthys taylori</i> Gilbert
Crested sculpin	P	<i>Blepsias bilobus</i> Cuvier
Silverspotted sculpin	P	<i>Blepsias cirrhosus</i> (Pallas)
Roughback sculpin	P	<i>Chitonotus pugetensis</i> (Steindachner)
Sharpnose sculpin	P-F	<i>Clinocottus acuticeps</i> (Gilbert)
Wooly sculpin	P	<i>Clinocottus analis</i> (Girard)
Calico sculpin	P	<i>Clinocottus embryum</i> (Jordan and Starks)
Mosshhead sculpin	P	<i>Clinocottus globiceps</i> (Girard)
Bald sculpin	P	<i>Clinocottus recalvus</i> (Greeley)
Coastrange sculpin	P-F	<i>Cottus aleuticus</i> Gilbert
Eagle sculpin	F	<i>Cottus annae</i> Jordan and Starks
Prickly sculpin	P-F	<i>Cottus asper</i> Richardson
Rough sculpin	F	<i>Cottus asperimus</i> Rutter
Mottled sculpin	F	<i>Cottus bairdi</i> Girard
Piute sculpin	F	<i>Cottus beldingi</i> Eigenmann and Eigenmann
Malheur sculpin	F	<i>Cottus bendirei</i> (Bean)
Banded sculpin	F	<i>Cottus carolinae</i> (Gill)
Slimy sculpin	F	<i>Cottus cognatus</i> Richardson
Shoshone sculpin	F	<i>Cottus greenei</i> (Gilbert and Culver)
Rifle sculpin	F	<i>Cottus gulosus</i> (Girard)
Columbia sculpin	F	<i>Cottus hubbsi</i> Bailey and Dimick
Marbled sculpin	F	<i>Cottus klamathensis</i> Gilbert
Wood River sculpin	F	<i>Cottus leiopomus</i> Gilbert and Evermann
Margined sculpin	F	<i>Cottus marginatus</i> (Bean)
Reticulate sculpin	F	<i>Cottus perplexus</i> Gilbert and Evermann
Klamath Lake sculpin	F	<i>Cottus princeps</i> Gilbert
Torrent sculpin	F	<i>Cottus rhotheus</i> (Smith)
Spoonhead sculpin	F	<i>Cottus ricei</i> (Nelson)
Slender sculpin	F	<i>Cottus tenuis</i> (Evermann and Meek)
Spinyhead sculpin	P	<i>Dasycottus seliger</i> Bean
Buffalo sculpin	P	<i>Enophrys bison</i> (Girard)
Bull sculpin	P	<i>Enophrys taurina</i> Gilbert
Soft sculpin	P	<i>Gilbertidia sigalutes</i> (Jordan and Starks)
Arctic staghorn sculpin	A-P	<i>Gymnocanthus tricuspis</i> (Reinhardt)
Red Irish lord	P	<i>Hemilepidotus hemilepidotus</i> (Tilesius)
Brown Irish lord	P	<i>Hemilepidotus spinosus</i> (Ayres)
Sea raven	A	<i>Hemitripterus americanus</i> (Gmelin)
Northern sculpin	P	<i>Icelinus borealis</i> Gilbert
Dusky sculpin	P	<i>Icelinus burchami</i> Evermann and Goldsborough
Pit-head sculpin	P	<i>Icelinus cavifrons</i> Gilbert
Threadfin sculpin	P	<i>Icelinus filamentosus</i> Gilbert
Fringed sculpin	P	<i>Icelinus fimbriatus</i> Gilbert
Frogmouth sculpin	P	<i>Icelinus oculatus</i> Gilbert
Yellowchin sculpin	P	<i>Icelinus quadriseriatus</i> (Lockington)
Spotfin sculpin	P	<i>Icelinus tenuis</i> Gilbert
Twohorn sculpin	A	<i>Icelus bicornis</i> (Reinhardt)
Spatulate sculpin	A-P	<i>Icelus spatula</i> Gilbert and Burke
Longfin sculpin	P	<i>Jordania zonope</i> Starks

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Lavender sculpin	P	<i>Leiocottus hirundo</i> Girard
Pacific staghorn sculpin	P-F	<i>Leptocottus armatus</i> Girard
Blackfin sculpin	P	<i>Malacocottus kincaidii</i> Gilbert and Thompson
Grubby	A	<i>Myoxocephalus aeneus</i> (Mitchill)
Longhorn sculpin	A	<i>Myoxocephalus octodecemspinus</i> (Mitchill)
Great sculpin	P	<i>Myoxocephalus polyacanthocephalus</i> (Pallas)
Fourhorn sculpin	A-F-P	<i>Myoxocephalus quadricornis</i> (Linnaeus)
Arctic sculpin	A-P	<i>Myoxocephalus scorpioides</i> (Fabricius)
Shorthorn sculpin	A-P	<i>Myoxocephalus scorpius</i> (Linnaeus)
Sailfin sculpin	P	<i>Nautichthys oculo-fasciatus</i> (Girard)
Tidepool sculpin	P	<i>Oligocottus maculosus</i> Girard
Saddleback sculpin	P	<i>Oligocottus rimensis</i> (Greeley)
Rosy sculpin	P	<i>Oligocottus rubellio</i> (Greeley)
Fluffy sculpin	P	<i>Oligocottus snyderi</i> Greeley
Snubnose sculpin	P	<i>Orthonopias triacis</i> Starks and Mann
Thornback sculpin	P	<i>Paricelinus hopliticus</i> Eigenmann and Eigenmann
Tadpole sculpin	P	<i>Psychrolutes paradoxus</i> Günther
Slim sculpin	P	<i>Radulinus asprellus</i> Gilbert
Darter sculpin	P	<i>Radulinus boleoides</i> Gilbert
Smoothgum sculpin	P	<i>Radulinus vinculus</i> Bolin
Grunt sculpin	P	<i>Rhamphocottus richardsoni</i> Günther
Puget Sound sculpin	P	<i>Ruscarius meanyi</i> Jordan and Starks
Cabezon	P	<i>Scorpaenichthys marmoratus</i> (Ayres)
Manacled sculpin	P	<i>Synchirus gilli</i> Bean
Roughspine sculpin	P	<i>Triglops macellus</i> (Bean)
Mailed sculpin	A	<i>Triglops nybelini</i> Jensen
Ribbed sculpin	A-P	<i>Triglops pingeli</i> Reinhardt

Agonidae—poachers and alligatorfishes

Northern spearnose poacher	P	<i>Agonopsis emmelane</i> (Jordan and Starks)
Southern spearnose poacher	P	<i>Agonopsis sterletus</i> (Gilbert)
Sturgeon poacher	P	<i>Agonus acipenserinus</i> Tilesius
Atlantic poacher	A	<i>Agonus decagonus</i> Bloch and Schneider
Smooth alligatorfish	P	<i>Anoplagonus inermis</i> (Günther)
Aleutian alligatorfish	P	<i>Aspidophoroides bartoni</i> Gilbert
Alligatorfish	A	<i>Aspidophoroides monopterygius</i> (Bloch)
Arctic alligatorfish	A-P	<i>Aspidophoroides olriki</i> Lütken
Gray starsnout	P	<i>Asterotheca alascana</i> (Gilbert)
Spinycheek starsnout	P	<i>Asterotheca infraspinata</i> (Gilbert)
Bigeye poacher	P	<i>Asterotheca pentacanthus</i> (Gilbert)
Blackfin poacher	P	<i>Bathyagonus nigripinnis</i> Gilbert
Rockhead	P	<i>Bothragonus swani</i> (Steindachner)
Fourhorn poacher	P	<i>Hypsagonus quadricornis</i> (Cuvier)
Bering poacher	P	<i>Occa dodecaedra</i> (Tilesius)
Warty poacher	P	<i>Occa verrucosa</i> (Lockington)
Pygmy poacher	P	<i>Odontopyxis trispinosa</i> Lockington
Tubenose poacher	P	<i>Pallasina barbata</i> (Steindachner)
Sawback poacher	P	<i>Sarritor frenatus</i> (Gilbert)
Longnose poacher	P	<i>Sarritor leptorhynchus</i> (Gilbert)
Beardless poacher	P	<i>Stelgis vulsa</i> (Jordan and Gilbert)
Pricklebreast poacher	P	<i>Stellerina xyosterna</i> (Jordan and Gilbert)
Blacktip poacher	P	<i>Xeneretmus latifrons</i> (Gilbert)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Cutfin poacher.....	P	<i>Xeneretmus leiops</i> Gilbert
Stripefin poacher.....	P	<i>Xeneretmus ritteri</i> Gilbert
Bluespotted poacher.....	P	<i>Xeneretmus triacanthus</i> (Gilbert)

Cyclopteridae—lumpfishes and snailfishes

Smooth lump sucker.....	P	<i>Aptocyclus ventricosus</i> (Pallas)
Longfin snailfish.....	A	<i>Careproctus longipinnis</i> Burke
Globefish.....	P	<i>Cyclopterichthys glaber</i> Steindachner
Arctic lump sucker.....	A	<i>Cyclopteropsis macalpini</i> (Fowler)
Lumpfish.....	A	<i>Cyclopterus lumpus</i> Linnaeus
Leatherfin lump sucker.....	A-P	<i>Eumicrotremus derjugini</i> Popov
Pacific spiny lump sucker.....	P	<i>Eumicrotremus orbis</i> (Günther)
Atlantic spiny lump sucker.....	A	<i>Eumicrotremus spinosus</i> (Müller)
Newfoundland spiny lump sucker.....	A	<i>Eumicrotremus terraenovae</i> Myers and Böhlke
Seasnail.....	A	<i>Liparis atlanticus</i> (Jordan and Evermann)
Spotted snailfish.....	P	<i>Liparis callyodon</i> (Pallas)
Ribbon snailfish.....	P	<i>Liparis cyclopus</i> Günther
Polka-dot snailfish.....	A-P	<i>Liparis cyclostigma</i> Gilbert
Marbled snailfish.....	P	<i>Liparis dennyi</i> Jordan and Starks
Tidepool snailfish.....	P	<i>Liparis florum</i> (Jordan and Starks)
Slipskin snailfish.....	P	<i>Liparis fucensis</i> Gilbert
Gelatinous seasnail.....	A-P	<i>Liparis koefoedi</i> Parr
Striped seasnail.....	A	<i>Liparis liparis</i> (Linnaeus)
Slimy snailfish.....	P	<i>Liparis mucosus</i> Ayres
Showy snailfish.....	P	<i>Liparis pulchellus</i> Ayres
Ringtail snailfish.....	P	<i>Liparis rutteri</i> (Gilbert and Snyder)
Greenland seasnail.....	A	<i>Liparis tunicatus</i> Reinhardt
Tadpole snailfish.....	P	<i>Nectoliparis pelagicus</i> Gilbert and Burke
Prickly snailfish.....	P	<i>Paraliparis deani</i> Burke
Bering snailfish.....	P	<i>Polypera beringiana</i> (Gilbert and Burke)
Lobefin snailfish.....	P	<i>Polypera greeni</i> (Jordan and Starks)

Dactylopteridae—flying gurnards

Flying gurnard.....	A	<i>Dactylopterus volitans</i> (Linnaeus)
---------------------	---	--

Trichodontidae—sandfishes

Sailfin sandfish.....	P	<i>Arctoscopus japonicus</i> (Steindachner)
Pacific sandfish.....	P	<i>Trichodon trichodon</i> (Tilesius)

Ammodytidae—sand lances

American sand lance.....	A	<i>Ammodytes americanus</i> DeKay
Northern sand lance.....	A	<i>Ammodytes dubius</i> Reinhardt
Pacific sand lance.....	A-P	<i>Ammodytes hexapterus</i> Pallas

Opisthognathidae—jawfishes

Swordtail jawfish.....	A	<i>Lonchopisthus lindneri</i> Ginsburg
Yellowhead jawfish.....	A	<i>Opisthognathus aurifrons</i> (Jordan and Thompson)
Banded jawfish.....	A	<i>Opisthognathus fasciatus</i> Longley
Longtail jawfish.....	A	<i>Opisthognathus lonchurus</i> Jordan and Gilbert
Spotfin jawfish.....	A	<i>Opisthognathus macrogathus</i> Poey
Mottled jawfish.....	A	<i>Opisthognathus maxillosus</i> Poey

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Pensacola jawfish	A	<i>Opisthognathus mystacinus</i> (Jordan)
Dusky jawfish	A	<i>Opisthognathus whitehursti</i> (Longley)
Bathymasteridae—ronquils		
Alaskan ronquil	P	<i>Bathymaster caeruleofasciatus</i> Gilbert and Burke
Searcher	P	<i>Bathymaster signatus</i> Cope
Rough ronquil	P	<i>Rathbunella alleni</i> Gilbert
Smooth ronquil	P	<i>Rathbunella hypoplectus</i> (Gilbert)
Northern ronquil	P	<i>Ronquilus jordani</i> (Gilbert)
Percophididae—flatheads		
Duckbill flathead	A	<i>Bembrops anatirostris</i> Ginsburg
Goby flathead	A	<i>Bembrops gobioides</i> (Goode)
Uranoscopidae—stargazers		
Freckled stargazer	A	<i>Arioscopus egregius</i> (Jordan and Thompson)
Northern stargazer	A	<i>Astroscopeus guttatus</i> Abbott
Southern stargazer	A	<i>Astroscopeus y-graecum</i> (Cuvier)
Lancer stargazer	A	<i>Kathetostoma albigutta</i> (Bean)
Smooth stargazer	P	<i>Kathetostoma averruncus</i> Jordan and Bollman
Dactyloscopidae—sand stargazers		
Sand stargazer	A	<i>Dactyloscopus tridigitatus</i> Gill
Arrow stargazer	A	<i>Gillellus greyae</i> Kanazawa
Saddle stargazer	A	<i>Heteristius rubrocinctus</i> (Longley)
Callionymidae—dragonets		
Lancer dragonet	A	<i>Callionymus bairdi</i> Jordan
Coral dragonet	A	<i>Callionymus boekei</i> Metzlaar
Spotted dragonet	A	<i>Callionymus calliurus</i> Eigenmann and Eigenmann
Clinidae—clinids		
Roughhead blenny	A	<i>Acanthemblemaria aspera</i> (Longley)
Spinyhead blenny	A	<i>Acanthemblemaria spinosa</i> Metzelaar
Island kelpfish	P	<i>Alloclinus holderi</i> (Lauderbach)
Checkered blenny	A	<i>Brannerella ocellata</i> (Steindachner)
Orangethroat pikeblenny	P	<i>Chaenopsis alepidota</i> (Gilbert)
Bluethroat pikeblenny	A	<i>Chaenopsis ocellata</i> Poey
Deepwater blenny	P	<i>Cryptotrema corallinum</i> Gilbert
Banner blenny	A	<i>Emblemaria atlantica</i> Jordan and Evermann
Glass blenny	A	<i>Emblemaria diaphana</i> (Longley)
Sailfin blenny	A	<i>Emblemaria pandionis</i> Evermann and Marsh
Pirate blenny	A	<i>Emblemaria piratula</i> Ginsburg and Reid
Redeye blenny	A	<i>Enneapterygius pectoralis</i> Fowler
Spotted kelpfish	P	<i>Gibbonsia elegans</i> (Cooper)
Scarlet kelpfish	P	<i>Gibbonsia erythra</i> Hubbs
Striped kelpfish	P	<i>Gibbonsia metzi</i> Hubbs
Crevice kelpfish	P	<i>Gibbonsia montereyensis</i> Hubbs
Wrasse blenny	A	<i>Hemiblemaria simulus</i> Longley and Hildebrand
Giant kelpfish	P	<i>Heterostichus rostratus</i> Girard

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Mimic blenny	A	<i>Labrisomus guppyi</i> (Norman)
Downy blenny	A	<i>Labrisomus kalisheræ</i> (Jordan)
Spotcheek blenny	A	<i>Labrisomus nigricinctus</i> Howell Rivero
Hairy blenny	A	<i>Labrisomus nuchipinnis</i> (Quoy and Gaimard)
Rosy blenny	A	<i>Malacoctenus macropus</i> (Poey)
Saddled blenny	A	<i>Malacoctenus triangulatus</i> Springer
Sarcastic fringehead	P	<i>Neoclinus blanchardi</i> Girard
Yellowfin fringehead	P	<i>Neoclinus stephensæ</i> Hubbs
Onespot fringehead	P	<i>Neoclinus uninotatus</i> Hubbs
Coral blenny	A	<i>Paraclinus cingulatus</i> (Evermann and Marsh)
Banded blenny	A	<i>Paraclinus fasciatus</i> (Steindachner)
Horned blenny	A	<i>Paraclinus grandicomis</i> (Rosén)
Reef finspot	P	<i>Paraclinus integripinnis</i> (Smith)
Marbled blenny	A	<i>Paraclinus marmoratus</i> (Steindachner)
Blackfin blenny	A	<i>Paraclinus nigripinnis</i> (Steindachner)
Blackbelly blenny	A	<i>Stathmonotus hemphilli</i> Bean
Eelgrass blenny	A	<i>Stathmonotus stahli</i> (Evermann and Marsh)

Blenniidae—combtooth blennies

Molly miller	A	<i>Blennius cristatus</i> Linnaeus
Seaweed blenny	A	<i>Blennius marmoreus</i> Poey
Highfin blenny	A	<i>Blennius nicholsi</i> Tavolga
Fringe blenny	A	<i>Blennius pilicornis</i> Cuvier
Striped blenny	A	<i>Chasmodes bosquianus</i> (Lacépède)
Florida blenny	A	<i>Chasmodes saburrae</i> Jordan and Gilbert
Pearl blenny	A	<i>Entomacrodus textilis</i> (Quoy and Gaimard)
Barred blenny	A	<i>Hypleurochilus bermudensis</i> Beebe and Tee-Van
Crested blenny	A	<i>Hypleurochilus geminatus</i> (Wood)
Bay blenny	P	<i>Hypsoblennius gentilis</i> (Girard)
Rockpool blenny	P	<i>Hypsoblennius gilberti</i> (Jordan)
Feather blenny	A	<i>Hypsoblennius hentzi</i> (LeSueur)
Freckled blenny	A	<i>Hypsoblennius ionthas</i> (Jordan and Gilbert)
Redlip blenny	A	<i>Ophioblennius atlanticus</i> (Valenciennes)

Anarhichadidae—wolffishes

Northern wolffish	A	<i>Anarhichas denticulatus</i> Krøyer
Atlantic wolffish	A	<i>Anarhichas lupus</i> Linnaeus
Spotted wolffish	A	<i>Anarhichas minor</i> Olafsen
Bering wolffish	P	<i>Anarhichas orientalis</i> Pallas
Wolf-eel	P	<i>Anarrhichthys ocellatus</i> Ayres

Pholidae—gunnels

Penpoint gunnel	P	<i>Apodichthys flavidus</i> Girard
Stippled gunnel	P	<i>Pholis dolichogaster</i> (Pallas)
Banded gunnel	A	<i>Pholis fasciata</i> (Bloch and Schneider)
Bering gunnel	P	<i>Pholis gilli</i> Evermann and Goldsborough
Rock gunnel	A	<i>Pholis gunnellus</i> (Linnaeus)
Crescent gunnel	P	<i>Pholis laeta</i> (Cope)
Saddleback gunnel	P	<i>Pholis ornata</i> (Girard)
Red gunnel	P	<i>Pholis schultzi</i> Hubbs
Kelp gunnel	P	<i>Ulnicola sanctaerosæ</i> Gilbert and Starks
Rockweed gunnel	P	<i>Xerperes fucorum</i> (Jordan and Gilbert)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Stichaeidae¹—pricklebacks		
Y-blenny	P	<i>Allolumpenus hypochromus</i> Hubbs and Schultz
Cockscorb	P	<i>Anoplarchus purpurescens</i> Gill
Monkeyface blenny	P	<i>Cebidichthys violaceus</i> (Girard)
Mosshead prickleback	P	<i>Chirolophus nugator</i> (Jordan and Williams)
Decorated blenny	P	<i>Chirolophus polyactocephalus</i> (Pallas)
Wrymouth	A	<i>Cryptacanthodes maculatus</i> Storer
Giant wrymouth	P	<i>Delolepis gigantea</i> Kittlitz
Fourline snakeblenny	A-P	<i>Eumesogrammus praecisus</i> (Krøyer)
Longsnout blenny	P	<i>Lumpenella longirostris</i> (Evermann and Goldsborough)
Slender eelblenny	A-P	<i>Lumpenus fabricii</i> (Valenciennes)
Snake blenny	A	<i>Lumpenus lumpretaeformis</i> (Walbaum)
Shanny	A-P	<i>Lumpenus maculatus</i> (Fries)
Stout eelblenny	A-P	<i>Lumpenus medius</i> Reinhardt
Pacific snakeblenny	P	<i>Lumpenus sagitta</i> Wilimovsky
Dwarf wrymouth	P	<i>Lyconectes aleutensis</i> Gilbert
Ribbon prickleback	P	<i>Phytichthys chirus</i> (Jordan and Gilbert)
Crisscross prickleback	P	<i>Plagiogrammus hopkinsi</i> Bean
Bluebarred prickleback	P	<i>Plectobranchnus evides</i> Gilbert
Whitebarred blenny	P	<i>Poroclinus rothrocki</i> Bean
Arctic shanny	A-P	<i>Stichaeus punctatus</i> (Fabricius)
Radiated shanny	A	<i>Ulvaria subbifurcata</i> (Storer)
Black prickleback	P	<i>Xiphister atropurpureus</i> (Kittlitz)
Rock blenny	P	<i>Xiphister mucosus</i> (Girard)
Ptilichthyidae—quillfishes		
Quillfish	P	<i>Ptilichthys goodei</i> Bean
Zoarceidae²—eelpouts		
Bigfin eelpout	P	<i>Aprodon cortezianus</i> Gilbert
Snakehead eelpout	P	<i>Embryx crotalina</i> (Gilbert)
Fish doctor	A	<i>Gymnelis viridis</i> (Fabricius)
Wolf eelpout	A	<i>Lycenchelys verrilli</i> (Goode and Bean)
Blackmouth eelpout	P	<i>Lycodapus fierasfer</i> Gilbert
Pallid eelpout	P	<i>Lycodapus mandibularis</i> Gilbert
Shortfin eelpout	P	<i>Lycodes brevipes</i> Bean
Black eelpout	P	<i>Lycodes diapterus</i> Gilbert
Newfoundland eelpout	A	<i>Lycodes lavalaei</i> Vladykov and Tremblay
Wattled eelpout	P	<i>Lycodes palearis</i> Gilbert
Pale eelpout	A	<i>Lycodes pallidus</i> Collett
Arctic eelpout	A	<i>Lycodes reticulatus</i> Reinhardt
Polar eelpout	A-P	<i>Lycodes turneri</i> Bean
Blackbelly eelpout	P	<i>Lycodopsis pacifica</i> (Collett)
Bearded eelpout	P	<i>Lycinema barbatum</i> Gilbert
Ocean pout	A	<i>Macrozoarces americanus</i> (Bloch and Schneider)
Scytalinidae—graveldivers		
Graveldiver	P	<i>Scytalina cerdale</i> Jordan and Gilbert

¹ In addition to those listed, at least six species occur in our area only in Bering Sea. Too little is known about these to permit proposal of common names at this time.

² In addition to species listed, there are others that live in deep water off our coasts and some that occur over the continental shelf in northern seas, especially around Alaska.

COMMON NAME OCCURRENCE SCIENTIFIC NAME

Zaproridae—prowfishes

Prowfish P *Zaprora silenus* Jordan

Brotulidae—brotulas

Red brotula P *Brosomphyceis marginata* (Ayres)

Bearded brotula A *Brotula barbata* (Bloch and Schneider)

Key brotula A *Ogilbia cayorum* Evermann and Kendall

Ophidiidae—cusk-eels

Fawn cusk-eel A *Lepophidium cervinum* (Goode and Bean)

Blackedge cusk-eel A *Lepophidium graellsii* (Poey)

Mottled cusk-eel A *Lepophidium jeannae* Fowler

Bank cusk-eel A *Ophidion holbrookii* (Putnam)

Pencil cusk-eel P *Ophidion novaculum* Harry

Mooneye cusk-eel A *Ophidion selenops* Robins and Böhlke

Crested cusk-eel A *Ophidion welshi* (Nichols and Breder)

Polka-dot cusk-eel A *Otophidium omostigmum* (Jordan and Gilbert)

Basketweave cusk-eel P *Otophidium scrippsae* Hubbs

Spotted cusk-eel P *Otophidium taylora* (Girard)

Striped cusk-eel A *Rissola marginata* (DeKay)

Carapidae—pearlfishes

Pearlfish A *Carapus bermudensis* (Jones)

Stromateidae—butterfishes

Black ruff A *Centrolophus niger* (Gmelin)

Longfin cigarfish P *Cubiceps gracilis* (Lowe)

Silver-rag A *Cubiceps nigriargenteus* Ginsburg

Medusafish P *Icichthys lockingtoni* Jordan and Gilbert

Blackrag P *Icticus pellucidus* (Lütken)

Man-of-war fish A *Nomeus gronovi* (Gmelin)

Barrelfish A *Palinurichthys perciformis* (Mitchill)

Pacific pompano P *Palometa simillima* (Ayres)

Southern harvestfish A *Peprilus alepidotus* (Linnaeus)

Northern harvestfish A *Peprilus paru* (Linnaeus)

Butterfish A *Poronotus triacanthus* (Peck)

Freckled driftfish A *Psenes cyanophrys* Cuvier

Silver driftfish A *Psenes maculatus* Lütken

Spotted driftfish A *Psenes regulus* Poey

Tetragonuridae—squaretails

Bigeye squaretail A *Tetragonurus atlanticus* Lowe

Smalleye squaretail P *Tetragonurus cuvieri* Risso

Icosteidae—ragfishes

Ragfish P *Icosteus aenigmaticus* Lockington

Sphyraenidae—barracudas

Pacific barracuda P *Sphyraena argentea* Girard

Great barracuda A *Sphyraena barracuda* (Walbaum)

Northern sennet A *Sphyraena borealis* DeKay

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Guaguanche.....	A	<i>Sphyaena guachancho</i> Cuvier
Southern sennet.....	A	<i>Sphyaena picudilla</i> Poey

Mugilidae—mulletts

Mountain mullet.....	A-F	<i>Agonostomus monticola</i> (Bancroft)
Striped mullet ¹	A-F-P	<i>Mugil cephalus</i> Linnaeus
White mullet.....	A	<i>Mugil curema</i> Valenciennes
Redeye mullet.....	A	<i>Mugil gaimardiana</i> Desmarest
Liza.....	A	<i>Mugil liza</i> Valenciennes
Fantail mullet.....	A	<i>Mugil trichodon</i> Poey

Atherinidae—silversides

Reef silverside.....	A	<i>Allanetta harringtonensis</i> (Goode)
Hardhead silverside.....	A	<i>Atherinomorus stipes</i> (Müller and Troschel)
Topsmelt.....	P-F	<i>Atherinops affinis</i> (Ayres)
Jacksmelt.....	P	<i>Atherinopsis californiensis</i> Girard
Brook silverside.....	F	<i>Labidesthes sicculus</i> (Cope)
California grunion.....	P	<i>Leuresthes tenuis</i> (Ayres)
Rough silverside.....	A	<i>Membras martinica</i> (Valenciennes)
Mississippi silverside.....	F	<i>Menidia audens</i> Hay
Tidewater silverside.....	A-F	<i>Menidia beryllina</i> (Cope)
Key silverside.....	A	<i>Menidia conchorum</i> Hildebrand and Ginsburg
Waccamaw silverside.....	F	<i>Menidia extensa</i> Hubbs and Raney
Atlantic silverside.....	A	<i>Menidia menidia</i> (Linnaeus)

Polynemidae—threadfins

Pacific threadfin.....	P	<i>Polydactylus approximans</i> (Lay and Bennett)
Atlantic threadfin.....	A	<i>Polydactylus octonemus</i> (Girard)
Yellow threadfin.....	P	<i>Polydactylus opercularis</i> (Gill)
Barbu.....	A	<i>Polydactylus virginicus</i> (Linnaeus)

ORDER PLEURONECTIFORMES (HETEROSOMATA)

Bothidae—lefteye flounders

Three-eye flounder.....	A	<i>Ancylopsetta dilecta</i> (Goode and Bean)
Ocellated flounder.....	A	<i>Ancylopsetta quadrocellata</i> Gill
Peacock flounder.....	A	<i>Bothus lunatus</i> (Linnaeus)
Eyed flounder.....	A	<i>Bothus ocellatus</i> (Agassiz)
Pelican flounder.....	A	<i>Chascanopsetta lugubris</i> Alcock
Gulf Stream flounder.....	A	<i>Citharichthys arctifrons</i> Goode
Horned whiff.....	A	<i>Citharichthys cornutus</i> (Günther)
Spotted whiff.....	A	<i>Citharichthys macrops</i> Dresel
Pacific sanddab.....	P	<i>Citharichthys sordidus</i> (Girard)
Bay whiff.....	A	<i>Citharichthys spilopterus</i> Günther
Speckled sanddab.....	P	<i>Citharichthys stigmaeus</i> Jordan and Gilbert
Longfin sanddab.....	P	<i>Citharichthys xanthostigma</i> Gilbert
Mexican flounder.....	A	<i>Cyclopsetta chittendeni</i> Bean
Spotfin flounder.....	A	<i>Cyclopsetta fimbriata</i> (Goode and Bean)
Spiny flounder.....	A	<i>Engyophrys sentus</i> Ginsburg
Fringed flounder.....	A	<i>Etropus crossotus</i> Jordan and Gilbert
Smallmouth flounder.....	A	<i>Etropus microstomus</i> (Gill)

¹ Known as black mullet in Florida.

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Gray flounder	A	<i>Etropus rimosus</i> Goode and Bean
Shrimp flounder	A	<i>Gastropsetta frontalis</i> Bean
Bigmouth sole	P	<i>Hippoglossina stomata</i> Eigenmann and Eigenmann
Slim flounder	A	<i>Monolene antillarum</i> Norman
Deepwater flounder	A	<i>Monolene sessilicauda</i> Goode
Gulf flounder	A	<i>Paralichthys albigutta</i> Jordan and Gilbert
California halibut	P	<i>Paralichthys californicus</i> (Ayres)
Summer flounder	A	<i>Paralichthys dentatus</i> (Linnaeus)
Southern flounder	A	<i>Paralichthys lethostigma</i> Jordan and Gilbert
Fourspot flounder	A	<i>Paralichthys oblongus</i> (Mitchill)
Broad flounder	A	<i>Paralichthys squamilentus</i> Jordan and Gilbert
Windowpane	A	<i>Scophthalmus aquosus</i> (Mitchill)
Shoal flounder	A	<i>Syacium gunteri</i> Ginsburg
Channel flounder	A	<i>Syacium micrurum</i> Ranzani
Dusky flounder	A	<i>Syacium papillosum</i> (Linnaeus)
Sash flounder	A	<i>Trichopsetta ventralis</i> (Goode and Bean)
Fantail sole	P	<i>Xystereus lolepis</i> Jordan and Gilbert

Pleuronectidae—righteye flounders

Arrowtooth flounder	P	<i>Atheresthes stomias</i> (Jordan and Gilbert)
Deepsea sole	P	<i>Embassichthys bathybius</i> (Gilbert)
Petrale sole	P	<i>Eopsetta jordani</i> (Lockington)
Witch flounder	A	<i>Glyptocephalus cynoglossus</i> (Linnaeus)
Rex sole	P	<i>Glyptocephalus zachirus</i> Lockington
Flathead sole	P	<i>Hippoglossoides classodon</i> Jordan and Gilbert
American plaice	A	<i>Hippoglossoides platessoides</i> (Fabricius)
Bering flounder	P	<i>Hippoglossoides robustus</i> Gill and Townsend
Atlantic halibut	A	<i>Hippoglossus hippoglossus</i> (Linnaeus)
Pacific halibut	P	<i>Hippoglossus stenolepis</i> Schmidt
Diamond turbot	P	<i>Hypsopsetta guttulata</i> (Girard)
Butter sole	P	<i>Isopsetta isolepis</i> (Lockington)
Rock sole	P	<i>Lepidopsetta bilineata</i> (Ayres)
Yellowfin sole	P	<i>Limanda aspera</i> (Pallas)
Yellowtail flounder	A	<i>Limanda ferruginea</i> (Storer)
Longhead dab	P	<i>Limanda proboscidea</i> Gilbert
Arctic flounder	P	<i>Liopsetta glacialis</i> (Pallas)
Smooth flounder	A	<i>Liopsetta putnami</i> (Gill)
Slender sole	P	<i>Lyopsetta exilis</i> (Jordan and Gilbert)
Dover sole	P	<i>Microstomus pacificus</i> (Lockington)
English sole	P	<i>Parophrys vetulus</i> Girard
Starry flounder	P-F	<i>Platichthys stellata</i> (Pallas)
Alaska plaice	P	<i>Pleuronectes quadrituberculatus</i> Pallas
C-O sole	P	<i>Pleuronichthys coenosus</i> Girard
Curlfin sole	P	<i>Pleuronichthys decurrens</i> Jordan and Gilbert
Spotted turbot	P	<i>Pleuronichthys ritteri</i> Starks and Morris
Hornyhead turbot	P	<i>Pleuronichthys verticalis</i> Jordan and Gilbert
Sand sole	P	<i>Psettichthys melanostictus</i> Girard
Winter flounder	A	<i>Pseudopleuronectes americanus</i> (Walbaum)
Greenland halibut	A	<i>Reinhardtius hippoglossoides</i> (Walbaum)

Soleidae—soles

Lined sole	A	<i>Achirus lineatus</i> (Linnaeus)
Naked sole	A	<i>Gymnachirus nudus</i> Kaup
Scrawled sole	A	<i>Trinectes inscriptus</i> (Gosse)
Hogchoker	A	<i>Trinectes maculatus</i> (Bloch and Schneider)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Cynoglossidae—tonguefishes		
California tonguefish	P	<i>Symphurus atricauda</i> (Jordan and Gilbert)
Offshore tonguefish	A	<i>Symphurus civitatus</i> Ginsburg
Spottedfin tonguefish	A	<i>Symphurus diomedianus</i> (Goode and Bean)
Largescale tonguefish	A	<i>Symphurus minor</i> Ginsburg
Pygmy tonguefish	A	<i>Symphurus parvus</i> Ginsburg
Longtail tonguefish	A	<i>Symphurus pelicanus</i> Ginsburg
Deepwater tonguefish	A	<i>Symphurus piger</i> (Goode and Bean)
Blackcheek tonguefish	A	<i>Symphurus plagiusa</i> (Linnaeus)
Northern tonguefish	A	<i>Symphurus pusillus</i> (Goode and Bean)
Spottail tonguefish	A	<i>Symphurus urospilus</i> Ginsburg
ORDER ECHENEIFORMES (DISCOCEPHALI)		
Echeneidae—remoras		
Sharksucker	A	<i>Echeneis naucrates</i> Linnaeus
Whitefin sharksucker	A	<i>Echeneis neucratoides</i> Zuiew
Slender suckerfish	A	<i>Phtheichthys lineatus</i> (Menzies)
Whalesucker	A-P	<i>Remora australis</i> (Bennett)
Spearfish remora	A-P	<i>Remora brachyptera</i> (Lowe)
Marlinsucker	A-P	<i>Remora osteochir</i> (Cuvier)
Remora	A-P	<i>Remora remora</i> (Linnaeus)
White suckerfish	A-P	<i>Remorina albescens</i> (Temminck and Schlegel)
ORDER GOBIESOCIFORMES (XENOPTERYGII)		
Gobiesocidae—clingfishes		
Emerald clingfish	A	<i>Acyrtops beryllinus</i> (Hildebrand and Ginsburg)
Northern clingfish	P	<i>Gobiesox maeandricus</i> (Girard)
Bearded clingfish	P	<i>Gobiesox papillifer</i> Gilbert
Stippled clingfish	A	<i>Gobiesox punctulatus</i> (Poey)
California clingfish	P	<i>Gobiesox rhessodon</i> Smith
Skilletfish	A	<i>Gobiesox strumosus</i> Cope
Slender clingfish	P	<i>Rimicola eigenmanni</i> (Gilbert)
Kelp clingfish	P	<i>Rimicola muscarum</i> (Meek and Hildebrand)
ORDER TETRAODONTIFORMES (PLECTOGNATHI)		
Triacanthodidae—spikefishes		
Jambeau	A	<i>Parahollandia lineata</i> (Longley)
Balistidae—triggerfishes and filefishes		
Unicorn filefish	A	<i>Alutera monoceros</i> (Linnaeus)
Orange filefish	A	<i>Alutera schoepfi</i> (Walbaum)
Scrawled filefish	A	<i>Alutera scripta</i> (Osbeck)
Dotterel filefish	A	<i>Alutera ventralis</i> Longley
Gray triggerfish	A	<i>Balistes capriscus</i> Gmelin
Spotted triggerfish	A	<i>Balistes forcipatus</i> Gmelin
Finescale triggerfish	P	<i>Balistes polylepis</i> Steindachner
Queen triggerfish	A	<i>Balistes vetula</i> Linnaeus
Orangespotted filefish	A	<i>Cantherines pullus</i> (Ranzani)
Rough triggerfish	A	<i>Canthidermis maculatus</i> (Bloch)
Ocean triggerfish	A	<i>Canthidermis sufflamen</i> (Mitchill)
Black durgon	A	<i>Melichthys radula</i> (Solander)

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Fringed filefish.....	A	<i>Monacanthus ciliatus</i> (Mitchill)
Planehead filefish.....	A	<i>Monacanthus hispidus</i> (Linnaeus)
Pygmy filefish.....	A	<i>Monacanthus setifer</i> Bennett
Slender filefish.....	A	<i>Monacanthus tuckeri</i> Bean
Redtail triggerfish.....	P	<i>Xanthichthys lineopunctatus</i> (Hollard)
Sargassum triggerfish.....	A	<i>Xanthichthys ringens</i> (Linnaeus)

Ostraciidae—trunkfishes

Spotted trunkfish.....	A	<i>Lactophrys bicaudalis</i> (Linnaeus)
Cowfish.....	A	<i>Lactophrys quadricornis</i> (Linnaeus)
Trunkfish.....	A	<i>Lactophrys trigonus</i> (Linnaeus)
Smooth trunkfish.....	A	<i>Lactophrys triqueter</i> (Linnaeus)
Spiny trunkfish.....	P	<i>Lactoria diaphana</i> (Bloch and Schneider)

Tetraodontidae—puffers

Sharpnose puffer.....	A	<i>Canthigaster rostrata</i> (Bloch)
Smooth puffer.....	A	<i>Lagocephalus laevigatus</i> (Linnaeus)
Oceanic puffer.....	P	<i>Lagocephalus lagocephalus</i> (Linnaeus)
Jugfish.....	A	<i>Lagocephalus pachycephalus</i> (Ranzani)
Bullseye puffer.....	P	<i>Sphaeroides annulatus</i> (Jenyns)
Marbled puffer.....	A	<i>Sphaeroides dorsalis</i> Longley
Northern puffer.....	A	<i>Sphaeroides maculatus</i> (Bloch and Schneider)
Southern puffer.....	A	<i>Sphaeroides nephelus</i> (Goode and Bean)
Bandtail puffer.....	A	<i>Sphaeroides spengleri</i> (Bloch)
Checkered puffer.....	A	<i>Sphaeroides testudineus</i> (Linnaeus)

Diodontidae—porcupinefishes

Pacific burrfish.....	P	<i>Chilomycterus affinis</i> Günther
Bridled burrfish.....	A	<i>Chilomycterus antennatus</i> (Cuvier)
Web burrfish.....	A	<i>Chilomycterus antillarum</i> Jordan and Rutter
Spotted burrfish.....	A	<i>Chilomycterus atinga</i> (Linnaeus)
Striped burrfish.....	A	<i>Chilomycterus schoepfi</i> (Walbaum)
Balloonfish.....	A	<i>Diodon holacanthus</i> Linnaeus
Porcupinefish.....	A-P	<i>Diodon hystrix</i> Linnaeus

Molidae—molas

Sharptail mola.....	A	<i>Mola lanceolata</i> Lienard
Ocean sunfish.....	A-P	<i>Mola mola</i> (Linnaeus)
Slender mola.....	P	<i>Ranzania laevis</i> (Pennant)

ORDER BATRACHOIDIFORMES (HAPLODOCI)

Batrachoididae—toadfishes

Gulf toadfish.....	A	<i>Opsanus beta</i> (Goode and Bean)
Leopard toadfish.....	A	<i>Opsanus pardus</i> (Goode and Bean)
Oyster toadfish.....	A	<i>Opsanus tau</i> (Linnaeus)
Slim midshipman.....	P	<i>Porichthys myriaster</i> Hubbs and Schultz
Northern midshipman.....	P	<i>Porichthys notatus</i> Girard
Atlantic midshipman.....	A	<i>Porichthys porosissimus</i> (Cuvier)

ORDER LOPHIIFORMES (PEDICULATI)

Lophiidae—goosefishes

Goosefish.....	A	<i>Lophius americanus</i> Valenciennes
----------------	---	--

COMMON NAME	OCCURRENCE	SCIENTIFIC NAME
Antennariidae—frogfishes		
Roughjaw frogfish.....	P	<i>Antennarius avalonis</i> Jordan and Starks
Longlure frogfish.....	A	<i>Antennarius multiocellatus</i> (Valenciennes)
Ocellated frogfish.....	A	<i>Antennarius ocellatus</i> (Bloch and Schneider)
Singlespot frogfish.....	A	<i>Antennarius radiosus</i> Garman
Splitlure frogfish.....	A	<i>Antennarius scaber</i> (Cuvier)
Sargassumfish.....	A	<i>Histrio histrio</i> (Linnaeus)
Ogcocephalidae—batfishes		
Spiny batfish.....	A	<i>Halieutichthys aculeatus</i> (Mitchill)
Tricorn batfish.....	A	<i>Ogcocephalus mcgintyi</i> Fowler
Shortnose batfish.....	A	<i>Ogcocephalus nasutus</i> (Valenciennes)
Roughback batfish.....	A	<i>Ogcocephalus parvus</i> Longley and Hildebrand
Polka-dot batfish.....	A	<i>Ogcocephalus radiatus</i> (Mitchill)
Longnose batfish.....	A	<i>Ogcocephalus vespertilio</i> (Linnaeus)
Spotted batfish.....	P	<i>Zalieutes elater</i> (Jordan and Gilbert)

PART II

Index to Common Names

A			
agujon.....	20	barbfish.....	36
albacore.....	35	barbier, red.....	25
false—see tuna, little		barbu.....	46
alewife.....	10	barracuda, California—see barracuda,	
alligatorfish.....	40	Pacific	
Aleutian.....	40	great.....	45
Arctic.....	40	northern—see sennet, northern	
smooth.....	40	Pacific.....	45
alligatorfishes.....	40	barracudas.....	45
allmouth—see goosefish		barreleye.....	12
amberjack, false—see amberjack, lesser		barreleyes.....	12
greater.....	30	barrelfish.....	45
lesser.....	30	bass, bank sea.....	25
Pacific.....	30	bigeye—see salem	
slender—see rudderfish, banded		black—see bass, largemouth; bass,	
anchoveta.....	11	smallmouth; bass, spotted; bass, red-	
anchovies.....	11	eye	
anchovy, bay.....	11	blackear.....	25
Cuban.....	11	black sea.....	25
deepbody.....	11	see also bass, giant sea	
dusky.....	11	blue—see blacksmith; croaker, black;	
flat.....	11	opaleye; sargo	
key.....	11	bull—see bass, kelp	
longnose.....	11	calico—see bass, kelp; crappie, black	
New Jersey.....	11	chalk.....	26
northern.....	11	channel—see drum, red	
Pacific—see anchovy, northern		Coosa—see bass, redeye	
silver.....	11	crimson.....	25
slim.....	11	giant sea.....	26
slough.....	11	see also skilfish	
striped.....	11	Guadalupe.....	27
angelfish, black—see angelfish, French;		kelp.....	25
angelfish, gray		Kentucky—see bass, spotted	
blue.....	32	lantern.....	25
French.....	32	largemouth.....	27
gray.....	32	longtail.....	25
queen.....	32	orangeback.....	25
white—see spadefish, Atlantic		pygmy sea.....	26
angler—see goosefish		redeye.....	27
argentine, Atlantic.....	12	see also bass, rock	
Pacific.....	12	reef.....	25
argentinians.....	12	Roanoke.....	27
		rock.....	27
		rock sea.....	25
		rougtongue.....	25
		saddle.....	25
		sand.....	25
		silver—see bass, white	
		smallmouth.....	27
		southern sea.....	25
		speckled—see crappie, black	

B

bairdiella.....	31
balao.....	20
balloonfish.....	49
ballyhoo.....	20
redtail—see ballyhoo	

- bass, splittail..... 25
 spotted..... 27
 spotted sand..... 25
 stone—see wreckfish
 strawberry—see crappie, black
 streamer..... 25
 striped..... 26
 Suwannee..... 27
 white..... 26
 yellow..... 26
 yellowtail..... 25
 basses, sea..... 25
 batfish, longnose..... 50
 polka-dot..... 50
 roughback..... 50
 shortnose..... 50
 spiny..... 50
 spotted..... 50
 tricorn..... 50
 baysmelt—see topsmelt
 beadeye—see stonecat
 beardfish..... 24
 beardfishes..... 24
 beaugregory..... 33
 beauty, rock..... 32
 bergall—see cunner
 bigeye..... 26
 short..... 26
 bigeyes..... 26
 billfish—see needlefish; saury; gar
 billfishes..... 35
 bitterling..... 16
 blackback—see flounder, winter
 blackcod—see sablefish
 blackfish—see bass, black sea; tautog
 Alaska..... 12
 Sacramento..... 16
 blackrag..... 45
 blacksmith..... 33
 blanquillo—see whitefish, ocean
 blennies, combtooth..... 43
 blenny, banded..... 43
 banner..... 42
 barred..... 43
 see prickleback, bluebarred
 bay..... 43
 belted—see prickleback, ribbon
 black—see prickleback, black
 blackbelly..... 43
 blackfin..... 43
 bracketed—see gunnel, crescent
 burrowing—see graveldiver
 checkered..... 42
 coral..... 43
 crested..... 43
 see also cockscorb
 decorated..... 44
 deepwater..... 42
 downy..... 43
 eelgrass..... 43
 feather..... 43
 Florida..... 43
 freckled..... 43
 fringe..... 43
 fucus—see gunnel, rockweed
 glass..... 42
 hairy..... 43
 highfin..... 43
 horned..... 43
 longsnout..... 44
 marbled..... 43
 mimic..... 43
 monkeyface..... 44
 ornamented—see prickleback, moss-
 head
 pearl..... 43
 pen-point—see gunnel, penpoint
 pirate..... 42
 redeye..... 42
 redlip..... 43
 rock..... 44
 see prickleback, black
 rockpool..... 43
 rosy..... 43
 roughhead..... 42
 saddled..... 43
 see gunnel, saddleback
 sailfin..... 42
 seaweed..... 43
 snake..... 44
 spinyhead..... 42
 spotcheek..... 43
 striped..... 43
 whitebarred..... 44
 wrasse..... 42
 blindcat, toothless..... 19
 widemouth..... 19
 blindfish—see cavefish
 bloater..... 11
 bluefish..... 29
 bluefishes..... 29
 bluegill..... 27
 bluehead..... 34
 boarfish, deepbody..... 24
 shortspine..... 24
 boarfishes..... 24
 bobo—see threadfin, Pacific
 bocaccio..... 37
 bonefish..... 10
 bonefishes..... 10
 bonhead—see bonito, Pacific
 bonito, Atlantic..... 35
 California—see bonito, Pacific
 oceanic—see tuna, skipjack
 Pacific..... 35
 striped..... 35

- bonnethead..... 8
 bony fishes..... 9
 bonytail..... 14
 boo hoo—see mackerel, frigate
 bowfin..... 10
 bowfins..... 10
 boxfish—see trunkfish
 spiny—see burrfish, striped
 bream—see pinfish; bluegill
 Ray's—see pomfret
 sea..... 32
 brill—see sole, petrale
 broadbill—see swordfish
 brotula, bearded..... 45
 key..... 45
 red..... 45
 brotulas..... 45
 buffalo, bigmouth..... 17
 black..... 17
 gourd-head—see buffalo, bigmouth
 highback—see buffalo, smallmouth
 mongrel—see buffalo, black
 razorback—see buffalo, smallmouth
 redmouth—see buffalo, bigmouth
 round—see buffalo, black
 smallmouth..... 17
 bull, Mexican—see margate, black
 bullfish—see cabezon
 bullhead—see also cabezon; sculpin, Pa-
 cific staghorn
 black..... 18
 brown..... 18
 flat..... 18
 yellow..... 18
 bumper..... 29
 burbot..... 22
 burrfish, bridled..... 49
 Pacific..... 49
 spotted..... 49
 striped..... 49
 web..... 49
 butterflyfish..... 45
 see also gunnel, rock
 butterflyfishes..... 45
 butterflyfish, banded..... 32
 bank..... 32
 four-eye..... 32
 longsnout..... 32
 reef..... 32
 spotfin..... 32
 butterflyfishes..... 32
- C**
- cabezon..... 40
 see also sculpin, Pacific staghorn
 cabezone—see sculpin, Pacific staghorn
 cabio—see cobia
 Cabrilla, spotted..... 25
 candlefish—see eulachon
 capelin..... 12
 cardinalfish, barred..... 26
 belted..... 26
 bridle..... 26
 bronze..... 26
 dusky..... 26
 freckled..... 26
 pale..... 26
 sawcheck..... 26
 twospot..... 26
 whitestar..... 26
 cardinalfishes..... 26
 carp..... 13
 carps..... 13
 carpsucker, highfin..... 17
 plains..... 17
 river..... 17
 cartilaginous fishes..... 6
 catalufa—see also bigeye
 popeye..... 26
 catfish, bigmouth—see catfish, gafftopsail
 black—see bullhead, black
 blue..... 18
 brown—see bullhead, brown
 channel..... 18
 flathead..... 19
 forktail—see catfish, white
 gafftopsail..... 18
 headwater..... 18
 mud—see catfish, flathead
 Potomac—see catfish, white
 sea..... 18
 see also wolffish, Atlantic
 shovelhead—see catfish, flathead
 smallmouth—see catfish, sea
 spoonbill—see paddlefish
 squaretail—see bullhead, brown
 white..... 18
 Yaqui..... 18
 yellow—see catfish, flathead
 catfishes, freshwater..... 18
 sea..... 18
 cavefish, northern..... 22
 Ozark..... 22
 southern..... 22
 spring..... 22
 cavefishes..... 22
 cero..... 35
 chaetodon—see sunfish, blackbanded
 char, Arctic..... 12
 Great Lakes—see trout, lake
 speckled—see trout, brook
 characins..... 13
 charr—see char
 cherubfish..... 32
 chilipepper..... 37
 chimaeras..... 9

- chinafish—see filefish, scrawled; rock-
 fish, china
 chiro—see ladyfish
 chiselmouth 13
 chromis, blue 33
 brown 33
 chub—see also cisco
 Alabama 14
 arroyo 14
 Bermuda 32
 bigeye 14
 blotched 14
 blue 13
 bluehead 14
 Columbia River—see peamouth
 creek 17
 flame 14
 flathead 14
 gravel 14
 highback 14
 hornyhead 14
 humpback 13
 Klamath—see chub, blue
 lake 14
 least 14
 leatherside 17
 Mohave 17
 northern—see chub, lake
 Oregon 14
 peamouth—see peamouth
 redeye 14
 Rio Grande 14
 river 14
 rosyface 14
 sicklefin 14
 silver 14
 slender 14
 Sonora 14
 speckled 14
 spotfin 14
 streamline 14
 sturgeon 14
 thicklip 14
 thicktail 13
 Tui 17
 Utah 13
 Yaqui 14
 yellow 32
 chubs, sea 32
 chubsucker, creek 17
 lake 17
 sharpfin 17
 cichlid, pearl—see perch, Rio Grande
 velvet 33
 cichlids 33
 cigarfish—see also scad, round; scad,
 bigeye
 longfin 45
 cisco 11
 Arctic 11
 blackfin 11
 Bonneville 11
 deepwater 11
 least 11
 longjaw 11
 Nipigon 11
 shortjaw 11
 shortnose 11
 white—see cisco, deepwater
 clingfish, bearded 48
 California 48
 common—see clingfish, northern
 emerald 48
 kelp 48
 northern 48
 slender 48
 stippled 48
 clingfishes 48
 clinids 42
 cobbler—see mummichog
 cobia 29
 cobias 29
 cockscomb 44
 cod, Arctic 22
 Atlantic 22
 black—see sablefish
 blue—see cabezon
 bull—see cabezon
 channel—see rockfish, channel
 chili—see chilipepper
 cultus—see lingcod
 Greenland 22
 northern—see cod, saffron
 Pacific 22
 polar 22
 rock—see cod, Atlantic; rockfish
 saffron 22
 codfishes 22
 combfish, longspine 38
 shortspine 38
 combfishes 38
 conchfish 26
 coney 25
 conger, bandtooth 19
 Catalina 19
 manytooth 19
 margintail 19
 silver 19
 whiptail 19
 yellow 19
 conny—see inconnu
 convictfish—see greenling, painted
 corbina, California 31
 cornetfish 23
 cornetfishes 23
 corvina, orangemouth 31

corvina, shortfin..... 31
 cottonwick..... 31
 cowfish..... 49
 crab eater—see cobia
 crampfish—see ray, lesser electric
 crappie, black..... 27
 white..... 27
 creole-fish..... 25
 crestfish..... 24
 crestfishes..... 24
 crevalle, green—see runner, blue
 jack—see jack, crevalle
 croaker, Atlantic..... 31
 black..... 31
 blue..... 31
 Catalina..... 31
 china—see croaker, black; sargo
 golden—see croaker, spotfin
 king—see croaker, white
 reef..... 31
 spotfin..... 31
 white..... 31
 yellowfin..... 31
 cubbyu..... 31
 cui-ui..... 17
 cultus, Pacific—see lingcod
 cunner..... 34
 cusk..... 22
 cusk-eel, bank..... 45
 basketweave..... 45
 blackedge..... 45
 crested..... 45
 fawn..... 45
 mooneye..... 45
 mottled..... 45
 pencil..... 45
 polka-dot..... 45
 spotted..... 45
 striped..... 45
 cusk-eels..... 45
 cutlassfish, Atlantic..... 34
 Pacific..... 34
 cutlassfishes..... 34
 cyprinodon, variegated — see minnow,
 sheepshead

D

dab—see also sanddab
 Atlantic sand—see windowpane
 longhead..... 47
 mottled sand—see sanddab, Pacific
 mud—see sole, yellowfin
 rough—see plaice, American
 rusty—see flounder, yellowtail
 dace, blacknose..... 16
 desert..... 13
 finescale..... 13
 horned—see chub, creek

leopard..... 16
 longfin..... 13
 longnose..... 16
 Moapa..... 14
 mountain redbelly..... 13
 northern redbelly..... 13
 pearl..... 17
 redbelly..... 13
 rosyside..... 13
 southern redbelly..... 13
 speckled..... 16
 Umpqua..... 16
 danselfish, bicolor..... 33
 cocoa..... 33
 dusky..... 33
 threespot..... 33
 yellowtail..... 33
 danselfishes..... 33
 darter, Arkansas..... 27
 Arkansas saddled..... 28
 arrow..... 28
 ashy..... 27
 backwater..... 29
 banded..... 28
 barcheck..... 28
 blackbanded..... 29
 blackside..... 29
 blackside snubnose..... 27
 blenny..... 27
 bluebreast..... 27
 blueside..... 28
 bluestripe..... 29
 bluntnose..... 27
 bronze..... 29
 brown..... 28
 Carolina..... 27
 channel..... 29
 Coosa..... 27
 crystal..... 27
 Cumberland snubnose..... 27
 cypress..... 28
 dusky..... 29
 eastern sand..... 27
 fantail..... 28
 finescale saddled..... 28
 fountain..... 28
 gilt..... 29
 glassy..... 28
 goldstripe..... 28
 greenbreast..... 28
 greenside..... 27
 greenthroat..... 28
 gulf..... 28
 Harlequin..... 28
 Iowa..... 28
 Johnny..... 28
 Kanawha..... 28
 least..... 28

darter, leopard.....	29	doctor, fish.....	44
longfin.....	28	doctorfish.....	34
longhead.....	29	dogfish, black.....	8
longnose.....	29	chain.....	7
Maryland.....	28	Cuban.....	8
Missouri saddled.....	28	freshwater—see bowfin	
mud.....	27	smooth.....	7
naked sand.....	27	spiny.....	8
Niangua.....	28	dollarfish—see harvestfish	
olive.....	29	Dolly Varden.....	12
orangebelly.....	28	dolphin.....	30
orangethroat.....	28	pompano.....	30
Piedmont.....	29	dolphins.....	30
pinewoods.....	28	dorado—see dolphin	
rainbow.....	27	doré—see walleye	
redband.....	28	dories.....	24
redfin.....	28	Dory, American John.....	24
redline.....	28	doughbelly—see stoneroller	
Rio Grande.....	28	dragonet, coral.....	42
river.....	29	lancer.....	42
riverweed.....	28	spotted.....	42
rock.....	28	dragonets.....	42
Saluda.....	28	driftfish, freckled.....	45
Savannah.....	28	silver.....	45
sawcheek.....	28	spotted.....	45
scalyhead.....	27	drum, banded.....	31
scaly sand.....	27	black.....	31
seagreen.....	28	freshwater.....	31
sharphead.....	27	red.....	31
sharpnose.....	29	sand.....	31
shield.....	29	sea—see drum, black	
slenderhead.....	29	spotted.....	31
slough.....	28	star.....	31
speckled.....	28	striped.....	31
spottail.....	28	drums.....	31
spotted.....	28	durgon, black.....	48
stargazing.....	29		
stippled.....	28		
stripeback.....	29		
striped.....	28		
stripetail.....	28		
swamp.....	28		
Swannanoa.....	28		
Tennessee snubnose.....	28		
Tippecanoe.....	28		
Tuckasegee.....	28		
turquoise.....	28		
Tuscumbia.....	28		
variegate.....	28		
Waccamaw.....	28		
western sand.....	27		
yellow.....	29		
yoke.....	28		
dealfish.....	24		
devil, red—see wrymouth, dwarf			
devilfish, little—see ray, devil			
dick, slippery.....	33		
diver, sand.....	13		

E

eel, American.....	19
blotched snake.....	19
California worm.....	19
conger.....	19
congo—see wrymouth, giant	
finless.....	20
goldspotted.....	20
horsehair.....	19
key worm.....	19
lamprey—see lamprey	
monkeyface—see blenny, monkeyface	
mustard.....	20
Pacific snake.....	20
palespotted.....	20
ridgefin.....	19
rock—see gunnel, rock	
sailfin.....	19
sand—see lance, sand	
sharptail.....	19
shorttail snake.....	19

- eel, shrimp. 20
 silver—see cutlassfish
 slender pike 19
 slime—see hagfish
 snapper. 20
 sooty 19
 speckled worm 20
 spiny 20
 spotted snake 20
 spotted spoon-nose 20
 stippled spoon-nose 20
 surf 19
 thread 19
 tiger snake 20
 whip 19
 yellow snake 20
 eelback—see flounder, smooth
 eelblenny, slender 44
 stout 44
 eelpout—see also pout, ocean; burbot
 Arctic 44
 bearded 44
 bigfin 44
 black 44
 blackbelly 44
 blackmouth 44
 Newfoundland 44
 pale 44
 pallid 44
 pearly—see eelpout, blackmouth
 polar 44
 shortfin 44
 snakehead 44
 wattled 44
 wolf 44
 eelpouts 44
 eels, conger 19
 freshwater 19
 mustard 20
 snake 19
 snipe 19
 spiny 20
 escolar 34
 eulachon 12
- F**
- fallfish 17
 fatback—see menhaden
 fathead—see sheephead, California
 filefish, common—see filefish, planehead
 dotterel 48
 fringed 49
 lettered—see filefish, scrawled
 longtail—see filefish, scrawled
 orange 48
 orangespotted 48
 planehead 49
 pygmy 49
 scrawled 48
 slender 49
 unicorn 48
 filefishes 48
 finspot, reef 43
 fish, dovetail—see sergeant, night
 flag, Spanish 25
 see also rockfish, flag
 flagfish 21
 flamefish 26
 flasher—see tripletail
 flatfish—see flounder, winter
 flathead, duckbill 42
 goby 42
 flatheads 42
 flier 27
 flounder, Arctic 47
 arrowtooth 47
 Bering 47
 broad 47
 broadfin—see sole, rock
 channel 47
 curlfin—see sole, curlfin
 deepwater 47
 diamond—see turbot, diamond
 dusky 47
 English—see sole, English
 eyed 46
 fantail—see sole, fantail
 flathead—see sole, flathead
 fourspot 47
 fringe—see sole, sand
 fringed 46
 Georges Bank—see flounder, winter
 gray 47
 gulf 47
 Gulf Stream 46
 hornyhead—see turbot, hornyhead
 lemon—see sole, English
 longfin—see sole, rex
 longjaw—see flounder, arrowtooth
 Mexican 46
 ocellated 46
 peacock 46
 pelican 46
 pointed-nose—see sole, English
 rock—see sole, rock
 roundnose—see sole, petrale
 sash 47
 sand—see flounder, gulf; sole, sand
 scalyfin—see sole, butter
 shoal 47
 shrimp 47
 slender—see sole, slender
 slim 47
 slime—see sole, Dover
 slippery—see sole, Dover
 smallmouth 46

- flounder, smooth..... 47
 southern..... 47
 spiny..... 46
 spotfin..... 46
 starry..... 47
 summer..... 47
 three-eye..... 46
 winter..... 47
 witch..... 47
 yellowtail..... 47
 flounders, lefteye..... 46
 righteye..... 47
 fluke, fourspot—see flounder, fourspot
 gulf—see flounder, gulf
 southern—see flounder, southern
 summer—see flounder, summer
 flyingfish, Atlantic..... 20
 bandwing..... 20
 blackwing..... 21
 bluntnose..... 21
 California..... 20
 clearwing..... 20
 fourwing..... 21
 margined..... 20
 oceanic two-wing..... 21
 sailfin..... 21
 sharpchin..... 21
 smallwing..... 21
 spotfin..... 20
 tropical two-wing..... 21
 flyingfishes..... 20
 foolfish—see filefish
 fringehead, onepot..... 43
 sarcastic..... 43
 yellowfin..... 43
 frogfish, longlure..... 50
 ocellated..... 50
 roughjaw..... 50
 singlespot..... 50
 splitlure..... 50
 frostfish—see tomcod, Atlantic; white-
 fish, round
- G**
- gag..... 25
 gambusia, Big Bend..... 22
 blotched..... 22
 Clear Creek..... 22
 largespring..... 22
 Pecos..... 22
 gar, alligator..... 10
 Florida..... 10
 longnose..... 10
 saltwater—see needlefish
 shortnose..... 10
 silver—see needlefish
 spotted..... 10
 garfish—see needlefish, California
- garibaldi..... 33
 garpike—see gar
 gars..... 10
 gaspereau—see alewife
 gaspergou—see drum, freshwater
 ghostfish—see wrymouth
 globefish..... 41
 see also sunfish, ocean
 goatfish, dwarf..... 32
 Mexican..... 31
 red..... 31
 spotted..... 32
 yellow..... 31
 goatfishes..... 31
 gobies..... 35
 goby, arrow..... 35
 banner..... 36
 bay..... 36
 bearded..... 35
 blind..... 36
 bluebanded..... 36
 bluespot..... 35
 bridled..... 35
 cheekspot..... 36
 clown..... 36
 code..... 36
 crested..... 36
 darter..... 36
 emerald..... 36
 finescale—see goby, bay
 freshwater..... 36
 frillfin..... 35
 goldspot..... 36
 green..... 36
 halfblind..... 36
 highfin..... 36
 largescale—see goby, bluespot
 longjaw—see mudsucker, longjaw
 longtail..... 36
 lyre..... 36
 marked..... 36
 naked..... 36
 neon..... 35
 notchtongue..... 35
 orangespotted..... 36
 paleback..... 36
 river..... 35
 seaboard..... 36
 Seminole..... 36
 shadow..... 36
 sharptail..... 36
 slim..... 36
 smallmouth..... 36
 sponge..... 36
 spottail..... 36
 tidewater..... 35
 tiger..... 36
 twoscale..... 36

- goby, violet..... 36
 white-eye..... 35
 whiteline..... 36
 zebra..... 36
 goggle-eye—see bass, rock; scad, bigeye
 goggler—see scad, bigeye
 goldeye..... 12
 goldfish..... 13
 Catalina—see garibaldi
 ocean—see garibaldi
 goody—see spot
 goosefish..... 49
 goosefishes..... 49
 goujon—see catfish, flathead
 graveldiver..... 44
 graveldivers..... 44
 grayback—see alewife
 grayfish—see dogfish
 grayling, Arctic..... 12
 Montana—see grayling, Arctic
 graylings..... 11
 graysby..... 25
 greenfish—see opaleye
 greenling, Alaska—see greenling, masked
 common—see greenling, whitespotted
 fringed—see greenling, rock
 kelp..... 38
 longspine—see combfish, longspine
 masked..... 38
 painted..... 38
 red—see greenling, rock
 rock..... 38
 whitespotted..... 38
 greenlings..... 38
 grenadiers..... 22
 grindle—see bowfin
 grouper, black..... 25
 broomtail..... 25
 gulf..... 25
 marbled..... 25
 misty..... 25
 Nassau..... 25
 red..... 25
 rock—see bocaccio
 salmon—see bocaccio
 sicklefin—see grouper, marbled
 snowy..... 25
 tiger..... 25
 Warsaw..... 25
 yellowedge..... 25
 yellowfin..... 25
 yellowmouth..... 25
 grubby..... 40
 grunion, California..... 46
 grunt, barred..... 30
 black..... 30
 blacktail—see grunt, Caesar
 bluestriped..... 31
 burro..... 31
 Caesar..... 30
 common—see grunt, white
 French..... 31
 redmouth—see tomtate
 smallmouth..... 30
 Spanish..... 31
 white..... 31
 yellow — see grunt, bluestriped; grunt,
 French
 gruntfish—see sculpin, grunt
 grunts..... 30
 guaguanche..... 46
 guitarfish, Atlantic..... 8
 banded..... 8
 California—see guitarfish, shovelnose
 mottled—see guitarfish, banded
 shovelnose..... 8
 guitarfishes..... 8
 gunnel, banded..... 43
 Bering..... 43
 crescent..... 43
 kelp..... 43
 penpoint..... 43
 red..... 43
 rock..... 43
 rockweed..... 43
 saddleback..... 43
 stippled..... 43
 gunnels..... 43
 gurnard, flying..... 41
 gurnards, flying..... 41
- ## H
- hackleback—see sturgeon, shovelnose
 haddock..... 22
 hagfish, Atlantic..... 6
 black..... 6
 Pacific..... 6
 hagfishes..... 6
 hake, Carolina..... 22
 gulf..... 22
 longfin..... 22
 mud—see hake, white
 Pacific..... 22
 silver..... 22
 southern..... 22
 spotted..... 22
 squirrel..... 22
 white..... 22
 hakes..... 22
 halfbeak..... 20
 California..... 20
 flying..... 20
 hardhead..... 20
 longfin..... 20
 ribbon..... 20
 halfbeaks..... 20

- halfmoon..... 32
 halmoons..... 32
 halibut, arrowtooth—see flounder, arrow-
 tooth
 Atlantic..... 47
 California..... 47
 Greenland..... 47
 northern—see halibut, Pacific
 Pacific..... 47
 hamlet, butter..... 25
 mutton..... 25
 see also grouper, marbled; grouper,
 Nassau
 hammerhead, great..... 7
 scalloped..... 7
 smooth..... 8
 handsawfish—see lancetfish, Pacific
 hardhead..... 14
 see also croaker, Atlantic
 hardtail—see runner, blue
 harvestfish, northern..... 45
 southern..... 45
 headfish—see sunfish, ocean; mola, sharp-
 tail
 herring—see also queenfish
 Atlantic..... 10
 Atlantic round..... 10
 Atlantic thread..... 10
 bigeye—see ladyfish
 blueback..... 10
 branch—see alewife
 California round..... 10
 dwarf..... 10
 flatiron..... 10
 glut—see herring, blueback
 Japanese—see herring, round
 lake..... 11
 see also cisco, least
 moon—see mooneye
 Pacific..... 10
 Pacific thread..... 10
 sea—see herring, Atlantic
 skipjack..... 10
 summer—see herring, blueback
 herrings..... 10
 highbrow—see prowfish
 hind, brown—see graysby
 red..... 25
 rock..... 25
 speckled..... 25
 hitch..... 14
 hogchoker..... 47
 hogfish..... 34
 see also pigfish
 red..... 33
 Spanish..... 33
 spotfin..... 33
 hogmolly—see sucker, hog
 hornpout—see bullhead
 horse-mackerel—see mackerel, jack
 houndfish..... 20
- I**
- idiot—see rockfish, channel
 inconnu..... 12
- J**
- jack, almaco..... 30
 bar..... 29
 black..... 29
 bluntnose..... 30
 common—see jack, crevalle
 cottonmouth..... 30
 crevalle..... 29
 green..... 29
 horse-eye..... 29
 Spanish—see runner, rainbow
 yellow..... 29
 jackfish—see pike, northern
 jackknife-fish..... 31
 jack-ma-riddle—see ladyfish
 jacks..... 29
 jacksmelt..... 46
 jambeau..... 48
 jawfish, banded..... 41
 dusky..... 42
 longtail..... 41
 mottled..... 41
 Pensacola..... 42
 spotfin..... 41
 swordtail..... 41
 yellowhead..... 41
 jawfishes..... 41
 jawless fishes..... 6
 jenny, silver..... 30
 jewfish..... 25
 see also sea bass, giant
 black—see grouper, Warsaw
 spotted—see jewfish
 Joe Brown—see lizardfish
 John Dory, American..... 24
 Johnny, tidepool—see sculpin, tidepool
 jugfish..... 49
 jumprock, bigeye..... 17
 black..... 18
 greater..... 18
 striped..... 18
- K**
- kelpfish—see also greenling, kelp
 crevice..... 42
 giant..... 42
 island..... 42
 scarlet..... 42
 spotted..... 42
 striped..... 42

killifish, Ash Meadows	21	lampreys	6
banded	21	lance, American sand	41
bass—see killifish, striped		northern sand	41
bayou	21	Pacific sand	41
bluefin	22	lances, sand	41
California	21	lancetfish, longnose	13
common—see mummichog		Pacific	13
diamond	21	lancetfishes	13
goldspotted	21	lanternfishes	13
gulf	21	launce—see lance, sand	
least	22	lawyer—see burbot	
longnose	21	leatherfish—see filefish	
marsh	21	leatherjacket	30
Pacific—see killifish, California		lemonfish—see cobia	
Pahrump	21	ling—see burbot; hake	
plains	21	lingcod	38
pygmy	22	lionfish	36
Railroad Valley	21	liparid, continuous-finned—see snailfish, showy	
rainwater	22	Juan de Fuca—see snailfish, slipskin	
Rio Grande	21	prickly—see snailfish, prickly	
Seminole	21	ring-tailed—see snailfish, ringtail	
speckled	21	shore—see snailfish, tidepool	
spotfin	21	tadpole—see snailfish, tadpole	
striped	21	livebearers	22
Waccamaw	21	liza	46
White River	21	lizardfish, California	13
killifishes	21	inshore	13
king, silver—see louvar; tarpon		largescale	13
kingfish—see also croaker, white; mack- erel, king		offshore	13
gulf	31	red	13
northern	31	shortjaw	13
southern	31	smallscale	13
king-of-the-salmon	24	lizardfishes	13
king-whiting—see kingfish		loaches	18
kiver—see pumpkinseed		loche—see burbot	
kiyi	11	logperch	29
kokanee	11	logperch, Roanoke	29
see also salmon, sockeye		lookdown	30
		lord, brown Irish	39
		red Irish	39
		yellow Irish—see lord, brown Irish	
		louvar	35
		louvars	35
		lumpfish	41
		lumpfishes	41
		lumpsucker—see also lumpfish	
		Arctic	41
		Atlantic spiny	41
		leatherfin	41
		Newfoundland spiny	41
		Pacific spiny	41
		smooth	41
		M	
		machete	10
		mackerel, American — see mackerel, Pacific	

- mackerel, Atka 38
 Atlantic 35
 blue—see mackerel, Pacific
 bull's eye—see mackerel, chub
 chub 35
 Florida—see cero
 frigate 34
 green—see mackerel, Pacific
 horse—see mackerel, jack; tuna, bluefin
 jack 30
 king 35
 see also cero
 Monterey Spanish 35
 Pacific 35
 painted—see cero
 snake 34
 snap—see bluefish
 Spanish 35
 see also mackerel, jack
 thimble-eye—see mackerel, chub
 striped—see mackerel, Pacific
 mackerels 34
 snake 34
 mackinaw—see trout, lake
 mademoiselle—see perch, silver
 madtom, black 18
 brindled 19
 Carolina 18
 freckled 19
 least 19
 margined 19
 mountain 18
 orangefin 18
 slender 18
 speckled 19
 tadpole 18
 major, sergeant 33
 mako 7
 maneater—see shark, white
 man-of-war fish 45
 manta, Atlantic 9
 Pacific 9
 mantas 9
 margate 30
 black 30
 maria—see burbot
 marlin, barred—see marlin, striped
 black 35
 blue 35
 striped 35
 white 35
 marlin-spike 22
 marlinsucker 48
 maskinonge 12
 mayfish—see killifish, striped
 medusafish 45
 menhaden, Atlantic 10
 finescale 10
 gulf—see menhaden, largescale
 largescale 10
 midshipman, Atlantic 49
 northern 49
 slim 49
 miller's thumb—see sculpin, mottled
 minckfish 31
 minnow, bluntnose 16
 brassy 14
 bullhead 16
 cutlips 13
 cypress 14
 desert—see pupfish, desert
 Devils River 13
 fathead 16
 Kanawha 16
 Lake Eustis 21
 loach 17
 Ozark 13
 pugnose 16
 redfin—see shiner, redfin
 riffle 16
 roundnose 13
 sheepshead 21
 silverjaw 13
 silvery 14
 slim 16
 spottail—see shiner, spottail
 stargazing 16
 suckermouth 16
 tallowmouth—see stoneroller
 tonguetied 16
 variegated—see minnow, sheepshead
 minnows 13
 mobula, smoothtail 9
 spinetail 9
 mojarra, bigeye 30
 flagfin 30
 mottled 30
 slender 30
 spotfin 30
 striped 30
 yellowfin 30
 mojarras 30
 mola—see also sunfish, ocean
 sharptail 49
 slender 49
 molas 49
 molly, Amazon 22
 sailfin 22
 Molly Miller 43
 monkfish—see goosefish
 mooneye 12
 mooneyes 12
 moonfish—see also opah
 Atlantic 30
 Pacific 30
 moray, blackedge 19

moray, California.....	19
chain.....	19
goldentail.....	19
green.....	19
purplemouth.....	19
pygmy.....	19
reticulate.....	19
speckled—see moray, spotted	
spotted.....	19
viper.....	19
morays.....	19
mosquitofish.....	22
mossbunker—see menhaden, Atlantic	
mousefish—see sargassumfish	
muddler—see sculpin	
mudfish—see bowfin; mummichog; killi- fish, striped; molly, sailfin	
mudminnow, central.....	12
eastern.....	12
Olympic.....	12
mudminnows.....	12
mudsucker, longjaw.....	36
mullet, black.....	46
blueback—see liza	
common—see mullet, striped	
fantail.....	46
grey—see mullet, striped	
king—see goatfish, yellow	
mountain.....	46
redeye.....	46
silver—see mullet, white	
striped.....	46
white.....	46
mullet.....	46
mummichog.....	21
muskellunge.....	12
muttonfish—see pout, ocean	

N

needlefish, Atlantic.....	20
California.....	20
flat.....	20
Pacific—see needlefish, California	
redfin.....	20
needlefishes.....	20
nibblers.....	32
niggerfish—see coney	
night sergeant.....	33
numbfish—see ray, lesser Atlantic	

O

oarfish.....	24
oarfishes.....	24
oilfish.....	34
opah.....	23
opahs.....	23
opaleye.....	32

ouananiche.....	11
oysterfish—see toadfish, oyster	

P

paddlefish.....	9
paddlefishes.....	9
palometa.....	30
parrotfish, blue.....	34
bluelip.....	34
bucktooth.....	34
red—see parrotfish, stoplight	
emerald.....	34
green—see parrotfish, stoplight	
purple.....	34
queen.....	34
rainbow.....	34
redband.....	34
redfin.....	34
redtail.....	34
spotfin.....	34
stoplight.....	34
striped.....	34
parrotfishes.....	34
peamouth.....	14
pearleye, northern.....	13
pearleyes.....	13
pearlfish.....	45
pearlfishes.....	45
perch—see also seaperch; surfperch	
bay—see perch, black	
black.....	33
see also blacksmith; opaleye	
blue—see blacksmith; perch, black	
blue-eye—see opaleye	
button—see opaleye	
Catalina—see blacksmith; opaleye	
dwarf.....	33
dwarf sand.....	25
green—see opaleye; perch, yellow	
kelp.....	33
ocean.....	37
Pacific Ocean.....	37
pile.....	33
pirate.....	24
reef.....	33
Rio Grande.....	33
Sacramento.....	27
sand.....	25
shiner.....	33
silver.....	31
splittail—see seaperch, white	
stump—see sunfish, spotted	
tule.....	33
viviparous—see perch, tule	
white.....	25
see also perch, silver; drum, freshwater	
yellow.....	29
zebra.....	32

- perches 27
perches, pirate 24
permit 30
peto—see wahoo
pickerel—see also pike, northern; walleye
 blue—see pike, blue
 bulldog—see pickerel, redfin
 chain 12
 eastern—see pickerel, chain
 grass 12
 mud—see pickerel, grass
 redfin 12
 yellow—see walleye
pigfish 31
pike, blue 29
 northern 12
 Oregon—see squawfish, northern
 Sacramento—see squawfish, Sacramento
 sand—see sauger
pikeblenny, bluethroat 42
 orangethroat 42
pikeperch, blue—see pike, blue
pikeperch, yellow—see walleye
pikes 12
pilchard—see also sardine, Pacific
 false 10
 redear—see sardine, redear
pilot, cockeye—see beaugregory; sergeant major
pilotfish 30
pinfish 32
 longspine—see porgy, longspine
 spottail 32
pipefish, banded 23
 barred 23
 bay 23
 bull 23
 chain 23
 crested 23
 dusky 23
 fringed 23
 gulf 23
 insular 23
 kelp 23
 northern 23
 opossum 23
 pugnose 23
 sargassum 23
 shortfin 23
 snubnose 23
 swivelhead 23
 whitenose 23
pipefishes 23
plaice, Alaska 47
 American 47
 Canadian—see plaice, American
poacher, Atlantic 40
 beardless 40
 Bering 40
 bigeye 40
 blackfin 40
 blacktip 40
 bluespotted 41
 cutfin 41
 fourhorn 40
 longnose 40
 northern spearnose 40
 pricklebreast 40
 pygmy 40
 sawback 40
 southern spearnose 40
 stripefin 41
 sturgeon 40
 tubenose 40
 warty 40
poachers 40
poggie—see perch, shiner
pogy—see surfperch, redtail; menhaden, Atlantic
pollack—see pollock
pollock 22
 walleye 22
pollyfish—see parrotfish
pomfret 30
 bigscale 30
pomfrets 30
pompano 30
 African 29
 California—see pompano, Pacific
 common—see pompano
 gaftopsail 30
 see also palometa
 great—see permit
 Irish 30
 Pacific 45
 paloma 30
 round—see permit
pompanos 29
pompon—see margate, black
porbeagle 7
porcupinefish 49
porcupinefishes 49
porgies 32
porgy—see also scup; surfperch, redtail
 grass 32
 jolthead 32
 littlehead 32
 littlemouth—see porgy, sheepshead
 longspine 32
 Pacific 32
 red 32
 saucereye 32
 shad—see porgy, grass
 sheepshead 32
 silver 32

porgy, whitebone..... 32
 porkfish..... 30
 pout, ocean..... 44
 prickleback, black..... 44
 bluebarred..... 44
 crisscross..... 44
 mosshead..... 44
 ribbon..... 44
 pricklebacks..... 44
 priestfish—see rockfish, blue
 prowfish..... 45
 prowfishes..... 45
 puddingwife..... 34
 puffer, bandtail..... 49
 bullseye..... 49
 checked..... 49
 marbled..... 49
 northern..... 49
 oceanic..... 49
 sharpnose..... 49
 smooth..... 49
 southern..... 49
 puffers..... 49
 pug—see parrotfish, rainbow
 pumpkinseed..... 27
 pupfish, Comanche Springs..... 21
 desert..... 21
 Devils Hole..... 21
 Leon Springs..... 21
 Nevada..... 21
 Owens River..... 21
 Red River..... 21
 Salt Creek..... 21
 sea—see minnow, sheepshead

Q

queenfish..... 31
 quillback..... 17
 quillfish..... 44
 quillfishes..... 44

R

rabbitfish—see puffer, smooth; burrfish
 rabirubia—see snapper, yellowtail
 ragfish..... 45
 ragfishes..... 45
 rasher—see rockfish, vermilion
 ratfish..... 9
 rat-tails..... 22
 raven, sea..... 39
 ray, bat—see stingray, bat
 bullnose..... 9
 California butterfly..... 9
 cownose..... 9
 devil..... 9
 see also manta, Atlantic

giant butterfly—see ray, spiny
 butterfly
 lesser butterfly—see ray, smooth
 butterfly
 lesser electric..... 8
 Pacific electric..... 8
 round sting—see stingray, yellow
 smooth butterfly..... 9
 southern eagle..... 9
 spiny butterfly..... 9
 spotted eagle..... 9
 whip—see ray, bullnose
 rays, eagle..... 9
 electric..... 8
 razorfish, green..... 34
 pearly..... 34
 rosy..... 34
 redeye—see bass, rock
 redfish..... 37
 see also drum, red; sheepshead,
 California
 little—see salmon, sockeye
 redhorse, black..... 18
 blacktail..... 18
 Carolina..... 18
 copper..... 18
 eastern—see redhorse, northern
 golden..... 18
 gray..... 18
 greater..... 18
 Lahontan..... 17
 Neuse..... 18
 northern..... 18
 river..... 18
 shorthead..... 18
 silver..... 17
 smallfin..... 18
 suckermouth..... 18
 V-lip..... 18
 reef-fish, gray..... 33
 yellowtail..... 33
 remora..... 48
 spearfish..... 48
 remoras..... 48
 ribbonfish—see cutlassfish, Atlantic;
 jackknife-fish
 California—see king-of-the-salmon
 polka-dot..... 24
 scalloped..... 24
 ribbonfishes..... 24
 rig, sloop—see catfish, gafftopsail
 rivercarp, bluntnose—see carpsucker,
 highfin
 rivulus..... 22
 roach—see also chub; bluegill
 California..... 14
 robin, flying—see gurnard, flying
 rock-eel—see blenny, rock

- rockfish—see also bass, striped
 Alaskan red—see rockfish, black-throat
 aurora 37
 banded—see rockfish, tiger
 bigeye—see rockfish, sharpchin
 black 37
 see also grouper, black; rockfish, blue
 black-and-yellow 37
 blackbanded—see rockfish, tiger
 blackgill 37
 blackmouth 37
 blackthroat 37
 blue 37
 bronzespotted 37
 brown 37
 see also rockfish, calico
 calico 37
 canary 37
 China 37
 copper 37
 coral-red 37
 cow 37
 dusky 37
 fantail—see rockfish, canary
 flag 37
 gopher 37
 grass 37
 greenspotted 37
 greenstriped 37
 halfbanded 38
 honeycomb 38
 kelp 37
 lobejaw—see rockfish, splitnose
 longjaw—see perch, Pacific Ocean
 longspine channel 38
 northern 37
 olive 38
 oliveback—see rockfish, stripetail
 orange—see rockfish, canary
 orange-red—see rockfish, rosethorn
 orangespotted—see rockfish, quillback
 pink 37
 Puget Sound 37
 pygmy 38
 quillback 37
 rasphead 37
 redstripe 37
 rosethorn 37
 rosy 37
 sharpchin 38
 shortbelly 37
 shortspine channel 38
 silvergray 37
 slender—see rockfish, pygmy
 speckled 37
 see also rockfish, quillback
 spinycheeked—see rockfish, shortspine channel
 splitnose 37
 squarespot 37
 starry 37
 stripetail 37
 swordspine 37
 tiger 37
 turkey red—see rockfish, rasphead
 velvet—see gag
 vermilion 37
 whitebelly 38
 widow 37
 yellowbacked—see rockfish, copper
 yellowstripe—see rockfish, China
 yellowtail 37
 rockfishes 36
 rockhead 40
 rockling, fourbeard 22
 roller, sand 24
 ronco—see sailors choice
 ronquil, Alaskan 42
 northern 42
 rough 42
 smooth 42
 ronquils 42
 roosterfish 30
 rooter—see buffalo, black
 rosefish—see also redfish
 blackbelly 36
 rudd 17
 rudderfish—see also chub, Bermuda
 banded 30
 black—see barrelfish
 brown—see medusafish
 ruff, black 45
 run, tailor—see bluefish
 runner, blue 29
 hardtail—see runner, blue
 rainbow 30
- S**
- sablefish 38
 sablefishes 38
 sailfish, Atlantic 35
 Florida—see sailfish, Atlantic
 Pacific 35
 sailfish—see sculpin, sailfin
 sailors choice 31
 see also pinfish
 salema 31
 see also pinfish, spottail
 salmon, Atlantic 11
 black—see cobia
 blueback—see salmon, sockeye
 chinook 11
 chum 11

- salmon, coho 11
 dog—see salmon, chum
 fall—see salmon, chum
 humpback—see salmon, pink
 jack—see walleye
 king—see salmon, chinook
 lake Atlantic 11
 landlocked 11
 see also salmon, Atlantic
 medium red—see salmon, coho
 pink 11
 quinnat—see salmon, chinook
 red—see salmon, sockeye
 Sebago 11
 see also salmon, Atlantic
 silver—see salmon, coho
 sockeye 11
 spring—see salmon, chinook
 tyee—see salmon, chinook
 sanddab, longfin 46
 mottled—see sanddab, Pacific
 Pacific 46
 speckled 46
 sandfish—see also tilefish, sand
 belted 26
 Pacific 41
 sailfin 41
 sandfishes 41
 sand lance—see lance
 sardine, California—see sardine, Pacific
 Pacific 10
 redeal 10
 scaled 10
 Spanish 10
 sargassumfish 50
 sargo 30
 sauger 29
 saurel—see mackerel, jack
 sauries 20
 saury, Atlantic 20
 Pacific 20
 sawfish, largetooth 8
 smalltooth 8
 sawfishes 8
 scabbardfish 34
 scad, bigeye 30
 goggle-eye—see scad, bigeye
 mackerel 29
 Mexican 29
 rough 30
 round 29
 scads 29
 scamp 25
 schoolmaster 26
 scooter—see barracuda, Pacific
 scorpionfish, California 37
 finescale 37
 goosehead 36
 highfin 36
 hunchback 36
 longfin 36
 longsnout 36
 mushroom 37
 red 36
 reef 37
 scalyhead 36
 smoothhead 36
 spinycheek 36
 spotted 37
 scorpionfishes 36
 scotchman—see lingcod
 serod—see cod, Atlantic; haddock
 sculpin—see also scorpionfish, California
 Aleutian—see sculpin, coastrange
 Arctic 40
 Arctic staghorn 39
 bald 39
 banded 39
 blackfin 40
 bonehead 39
 buffalo 39
 bull 39
 calico 39
 California—see scorpionfish, Cali-
 fornia
 cirrated—see sculpin, fluffy
 coastrange 39
 Columbia 39
 coralline 38
 crested 39
 daddy—see sculpin, shorthorn
 darter 40
 see also sculpin, slim
 deepwater—see sculpin, fourhorn
 dusky 39
 eagle 39
 filamented—see sculpin, threadfin
 fluffy 40
 fourhorn 40
 fringed 39
 frogmouth 39
 giant marbled—see cabezon
 globe-headed—see sculpin, mosshead
 great 40
 grunt 40
 hookear 38
 Klamath Lake 39
 lavender 40
 lesser filamented—see sculpin, spotfin
 longfin 39
 longhorn 40
 long-rayed—see sculpin, threadfin
 mailed 40
 Malheur 39
 manacled 40
 marbled 39

- sculpin, marbled—see also cabezon
 margin'd 39
 mosshead 39
 mossy—see sculpin, calico
 mottled 39
 northern 39
 Pacific staghorn 40
 padded 39
 see also sculpin, bonehead
 pit-head 39
 Piute 39
 plumose—see sculpin, scalyhead
 prickly 39
 Puget Sound 40
 reticulate 39
 ribbed 40
 riffle 39
 rosy 40
 rosytip 39
 rough 39
 roughback 39
 roughcheek 39
 roughspine 40
 round-headed—see sculpin, mosshead
 roundnose—see sculpin, smoothhead
 saddleback 40
 sailfin 40
 scalyhead 39
 sharpnose 39
 shorthorn 40
 Shoshone 39
 silverspotted 39
 slender 39
 slim 40
 slimy 39
 smooth—see sculpin, Pacific staghorn
 smoothgum 40
 smoothhead 39
 snubnose 40
 soft 39
 spatulate 39
 spinyhead 39
 spinynose 39
 spoonhead 39
 spotfin 39
 spurcheek 39
 tadpole 40
 thornback 40
 threadfin 39
 tidepool 40
 torrent 39
 twohorn 39
 Wood River 39
 wooly 39
 see also sculpin, spinyhead
 yellowchin 39
 sculpins 38
 scup 32
 seabass, black—see bass, giant sea
 white 31
 seahorse, dwarf 23
 offshore 23
 northern—see seahorse, spotted
 Pacific 23
 spotted 23
 seahorses 23
 sea mink—see minkfish
 seaperch, barred—see surfperch, barred
 black—see perch, black
 blue—see seaperch, striped
 brown—see perch, kelp
 dusky—see perch, pile
 forktail—see perch, pile
 island 33
 pink 33
 rainbow 33
 rubberlip 33
 sharpnose 33
 shiner—see perch, shiner
 silver—see perch, pile
 striped 33
 walleye—see surfperch, walleye
 white 33
 yellowfin—see perch, pile
 sea-poacher, deep-pitted—see rockhead
 window-tailed—see poacher, northern
 spearnose
 searcher 42
 searobin, armored 38
 bandtail 38
 barred 38
 bighead 38
 blackfin 38
 blackwing 38
 bluespotted 38
 common—see searobin, northern
 horned 38
 leopard 38
 lumptail 38
 Mexican 38
 northern 38
 redwing—see searobin, striped
 shortfin 38
 shortwing 38
 sicklefin 38
 slenderhead 38
 spiny 38
 streamer 38
 striped 38
 searobins 38
 seasnail 41
 gelatinous 41
 Greenland 41
 striped 41
 seatrout, bastard—see seatrout, silver
 gray—see weakfish

seatrout, greenling—see greenling, kelp	
sand.....	31
silver.....	31
spotted.....	31
white—see seatrout, sand	
senmet, northern.....	45
southern.....	46
señorita.....	34
sergeant major.....	33
sergeant, night.....	33
rock—see sergeant, night	
sergeantfish—see cobia	
seven-eleven—see perch, shiner	
shad, Alabama.....	10
American.....	10
gizzard.....	10
golden—see herring, skipjack	
hickory.....	10
see also shad, gizzard	
Ohio.....	10
threadfin.....	10
white—see shad, American	
yellowfin.....	10
shanny.....	44
Arctic.....	44
radiated.....	44
shark, Atlantic angel.....	8
Atlantic sharpnose.....	7
basking.....	7
bay.....	7
bignose.....	7
blackfin—see shark, blacktip	
blacknose.....	7
blacktip.....	7
blue.....	7
see also shark, bonito	
bonito.....	7
bonnetnose—see bonnethead	
bramble.....	8
brown—see shark, sandbar	
brown cat.....	7
bull.....	7
bullhead—see shark, horn	
cat—see shark, leopard; shark, nurse	
cow—see shark, sixgill	
cub—see shark, bull	
dusky.....	7
false cat.....	7
filetail cat.....	7
finetooth.....	7
fox—see shark, thresher	
frill.....	6
great blue—see shark, blue	
great white—see shark, white	
Greenland.....	8
hammerhead—see hammerhead	
horn.....	6
kitefin.....	8
lemon.....	7
leopard.....	7
see also shark, tiger	
mackerel—see mako; shark, salmon	
maneater—see shark, white	
mud—see shark, sixgill	
narrowtooth.....	7
night.....	7
nurse.....	7
see also shark, Greenland	
Pacific angel.....	8
Pacific sharpnose.....	7
Pacific sleeper.....	8
pilot—see rudderfish, banded	
rabbit—see ratfish	
ridgeback—see shark, sickle	
roundnose.....	7
salmon.....	7
sand.....	6
sandbar.....	7
sevengill.....	6
shovelnose—see bonnethead; guitar-	
fish, shovelnose	
sickle.....	7
silky.....	7
sixgill.....	6
sleeper—see shark, Greenland	
smalltail.....	7
smooth-tooth—see shark, finetooth	
soupfin.....	7
spinner.....	7
spotfin—see shark, blacktip	
spotted cow—see shark, sevengill	
swell.....	7
swiveltail—see shark, thresher	
thresher.....	6
tiger.....	7
whale.....	7
white.....	7
whitetip.....	7
sharks, angel.....	8
cat.....	7
cow.....	6
dogfish.....	8
frill.....	6
hammerhead.....	7
horn.....	6
mackerel.....	6
nurse.....	7
requiem.....	7
sand.....	6
whale.....	7
sharksucker.....	48
whitefin.....	48
sheefish—see inconnu	
sheephead, California.....	34
sheepshead.....	32
shellcracker—see sunfish, redear	

- shellfish—see trunkfish
shiner, Alabama 15
 Altamaha 16
 Arkansas River 15
 bandfin 16
 bigeye 15
 bigmouth 15
 blackchin 15
 blacknose 15
 blackspot 15
 blacktail 16
 bleeding 16
 blue 15
 bluenose 16
 bluestripe 15
 bluntface 15
 bluntnose 16
 Brazos 15
 bridle 15
 broadstripe 15
 burrhead 14
 cherryfin 16
 Chihuahua 15
 chub 16
 coastal 16
 colorless 15
 comely 14
 common 15
 Coosa 16
 crescent 15
 dusky 15
 emerald 14
 fieryblack 16
 flagfin 16
 ghost 15
 golden 14
 greenfin 15
 greenhead 15
 highfin 14
 highscale 15
 ironcolor 15
 Kiamichi 15
 lake—see shiner, emerald
 longnose 15
 mimic 16
 mirror 16
 mountain 15
 New River 16
 Ocmulgee 15
 Ohoopce 15
 Ozark 15
 pallid 14
 pinewoods 15
 plains 15
 plateau 15
 pop-eye 14
 pretty 15
 Proserpine 16
 pugnose 14
 rainbow 15
 red 15
 redfin 16
 redlip 15
 Red River 15
 redside 17
 ribbon 15
 Rio Grande 15
 river 15
 rosefin 14
 rosyface 16
 rough 15
 Sabine 16
 saffron 16
 sailfin 15
 sand 16
 sandbar 16
 satinfin 14
 sharpnose 15
 silver 16
 silverband 15
 silverstripe 16
 smalleye 15
 spotfin 16
 spottail 15
 stargazing 16
 steelcolor 16
 swallowtail 16
 taillight 15
 Tamaulipas 15
 Tennessee 15
 Texas 14
 Topeka 16
 tricolor 16
 warpaint 15
 wedgespot 15
 weed 16
 white 14
 whitefin 15
 whitemouth 14
 whitetail 15
 yellow—see perch, shiner
 yellowfin 15
silverfish—see tarpon
silver-rag 45
silverside, Atlantic 46
 brook 46
 hardhead 46
 key 46
 Mississippi 46
 reef 46
 rough 46
 tidewater 46
 Waccamaw 46
silversides 46
silverspot—see sculpin, silverspotted
singingfish—see midshipman

skate, Alaska	8	smoothhound, brown	7
Aleutian	8	Florida	7
barndoor	8	gray	7
Bering	8	sicklefin	7
big	8	smoothtongue, California	12
black	8	snailfish, Bering	41
briar—see skate, clearnose		lobefin	41
California	8	longfin	41
clearnose	8	marbled	41
common—see skate, little		polka-dot	41
flathead	8	prickly	41
freckled	8	ribbon	41
little	8	ringtail	41
longnose	8	showy	41
ocellate	8	slimy	41
Pacific prickly—see skate, starry		slipskin	41
prickly—see skate, starry; skate, thorny		spotted	41
rosette	8	tadpole	41
rougetail	9	tidepool	41
roundel	9	snailfishes	41
sandpaper—see skate, black		snakeblenny, fourline	44
smooth	8	Pacific	44
spinytail	9	snakefish	13
spotted—see skate, winter		snapper—see also bluefish	
spreadfin	8	black	26
starry	9	blackfin	26
thorny	8	blue—see bluefish	
winter	8	Caribbean red	26
skates	8	Cuban—see snapper, cubera	
skilfish	38	cubera	26
skilletfish	48	dog	26
skipjack—see also herring, skipjack; tuna, skipjack; saury, Atlantic; silverside, brook; bluefish		glasseye	26
black	34	gray	26
wavyback	34	gunmouth—see snapper, blackfin	
skipper—see saury, Pacific		hog—see hogfish	
sleeper, bigmouth	35	lane	26
blue	35	mahogany	26
emerald	35	mangrove—see snapper, gray	
fat	35	mutton	26
masked	35	queen	26
spinycheek	35	red	26
spotted	35	see also rockfish, rasphead	
sleepers	35	silk	26
smelt, American	12	spot—see snapper, lane	
Arctic	12	vermilion	26
freshwater—see smelt, pond		yellowtail	26
longfin	12	snappers	26
night	12	snipefish, longspine	23
pond	12	slender	23
Sacramento	12	snipefishes	23
silver—see smelt, surf		snook	25
surf	12	Cuban—see snook, tarpon	
whitebait	12	little	24
smelts	12	swordspine	24
deepsea	12	tarpon	25
		snooks	24
		soapfish	25
		freckled	26

- soapfish, spotted 26
 soldierfish, bigeye 24
 blackbar 24
 cardinal 24
 soldierfishes 24
 sole, American—see hogchoker
 arrowtooth—see flounder, arrowtooth
 Bellingham—see sole, butter
 bigmouth 47
 broadfin—see sole, rock
 butter 47
 C-O 47
 curlfin 47
 deepsea 47
 Dover 47
 English 47
 see also sole, petrale
 fantail 47
 flathead 47
 fringe—see sole, sand
 gray—see flounder, winter; flounder,
 witch
 lemon—see flounder, winter; sole,
 English
 lined 47
 naked 47
 petrale 47
 pointednose—see sole, English
 rex 47
 rock 47
 rough—see plaice, American; sole,
 slender
 roundnose—see sole, petrale
 sand 47
 scalyfin—see sole, butter
 scrawled 47
 slender 47
 slippery—see sole, Dover
 yellowfin 47
 soles 47
 sourbelly—see saury, Pacific
 sourfish—see saury, Pacific
 spadefish, Atlantic 32
 Pacific 32
 spadefishes 32
 spearfish, longbill 35
 shortbill 35
 spikedace 14
 spikefishes 48
 spindace, Little Colorado 14
 splittail 16
 spoonbill—see paddlefish
 spot 31
 squaretail, bigeye 45
 smalleye 45
 squaretails 45
 squawfish, Colorado 16
 Columbia—see squawfish, northern
 common—see squawfish, northern
 northern 16
 Oregon—see squawfish, northern
 Sacramento 16
 Umpqua 16
 squeteague, gray—see weakfish
 sand—see seatrout, sand
 silver—see seatrout, silver
 spotted—see seatrout, spotted
 squirrelfish 24
 deepwater 24
 dusky 24
 longjaw 24
 longspine 24
 reef 24
 squirrelfishes 24
 stargazer, arrow 42
 freckled 42
 lancer 42
 northern 42
 saddle 42
 sand 42
 smooth 42
 southern 42
 stargazers 42
 sand 42
 starsnout, gray 40
 spinycheek 40
 stickleback, brook 23
 common—see stickleback, threespine
 fourspine 23
 ninespine 23
 threespine 23
 twospine 23
 sticklebacks 23
 stingaree—see stingray
 stingray, Atlantic 9
 bat 9
 bluntnose 9
 diamond 9
 pelagic 9
 rougtail 9
 round 9
 southern 9
 yellow 9
 stingrays 9
 stonecat 18
 stoneroller 13
 see also sucker, hog
 Mexican 13
 streaker—see bass, yellow
 studfish, northern 21
 southern 21
 stumpknocker—see sunfish, spotted
 sturgeon, Atlantic 9
 common—see sturgeon, Atlantic
 green 9
 lake 9

- sturgeon, Pacific—see sturgeon, white
 pallid 9
 river—see sturgeon, shovelnose
 shortnose 9
 shovelnose 9
 white 9
 sturgeons 9
 sucker, Alabama hog 17
 black—see sucker, northern hog
 blackfin 17
 blue 17
 bluehead 18
 bridgelip 17
 coarsescale—see sucker, largescale
 Columbia finescale—see sucker,
 bridgelip
 Columbia largescale—see sucker, large-
 scale
 Columbia smallscale—see sucker,
 bridgelip
 common—see sucker, white
 finescale—see sucker, longnose
 flannelmouth 17
 Gila 18
 green 18
 harelip 17
 highfin—see carpsucker, highfin
 humpback 18
 June 17
 Klamath largescale 17
 Klamath smallscale 17
 Lahontan 18
 largescale 17
 longnose 17
 Lost River 17
 Missouri—see sucker, blue
 Modoc 17
 mountain 18
 northern—see sucker, longnose
 northern hog 17
 razorback—see sucker, humpback
 Rio Grande 18
 river—see redhorse, northern
 Roanoke hog 17
 rustyside 18
 Sacramento 17
 Santa Ana 18
 shortnose 17
 Sonora 17
 spearfish—see marlinsucker
 spotted 17
 sturgeon—see sucker, longnose
 sweet—see chubsucker
 Tahoe 17
 torrent 18
 Utah 17
 Warner 17
 webug 17
 western—see sucker, Sacramento
 white 17
 White River 18
 suckerfish—see also remora
 slender 48
 white 48
 suckers 17
 sunfish, banded 27
 banded pygmy 27
 bantam 27
 blackbanded 27
 bluespotted 27
 common—see pumpkinseed
 dollar 27
 Everglades pygmy 27
 green 27
 longear 27
 mud 27
 ocean 49
 Okfenokee pygmy 27
 orangespotted 27
 peacock—see flier
 red—see sunfish, spotted
 redbreast 27
 redear 27
 round—see flier
 sharptail ocean—see mola, sharptail
 spotted 27
 yellowbelly—see sunfish, redbreast
 sunfishes 27
 surffish—see corbina, California; croaker,
 yellowfin
 surfperch, barred 33
 calico 33
 redtail 33
 silver 33
 spotfin 33
 walleye 33
 surfperches 33
 surgeon, ocean 34
 surgeonfish, gulf 34
 surgeonfishes 34
 swampfish 22
 sweeper, glassy 32
 sweepers 32
 swellfish—see puffer
 swiveltail—see shark, thresher
 swordfish 35
 broadbill—see swordfish
 swordfishes 35
- T**
- tai—see porgy, Pacific
 tambor—see rockfish, rasphead
 tang, blue 34
 ocean—see surgeon, ocean
 tarpon 10
 tarpons 10

- tattler 25
 tautog 34
 taylor—see bluefish
 tench 17
 tenpounder—see ladyfish; machete
 tetra, Mexican 13
 tetras 13
 thornback 8
 thornhead—see rockfish, channel
 threadfin, Atlantic 46
 Pacific 46
 yellow 46
 threadfins 46
 threadfish—see pompano, African
 thresher, bigeye 6
 tiger, sand—see shark, sand
 tilefish 29
 blackline 29
 sand 29
 tilefishes 29
 timucu 20
 toadfish, gulf 49
 leopard 49
 oyster 49
 toadfishes 49
 tobacco box—see skate, little
 togue—see trout, lake
 toly, ocean—see durgon, black
 tomcod—see also hake, southern
 Atlantic 22
 Pacific 22
 tomtate 30
 tonguefish, blackcheek 48
 California 48
 deepwater 48
 largescale 48
 longtail 48
 northern 48
 offshore 48
 pygmy 48
 spottail 48
 spottedfin 48
 tonguefishes 48
 topminnow—see also mosquitofish
 banded 21
 blackspotted 21
 blackstripe 21
 Gila 22
 golden 21
 plains 21
 saltmarsh 21
 starhead 21
 whiteline 21
 topsmelt 46
 torpedo, Atlantic 8
 Pacific—see ray, Pacific electric
 treefish 38
 triggerfish, common—see triggerfish, gray
 finescale 48
 gray 48
 ocean 48
 queen 48
 redtail 49
 rough 48
 sargassum 49
 spotted 48
 triggerfishes 48
 tripletail 26
 tripletails 26
 trout, bastard—see seatrout, silver
 blackspotted—see trout, cutthroat
 blueback 12
 brook 12
 brown 12
 bull—see Dolly Varden
 cutthroat 11
 Eastern brook—see trout, brook
 Gila 11
 golden 11
 grey—see trout, lake; weakfish
 Kamloops—see trout, rainbow
 lake 12
 Mackinaw—see trout, lake
 mountain—see trout, cutthroat
 Quebec red 12
 rainbow 11
 rock—see greenling, kelp
 sand—see seatrout, sand
 sea—see also greenling, kelp; sea-
 trout, spotted
 speckled—see trout, brook
 steelhead 11
 see also trout, rainbow
 summer—see weakfish
 Sunapee 12
 see also char, Arctic
 white—see char, Arctic; seatrout, sand
 winter—see seatrout, spotted
 trout-perch 24
 Columbia—see sand roller
 trout-perches 24
 trouts 11
 trumpetfish 23
 trumpetfishes 23
 trunkfish 49
 horned—see cowfish
 smooth 49
 spiny 49
 spotted 49
 trunkfishes 49
 tube-eye 24
 tube-eyes 24
 tube-snout 23
 tube-snouts 23

- tuna, Atlantic—see tuna, bluefin
 bigeye 35
 blackfin 35
 bluefin 35
 little 34
 skipjack 34
 striped—see tuna, skipjack
 yellowfin 35
 tunas 34
 turbot, California—see sole, curlfin
 C-O—see sole, C-O
 common—see triggerfish, gray
 curlfin—see sole, curlfin
 diamond 47
 hornyhead 47
 Nassau—see triggerfish, queen
 sharpridge—see turbot, hornyhead
 spotted 47
 tyee—see salmon, chinook
- V**
- Varden, Dolly 12
- W**
- wahoo 34
 snake—see wahoo
 walleye 29
 warmouth 27
 Warsaw—see grouper, Warsaw
 weakfish 31
 spotted—see seatrout, spotted
 weatherfish, oriental 18
 wenchman 26
 whalesucker 48
 whiff, bay 46
 horned 46
 spotted 46
 whipray—see ray, spotted eagle
 whitebait—see silverside
 whitefish—see also wolffish, Atlantic
 Bear Lake 11
 Bonneville 11
 broad 11
 humpback 11
 lake 11
 Menominee—see whitefish, round
 mountain 11
 ocean 29
 pygmy 11
 Rocky Mountain—see whitefish,
 mountain
 round 11
 whitefishes 11
 whiting—see also hake, silver; pollock,
 walleye
 California—see corbina, California
 sand—see windowpane
 windowpane 47
 wolf-eel 43
 wolffish—see also lancetfish, Pacific
 Atlantic 43
 Bering 43
 northern 43
 spotted 43
 wolffishes 43
 wormfish, pink 36
 pugjaw 36
 wormfishes 36
 woundfin 16
 wrasse, blackear 34
 clown 34
 creole 33
 dwarf 33
 greenband 33
 painted 33
 rock 34
 yellowhead 33
 wrasses 33
 wreckfish 25
 wrymouth 44
 dwarf 44
 giant 44
- Y**
- Y-blenny 44
 yellowtail 30
 see also flounder, yellowtail; snap-
 per, yellowtail; perch, silver
 yowler—see pout, ocean



PART III

Index to Scientific Names

Names of classes, orders, and families appear in roman; those of genera and species in italics.

A			
<i>Ablennes</i>	20	<i>Chilomycterus</i>	49
<i>Abudefduf</i>	33	<i>Elops</i>	10
<i>abyssicola</i> , <i>Prosopium</i>	11	<i>Gambusia</i>	22
<i>Acantharchus</i>	27	<i>Hirundichthys</i>	21
<i>Acanthemblemaria</i>	42	<i>agassizi</i> , <i>Chologaster</i>	22
<i>acanthias</i> , <i>Squalus</i>	8	<i>Scorpaena</i>	36
<i>Acanthocybium</i>	34	<i>aggregata</i> , <i>Cymatogaster</i>	33
<i>Acanthopterygii</i>	24	Agnatha	6
<i>Acanthostracion</i> —see <i>Lactophrys</i>		Agonidae	40
Acanthuridae	34	<i>Agonopsis</i>	40
<i>Acanthurus</i>	34	<i>Agonostomus</i>	46
<i>Achirus</i>	47	<i>Agonus</i>	40
<i>Acipenser</i>	9	<i>Agosia</i>	13
Acipenseridae	9	<i>aguabonita</i> , <i>Salmo</i>	11
Acipenseriformes	9	<i>Ahlia</i>	19
<i>acipenserinus</i> , <i>Agonus</i>	40	<i>alabamae</i> , <i>Alosa</i>	10
<i>ackleyi</i> , <i>Raja</i>	8	<i>alalunga</i> , <i>Thunnus</i>	35
<i>Acrocheilus</i>	13	<i>alascana</i> , <i>Asterotheca</i>	40
<i>acronotus</i> , <i>Carcharhinus</i>	7	<i>alascanus</i> , <i>Sebastolobus</i>	38
<i>acros</i> , <i>Eremichthys</i>	13	<i>alatus</i> , <i>Prionotus</i>	38
<i>aculeatus</i> , <i>Gasterosteus</i>	23	<i>albacares</i> , <i>Thunnus</i>	35
<i>Halieutichthys</i>	50	<i>albeolus</i> , <i>Notropis</i>	14
<i>Prognathodes</i>	32	<i>albescens</i> , <i>Remorina</i>	48
<i>Stenotomus</i> —see <i>chrysops</i> , <i>S.</i>		<i>albicans</i> , <i>Istiophorus</i>	35
<i>acuminatus</i> , <i>Equetus</i>	31	<i>albida</i> , <i>Makaira</i>	35
<i>Etrumeus</i>	10	<i>albigutta</i> , <i>Kathetostoma</i>	42
<i>Myrichthys</i>	19	<i>Paralichthys</i>	47
<i>acus</i> , <i>Strongylura</i>	20	<i>albirostris</i> , <i>Corythoichthys</i>	23
<i>acuticeps</i> , <i>Clinocottus</i>	39	<i>albolineatus</i> , <i>Fundulus</i>	21
<i>Etheostoma</i>	27	<i>alborus</i> , <i>Notropis</i>	14
<i>acutus</i> , <i>Fodiator</i>	21	<i>Albula</i>	10
<i>Acyrtops</i>	48	Albulidae	10
<i>Adinia</i>	21	<i>album</i> , <i>Haemulon</i>	30
<i>adscensionis</i> , <i>Epinephelus</i>	25	<i>albus</i> , <i>Scaphirhynchus</i>	9
<i>adspersus</i> , <i>Tautoglabrus</i>	34	<i>Alectis</i>	29
<i>acglefinus</i> , <i>Melanogrammus</i>	22	<i>alepidota</i> , <i>Chaenopsis</i>	42
<i>acneus</i> , <i>Myoxocephalus</i>	40	<i>alepidotus</i> , <i>Peprilus</i>	45
<i>aenigmaticus</i> , <i>Icosteus</i>	45	Alepisauridae	13
<i>aepypticra</i> , <i>Lampetra</i>	6	<i>Alepisaurus</i>	13
<i>activalis</i> , <i>Alosa</i>	10	<i>aleutensis</i> , <i>Lyconectes</i>	44
<i>Hybopsis</i>	14	<i>aleutianus</i> , <i>Sebastodes</i>	37
<i>Aetobatus</i>	9	<i>aleutica</i> , <i>Raja</i>	8
<i>afer</i> , <i>Alphestes</i>	25	<i>aleuticus</i> , <i>Cottus</i>	39
<i>affinis</i> , <i>Atherinops</i>	46	<i>Allanetta</i>	46
		<i>alleni</i> , <i>Rathbunella</i>	42
		<i>alletteratus</i> , <i>Euthynnus</i>	34

<i>Alloclinus</i>	42	<i>anatirostris, Bembrops</i>	42
<i>Allolumpenus</i>	44	<i>Anchoa</i>	11
<i>Allosmerus</i>	12	<i>anchovia, Sardinella</i>	10
<i>Allotriognathi</i>	23	<i>Anchoviella</i>	11
<i>Alopias</i>	6	<i>Ancylopsetta</i>	46
<i>Alosa</i>	10	<i>andersoni, Pristipomoides</i>	26
<i>alosoides, Hiodon</i>	12	<i>Anguilla</i>	19
<i>alpenae, Coregonus</i>	11	<i>anguillicaudatus, Misgurnus</i>	18
<i>Alphestes</i>	25	Anguillidae.....	19
<i>alpinus, Salvelinus</i>	12	Anguilliformes.....	19
<i>alta, Pristigenys</i>	26	<i>anguineum, Chlamydoselachus</i>	6
<i>altavela, Gymnura</i>	9	<i>angustirostris, Tetrapturus</i>	35
<i>altima, Carcharhinus</i>	7	<i>Anisotremus</i>	30
<i>altipinnis, Notropis</i>	14	<i>anisurum, Morostoma</i>	17
<i>altivelis, Sebastolobus</i>	38	<i>annae, Cottus</i>	39
<i>alutaceus, Acrocheilus</i>	13	<i>annularis, Pomoxis</i>	27
<i>Alutera</i>	48	<i>Prionodes</i>	25
<i>alutus, Apogon</i>	26	<i>annulatus, Sphaeroides</i>	49
<i>Sebastodes</i>	37	<i>anogenus, Notropis</i>	14
<i>amabilis, Notropis</i>	14	<i>anomalum, Campostoma</i>	13
<i>Ambloplites</i>	27	<i>Anoplagonus</i>	40
<i>amblops, Hybopsis</i>	14	<i>Anoplarchus</i>	44
Amblyopsidae.....	22	<i>Anoplopoma</i>	38
<i>Amblyopsis</i>	22	Anoplopomatidae.....	38
<i>amblyrhynchus, Hemicarant</i>	30	Antennariidae.....	50
<i>Ameiurus</i> —see <i>Ictalurus</i>		<i>Antennarius</i>	50
<i>americana, Dasyatis</i>	9	<i>antennatus, Chilomycterus</i>	49
<i>americanus, Ammodytes</i>	41	<i>Anthias</i>	25
<i>Esox americanus</i>	12	<i>Antigonia</i>	24
<i>Hemipteris</i>	39	<i>antillarum, Chilomycterus</i>	49
<i>Istiophorus</i> —see <i>albicans, I.</i>		<i>Monolene</i>	47
<i>Lophius</i>	49	<i>Apeltes</i>	23
<i>Macrozoarces</i>	44	<i>aphododera, Dysomma</i>	20
<i>Menticirrhus</i>	31	Aphredoderidae.....	24
<i>Polyprion</i>	25	<i>Aphredoderus</i>	24
<i>Pseudopleuronectes</i>	47	<i>Aplodinotus</i>	31
<i>Roccus</i>	25	Apodes.....	19
<i>Amia</i>	10	<i>Apodichthys</i>	43
Amiidae.....	10	<i>apodus, Lutjanus</i>	26
Amiiformes.....	10	<i>Apogon</i>	26
<i>Ammocrypta</i>	27	Apogonidae.....	26
<i>Ammodytes</i>	41	<i>approximans, Polydactylus</i>	46
Ammodytidae.....	41	<i>Aprionodon</i>	7
<i>amnis, Notropis</i>	14	<i>Apristurus</i>	7
<i>amoenus, Notropis</i>	14	<i>Aprodon</i>	44
<i>Amphiodon</i> —see <i>Hiodon</i>		<i>Apsilus</i>	26
<i>Amphistichus</i>	33	<i>Aptocyclus</i>	41
Anacanthini.....	22	<i>aquosus, Scopthalmus</i>	47
<i>anale, Hyperprosopon</i>	33	<i>Archoplites</i>	27
<i>analis, Clinocottus</i>	39	<i>Archosargus</i>	32
<i>Lutjanus</i>	26	<i>arcticus, Thymallus</i>	12
<i>analogus, Epinephelus</i>	25	<i>Trachipterus</i>	24
<i>analostanus, Notropis</i>	14	<i>arctifrons, Calamus</i>	32
<i>Anarchias</i>	19	<i>Citharichthys</i>	46
Anarhichadidae.....	43	<i>Arctogadus</i>	22
<i>Anarhichas</i>	43	<i>Arctoscopus</i>	41
<i>Anarrhichthys</i>	43	<i>arctus, Syngnathus</i>	23

- arcuatus*, *Pomacanthus* 32
ardens, *Catostomus* 17
Notropis 14
arenarius, *Cynoscion* 31
arenatus, *Priacanthus* 26
Rypticus 26
argentea, *Sphyaena* 45
argenteum, *Hyperprosopon* 33
argenteus, *Amphistichus* 33
Diplodus 32
Eucinostomus 30
Argentina 12
Argentiidae 12
argentissimus, *Plagopterus* 16
argi, *Centropyge* 32
Argyrciosus—see *Selene*
Ariidae 18
ariommum, *Moxostoma* 17
ariommus, *Notropis* 14
Arioscopus 42
Ariosoma 19
armatus, *Leptocottus* 40
Artediellus 38
artedii, *Coregonus* 11
Artedius 38
Ascelichthys 39
ascensionis, *Holocentrus* 24
Asemichthys 39
asper, *Cottus* 39
aspera, *Acanthemblemaria* 42
Limanda 47
asperifrons, *Notropis* 14
asperilinguis, *Anthias* 25
asperrimus, *Cottus* 39
Aspicottus—see *Enophrys*
Aspidophoroides 40
asprella, *Ammocrypta* 27
asprellus, *Radulinus* 40
asprigene, *Etheostoma* 27
Asterotheca 40
Astronotus 33
Astroscopus 42
Astyanax 13
Atheresthes 47
Atherinidae 46
atherinoides, *Chriodorus* 20
Notropis 14
Atherinomorus 46
Atherinops 46
Atherinopsis 46
atinga, *Chilomycterus* 49
atlantica, *Emblemaria* 42
Megalops 10
Scorpaena 36
atlanticus, *Liparis* 41
Ophioblennius 43
Tetragonurus 45
Thunnus 35
atraria, *Gila* 13
atratalus, *Rhinichthys* 16
atricauda, *Symphodus* 48
atripes, *Phanerodon* 33
atripinne, *Etheostoma* 27
Moxostoma 17
atrocaudalis, *Notropis* 15
atromaculatus, *Semotilus* 17
atropurpureus, *Xiphister* 44
atrovirens, *Sebastodes* 37
audax, *Makaira* 35
audens, *Menidia* 46
auliscus, *Syngnathus* 23
Aulorhynchidae 23
Aulorhynchus 23
Aulostomidae 23
Aulostomus 23
aurantiaca, *Percina* 29
auratus, *Carassius* 13
Mullus 31
aureolum, *Moxostoma*—see *macrolepidotum*, *M.*
aureorubens, *Pronotogrammus* 25
aureus, *Pomacanthus* 32
auriculatus, *Sebastodes* 37
aurifrons, *Opisthognathus* 41
auritus, *Lepomis* 27
aurofrenatum, *Sparisoma* 34
aurolineatum, *Bathystoma* 30
aurolineatus, *Apogon* 26
aurora, *Micrometrus* 33
Sebastodes 37
aurorubens, *Rhomboplites* 26
australis, *Remora* 48
autumnalis, *Coregonus* 11
Auxis 34
avalonis, *Antennarius* 50
averruncus, *Kathetostoma* 42
Awaous 35
axillare, *Sparisoma* 34
aya, *Chaetodon* 32
ayresi, *Lampetra* 6
Ayresia—see *Chromis*
azurea, *Hermosilla* 32
azureus, *Carcharhinus* 7
- B**
- Bagre* 18
bahianus, *Acanthurus* 34
baileyi, *Crenichthys* 21
Notropis 15
bairdi, *Callionymus* 42
Cottus 39
Nezumia 22
Notropis 15
Bairdiella 31

- bajonado, Calamus* 32
balao, Hemiramphus 20
baldwini, Prionodes 25
Balistes 48
 Balistidae 48
balteatus, Richardsonius 17
barbata, Brotula 45
 Pallasina 40
barbatum, Lyconema 44
Barbulifer 35
barracuda, Sphyaena 45
barratti, Etheostoma 27
bartholomaei, Caranx 29
bartoni, Aspidophoroides 40
Bascanichthys 19
BathYGONUS 40
bathybius, Embassichthys 47
Bathygobius 35
 Bathylagidae 12
Bathymaster 42
 Bathymasteridae 42
bathyphilus, Halichoeres 33
Bathystoma 30
 Batoidei 8
 Batrachoididae 49
 Batrachoidiformes 49
bdellium, Ichthyomyzon 6
beani, Ammocrypta 27
 Prionotus 38
beldingi, Cottus 39
Bellator 38
bellica, Hybopsis 14
bellus, Notropis 15
belone, Tetrapturus 35
 Belonidae 20
 Beloniformes 20
Bembrops 42
bendirei, Cottus 39
bergi, Scorpaena 36
beringiana, Polypera 41
bermudensis, Carapus 45
 Holacanthus 32
 Hypleurochilus 43
 Beryciformes 24
 Berycoidei 24
beryllina, Menidia 46
beryllinus, Acyrtops 48
beta, Opsanus 49
bicaudalis, Lactophrys 49
bicolor, Gila 13
 Siphateles 17
bicornis, Icelus 39
bifasciatum, Thalassoma 34
bifrenatus, Notropis 15
biguttata, Hybopsis 14
bilinearis, Merluccius 22
bilineata, Lepidopsetta 47
bilobus, Blepsias 39
binocularata, Raja 8
binotatus, Apogon 26
bipinnulatus, Elagatis 30
birostris, Manta 9
bison, Enophrys 39
bivittatum, Diplectrum 25
bivittatus, Halichoeres 33
blackfordi, Lutjanus 26
blanchardi, Neoclinus 43
 Blenniidae 43
blennioides, Etheostoma 27
Blennius 43
blennius, Etheostoma 27
 Notropis 15
Blepsias 39
Bodianus 33
boeckii, Callionymus 42
boleoides, Radulinus 40
Boleosoma—see *Etheostoma*
boleosoma, Gobionellus 36
Bollmannia 35
bonaci, Mycteroperca 25
bonariense, Haemulon 30
bonasus, Rhinoptera 9
boops, Notropis 15
borealis, Icelinus 39
 Sphyaena 45
Boreogadus 22
bosci, Gobiosoma 36
bosquianus, Chasmodes 43
 Bothidae 46
Bothragonus 40
Bothus 46
bovinus, Cyprinodon 21
brachycephalus, Corythoichthys 23
brachychir, Bellator 38
Brachygenys 30
Brachyistiis 33
brachyptera, Remora 48
brachypterus, Parexocoetus 21
brachysomus, Calamus 32
Brama 30
 Bramidae 30
 Branchiostegidae 29
Brannerella 42
brasiliensis, Hemiramphus 20
 Narcine 8
 Saurida 13
 Scorpaena 36
braytoni, Notropis 15
brazosensis, Notropis 15
brederi, Pseudogrammus 25
breviceps, Moxostoma 18
brevipes, Lycodes 44
brevirostris, Chasmistes 17
 Negaprion 7

- brevirostrum, Acipenser* 9
brevispinis, Sebastodes 37
Brevoortia 10
Brosme 22
brosme, Brosme 22
Brosmophycis 45
Brotula 45
Brotulidae 45
broussonneti, Gobioides 36
brucus, Echinorhinus 8
brunneus, Apristurus 7
bubalus, Ictiobus 17
buccanella, Lutjanus 26
buccata, Ericymba 13
buccula, Notropis 15
buchanani, Notropis 15
bullisi, Holocentrus 24
burchami, Icelinus 39
- C
- caballus, Caranx* 29
Caecula 19
caeruleofasciatus, Bathymaster 42
caeruleum, Etheostoma 27
caeruleus, Notropis 15
cahni, Hybopsis 14
Calamus 32
calamus, Calamus 32
calcarata, Scorpaena 36
californica, Oxyjulis 34
Squatina 8
Torpedo 8
californicus, Cypselurus 20
Mustelus 7
Myliobatis 9
Paralichthys 47
californiensis, Atherinopsis 46
Medialuna 32
Syngnathus 23
Typhlogobius 36
Xenistius 31
Callechelys 19
Callionymidae 42
Callionymus 42
callisema, Notropis 15
callistiis, Notropis 15
callitaenia, Notropis 15
calliurus, Callionymus 42
Ioglossus 35
callyodon, Liparis 41
calva, Amia 10
Calycilepidotus—see *Hemilepidotus*
campechanus, Lutjanus 26
Campostoma 13
camurum, Etheostoma 27
camurus, Notropis 15
canadense, Stizostedion 29
canadum, Rachycentron 29
canis, Mustelus 7
Cantherines 48
Canthidermis 48
Canthigaster 49
capellei, Lophotus 24
capistratus, Chaetodon 32
caprinus, Stenotomus 32
capriscus, Balistes 48
caprodes, Percina 29
Caproidae 24
capros, Antigonina 24
Carangidae 29
Caranx 29
Carapidae 45
Carapus 45
Carassius 13
carbonarium, Haemulon 30
Carcharhinidae 7
Carcharhinus 7
Carcharias 6
carcharias, Carcharodon 7
Carchariidae 6
Carcharodon 7
Careproctus 41
caribbaea, Saurida 13
caribbaeus, Scorpaenodes 37
carinatum, Moxostoma 18
carnatus, Sebastodes 37
carolinae, Cottus 39
carolinensis, Balistes—see *capriscus, B.*
carolinus, Prionotus 38
Trachinotus 30
carpio, Carpiodes 17
Cyprinus 13
Floridichthys 21
Carpiodes 17
carri, Microgobius 36
caryi, Hypsurus 33
castaneus, Ichthyomyzon 6
castor, Pontinus 36
catalinensis, Rhynchocymba 19
cataractae, Rhinichthys 16
catenata, Echidna 19
catenatus, Fundulus 21
Catostomidae 17
Catostomus 17
catostomus, Catostomus 17
Phenacobius 16
catus, Ictalurus 18
caudalis, Halichoeres 33
caudilimbatus, Conger 19
Caulolatilus 29
caurinus, Mylocheilus 14
Sebastodes 37
cavalla, Scomberomorus 35
cavifrons, Ambloplites 27

<i>Icclinus</i>	39	<i>Chloroscombrus</i>	29
<i>cayorum</i> , <i>Anchoa</i>	11	<i>chlorosomum</i> , <i>Etheostoma</i>	27
<i>Ogilbia</i>	45	<i>chlorostictus</i> , <i>Sebastodes</i>	37
<i>Cebidichthys</i>	44	<i>Chologaster</i>	22
Centrarchidae.....	27	Chondrichthyes.....	6
<i>Centrarchus</i>	27	Chondrostei.....	9
Centriscidae.....	23	<i>chordatus</i> , <i>Stylephorus</i>	24
<i>Centrolophus</i>	45	<i>Chriodorus</i>	20
Centropomidae.....	24	<i>Chromis</i>	33
<i>Centropomus</i>	24	<i>Chrosomus</i>	13
<i>Centropristes</i>	25	<i>chrosomus</i> , <i>Notropis</i>	15
<i>Centropyge</i>	32	<i>chrysargyrea</i> , <i>Brachygenys</i>	30
<i>Centroscyllium</i>	8	<i>chrysochloris</i> , <i>Alosa</i>	10
<i>centoura</i> , <i>Dasyatis</i>	9	<i>chrysogaster</i> , <i>Agosia</i>	13
<i>cepedianum</i> , <i>Dorosoma</i>	10	<i>chrysomelas</i> , <i>Sebastodes</i>	37
<i>Cephalopholis</i>	25	<i>chrysops</i> , <i>Roccus</i>	26
<i>Cephaloscyllium</i>	7	<i>Stenotomus</i>	32
<i>cephalus</i> , <i>Mugil</i>	46	<i>chrysopterus</i> , <i>Sparisoma</i>	34
<i>cerasinus</i> , <i>Notropis</i>	15	<i>chrysopterus</i> , <i>Orthopristis</i>	31
<i>Ceratacanthus</i> —see <i>Alutera</i>		<i>chrysotus</i> , <i>Fundulus</i>	21
<i>cerdale</i> , <i>Scytalina</i>	44	<i>chrysura</i> , <i>Bairdiella</i>	31
<i>cervinum</i> , <i>Lepophidium</i>	45	<i>chrysurus</i> , <i>Chloroscombrus</i>	29
<i>Moxostoma</i>	18	<i>Microspathodon</i>	33
<i>Cetengraulis</i>	11	<i>Ocyurus</i>	26
<i>Cetorhinus</i>	7	<i>chuss</i> , <i>Urophycis</i>	22
<i>ceuthoecus</i> , <i>Barbulifer</i>	35	<i>Cichlasoma</i>	33
<i>Chaenobryttus</i>	27	Cichlidae.....	33
<i>Chaenopsis</i>	42	<i>ciliaris</i> , <i>Holacanthus</i>	32
<i>Chaetodipterus</i>	32	<i>ciliatus</i> , <i>Monacanthus</i>	49
<i>Chaetodon</i>	32	<i>Sebastodes</i>	37
<i>chaetodon</i> , <i>Enneacanthus</i>	27	<i>cimbrius</i> , <i>Enchelyopus</i>	22
Chaetodontidae.....	32	<i>cinereum</i> , <i>Etheostoma</i>	27
<i>chalcogrammus</i> , <i>Theragra</i>	22	<i>cinereus</i> , <i>Gerres</i>	30
<i>chalybaeus</i> , <i>Notropis</i>	15	<i>cingulatus</i> , <i>Fundulus</i>	21
<i>chamaeleonticeps</i> , <i>Lopholatilus</i>	29	<i>Paraclinus</i>	43
Characidae.....	13	<i>cirratum</i> , <i>Ginglymostoma</i>	7
<i>Chascanopsetta</i>	46	<i>cirratus</i> , <i>Urophycis</i>	22
<i>Chasmistes</i>	17	<i>cirrhosus</i> , <i>Blepsias</i>	39
<i>Chasmodes</i>	43	<i>Citharichthys</i>	46
<i>Cheilotrema</i>	31	<i>civitatus</i> , <i>Symphurus</i>	48
<i>chesteri</i> , <i>Phycis</i>	22	<i>clara</i> , <i>Ammocrypta</i>	27
<i>chihuahua</i> , <i>Notropis</i>	15	<i>clarki</i> , <i>Pantosteus</i>	18
<i>chiliensis</i> , <i>Sarda</i>	35	<i>Salmo</i>	11
<i>chiliticus</i> , <i>Notropis</i>	15	<i>clathratus</i> , <i>Paralabrax</i>	25
<i>Chilomycterus</i>	49	<i>Clepticus</i>	33
Chimaerae.....	9	<i>Clevelandia</i>	35
Chimaeridae.....	9	Clinidae.....	42
Chimaeriformes.....	9	<i>Clinocottus</i>	39
<i>Chirolophus</i>	44	<i>Clinostomus</i>	13
<i>chirurgus</i> , <i>Acanthurus</i>	34	<i>Clupea</i>	10
<i>chirus</i> , <i>Phytichthys</i>	44	<i>clupeaformis</i> , <i>Coregonus</i>	11
<i>Chitonotus</i>	39	Clupeidae.....	10
<i>chittendeni</i> , <i>Cyclosetta</i>	46	Clupeiformes.....	10
Chlamydoselachidae.....	6	<i>clupeola</i> , <i>Harengula</i>	10
<i>Chlamydoselachus</i>	6	Cobitidae.....	18
<i>chloristiis</i> , <i>Notropis</i>	15	<i>cobitis</i> , <i>Tiaroga</i>	17
<i>chlorocephalus</i> , <i>Notropis</i>	15	<i>coccogenis</i> , <i>Notropis</i>	15

<i>coelestinus</i> , <i>Scarus</i>	34	<i>crassa</i> , <i>Percina</i>	29
<i>coenosus</i> , <i>Pleuronichthys</i>	47	<i>crassicauda</i> , <i>Gila</i>	13
<i>coeruleus</i> , <i>Acanthurus</i>	34	<i>creaseri</i> , <i>Artedius</i>	39
<i>Scarus</i>	34	<i>Crenichthys</i>	21
<i>cognatus</i> , <i>Cottus</i>	39	<i>crinigerus</i> , <i>Micrognathus</i>	23
<i>colburni</i> , <i>Seriola</i>	30	<i>crinitus</i> , <i>Alectis</i>	29
<i>colias</i> , <i>Scomber</i>	35	<i>Micrognathus</i>	23
<i>collapsum</i> , <i>Moxostoma</i>	18	<i>cristatus</i> , <i>Blennius</i>	43
<i>colliei</i> , <i>Hydrolagus</i>	9	<i>Trachipterus</i>	24
<i>collis</i> , <i>Etheostoma</i>	27	<i>Cristivomer</i> —see <i>Salvelinus</i>	
<i>Cololabis</i>	20	<i>crocro</i> , <i>Pomadasys</i>	31
<i>columbianus</i> , <i>Catostomus</i>	17	<i>croicensis</i> , <i>Scarus</i>	34
<i>comatus</i> , <i>Cypselurus</i>	20	<i>cromis</i> , <i>Pogonias</i>	31
<i>combatia</i> , <i>Antigonia</i>	24	<i>crossotus</i> , <i>Etropus</i>	46
<i>commersoni</i> , <i>Catostomus</i>	17	<i>crotalina</i> , <i>Embryx</i>	44
<i>compressa</i> , <i>Anchoa</i>	11	<i>cruentatum</i> , <i>Petrometopon</i>	25
<i>conchorum</i> , <i>Menidia</i>	46	<i>cruentatus</i> , <i>Priacanthus</i>	26
<i>concolor</i> , <i>Scomberomorus</i>	35	<i>crumenophthalmus</i> , <i>Scler</i>	30
<i>confluentus</i> , <i>Fundulus</i>	21	<i>Cryptacanthodes</i>	44
<i>Conger</i>	19	<i>Cryptopterygium</i>	19
<i>congestum</i> , <i>Moxostoma</i>	18	<i>Cryptotomus</i>	34
Congridae	19	<i>Cryptotrema</i>	42
<i>Congrina</i>	19	<i>crysoleucas</i> , <i>Notemigonus</i>	14
<i>conklini</i> , <i>Apogon</i>	26	<i>crysos</i> , <i>Caranx</i>	29
<i>Caccula</i>	19	<i>cubana</i> , <i>Anchoa</i>	11
<i>connectens</i> , <i>Lethops</i>	36	<i>cubensis</i> , <i>Squalus</i>	8
<i>conocephalus</i> , <i>Mylopharodon</i>	14	<i>Cubiceps</i>	45
<i>Conodon</i>	30	<i>cujus</i> , <i>Chasmistes</i>	17
<i>constellatus</i> , <i>Sebastes</i>	37	<i>cummingsae</i> , <i>Notropis</i>	15
<i>coosae</i> , <i>Etheostoma</i>	27	<i>curacao</i> , <i>Bathygobius</i>	35
<i>Micropterus</i>	27	<i>curema</i> , <i>Mugil</i>	46
<i>copei</i> , <i>Snyderichthys</i>	17	<i>cwieri</i> , <i>Galeocerdo</i>	7
<i>copelandi</i> , <i>Percina</i>	29	<i>Tetragonurus</i>	45
<i>corallinum</i> , <i>Cryptotrema</i>	42	<i>cyanea</i> , <i>Chromis</i>	33
<i>corallinus</i> , <i>Artedius</i>	38	<i>cyanelus</i> , <i>Lepomis</i>	27
<i>Coregonus</i>	11	<i>cyanoquittatum</i> , <i>Cichlasoma</i>	33
<i>coregonus</i> , <i>Moxostoma</i>	18	<i>cyanophrys</i> , <i>Psencs</i>	45
<i>coriacea</i> , <i>Moapa</i>	14	<i>cyanops</i> , <i>Caulolatilus</i>	29
<i>corinus</i> , <i>Hexanchus</i> —see <i>griseum</i> , <i>H.</i>		<i>cyanopterus</i> , <i>Cypselurus</i>	20
<i>cornuta</i> , <i>Chologaster</i>	22	<i>Lutjanus</i>	26
<i>cornutus</i> , <i>Citharichthys</i>	46	<i>Cycleptus</i>	17
<i>Notropis</i>	15	<i>Cyclopsetta</i>	46
<i>coroides</i> , <i>Umbrina</i>	31	<i>Cyclopteroichthys</i>	41
<i>corporalis</i> , <i>Semotilus</i>	17	Cyclopteridae	41
<i>cortezianus</i> , <i>Aprodon</i>	44	<i>Cyclopteroptis</i>	41
<i>coruscus</i> , <i>Holocentrus</i>	24	<i>Cyclopterus</i>	41
<i>Coryphaena</i>	30	<i>cyelopus</i> , <i>Liparis</i>	41
Coryphaenidae	30	<i>cyclostigma</i> , <i>Liparis</i>	41
<i>Coryphopterus</i>	35	<i>cylindraceum</i> , <i>Prosopium</i>	11
<i>Corythoichthys</i>	23	<i>Cymatogaster</i>	33
Cottidae	38	<i>cymatotaenia</i> , <i>Percina</i>	29
<i>Cottus</i>	39	<i>Cynoglossidae</i>	48
<i>Couesius</i>	14	<i>cynoglossus</i> , <i>Glyptocephalus</i>	47
<i>coulteri</i> , <i>Prosopium</i>	11	<i>Cynoscion</i>	31
<i>cragini</i> , <i>Etheostoma</i>	27	<i>cypha</i> , <i>Gila</i>	13
<i>crameri</i> , <i>Hybopsis</i>	14	<i>cyprinellus</i> , <i>Ictiobus</i>	17
<i>Sebastes</i>	37	Cyprinidae	13

- Cypriniformes 13
Cyprinodon 21
 Cyprinodontidae 21
 Cyprinodontiformes 21
cyprinoides, *Lophogobius* 36
Cyprinus 13
cyprinus, *Carpiodes* 17
Cypselurus 20
- D**
- Dactylopteridae 41
Dactylopterus 41
dactylopterus, *Helicolenus* 36
 Dactyloscopidae 42
Dactyloscopus 42
Dalatias 8
dalli, *Lythrypnus* 36
 Sebastodes 37
Dallia 12
Damalichthys—see *Rhacochilus*
 Dasyatidae 9
Dasyatis 9
Dasycottus 39
davidsoni, *Anisotremus* 30
deani, *Paraliparis* 41
 Polistotrema 6
decagonus, *Agonus* 40
decagrammus, *Hexagrammos* 38
Decapterus 29
declivifrons, *Vomer* 30
Decodon 33
decurrens, *Pleuronichthys* 47
delicatissima, *Anchoa* 11
Delolepis 44
delphinus, *Pantosteus* 18
dennyi, *Liparis* 41
dentatus, *Apsilus* 26
 Neoscopelarchoides 13
 Paralichthys 47
 Pseudupeneus 31
dentex, *Odontoscion* 31
 Osmerus 12
denticulatus, *Anarhichas* 43
derjugini, *Eumicrotremus* 41
Dermatolepis 25
Dermatostethus 23
diaboli, *Dionda* 13
diabolis, *Cyprinodon* 21
diaphana, *Emblemaria* 42
 Lactoria 49
diaphanes, *Raja*—see *ocellata*, *R.*
diaphanus, *Fundulus* 21
Diapterus 30
diapterus, *Lycodes* 44
dilatus, *Spirinchus* 12
dilecta, *Ancylosetta* 46
Diodon 49
 Diodontidae 49
 diomedianus, *Symphurus* 48
 Dionda 13
 Diplectrum 25
 Diplodus 32
 diploproa, *Sebastodes* 37
 dipterurus, *Dasyatis* 9
 Discocephali 48
 dispar, *Scorpaena* 36
 dissimilis, *Hybopsis* 14
 ditaenia, *Gila* 14
 ditropis, *Lamna* 7
 dodecaedra, *Occa* 40
 dolichogaster, *Pholis* 43
 dolomieuï, *Micropterus* 27
 Doratonotus 33
 Dormitor 35
 dormitor, *Gobiomorus* 35
 Dorosoma 10
 dorsalis, *Notropis* 15
 Seriola 30
 Sphaeroides 49
 dorsopunicans, *Eupomacentrus* 33
 drummondhayi, *Epinephelus* 25
 dubius, *Ammodytes* 41
 ductor, *Naucrates* 30
 dumerili, *Seriola* 30
 Squatina 8
 dunckeri, *Syngnathus* 23
 duodecim, *Anchoa* 11
 duquesnei, *Moxostoma* 18
 duryi, *Etheostoma* 27
 Dysomma 20
 Dysommidae 20
- E**
- earlli*, *Urophycis* 22
 Echeneidae 48
 Echeneiformes 48
Echeneis 48
Echidna 19
 Echinorhinus 8
edwini, *Etheostoma* 28
eglanteria, *Raja* 8
egmontis, *Ahlia* 19
egregius, *Arioscopus* 42
 Richardsonius 17
egretta, *Bellator* 38
eigenmanni, *Rimicola* 48
Elacatinus 35
Elagatis 30
elassodon, *Hippoglossoides* 47
Elassoma 27
elater, *Zalieutes* 50
elegans, *Cyprinodon* 21
 Gibbonsia 42
Eleginus 22

Eleotridae	35	<i>Esox</i>	12
<i>Eleotris</i>	35	<i>Etelis</i>	26
<i>eleutherus</i> , <i>Noturus</i>	18	<i>Etheostoma</i>	27
<i>ellipticum</i> , <i>Hyperprosopon</i>	33	<i>etowanum</i> , <i>Hypentelium</i>	17
<i>elongatus</i> , <i>Allosmerus</i>	12	<i>Etropus</i>	46
<i>Clinostomus</i>	13	<i>Etrumeus</i>	10
<i>Cycleptus</i>	17	<i>Eucalia</i>	23
<i>Ophiodon</i>	38	<i>Eucinostomus</i>	30
<i>Sebastodes</i>	37	<i>Eucyclogobius</i>	35
Elopidae	10	<i>Euleptorhamphus</i>	20
<i>Elops</i>	10	<i>Eumesogrammus</i>	44
<i>elucens</i> , <i>Syngnathus</i>	23	<i>Eumicrotremus</i>	41
<i>Embassichthys</i>	47	<i>Eupomacentrus</i>	33
<i>Embiotoca</i>	33	<i>eurystole</i> , <i>Anchoviella</i>	11
Embiotocidae	33	<i>eurystomus</i> , <i>Satan</i>	19
<i>Emblemaria</i>	42	<i>euryzonus</i> , <i>Notropis</i>	15
<i>embryum</i> , <i>Clinocottus</i>	39	<i>Euthynnus</i>	34
<i>Embryx</i>	44	<i>euzonum</i> , <i>Etheostoma</i>	28
<i>emiliae</i> , <i>Opsopoeodus</i>	16	<i>evergladei</i> , <i>Elassoma</i>	27
<i>emmelane</i> , <i>Agonopsis</i>	40	<i>evermanni</i> , <i>Rhinichthys</i>	16
<i>Empetrichthys</i>	21	<i>Evermannichthys</i>	36
<i>emphaeus</i> , <i>Sebastodes</i>	37	<i>evides</i> , <i>Percina</i>	29
<i>Enchelycore</i>	19	<i>Plectobranchus</i>	44
<i>Enchelyopus</i>	22	<i>Eviota</i>	35
<i>cuchrysurus</i> , <i>Chromis</i>	33	<i>evolans</i> , <i>Prionotus</i>	38
Engraulidae	11	<i>Evorthodus</i>	36
<i>Engraulis</i>	11	<i>exasperata</i> , <i>Zapteryx</i>	8
<i>Engyophrys</i>	46	<i>exile</i> , <i>Etheostoma</i>	28
<i>Enneacanthus</i>	27	<i>exilicauda</i> , <i>Lavinia</i>	14
<i>Enneapterygius</i>	42	<i>exilis</i> , <i>Lyopsetta</i>	47
<i>Enophrys</i>	39	<i>Noturus</i>	18
<i>ensiferus</i> , <i>Centropomus</i>	24	<i>Strongylura</i>	20
<i>Entomacrodus</i>	43	Exocoetidae	20
<i>entomelas</i> , <i>Sebastodes</i>	37	<i>Exocoetus</i>	21
<i>Entosphenus</i> —see <i>Lampetra</i>		<i>Exoglossum</i>	13
<i>Eopsetta</i>	47	<i>exciliens</i> , <i>Cypselurus</i>	20
<i>eos</i> , <i>Chrosomus</i>	13	<i>extensa</i> , <i>Menidia</i>	46
<i>Sebastodes</i>	37	<i>Extrarius</i>	14
Ephippidae	32		
<i>Epinephelus</i>	25	F	
<i>episcopa</i> , <i>Dionda</i>	13	<i>faber</i> , <i>Chaetodipterus</i>	32
<i>Eques</i> —see <i>Equetus</i>		<i>fabricii</i> , <i>Centroscyllum</i>	8
<i>Equetus</i>	31	<i>Lumpenus</i>	44
<i>equisetis</i> , <i>Coryphaena</i>	30	<i>falcata</i> , <i>Seriola</i>	30
<i>erectus</i> , <i>Hippocampus</i>	23	<i>falcatus</i> , <i>Rhinichthys</i>	16
<i>Eremichthys</i>	13	<i>Trachinotus</i>	30
<i>Ericymba</i>	13	<i>falciformis</i> , <i>Carcharhinus</i>	7
<i>Erilepis</i>	38	<i>fasciata</i> , <i>Pholis</i>	43
<i>Erimystax</i>	14	<i>Seriola</i>	30
<i>Erimyzon</i>	17	<i>fasciatus</i> , <i>Larimus</i>	31
<i>erinacca</i> , <i>Raja</i>	8	<i>Opisthognathus</i>	41
<i>Erotelis</i>	35	<i>Paraclinus</i>	43
<i>erythra</i> , <i>Gibbonsia</i>	42	<i>fecundus</i> , <i>Catostomus</i>	17
<i>erythrogaster</i> , <i>Chrosomus</i>	13	<i>felis</i> , <i>Galeichthys</i>	18
<i>erythrophthalmus</i> , <i>Scardinius</i>	17	<i>fenestralis</i> , <i>Artedius</i>	39
<i>erythrurum</i> , <i>Moxostoma</i>	18	<i>ferox</i> , <i>Alepisaurus</i>	13
Esocidae	12	<i>ferruginea</i> , <i>Limanda</i>	47

- fierasfer*, *Lycodapus* 44
filamentosus, *Icclinus* 39
fimbria, *Anoplopoma* 38
fimbriata, *Cyclosetta* 46
fimbriatus, *Icclinus* 39
Fistularia 23
Fistulariidae 23
flabellare, *Etheostoma* 28
flammea, *Hemitremia* 14
flava, *Congrina* 19
flavescens, *Perca* 29
flavidus, *Apodichthys* 43
 Aulorhynchus 23
 Sebastodes 37
flavobrunneum, *Lepidocybium* 34
flavolimbatus, *Epinephelus* 25
flavolineatum, *Haemulon* 31
flavus, *Noturus* 18
florae, *Liparis* 41
floridae, *Jordanella* 21
 Syngnathus 23
floridanus, *Carcharhinus* 7
 Microdesmus 36
 Urophycis 22
Floridichthys 21
focaliger, *Menticirrhus* 31
Fodiator 21
foetens, *Synodus* 13
fonticola, *Etheostoma* 28
fontinalis, *Salvelinus* 12
forbesi, *Carpiodes* 17
forcipatus, *Balistes* 48
formosa, *Heterandria* 22
 Mollienesis 22
formosum, *Diplectrum* 25
fossor, *Ichthyomyzon* 6
francisci, *Heterodontus* 6
freninvillei, *Myliobatis* 9
frenata, *Zaniolepis* 38
frenatus, *Brachyistius* 33
 Sarritor 40
fricksium, *Etheostoma* 28
frontalis, *Gastropssetta* 47
fryi, *Hesperomyrus* 19
fucensis, *Liparis* 41
fucorum, *Xerripes* 43
fulgida, *Meda* 14
fulva, *Cephalopholis* 25
fulvescens, *Acipenser* 9
fumeus, *Notropis* 15
funduloides, *Clinostomus* 13
Fundulus 21
funnebris, *Gymnothorax* 19
 Noturus 18
furcatus, *Cypselurus* 20
 Ictalurus 18
 Phanerodon 33
furcifer, *Paranthias* 25
furiosus, *Noturus* 18
fuscus, *Syngnathus* 23
fusiforme, *Etheostoma* 28
- G**
- Gadidae 22
Gadiformes 22
Gadus 22
 gagei, *Ichthyomyzon* 6
 gagei, *Gambusia* 22
 gaimardiana, *Mugil* 46
 gairdneri, *Salmo* 11
 galacturus, *Notropis* 15
Galecichthys 18
Galeocerdo 7
Galeorhinus 7
Gambusia 22
 garmani, *Raja* 8
 Garmannia 36
 garnoti, *Halichoeres* 33
Garrupa—see *Epinephelus*
Gasterosteidae 23
Gasterosteiformes 23
Gasterosteus 23
Gastropssetta 47
 geiseri, *Gambusia* 22
 gelida, *Hybopsis* 14
 geminatus, *Hyppleurochilus* 43
 gemmiferum, *Prosopium* 11
Gempylidae 34
Gempylus 34
 gentilis, *Hypsoblennius* 43
Genyonemus 31
Germa—see *Thunnus*
Gerres 30
Gerridae 30
 gibbifrons, *Prognichthys* 21
 Gibbonsia 42
 gibbosus, *Lepomis* 27
 gigantea, *Delolepis* 44
 gigas, *Stereolepis* 26
Gila 13
 gilae, *Salmo* 11
 gilberti, *Hypsoblennius* 43
 Ilypnus 36
 Noturus 18
Gilbertidia 39
Gillellus 42
 gilli, *Pholis* 43
 Sebastodes 37
 Synchirus 40
Gillichthys 36
Ginglymodi 10
Ginglymostoma 7
 ginsburgi, *Gobiosoma* 36
 girardi, *Notropis* 15

- Girella* 32
 Girellidae 32
glaber, *Cyclopterichthys* 41
glacialis, *Arctogadus* 22
 Liopsetta 47
gladius, *Xiphias* 35
glauca, *Prionace* 7
glaucofraenum, *Coryphopterus* 35
glaucus, *Stizostedion vitreum* 29
glaucus, *Isurus* 7
 Trachinotus 30
glesne, *Regalecus* 24
globiceps, *Clinocottus* 39
gloriosus, *Enneacanthus* 27
glutinosa, *Myxine* 6
Glyptocephalus 47
Gnatholepis 36
 Gobiessocidae 48
 Gobiessociformes 48
Gobiosox 48
 Gobiidae 35
Gobioides 36
gobioides, *Bembrops* 42
Gobiomorus 35
Gobionellus 36
Gobiosoma 36
Gobulus 36
gomesi, *Ophichthus* 20
Gonioplectrus 25
goodei, *Lucania* 22
 Myliobatis 9
 Ptilichthys 44
 Sebastodes 37
gorbuscha, *Oncorhynchus* 11
Gordichthys 19
gracile, *Etheostoma* 28
gracilior, *Congrina* 19
gracilis, *Cubiceps* 45
 Cymatogaster 33
 Eleginus 22
 Hybopsis 14
 Macrorhamphosus 23
gracillimus, *Gobionellus* 36
graellsii, *Lepophidium* 45
grahami, *Etheostoma* 28
grandicomis, *Paraclinus* 43
grandicornis, *Scorpaena* 36
grandis, *Fundulus* 21
 Pychocheilus 16
greeleyi, *Ichthyomyzon* 6
greeni, *Cottus* 39
 Notropis 15
greeni, *Polypera* 41
greyae, *Gillellus* 42
greyi, *Istiophorus* 35
griscolineatus, *Syngnathus* 23
griseum, *Hecanchus* 6
 griseus, *Lutjanus* 26
 gronowi, *Nomeus* 45
 grunniens, *Aplodinotus* 31
 guacamaia, *Scarus* 34
 guachancho, *Sphyræna* 46
 gula, *Erucinosomus* 30
 gulosus, *Chaenobryttus* 27
 Cottus 39
 Microgobius 36
 gunnellus, *Pholis* 43
 gunteri, *Brevoortia* 10
 Syacium 47
 guppyi, *Labrisomus* 43
 gutselli, *Etheostoma* 28
 guttata, *Scorpaena* 37
 guttatus, *Astroscopus* 42
 Epinephelus 25
 guttulata, *Hypsopsetta* 47
Gymnachirus 47
Gymnelis 44
Gymnocanthus 39
Gymnothorax 19
Gymnura 9
gyrinus, *Noturus* 18
Gypropleurodus—see *Heterodontus*
- H**
- Haemulon* 30
 Halecomorphi 10
Halichoeres 33
Halieutichthys 50
halleri, *Urolophus* 9
hamiltoni, *Manta* 9
 Moxostoma 18
hankinsoni, *Artedius* 39
 Hybognathus 14
 Haplodoci 49
Harengula 10
harengus, *Clupea harengus* 10
harperi, *Hybopsis* 14
harringtonensis, *Allanetta* 46
harringtoni, *Artedius* 39
hastatus, *Gobionellus* 36
havana, *Erucinosomus* 30
hayi, *Hybognathus* 14
heidt, *Uraspis* 30
Helicolenus 36
helvomaculatus, *Sebastodes* 37
Hemanthias 25
Hemibranchii 23
Hemicaranx 30
Hemimblemaria 42
Hemilepidotus 39
hemilepidotus, *Hemilepidotus* 39
 Hemiramphidae 20
Hemiramphus 20
Hemiremia 14

<i>Hemitripteris</i>	39	<i>Hoplunnis</i>	19
<i>hemphilli</i> , <i>Stathmonotus</i>	43	<i>horsti</i> , <i>Gobiosoma</i>	36
<i>henlei</i> , <i>Triakis</i>	7	<i>hoysi</i> , <i>Coregonus</i>	11
<i>hentzi</i> , <i>Hypsoblennius</i>	43	<i>hubbsi</i> , <i>Cottus</i>	39
<i>hepsetus</i> , <i>Anchoa</i>	11	<i>Cyprinodon</i>	21
<i>Herichthys</i> —see <i>Cichlasoma</i>		<i>Ichthyomyzon</i>	6
<i>Hermosilla</i>	32	<i>Moxostoma</i>	18
<i>Hesperoleucus</i>	14	<i>Novumbra</i>	12
<i>Hesperomyrus</i>	19	<i>hudsonius</i> , <i>Notropis</i>	15
<i>Heterandria</i>	22	<i>humeralis</i> , <i>Harengula</i>	10
<i>Heteristius</i>	42	<i>humilis</i> , <i>Lepomis</i>	27
<i>heterochir</i> , <i>Gambusia</i>	22	<i>Hybognathus</i>	14
<i>heteroclitus</i> , <i>Fundulus</i>	21	<i>Hybopsis</i>	14
<i>heterodon</i> , <i>Notropis</i>	15	<i>Hyborhynchus</i> —see <i>Pimephales</i>	
Heterodontidae.....	6	<i>Hydrolagus</i>	9
<i>Heterodontus</i>	6	<i>Hypentelium</i>	17
<i>heterolepis</i> , <i>Notropis</i>	15	Hyperoartii.....	6
Heteromi.....	20	Hyperotreti.....	6
Heterosomata.....	46	<i>Hyperprotopon</i>	33
<i>Heterostichus</i>	42	<i>Hypleurochilus</i>	43
<i>heterurus</i> , <i>Cypselurus</i>	20	<i>hypochromus</i> , <i>Allolunpenus</i>	44
Hexagrammidae.....	38	<i>hypodus</i> , <i>Decapterus</i>	29
<i>Hexagrammos</i>	38	<i>Hypomesus</i>	12
Hexanchidae.....	6	<i>Hypoplectrus</i>	25
<i>Hexanchus</i>	6	<i>hypoplectus</i> , <i>Rathbunella</i>	42
<i>hexapterus</i> , <i>Ammodytes</i>	41	<i>Hypoprion</i>	7
<i>hians</i> , <i>Ablennes</i>	20	<i>Hyporhamphus</i>	20
<i>hildebrandi</i> , <i>Noturus</i>	19	<i>hypostoma</i> , <i>Mobula</i>	9
<i>Hiodon</i>	12	<i>Hypsagonus</i>	40
Hiodontidae.....	12	<i>hypselopterus</i> , <i>Notropis</i>	15
<i>Hippocampus</i>	23	<i>hypsilepis</i> , <i>Notropis</i>	15
<i>Hippoglossina</i>	47	<i>hypsinothus</i> , <i>Hybopsis</i>	14
<i>Hippoglossoides</i>	47	<i>Hypsoblennius</i>	43
<i>hippoglossoides</i> , <i>Reinhardtius</i>	47	<i>Hypsopsetta</i>	47
<i>Hippoglossus</i>	47	<i>Hypsurus</i>	33
<i>hippoglossus</i> , <i>Hippoglossus</i>	47	<i>Hypsypops</i>	33
<i>hippos</i> , <i>Caranx</i>	29	<i>Hysterocarpus</i>	33
<i>hippurus</i> , <i>Coryphaena</i>	30	<i>hystrix</i> , <i>Diodon</i>	49
<i>Hirundichthys</i>	21		
<i>hirundo</i> , <i>Leiocottus</i>	40	I	
<i>hispanus</i> , <i>Gonioplectrus</i>	25	<i>Icelinus</i>	39
<i>hispidus</i> , <i>Monacanthus</i>	49	<i>Icelus</i>	39
<i>Histrio</i>	50	<i>Ichthyomyzon</i>	6
<i>histrio</i> , <i>Etheostoma</i>	28	<i>Icichthys</i>	45
<i>Histrio</i>	50	<i>icistius</i> , <i>Bairdiella</i>	31
<i>Holacanthus</i>	32	Icosteidae.....	45
<i>holacanthus</i> , <i>Diodon</i>	49	<i>Icosteus</i>	45
<i>holbrooki</i> , <i>Diplodus</i>	32	Ictaluridae.....	18
<i>Ophidion</i>	45	<i>Ictalurus</i>	18
<i>Holconotus</i> —see <i>Amphistichus</i>		<i>Icticus</i>	45
<i>holderi</i> , <i>Alloclinus</i>	42	<i>Ictiobus</i>	17
Holocentridae.....	24	<i>illecebrosus</i> , <i>Notropis</i>	15
<i>Holocentrus</i>	24	<i>Ilypnus</i>	36
<i>holochroma</i> , <i>Cryptopterygium</i>	19	<i>imberbe</i> , <i>Peristedion</i>	38
<i>hopkinsi</i> , <i>Plagiogrammus</i>	44	<i>imperialis</i> , <i>Lwarus</i>	35
<i>Sebastodes</i>	37	<i>impressa</i> , <i>Ariosoma</i>	19
<i>hopliticus</i> , <i>Paricelinus</i>	40	<i>incisor</i> , <i>Kyphosus</i>	32

- inconstans*, *Eucalia* 23
indica, *Makaira* 35
inermis, *Anoplagonus* 40
 Dermatolepis 25
 Scorpaena 37
infraspinata, *Asterotheca* 40
ingens, *Hippocampus* 23
Iniomi 13
inornata, *Raja* 8
inscriptum, *Etheostoma* 28
inscriptus, *Trinectes* 47
insignis, *Catostomus* 17
 Hybopsis 14
 Noturus 19
insolatus, *Chromis* 33
integripinnis, *Paraclinus* 43
intermedius, *Pantosteus* 18
 Synodus 13
interrupta, *Raja* 8
interruptus, *Archoplites* 27
interstitialis, *Mycteroperca* 25
intertinctus, *Mystriophis* 20
Ioglossus 35
ionthas, *Hypsoblennius* 43
ios, *Clevelandia* 35
Iotichthys 14
irretitus, *Gordüchthys* 19
isodon, *Aprionodon* 7
isolepis, *Isopsetta* 47
Isopsetta 47
Isospondyli 10
Istiophoridae 35
Istiophorus 35
Isurus 7
itajara, *Epinephelus* 25
- J**
- jacksoni*, *Embiotoca* 33
jacobus, *Myripristis* 24
jamaicensis, *Urolophus* 9
japonica, *Mobula* 9
japonica, *Lampetra* 6
japonicus, *Arctoscopus* 41
 Scomber 35
jeanae, *Bollmannia* 35
 Lepophidium 45
jemezanus, *Notropis* 15
jenkinsi, *Fundulus* 21
Jenkinsia 10
jessiae, *Etheostoma* 28
jocu, *Lutjanus* 26
johannae, *Coregonus* 11
Jordanela 21
jordani, *Eopsetta* 47
 Etheostoma 28
 Mycteroperca 25
 Ronquilus 42
- Sebastodes* 37
Jordania 39
juliae, *Etheostoma* 28
- K**
- kalisherae*, *Labrisomus* 43
kanawhae, *Etheostoma* 28
kansae, *Fundulus* 21
Kathetostoma 42
Katsuwonus—see *Euthynnus*
kendalli, *Verma* 20
kennicotti, *Etheostoma* 28
keta, *Oncorhynchus* 11
kincaidi, *Malacocottus* 40
 Raja 8
kisutch, *Oncorhynchus* 11
kiyi, *Coregonus* 11
klamathensis, *Cottus* 39
koefocdi, *Liparis* 41
koelzi, *Amphistichus* 33
Kyphosidae 32
Kyphosus 32
- L**
- Labidesthes* 46
Labridae 33
Labrisomus 43
labrosa, *Hybopsis* 14
lacera, *Lagochila* 17
lachneri, *Apogon* 26
 Moxostoma 18
Lachnolaimus 34
lachrymale, *Moxostoma* 18
Lactophrys 49
Lactoria 49
lacustris, *Ictalurus*—see *punctatus*, *I.*
laeta, *Pholis* 43
laevigatus, *Lagocephalus* 49
lacvis, *Raja* 8
 Ranzania 49
Lagocephalus 49
lagocephalus, *Lagocephalus* 49
Lagochila 17
Lagodon 32
lahontan, *Pantosteus* 18
lamiella, *Carcharhinus* 7
Lamna 7
Lamnidae 6
lamottei, *Lampetra* 6
Lampetra 6
Lamprididae 23
Lampridiformes 23
Lampris 23
lamprotaenia, *Anchoa* 11
 Jenkinsia 10
lanceolata, *Mola* 49
lanceolatus, *Equetus* 31

- lanceolatus, Stellifer* 31
Larimus 31
lateralis, Artedius 39
Embiotoca 33
lathamii, Trachurus 30
latifrons, Xeneretmus 40
latipinna, Mollienesia 22
latipinnis, Catostomus 17
Zaniolepis 38
latus, Empetrichthys 21
latus, Caranx 29
laurae, Parexoglossum 16
lavalaci, Lycodes 44
Lavinia 14
leedsi, Notropis 15
lefroyi, Eucinostomus 30
Leicocottus 30
leiopomus, Cottus 39
leiops, Xeneretmus 41
Leicostomus 31
lentiginosa, Raja 8
lentiginosus, Rhinobatos 8
Lepibema—see *Roccus*
Lepidocybium 34
Lepidogobius 36
Lepidomeda 14
Lepidopsetta 47
Lepidopus 34
lepidum, Etheostoma 28
lepidus, Lepidogobius 36
Notropis 15
Lepisosteidae 10
Lepisosteus 10
Lepomis 27
Lepophidium 45
leptacanthus, Noturus 19
leptocephala, Hybopsis 14
Leptocottus 40
Leptolucania 22
leptorhynchus, Sarritor 40
lepturus, Trichiurus 34
leptus, Hemanthias 25
Letharchus 19
Lethops 36
lethostigma, Paralichthys 47
leucas, Carcharhinus 7
Leucichthys 11
leucichthys, Stenodus 12
leuciodus, Notropis 15
leucosteus, Calamus 32
leucostictus, Eupomacentrus 33
Leuresthes 46
Leuroglossus 12
levis, Sebastodes 37
lewini, Sphyrna 7
libertate, Opisthonema 10
licha, Dalatias 8
Limanda 47
limbatus, Carcharhinus 7
limi, Umbra 12
lindneri, Lonchopisthus 41
lineata, Parahollandia 48
lineatus, Achirus 47
Euthynnus 34
Genyonemus 31
Oostethus 23
Phtheirichthys 48
lineopunctatus, Xanthichthys 49
liolepis, Xystreurus 47
Liopsetta 47
liorus, Chasmistes 17
Liparis 41
liparis, Liparis 41
lirus, Notropis 15
littoralis, Menticirrhus 31
liza, Mugil 46
Lobotes 26
Lobotidae 26
lockingtoni, Icichthys 45
Lonchopisthus 41
lonchurus, Opisthognathus 41
longicaudus, Gobionellus 36
longimanum, Etheostoma 28
longimanus, Carcharhinus 7
longipala, Gobiosoma 36
longipinnis, Careproctus 41
Microdesmus 36
Taractes 30
longirostris, Lumpenella 44
Notropis 15
longispinis, Pontinus 36
longum, Gobiosoma 36
longurio, Scoliodon 7
Lophiidae 49
Lophiiformes 49
Lophius 49
Lophobranchii 23
Lophogobius 36
Lopholatilus 29
Lophopsetta—see *Scophthalmus*
Lophotidae 24
Lophotus 24
Lota 22
lota, Lota 22
louisiana, Syngnathus 23
lowei, Polymixia 24
Lucania 22
lucasana, Mobula 9
luciae, Fundulus 21
lucioceps, Synodus 13
lucius, Esox 12
Ptychocheilus 16
lugubris, Caranx 29
Chascanopsetta 46

- Lumpenella*..... 44
Lumpenus..... 44
lumpretaeformis, *Lumpenus*..... 44
lumpus, *Cyclopterus*..... 41
lunatus, *Bothus*..... 46
lunulatus, *Mustelus*..... 7
lupus, *Anarhichas*..... 43
 Ictalurus..... 18
luteovinctum, *Etheostoma*..... 28
lutipinnis, *Notropis*..... 15
Lutjanidae..... 26
Lutjanus..... 26
lutrensis, *Notropis*..... 15
Luvaridae..... 35
Luvarus..... 35
luxatus, *Catostomus*..... 17
Lycenchelys..... 44
Lycichthys—see *Anarhichas*
Lycodapus..... 44
Lycodes..... 44
Lycodopsis..... 44
Lyonectes..... 44
Lycinema..... 44
lyolepis, *Anchoa*..... 11
Lyopsetta..... 47
lyricus, *Evorthodus*..... 36
Lythrypnus..... 36
- M**
- macalpini*, *Cyclopteroopsis*..... 41
macarellus, *Decapterus*..... 29
macdonaldi, *Sebastes*..... 37
macellus, *Triglops*..... 40
Macrhybopsis..... 14
macrocephala, *Percina*..... 29
macrocephalus, *Gadus*..... 22
macrocheilus, *Catostomus*..... 17
macrochirus, *Lepomis*..... 27
macrodon, *Garmannia*..... 36
macrognathus, *Opisthognathus*..... 41
macrolepidotum, *Moxostoma*..... 18
macrolepidotus, *Pogonichthys*..... 16
Macropinna..... 12
macrops, *Citharichthys*..... 46
macropterus, *Centrarchus*..... 27
macropus, *Malacoctenus*..... 43
Macrorhamphosus..... 23
macrostomum, *Haemulon*..... 31
Macrouridae..... 22
Macrozoarces..... 44
macrurus, *Hopunnis*..... 19
macularius, *Cyprinodon*..... 21
maculata, *Percina*..... 29
maculatofasciatus, *Paralabrax*..... 25
maculatum, *Etheostoma*..... 28
maculatus, *Apogon*..... 26
 Aulostomus..... 23
Canthidermis..... 48
Cryptacanthodes..... 44
Dormitator..... 35
Lumpenus..... 44
Notorynchus..... 6
Notropis..... 15
Psenes..... 45
Pseudupeneus..... 32
Scomberomorus..... 35
Sphaeroides..... 49
 Trinectes..... 47
maculipinna, *Halichoeres*..... 34
maculipinnis, *Carcharhinus*..... 7
maculosus, *Oligocottus*..... 40
maeandricus, *Gobiesox*..... 48
mahogoni, *Lutjanus*..... 26
majalis, *Fundulus*..... 21
Makaira..... 35
Malacanthus..... 29
Malacocottus..... 40
Malacoctenus..... 43
maliger, *Sebastes*..... 37
Mallotus..... 12
malma, *Salvelinus*..... 12
mandibularis, *Lycodapus*..... 44
Manta..... 9
margarita, *Semotilus*..... 17
marginata, *Brosomphycis*..... 45
 Rissola..... 45
marginatus, *Cottus*..... 39
Lepomis..... 27
mariae, *Etheostoma*..... 28
marianus, *Holocentrus*..... 24
marina, *Strongylura*..... 20
marinus, *Bagre*..... 18
 Petromyzon..... 6
 Sebastes..... 37
marmorata, *Gymnura*..... 9
marmoratus, *Paraclinus*..... 43
 Rivulus..... 22
 Scorpaenichthys..... 40
marmoratus, *Blennius*..... 43
martinica, *Membras*..... 46
martinicensis, *Ocyanthias*..... 25
 Xyrichthys..... 34
martinicus, *Mulloidichthys*..... 31
martis, *Prionotus*..... 38
masquinongy, *Esox*..... 12
matutinus, *Notropis*..... 15
maxillingua, *Exoglossum*..... 13
maxillosus, *Opisthognathus*..... 41
maximus, *Cetorhinus*..... 7
 Lachnolaimus..... 34
mcgintyi, *Ogcocephalus*..... 50
meanyi, *Ruscarius*..... 40
Meda..... 14
Medialuna..... 32

- mediocris*, *Alosa* 10
medirostris, *Actipenser* 9
medius, *Lumpenus* 44
meekei, *Hybopsis* 14
megalepis, *Doratonotus* 33
Megalops 10
megalotis, *Lepomis* 27
Melanogrammus 22
melanops, *Minytrema* 17
Sebastodes 37
melanopterus, *Eucinostomus* 30
melanostictus, *Psettichthys* 47
melanostomus, *Sebastodes* 37
melanurum, *Haemulon* 31
melanus, *Centropristes* 25
melas, *Ictalurus* 18
Melichthys 48
Membras 46
Menidia 46
menidia, *Menidia* 46
Menticirrhus 31
Merluccius 22
merriami, *Empetrichthys* 21
Mesogonistius—see *Enneacanthus*
metzi, *Gibbonsia* 42
mexicana, *Pikea* 25
mexicanus, *Astyanax* 13
miarcha, *Anchoiella* 11
microcephalus, *Somniosus* 8
Microcyprini 21
Microdesmidae 36
Microdesmus 36
microdon, *Pseudotriakis* 7
Microgadus 22
Micrognathus 23
Microgobius 36
microlepidotus, *Orthodon* 16
microlepis, *Microgobius* 36
Mycteroperca 25
Scorpaena 37
microlophus, *Lepomis* 27
Micrometrus 33
microperca, *Etheostoma* 28
Micropogon 31
micropogon, *Hybopsis* 14
microps, *Catostomus* 17
Micropterus 27
micropterus, *Oxyporhamphus* 21
Microspathodon 33
microstoma, *Macropinna* 12
Microstomus 47
microstomus, *Etropus* 46
micrura, *Gymnura* 9
micrurum, *Syacium* 47
milberti, *Carcharhinus* 7
miliaris, *Muraena* 19
militaris, *Bellator* 38
miniatum, *Peristedion* 38
miniatus, *Sebastodes* 37
minimus, *Micrometrus* 33
minor, *Anarhichas* 43
Symphurus 48
Minytrema 17
mirabilis, *Gillichthys* 36
Phenacobius 16
Misgurnus 18
mississippiensis, *Roccus* 26
mitchilli, *Anchoa* 11
miurus, *Noturus* 19
Moapa 14
Mobula 9
Mobulidae 9
mohavensis, *Siphateles* 17
mokarran, *Sphyrna* 7
Mola 49
mola, *Mola* 49
Molidae 49
Mollienesia 22
Monacanthus 49
monacha, *Hybopsis* 14
monoceros, *Alutera* 48
Monolene 47
monopterygius, *Aspidophoroides* 40
Pleurogrammus 38
montereyensis, *Gibbonsia* 42
monticola, *Agonostomus* 46
mordax, *Engraulis* 11
Gymnothorax 19
Mystriophis 20
Osmerus 12
morhua, *Gadus* 22
moringa, *Gymnothorax* 19
morio, *Epinephelus* 25
Morone—see *Roccus*
Moxostoma 17
mucosus, *Liparis* 41
Xiphister 44
mucronatus, *Neoconger* 19
Mugil 46
Mugilidae 46
Mullidae 31
Mulloidichthys 31
Mullus 31
multilineata, *Chromis* 33
multicellatus, *Antennarius* 50
Muraena 19
muraena, *Callechelys* 19
Muraenidae 19
muscarum, *Rimicola* 48
Mustelus 7
Mycteroperca 25
Myctophidae 13
Myctophiformes 13
myersi, *Gobulus* 38

O

- obesus, Enneacanthus* 27
Thunnus 35
obcyense, Etheostoma 28
oblongus, Erimyzon 17
Paralichthys 47
obscurus, Carcharhinus 7
obtusirostris, Exocoetus 21
obtusus, Hippocampus 23
Occa 40
occidentalis, Catostomus 17
Poeciliopsis 22
oceanicus, Conger 19
Gobionellus 36
oceanops, Elacatinus 35
ocellata, Brannerella 42
Chacnopsis 42
Raja 8
Sciaenops 31
Zenopsis 24
ocellatus, Anarrhichthys 43
Antennarius 50
Astronotus 33
Bothus 46
Chaetodon 32
Ophichthus 20
octodecemspinosus, Myoxocephalus 40
octogrammus, Hexagrammos 38
octonemus, Polydactylus 46
oculatus, Etelis 26
Icelinus 39
Lepisosteus 10
Myrichthys 20
oculofasciatus, Nautichthys 40
Ocyanthias 25
Ocyurus 26
ocyurus, Centropristes 25
Odontaspis—see *Carcharias*
Odontopyxis 40
Odontoscion 31
ogac, Gadus 22
Ogcocephalidae 50
Ogcocephalus 50
Ogilbia 45
oglinum, Opisthonema 10
ohiensis, Alosa 10
okefenokee, Elassoma 27
olidus, Hypomesus 12
Oligocottus 40
Oligoplites 30
olisthostomus, Diapterus 30
olivaceus, Fundulus 21
olivaris, Pylodictis 19
olriki, Aspidophoroides 40
olseni, Raja 8
omiscomaycus, Percopsis 24
ommata, Leptolucania 22
omostigmum, Otophidium 45
Oncorhynchus 11
onitis, Tautoga 34
Oostethus 23
opercularis, Polydactylus 46
Ophichthidae 19
Ophichthus 20
Ophidiidae 45
Ophidion 45
Ophioblennius 43
Ophiodon 38
Ophioscion 31
ophis, Ophichthus 20
ophrayas, Prionotus 38
Opisthognathidae 41
Opisthognathus 41
Opisthonema 10
Opisthoproctidae 12
Opsanus 49
Opsopocodus 16
orbis, Eunicrotremus 41
orcutti, Gila 14
oreas, Chrosomus 13
Orectolobidae 7
oregonensis, Ptychocheilus 16
Oregonichthys 14
orientalis, Anarhichas 43
Sarda 35
ornata, Pholis 43
ornatum, Campostoma 13
ortenburgeri, Notropis 15
Orthodon 16
Orthonopias 40
Orthopristis 31
osburni, Etheostoma 28
osculus, Rhinichthys 16
Osmeridae 12
Osmerus 12
osseus, Lepisosteus 10
Ostariophysi 13
Osteichthyes 9
ostochir, Remora 48
Ostichthys 24
Ostraciidae 49
Otophidium 45
Otrynter—see *Stenotomus*
ovalis, Sebastodes 37
Oxyjulis 34
Oxylebius 38
Oxyporhamphus 21
oxyrhyncha, Percina 29
oxyrhynchus, Acipenser 9
Notropis 15
oxyrinchus, Isurus 7
ozarcanus, Notropis 15

P

- pachycephalus, Lagocephalus* 49
pacifica, Lycodopsis 44

<i>pacificus</i> , <i>Microstomus</i>	47	<i>pelagicus</i> , <i>Nectoliparis</i>	41
<i>Somniosus</i>	8	<i>Syngnathus</i>	23
<i>Thaleichthys</i>	12	<i>pelamis</i> , <i>Euthynnus</i>	34
<i>Pagrus</i>	32	<i>pelicanus</i> , <i>Symphurus</i>	48
<i>paitensis</i> , <i>Trachinotus</i>	30	<i>pellucida</i> , <i>Ammocrypta</i>	27
<i>palaearis</i> , <i>Lycodes</i>	44	<i>pellucidus</i> , <i>Icticus</i>	45
<i>Palinurichthys</i>	45	<i>peltata</i> , <i>Percina</i>	29
<i>pallasi</i> , <i>Clupea harengus</i>	10	Pempheridae	32
<i>Pallasina</i>	40	<i>Pempheris</i>	32
<i>pallidus</i> , <i>Lycodes</i>	44	<i>penna</i> , <i>Calamus</i>	32
<i>palmaris</i> , <i>Percina</i>	29	<i>pensacolae</i> , <i>Harengula</i>	10
<i>Palometa</i>	45	<i>pentacanthus</i> , <i>Asterotheca</i>	40
<i>pandionis</i> , <i>Emblemaria</i>	42	<i>Peprilus</i>	45
<i>pantherina</i> , <i>Percina</i>	29	<i>Perca</i>	29
<i>Pantosteus</i>	18	Percidae	27
<i>papillifer</i> , <i>Gobiosox</i>	48	Perciformes	24
<i>papillosum</i> , <i>Syacium</i>	47	<i>perciformis</i> , <i>Palinurichthys</i>	45
<i>pappillosum</i> , <i>Moxostoma</i>	18	<i>Percina</i>	29
<i>Paracentropistes</i>	25	<i>percobromus</i> , <i>Notropis</i>	15
<i>Paraclinus</i>	43	Percomorphi	24
<i>paradoxus</i> , <i>Psychrolutes</i>	40	Percophididae	42
<i>Parahollandia</i>	48	Percopsidae	24
<i>Paralabrax</i>	25	Percopsiformes	24
<i>paralatus</i> , <i>Prionotus</i>	38	<i>Percopsis</i>	24
<i>Paralichthys</i>	47	<i>perfasciata</i> , <i>Anchoviella</i>	11
<i>Paraliparis</i>	41	<i>peristedion</i>	38
<i>parallelus</i> , <i>Centropomus</i>	24	<i>perlongum</i> , <i>Etheostoma</i>	28
<i>Paranthias</i>	25	<i>perotteti</i> , <i>Pristis</i>	8
<i>Parathunnus</i> —see <i>Thunnus</i>		<i>perpallidus</i> , <i>Notropis</i>	15
<i>pardus</i> , <i>Opsanus</i>	49	<i>perplexus</i> , <i>Cottus</i>	39
<i>Parexocoetus</i>	21	<i>perryae</i> , <i>Callechelys</i>	19
<i>Parexoglossum</i>	16	<i>personata</i> , <i>Eviota</i>	35
<i>Paricelinus</i>	40	<i>peruanus</i> , <i>Hemanthias</i>	25
<i>Parmaturus</i>	7	<i>petenense</i> , <i>Dorosoma</i>	10
<i>parmifera</i> , <i>Raja</i>	8	<i>petersoni</i> , <i>Notropis</i>	16
<i>Parophrys</i>	47	<i>Petrometopon</i>	25
<i>parrai</i> , <i>Clepticus</i>	33	<i>Petromyzon</i>	6
<i>Haemulon</i>	31	<i>Petromyzontia</i>	6
<i>partitus</i> , <i>Eupomacentrus</i>	33	<i>Petromyzontidae</i>	6
<i>paru</i> , <i>Peprilus</i>	45	<i>Petromyzontiformes</i>	6
<i>parva</i> , <i>Lucania</i>	22	<i>Phanerodon</i>	33
<i>parvipinne</i> , <i>Etheostoma</i>	28	<i>Phenacobius</i>	16
<i>parvipinnis</i> , <i>Cynoscion</i>	31	<i>phenax</i> , <i>Mycteroperca</i>	25
<i>Fundulus</i>	21	<i>philadelphicus</i> , <i>Centropistes</i>	25
<i>parvus</i> , <i>Ogcocephalus</i>	50	<i>phlegethontis</i> , <i>Iotichthys</i>	14
<i>Symphurus</i>	48	<i>phoebe</i> , <i>Prionodes</i>	25
<i>Upeneus</i>	32	Pholidae	43
<i>patronus</i> , <i>Brevoortia</i>	10	<i>Pholis</i>	43
<i>pattersoni</i> , <i>Trogloglanis</i>	19	<i>photogenis</i> , <i>Notropis</i>	16
<i>paucispinis</i> , <i>Sebastodes</i>	37	<i>phoxocephala</i> , <i>Percina</i>	29
<i>pectinatus</i> , <i>Centropomus</i>	25	<i>Phtheichthys</i>	48
<i>Pristis</i>	8	<i>Phycis</i>	22
<i>pectoralis</i> , <i>Dallia</i>	12	<i>Phytichthys</i>	44
<i>Enncapterygus</i>	42	<i>picta</i> , <i>Eleotris</i>	35
<i>Nematistius</i>	30	<i>pictus</i> , <i>Oxylebius</i>	38
<i>Prionotus</i>	38	<i>picudilla</i> , <i>Sphyræna</i>	46
<i>Pediculati</i>	49	<i>pidschian</i> , <i>Coregonus</i>	11

- piger*, *Symphurus* 48
pigmentarius, *Apogon* 26
Pikea 25
pilicornis, *Blennius* 43
Pimelometopon 34
Pimephales 16
pingeli, *Triglops* 40
pinniger, *Sebastodes* 37
piratula, *Emblemaria* 42
pononis, *Eleotris* 35
Placopharynx—see *Moxostoma*
Plagiogrammus 44
plagiusa, *Symphurus* 48
Plagopterus 16
plaueri, *Lampetra* 6
planifrons, *Apogon* 26
 Eupomacentrus 33
platessoides, *Hippoglossoides* 47
Platichthys 47
platorynchus, *Scaphirhynchus* 9
platostomus, *Lepisosteus* 10
platycephalus, *Ictalurus* 18
Platygobio 14
platyrhincus, *Lepisosteus* 10
Platyrhinoidis 8
platyrhynchus, *Pantosteus* 18
plebeius, *Pantosteus* 18
Plectobranchus 44
Plectognathi 48
Plectrypops 24
Pleurogrammus 38
Pleuronectes 47
Pleuronectidae 47
Pleuronectiformes 46
Pleuronichthys 47
plumbea, *Hybopsis* 14
plumieri, *Diapterus* 30
 Haemulon 31
 Malacanthus 29
 Scorpaena 37
Pneumatophorus—see *Scomber*
podostemone, *Etheostoma* 28
Poecilichthys—see *Etheostoma*
Poeciliidae 22
Poeciliopsis 22
poecilurum, *Moxostoma* 18
poeyi, *Halichoeres* 34
 Synodus 13
Pogonias 31
Pogonichthys 16
Polistotrema 6
politus, *Seriphus* 31
Pollachius 22
pollux, *Neomerinthe* 36
polyacanthocephalus, *Myoxocephalus* 40
polyactocephalus, *Chirolophus* 44
Polydactylus 46
polylepis, *Balistes* 48
Polymixia 24
Polymixiidae 24
Polynemidae 46
Polyodon 9
Polyodontidae 9
Polypera 41
Polyprion 25
polyspinis, *Sebastodes* 37
polystictus, *Trachipterus* 24
Pomacanthus 32
Pomacentridae 33
Pomadasyidae 30
Pomadasys 31
Pomatomidae 29
Pomatomus 29
Pomolobus—see *Alosa*
pomospilus, *Paracentropistes* 25
pomotis, *Acantharchus* 27
Pomoxis 27
Pontinus 36
Porichthys 49
Poroclinus 44
Poronotus 45
porosissimus, *Porichthys* 49
porosus, *Carcharhinus* 7
potteri, *Notropis* 16
praecisus, *Eumesogrammus* 44
pretiosus, *Hypomesus* 12
 Ruwettus 34
Priacanthidae 26
Priacanthus 26
pricei, *Ictalurus* 18
princeps, *Caulolatilus* 29
 Cottus 39
Prionace 7
Prionodes 25
Prionotus 38
Pristidae 8
Pristigenys 26
Pristipomoides 26
Pristis 8
probatocephalus, *Archosargus* 32
proboscidea, *Limanda* 47
procne, *Notropis* 16
productus, *Merluccius* 22
 Rhinobatos 8
procliare, *Etheostoma* 28
Prognathodes 32
Prognichthys 21
promelas, *Pimephales* 16
Promicrops—see *Epinephelus*
Pronotogrammus 25
proridens, *Calamus* 32
proriger, *Sebastodes* 37
proserpinus, *Notropis* 16
Prosopium 11

Protospondyli	10
<i>proximus</i> , <i>Microgadus</i>	22
<i>Psenes</i>	45
<i>Psetichthys</i>	47
<i>Pseudogrammus</i>	25
<i>pseudogula</i> , <i>Eucinostomus</i>	30
<i>pseudoharengus</i> , <i>Alosa</i>	10
<i>pseudomaculatus</i> , <i>Apogon</i>	26
<i>Pseudopleuronectes</i>	47
<i>Pseudoscarus</i> —see <i>Scarus</i>	
<i>Pseudotriakis</i>	7
<i>Pseudupeneus</i>	31
<i>psittacus</i> , <i>Xyrichthys</i>	34
<i>Psychrolutes</i>	40
Ptilichthyidae	44
<i>Ptilichthys</i>	44
<i>Ptychocheilus</i>	16
<i>puellaris</i> , <i>Decodon</i>	33
<i>pugetensis</i> , <i>Chitonotus</i>	39
<i>pulchellus</i> , <i>Bodianus</i>	33
<i>Liparis</i>	41
<i>pulcher</i> , <i>Equetus</i>	31
<i>pulchrum</i> , <i>Pimelometopon</i>	34
<i>pullus</i> , <i>Cantherines</i>	48
<i>pulvereus</i> , <i>Fundulus</i>	21
<i>pumilio</i> , <i>Serraniculus</i>	26
<i>punctatus</i> , <i>Decapterus</i>	29
<i>Equetus</i>	31
<i>Ictalurus</i>	18
<i>Lepomis</i>	27
<i>Myrophis</i>	20
<i>Stichaeus</i>	44
<i>punctifer</i> , <i>Mystriophis</i>	20
<i>punctipinnis</i> , <i>Chromis</i>	33
<i>Dermatosiethus</i>	23
<i>punctulatum</i> , <i>Etheostoma</i>	28
<i>punctulatus</i> , <i>Gobiesox</i>	48
<i>Micropterus</i>	27
<i>Pungitius</i>	23
<i>pungitius</i> , <i>Pungitius</i>	23
<i>purpurca</i> , <i>Gila</i>	14
<i>purpurescens</i> , <i>Anoplarchus</i>	44
<i>pusillus</i> , <i>Symphurus</i>	48
<i>putnami</i> , <i>Liopsetta</i>	47
<i>pygmaea</i> , <i>Umbra</i>	12
<i>Pygodictis</i>	19
<i>pyrrhomelas</i> , <i>Notropis</i>	16

Q

<i>quadracus</i> , <i>Apeltes</i>	23
<i>quadricornis</i> , <i>Hypsagonus</i>	40
<i>Lactophrys</i>	49
<i>Myoxocephalus</i>	40
<i>quadriseriatus</i> , <i>Icelinus</i>	39
<i>quadrisquamatus</i> , <i>Apogon</i>	26
<i>quadrituberculatus</i> , <i>Pleuronectes</i>	47
<i>quadrocellata</i> , <i>Ancylosetta</i>	46
<i>Quietula</i>	36

R

Rachycentridae	29
<i>Rachycentron</i>	29
<i>radians</i> , <i>Sparisoma</i>	34
<i>radiata</i> , <i>Raja</i>	8
<i>radiatus</i> , <i>Halichoeres</i>	34
<i>Ogocephalus</i>	50
<i>radiosum</i> , <i>Etheostoma</i>	28
<i>radiosus</i> , <i>Antennarius</i>	50
<i>Cyprinodon</i>	21
<i>radula</i> , <i>Melichthys</i>	48
<i>Radulinus</i>	40
<i>Raja</i>	8
Rajidae	8
Rajiformes	8
<i>randalli</i> , <i>Acanthurus</i>	34
<i>Ranzania</i>	49
<i>raphidoma</i> , <i>Strongylura</i>	20
<i>rastrelliger</i> , <i>Sebastodes</i>	37
<i>Rathbunella</i>	42
<i>rathbuni</i> , <i>Fundulus</i>	21
<i>Pontinus</i>	36
<i>rayi</i> , <i>Brama</i>	30
<i>recalvus</i> , <i>Clinocottus</i>	39
Regalecidae	24
<i>Regalecus</i>	24
<i>regalis</i> , <i>Cynoscion</i>	31
<i>Scomberomorus</i>	35
<i>regius</i> , <i>Lampris</i>	23
<i>Urophycis</i>	22
<i>regulus</i> , <i>Psenes</i>	45
<i>reighardi</i> , <i>Coregonus</i>	11
<i>Reinhardtius</i>	47
<i>Remora</i>	48
<i>remora</i> , <i>Remora</i>	48
<i>Remorina</i>	48
<i>remotus</i> , <i>Carcharhinus</i>	7
<i>reticulatus</i> , <i>Lycodes</i>	44
<i>retifer</i> , <i>Scyliorhinus</i>	7
<i>retifera</i> , <i>Muraena</i>	19
<i>retrospinis</i> , <i>Plectrypops</i>	24
<i>rex</i> , <i>Percina</i>	29
<i>Rhacochilus</i>	33
<i>Rhamphocottus</i>	40
<i>rhessodon</i> , <i>Gobiesox</i>	48
<i>rhina</i> , <i>Raja</i>	8
<i>Rhincodon</i>	7
Rhincodontidae	7
<i>Rhinichthys</i>	16
Rhinobatidae	8
<i>Rhinobatos</i>	8
<i>Rhinoptera</i>	9
<i>Rhodeus</i>	16
<i>rhodochloris</i> , <i>Sebastodes</i>	37
<i>rhodopus</i> , <i>Trachinotus</i>	30
<i>rhodorus</i> , <i>Asclichthys</i>	39
<i>rhodoterus</i> , <i>Amphistichus</i>	33
<i>rhomboidalis</i> , <i>Archosargus</i>	32

- rhomboides*, *Lagodon* 32
Rhomboplites 26
rhotheus, *Cottus* 39
rhothocum, *Moxostoma* 18
Rhynchocymba 19
ricei, *Cottus* 39
richardsoni, *Alepisaurus* 13
 Rhamphocottus 40
Richardsonius 17
rimensis, *Oligocottus* 40
Rimicola 48
rimiculus, *Catostomus* 17
rimosus, *Etropus* 47
ringens, *Xanthichthys* 49
Risor 36
Rissola 45
ritteri, *Pleuronichthys* 47
 Xenerctmus 41
Rivulus 22
roanokense, *Hypentelium* 17
robusta, *Gila* 14
robustum, *Gobiosoma* 36
 Moxostoma 18
robustus, *Hippoglossoides* 47
Roccus 25
Roncador 31
roncador, *Umbrina* 31
rondeleti, *Prognichthys* 21
Ronquilus 42
rosaceus, *Sebastes* 37
 Zalambius 33
rosae, *Amblyopsis* 22
 Hyporhamphus 20
roseipinnis, *Notropis* 16
roseus, *Cryptotomus* 34
 Prionotus 38
rosispinis, *Raja* 8
rostrata, *Anguilla* 19
 Canthigaster 49
rostratus, *Heterostichus* 42
rothroeki, *Poroclinus* 44
rubellio, *Oligocottus* 40
rubellus, *Notropis* 16
ruber, *Caranx* 29
 Risor 36
ruberrimus, *Sebastes* 37
rubicunda, *Hypsypops* 33
rubio, *Prionotus* 38
rubreques, *Moxostoma*—see *valenciennesi*,
 M.
rubricroceus, *Notropis* 16
rubrifrons, *Hybopsis* 14
rubripinne, *Sparisoma* 34
rubrivinctus, *Sebastes* 37
rubrocinctus, *Heteristius* 42
rubrofluvialilis, *Cyprinodon* 21
rufilineatum, *Etheostoma* 28
rufus, *Bodianus* 33
 Holocentrus 24
 rupestre, *Etheostoma* 28
 rupestris, *Ambloplites* 27
 rupiscartes, *Moxostoma* 18
Ruscarius 40
rutteri, *Liparis* 41
Ruwettus 34
Rypticus 26

S

sabina, *Dasyatis* 9
sabinae, *Notropis* 16
saburrae, *Chasmodes* 43
sadina, *Etrumeus* 10
sagax, *Sardinops* 10
sagitta, *Etheostoma* 28
 Lumpenus 44
saida, *Boreogadus* 22
saira, *Cololabis* 20
salar, *Salmo* 11
salinus, *Cyprinodon* 21
Salmo 11
salmoides, *Micropterus* 27
Salmonidae 11
Salmopercae 24
saltator, *Hemiramphus* 20
saltatrix, *Pomatomus* 29
saludae, *Etheostoma* 28
Salvelinus 12
sanctaerosae, *Uvicola* 43
santaanae, *Pantosteus* 18
sapidissima, *Alosa* 10
saponaccus, *Rypticus* 26
Sarda 35
sarda, *Sarda* 35
Sardinella 10
sardinella, *Coregonus* 11
Sardinops 10
Sarritor 40
Satan 19
saturnum, *Cheilotrema* 31
Saurida 13
saurus, *Elops* 10
 Oligoplites 30
 Scomberesox 20
saxatilis, *Abudefduf* 33
 Menticirrhus 31
 Roccus 26
saxicola, *Sebastes* 37
sayanus, *Aphredoderus* 24
sayi, *Dasyatis* 9
scaber, *Antennarius* 50
scabrata, *Raja*—see *radiata*, *R.*
scabriceps, *Notropis* 16
Scaphirhynchus 9
Scardinius 17
Scaridae 34
Scarus 34

- scepticus, Notropis* 16
Schilbeodes—see *Noturus*
schoepfi, Alutera 48
Chilomycterus 49
schomburgki, Pempheris 32
schultzi, Photis 43
sciadicus, Fundulus 21
Sciaenidae 31
Sciaenops 31
sciara, Percina 29
scitulus, Prionotus 38
sciurus, Haemulon 31
Scoliodon 7
scolopax, Macrorhamphosus 23
Scomber 35
Scomberesocidae 20
Scomberesox 20
Scomberomorus 35
Scombridae 34
scombrus, Scomber 35
Scopelarchidae 13
Scophthalmus 47
Scorpaena 36
Scorpaenichthys 40
Scorpaenidae 36
Scorpaenodes 37
Scorpidae 32
scorpioides, Myoxocephalus 40
scorpius, Myoxocephalus 40
scovelli, Syngnathus 23
scrippsae, Otophidium 45
scripta, Alutera 48
scuticaris, Bascanichthys 19
Scyliorhinidae 7
Scyliorhinus 7
Scytalina 44
Seytalimidae 44
Sebastes 37
Sebastodes 37
Sebastolobus 38
sectatrix, Kyphosus 32
secundodorsalis, Thunnus—see *thynnus*,
T.
sedecim, Pagrus 32
sedentarius, Chaetodon 32
Selachii 6
Selar 30
Selene 30
selenops, Ophidion 45
sellare, Etheostoma 28
semicinctus, Halichoeres 34
Sebastodes 38
semifasciata, Triakis 7
seminodis, Fundulus 21
Semionotiformes 10
Semotilus 17
senilis, Gambusia 22
senta, Raja 8
sentus, Engyophrys 46
sericeus, Rhodeus 16
Seriola 30
Seriphus 31
serpens, Gempylus 34
Serranellus 26
Serraniculus 26
Serranidae 25
serranoides, Sebastodes 38
Serranus 26
serriceps, Sebastodes 38
serriferum, Etheostoma 28
serrula, Pristigenys 26
sessilicauda, Monolene 47
setapinnis, Vomer 30
setifer, Monacanthus 49
setiger, Dasycottus 39
shufeldti, Gobionellus 36
shumardi, Percina 29
sialis, Argentina 12
Vacuqua 31
sicculus, Labidesthes 46
sigalutes, Gilbertidia 39
signatus, Bathymaster 42
Hypoprion 7
signipinnis, Notropis 16
silenus, Zaprora 45
silus, Argentina 12
similis, Fundulus 21
simillima, Palometa 45
simoterum, Etheostoma 28
simulus, Hemiemblemaria 42
simus, Notropis 16
Siphateles 17
smaragdus, Erotelis 35
Gobionellus 36
smithi, Brevoortia 10
snyderi, Catostomus 17
Oligocottus 40
Snyderichthys 17
solanderi, Acanthocybium 34
Soleidae 47
Solenichthyes 23
Somniosus 8
soporator, Bathygobius 35
sordidus, Citharichthys 46
Sparidae 32
Sparisoma 34
spathula, Polyodon 9
spatula, Icelus 39
Lepisosteus 10
spectabile, Etheostoma 28
spectrunculus, Notropis 16
spelaea, Amblyopsis 22
spengleri, Sphaeroides 49
Sphaeroides 49

- Sphyraena* 45
 Sphyraenidae 45
Sphyrna 7
 Sphyrnidae 7
spilonotus, *Prosopium* 11
spilopterus, *Citharichthys* 46
 Notropis 16
spinicauda, *Raja* 9
spinosa, *Acanthemblemaria* 42
spinosus, *Eumicrotremus* 41
 Hemilepidotus 39
Spirinchus 12
spongicola, *Evermannichthys* 36
springeri, *Gordüichthys* 19
 Syngnathus 23
 Squalidae 8
 Squaliformes 6
Squalus 8
squamata, *Percina* 29
squamiceps, *Etheostoma* 28
squamilentus, *Paralichthys* 47
Squatina 8
 Squatinidae 8
stabuliforis, *Raja*—see *laevis*, *R.*
stahli, *Stathmonotus* 43
starksi, *Spirinchus* 12
Stathmonotus 43
stearnsi, *Prionotus* 38
 Roncador 31
Stelgis 40
stellatus, *Apogon* 26
 Platichthys 47
stelleri, *Hexagrammos* 38
Stellerina 40
Stellifer 31
stellifer, *Fundulus* 21
stellulata, *Raja* 9
Stenodus 12
stenolepis, *Hippoglossus* 47
Stenotomus 32
Stephanolepis—see *Monacanthus*
stephanophrys, *Prionotus* 38
stephensae, *Neoclinus* 43
Stereolepis 26
sterletus, *Agonopsis* 40
 Stichaeidae 44
Stichaeus 44
 stigmaeum, *Etheostoma* 28
 stigmaeus, *Citharichthys* 46
 stigmaticus, *Gobionellus* 36
 stigmaturus, *Gobionellus* 36
 stilbius, *Leuroglossus* 12
 Notropis 16
 stipes, *Atherinomorus* 46
Stizostedion 29
stomata, *Hippoglossina* 47
stomias, *Atheresthes* 47
 storceriana, *Hybopsis* 14
 stouti, *Polistotrema* 6
 stramineus, *Notropis* 16
 striatus, *Centropristes* 25
 Chaetodon 32
 Epinephelus 25
 Stromateidae 45
Strongylura 20
strumosus, *Gobiesox* 48
 Stylephoridae 24
Stylephorus 24
 subbifrenatus, *Rypticus* 26
 subbifurcata, *Ulvaria* 44
 subligarius, *Serranellus* 26
 subterraneus, *Typhlichthys* 22
 sucetta, *Erimyzon* 17
 suckleyi, *Squalus*—see *acanthias*, *S.*
 sufflamen, *Canthidermis* 48
 superciliosus, *Alopias* 6
 Hexagrammos 38
 surinamensis, *Anisotremus* 30
 Lobotes 26
 swaini, *Etheostoma* 28
 swani, *Bothragonus* 40
 swannanoa, *Etheostoma* 28
Syacium 47
symmetricus, *Hesperoleucus* 14
 Lepomis 27
 Trachurus 30
Symphurus 48
synagris, *Lutjanus* 26
syncheilus, *Catostomus*—see *columbianus*,
 C.
Synchirus 40
 Synentognathi 20
 Syngnathidae 23
Syngnathus 23
 Synodontidae 13
Synodus 13
synodus, *Synodus* 13

T

- tabacaria*, *Fistularia* 23
Taeniotoxa—see *Embiotoca*
tahoensis, *Catostomus* 17
tajasica, *Awaous* 35
Taractes 30
Tarpon—see *Megalops*
tau, *Opsanus* 49
taurina, *Enophrys* 39
taurus, *Abudefduf* 33
 Carcharias 6
Tautoga 34
Tautogolabrus 34
taylori, *Asemichthys* 39
 Otophidium 45
tenellus, *Pimephales* 16

- tenuis*, *Cottus* 39
Erimyzon 17
Icelinus 39
Leuresthes 46
Urophycis 22
teres, *Bascanichthys* 19
teretulus, *Phenacobius* 16
tergisus, *Hiodon* 12
terraenovae, *Eumicrotremus* 41
Scoliodon 7
testudineus, *Sphaeroides* 49
Tetragonuridae 45
Tetragonurus 45
Tetranarce—see *Torpedo*
Tetraodontidae 49
Tetraodontiformes 48
Tetrapturus 35
tetrazonum, *Etheostoma* 28
texana, *Raja* 9
texanus, *Notropis* 16
Xyrauchen 18
textilis, *Entomacrodus* 43
thalassinum, *Etheostoma* 28
thalassinus, *Microgobius* 36
Thalassoma 34
Thaleichthys 12
thaleichthys, *Spirinchus* 12
thazard, *Auxis* 34
Theragra 22
thompsoni, *Gnatholepis* 36
Ophioscion 31
Thoracostei 23
thrissina, *Harengula* 10
Thunnus 35
Thymallus 12
thynnus, *Thunnus* 35
Tiaroga 17
tiburo, *Sphyrna* 8
tigrinus, *Myrichthys* 20
tigris, *Mycteroperca* 25
Isurus—see *oxyrinchus*, *I.*
timucu, *Strongylura* 20
Tinca 17
tinca, *Tinca* 17
tippecanoe, *Etheostoma* 28
tomcod, *Microgadus* 22
topeka, *Notropis* 16
Torpedinidae 8
Torpedo 8
tortugarum, *Serranus* 26
townsendi, *Apogon* 26
toxotes, *Rhacochilus* 33
Trachinocephalus 13
Trachinotus 30
Trachipteridae 24
Trachipterus 24
trachura, *Raja* 9
Trachurops—see *Selar*
Trachurus 30
trachypomus, *Ostichthys* 24
trachypterus, *Trachipterus* 24
transmontana, *Percopsis* 24
transmontanus, *Acipenser* 9
traski, *Hysteroecarpus* 33
treculi, *Micropterus* 27
Triacanthodidae 48
triacanthus, *Poronotus* 45
Xeneretmus 41
triactis, *Orthonopias* 40
Triakis 7
triangulatus, *Malacocentrus* 43
tribulus, *Prionotus* 38
Trichiuridae 34
Trichiurus 34
Trichodon 41
trichodon, *Mugil* 46
Trichodon 41
Trichodontidae 41
Trichopsetta 47
trichroistius, *Notropis* 16
tricolor, *Holacanthus* 32
tricuspis, *Gymnocanthus* 39
tridentata, *Lampetra* 6
tridigitatus, *Dactyloscopus* 42
Triglidae 38
Triglops 40
trigonus, *Lactophrys* 49
Trinectes 47
triporiceps, *Conger* 19
triqueter, *Lactophrys* 49
triserialis, *Ophichthys* 20
triseriata, *Platyrhinoidis* 8
trispinosa, *Odontopyxis* 40
Trogloglanis 19
trutta, *Salmo* 12
tshawytscha, *Oncorhynchus* 11
tuckeri, *Monacanthus* 49
tunicatus, *Liparis* 41
turneri, *Lycodes* 44
tuscumbia, *Etheostoma* 28
Typhlichthys 22
Typhlogobius 36
typus, *Rhincodon* 7
tyrannus, *Brevoortia* 10

U

- Ulvaria* 44
Ulvicola 43
Umbra 12
umbratilis, *Notropis* 16
Umbridae 12
Umbrina 31
umbrosus, *Sebastodes* 38
umpqua, *Ptychocheilus* 16
uncinatus, *Artediellus* 38
undecimalis, *Centropomus* 25

<i>undulatus, Menticirrhus</i>	31
<i>Micropogon</i>	31
<i>unicolor, Hypoplectrus</i>	25
<i>unicuspis, Ichthyomyzon</i>	6
<i>unifasciatus, Hyporhamphus</i>	20
<i>uninotatus, Neoclinus</i>	43
<i>Upeneus</i>	32
<i>uranidea, Percina</i>	29
<i>uranops, Phenacobius</i>	16
Uranoscopidae	42
<i>uranoscopus, Notropis</i>	16
<i>Uraspis</i>	30
<i>Urolophus</i>	9
<i>Urophycis</i>	22
<i>urospilus, Symphurus</i>	48
<i>usta, Nicholsina</i>	34
<i>uter, Cephaloscyllium</i>	7

V

<i>vacca, Rhacochilus</i>	33
<i>Vacuqua</i>	31
<i>valenciennesi, Morostoma</i>	18
<i>variabilis, Eupomacentrus</i>	33
<i>variatum, Etheostoma</i>	28
<i>variegatus, Cyprinodon</i>	21
<i>velifer, Carpiodes</i>	17
<i>Letharchus</i>	19
<i>velox, Euleptorhamphus</i>	20
<i>venenosa, Mycteroperca</i>	25
<i>ventralis, Alutera</i>	48
<i>Trichopsetta</i>	47
<i>Xyrichthys</i>	34
<i>ventricosus, Aptocyclus</i>	41
<i>venustus, Notropis</i>	16
<i>Verna</i>	20
<i>vermiculatus, Esox americanus</i>	12
<i>verrilli, Lycenchelys</i>	44
<i>verrucosa, Occa</i>	40
<i>verticalis, Pleuronichthys</i>	47
<i>vespertilio, Ogcocephalus</i>	50
<i>vetula, Balistes</i>	48
<i>Scarus</i>	34
<i>vetulus, Parophrys</i>	47
<i>vexillaris, Sebastodes</i>	38
<i>vexillarius, Holocentrus</i>	24
<i>vicinus, Gymnothorax</i>	19
<i>vigilar, Pimephales</i>	16
<i>villosus, Mallotus</i>	12
<i>vinculus, Radulinus</i>	40
<i>violacea, Dasyatis</i>	9
<i>violaceus, Cebidichthys</i>	44
<i>virens, Pollachius</i>	22
<i>virescens, Pantosteus</i>	18
<i>virgatum, Etheostoma</i>	28
<i>virginicus, Anisotremus</i>	30
<i>Polydactylus</i>	46
<i>viride, Sparisoma</i>	34
<i>viridis, Euleptorhamphus</i>	20

<i>Gymnelis</i>	44
<i>vitreum, Etheostoma</i>	28
<i>Stizostedion vitreum</i>	29
<i>vittata, Lepidomeda</i>	14
<i>vittatus, Micrognathus</i>	23
<i>vivanus, Hemanthias</i>	25
<i>Lutjanus</i>	26
<i>vivax, Ammocrypta</i>	27
<i>volador, Istiophorus</i> —see <i>albicans, I.</i>	
<i>volitans, Dactylopterus</i>	41
<i>Exocoetus</i>	21
<i>volucellus, Notropis</i>	16
<i>Vomer</i>	30
<i>vomer, Sclene</i>	30
<i>vulpes, Albula</i>	10
<i>vulpinus, Alopias</i>	6
<i>vilva, Stelgis</i>	40

W

<i>waccamensis, Fundulus</i>	21
<i>warnerensis, Catostomus</i>	17
<i>welaka, Notropis</i>	16
<i>welshi, Ophidion</i>	45
<i>wheatlandi, Gasterosteus</i>	23
<i>whipplei, Etheostoma</i>	28
<i>Notropis</i>	16
<i>whitehursti, Opisthognathus</i>	42
<i>williamsoni, Prosopium</i>	11
<i>wilsoni, Sebastodes</i>	38

X

<i>xaenocephalus, Notropis</i>	16
<i>xaenurus, Notropis</i>	16
<i>xaniurus, Parmaturus</i>	7
<i>Xanthichthys</i>	49
<i>xanthostigma, Citharichthys</i>	46
<i>xanthulus, Cynoscion</i>	31
<i>xanthurus, Leiostomus</i>	31
<i>xantusi, Lepidopus</i>	34
<i>xenarcha, Mycteroperca</i>	25
<i>Xenerctmus</i>	40
<i>xenica, Adinia</i>	21
<i>Xenistius</i>	31
<i>Xenopterygi</i>	48
<i>Xererpes</i>	43
<i>Xiphias</i>	35
Xiphiidae	35
<i>Xiphister</i>	44
<i>x-punctata, Hybopsis</i>	14
<i>xyosterna, Stellerina</i>	40
<i>Xyrauchen</i>	18
<i>Xyrichthys</i>	34
<i>Xystreuryx</i>	47

Y

<i>yaito, Euthynnus</i>	34
<i>y-cauda, Quietula</i>	36

<i>y-graecum</i> , <i>Astroscopus</i>	42	<i>zenithicus</i> , <i>Coregonus</i>	11
<i>yoshiae</i> , <i>Anarchias</i>	19	<i>Zenopsis</i>	24
Z			
<i>zacentrus</i> , <i>Sebastes</i>	38	<i>Zeomorphi</i>	24
<i>zachirus</i> , <i>Glyptocephalus</i>	47	<i>Zoarcidae</i>	44
<i>Zalambius</i>	33	<i>zonale</i> , <i>Etheostoma</i>	28
<i>Zalieutes</i>	50	<i>zonata</i> , <i>Seriola</i>	30
<i>Zaniolepidae</i>	38	<i>zonatum</i> , <i>Elassoma</i>	27
<i>Zaniolepis</i>	38	<i>zonatus</i> , <i>Chaetodipterus</i>	32
<i>Zaprora</i>	45	<i>Notropis</i>	16
<i>Zaproridae</i>	45	<i>zonifer</i> , <i>Eriolepis</i>	38
<i>Zapteryx</i>	8	<i>zoniferum</i> , <i>Etheostoma</i>	29
<i>zebra</i> , <i>Lythrypnus</i>	36	<i>zonistius</i> , <i>Notropis</i>	16
<i>zebrinus</i> , <i>Fundulus</i>	21	<i>zonope</i> , <i>Jordania</i>	39
<i>Zeidae</i>	24	<i>zophochir</i> , <i>Ophichthus</i>	20
<i>Zeiformes</i>	24	<i>zosteræ</i> , <i>Hippocampus</i>	23
		<i>zygaena</i> , <i>Sphyrna</i>	8
		<i>zyopterus</i> , <i>Galeorhinus</i>	7

