

This ebook is for the use of anyone anywhere in the United States and most other parts of the world at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this ebook or online at [www.gutenberg.org](http://www.gutenberg.org). If you are not located in the United States, you'll have to check the laws of the country where you are located before using this eBook.

Title: Favorite Fish and Fishing

Author: James A. Henshall

Release date: September 23, 2013 [EBook #43797]

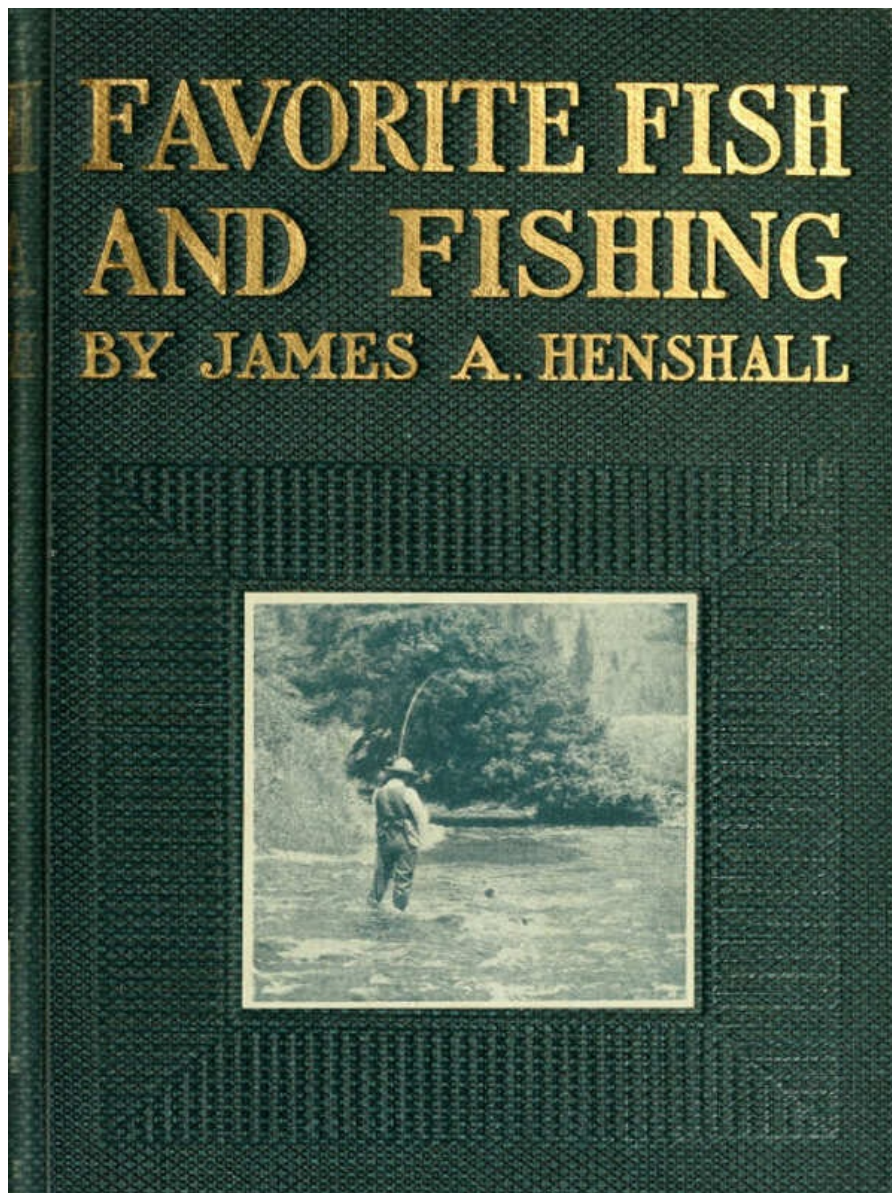
Language: English

Credits: Produced by Greg Bergquist, Sandra Eder, and the Online Distributed Proofreading Team at <http://www.pgdp.net> (This file was produced from images generously made available by The Internet Archive/American Libraries.)

\*\*\* START OF THE PROJECT GUTENBERG EBOOK FAVORITE FISH AND FISHING \*\*\*

**Transcriber's note:**

A list of corrections made can be found at the end of the book.  
Click on the images to see higher resolution scans.



## FAVORITE FISH AND FISHING

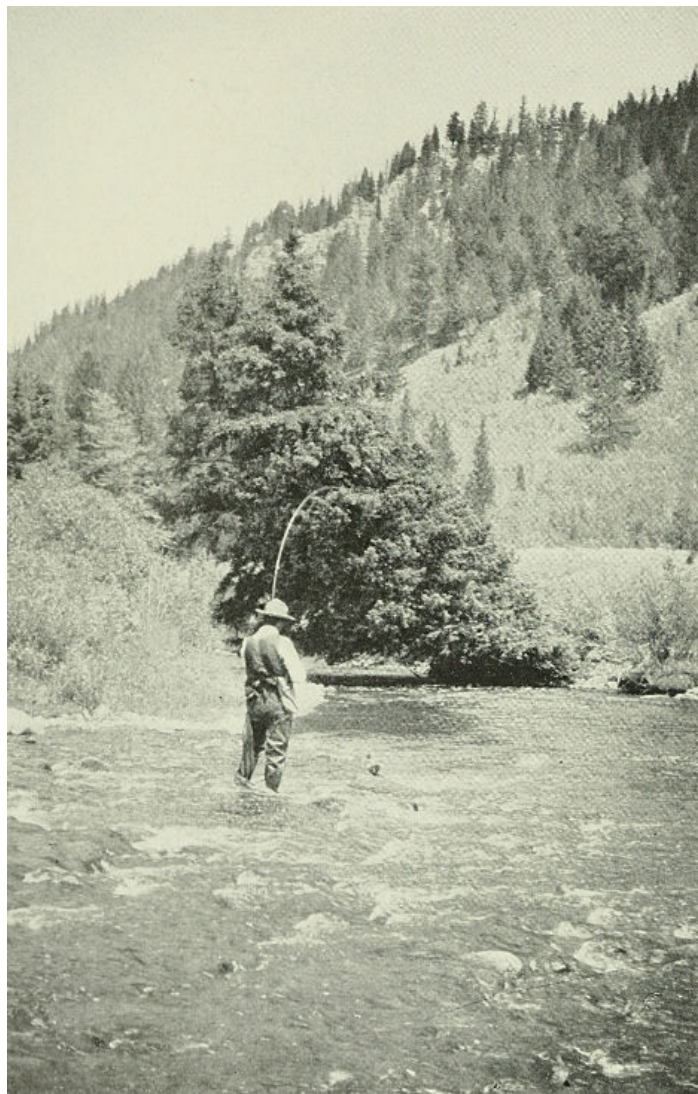


Photo by A. Radclyffe Dugmore.  
*Country Life.*

Copyright by

Grayling Fishing on West Fork of Madison River, Montana.  
*Frontispiece. (See page 43.)*

## FAVORITE FISH AND FISHING

BY  
JAMES A. HENSHALL, M.D.

Author of "Book of the Black Bass," "Camping and Cruising in Florida," "Ye Gods and Little Fishes," "Bass, Pike, Perch and Others."

*"And yf the angler take fysshe: surely thenne is there noo man merier than he is in his spyryte."*  
—Dame Juliana Berners.



NEW YORK  
THE OUTING PUBLISHING COMPANY



Copyright, 1908, by  
THE OUTING PUBLISHING  
COMPANY

Entered at Stationers' Hall, London, England

*All Rights Reserved*

To  
THE MEMORY  
of  
JUDGE NICHOLAS LONGWORTH  
My Friend and Companion  
On Many Outings by  
FLOOD AND FIELD

## ACKNOWLEDGMENTS

This book is based on articles originally published in *The Outing Magazine*, *Country Life in America*, *Shooting and Fishing*, *London Fishing Gazette* and *The American Fishculturist*. My thanks and acknowledgments are hereby tendered to the publishers of those journals for permission to embody the articles in book form. For this purpose they have been added to, amplified and extended. For the illustrations of fishes I am indebted to the United States Bureau of Fisheries, Mr. Sherman F. Denton and Dr. Frank M. Johnson.

JAMES ALEXANDER HENSHALL.

BOZEMAN, Montana.

# CONTENTS

	PAGE
THE BLACK BASS: THE GAME-FISH OF THE PEOPLE	<u>3</u>
THE GRAYLING: THE FLOWER OF FISHES	<u>43</u>
THE TROUT: THE ANGLER'S PRIDE	<u>65</u>
HIS MAJESTY: THE SILVER KING	<u>121</u>
FLORIDA FISH AND FISHING	<u>141</u>



Grayling Fishing on West Fork of Madison River, Montana	<i>Frontispiece</i>
	FACING
	PAGE
Black Bass Returning to Water After Leaping	<u>4</u>
Large Mouth Black Bass	<u>8</u>
Small Mouth Black Bass	<u>12</u>
Black Bass Returning to Water After Leap	<u>32</u>
Michigan Grayling	<u>46</u>
Arctic Grayling	<u>50</u>
Montana Grayling	<u>54</u>
English Grayling	<u>60</u>
Brook Trout	<u>66</u>
Red Throat, or Cut-Throat Trout	<u>72</u>
Steelhead Trout	<u>80</u>
Rainbow Trout	<u>88</u>
Dolly Varden Trout	<u>94</u>
Brown Trout	<u>100</u>
Golden Trout of Volcano Creek	<u>106</u>
Sunapee Trout	<u>114</u>
Tarpon	<u>128</u>
Sheepshead	<u>142</u>
Cavalla	<u>144</u>
Sea Trout	<u>146</u>
Spanish Mackerel	<u>148</u>
Kingfish	<u>150</u>
Cero	<u>150</u>
Redfish; Channel Bass	<u>154</u>
Red Grouper	<u>156</u>
Mangrove Snapper	<u>158</u>
Ten Pounder	<u>160</u>
Ladyfish	<u>160</u>
Snook; Rovallia	<u>164</u>
Jewfish	<u>166</u>
Shark Sucker	<u>168</u>
Enlarged View of Sucking Disk	<u>168</u>
Florida Barracuda	<u>172</u>
Northern Barracuda	<u>172</u>
Manatee	<u>176</u>
Devil Fish	<u>178</u>

# THE BLACK BASS: THE GAME FISH OF THE PEOPLE



## THE BLACK BASS: THE GAME FISH OF THE PEOPLE

### Parlous Times in Angling

THESE be parlous times in angling. When William King, in the seventeenth century, with as much prophecy as humor, wrote:

"His hook he baited with a dragon's tail  
And sat upon a rock and bobbed for whale,"

he builded better than he knew. And if Job had lived in the twentieth century, the query: "Canst thou draw out Leviathan with an hook?" would be answered in the affirmative; also, it would be demonstrated that "He maketh the deep to boil like a pot," at Fort Myers and Catalina.

The shades of Walton and Cotton, of Sir Humphrey Davy and "Christopher North," and of our own Dr. Bethune and Thaddeus Norris, could they "revisit the glimpses of the moon," would view with wonder and silent sorrow the tendency of many anglers of the present day toward strenuousness, abandoning the verdure-clad stream, with its warbling birds and fragrant blossoms, for the hissing steam launch and vile-smelling motor boat in pursuit of leaping tuna and silver king. It goes without saying, however, that considered as a sport, fishing for these jumbos is highly exciting and capable of infusing unbounded enthusiasm, but it can hardly be called angling.

### The Ethics of Sport

In the ethics of sport it may be questioned if there is not more real pleasure, and at the same time a manifestation of a higher plane of sportsmanship, in the pursuit of woodcock, snipe, quail or grouse with well-trained bird-dogs, than in still-hunting moose, elk or deer. In the former case the bird is flushed and given a chance for life, while in the latter case the quarry is killed "as an ox goeth to the slaughter."



Photo by A. Radclyffe Dugmore. Copyright by *Country Life*.

Black Bass returning to water after leaping. (See *page 15*.)

So in fishing a like comparison is possible—fly-fishing for salmon, black bass, trout, or grayling as against fishing for tarpon and tuna, which are worthless when killed except as food for sharks. In the first case the angler's skill, and his knowledge of its habits, are pitted against the wiles of the fish, with but a weak and slender snell of silkworm fiber between its capture or escape, while in the case of the leviathans mentioned, they are handicapped by being hooked in the gullet, and by towing a boat in their struggle for freedom. But comparisons are always odious. While the choice between the "gentle" art and strenuous fishing is certainly a question of taste, it may depend somewhat on the length of one's purse.

### Black Bass Fishing

Black-bass fishing! These are words to conjure with. What pleasurable emotions they call up! To the superannuated angler the words are fraught with retrospective reflections of the keenest enjoyment, while they cause the soul of the new hand to become obsessed with pleasures yet to come—pleasures rendered brighter by the rosy tint of anticipation.

### The Love of Angling

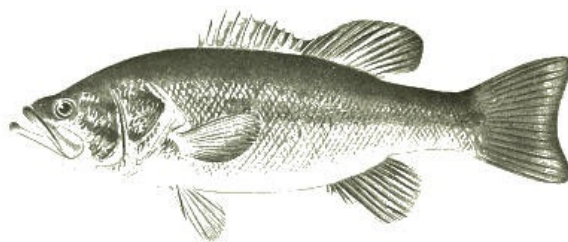
With the first blossoms of spring the thoughts of many men, both old and young, turn lightly to love—the love of angling. And as the leaves unfold, and the birds begin their wooing, and the streams become clear, the premonitory symptoms of the affection are manifested in a rummaging of drawers and lockers for fly-books and tackle boxes, and the critical examination of rods and reels, and in the testing of lines and leaders. These preliminaries are the inevitable harbingers of the advent of the angling season, when black bass are leaping gayly from the waters after their enforced hibernation in the gloom and seclusion of the deep pools.

And when the encroachment of age or rheumatism forbids wading the stream, one can still sit in a boat on a quiet lake and enjoy to the full the delight and fascination of "bass fishing." What farmer's boy in the Middle West does not look forward to a Saturday when the ground is too wet to plow or plant, when he can't repair to the creek or pond with his rude tackle and realize his fond dreams of fishing for black bass! And when such a day arrives, as it is sure to do, how he hurries through the chores, and with what sanguine hope he digs for angle-worms in the garden, or nets crawfish or minnows in the brook, each one good for at least one "sockdolager" of a bass. For it sometimes happens that a bass will take a wriggling earth-worm or a "soft craw" when it will not deign to notice the choicest minnow or the most cunningly devised artificial fly.

### Youthful Ambition

And the country lad always knows just where an old "whopper" of a bronze-back black bass has his lair beneath the roots of a big tree, or under the ledge of a moss-grown rock. To do future battle with such an one has engrossed his thoughts by day and his dreams by night, ever since the Christmas tree for him bore such fruit as a linen line, a red and green float and a dozen fishhooks.

The triumphal march of a Roman warrior, with captives chained to his chariot wheels, entering the gates of the Eternal City with a blare of trumpets and the applause of the multitude, was an event to fill his soul with just pride—but it descends to the level of vainglory and mediocrity when compared with the swelling heart of the lad as he enters the farmhouse kitchen with two or three old "lunkers" of black bass strung on a willow withe. Many times during his homeward march had he halted to admire the scale armor and spiny crests of his captive knights!



From a color sketch by Sherman F. Denton.

Large Mouth Black Bass. (*Micropterus salmoides*.)

And then to an appreciative audience he relates, in a graphic manner, how this one seized a minnow, and that one a crawfish, and the other one a hellgramite—and how often each one leaped from the water, and how high it jumped—and how the "ellum" rod bent and twisted as the large one tried to regain the hole under the big rock—and how the good line cut the water in curving reaches and straight lines as another one forged toward the sunken roots of the old sycamore. And then came the climax, as, with pride and regret struggling for mastery, and "suiting the action to the word and the word to the action," he tells again the old, old story of how the biggest of all, a regular "snolligoster," shook out the hook and got away!

In the years to come, will that lad exult over the capture of a mighty tuna or giant tarpon with as much genuine joy and enthusiasm as over that string of bass? Well, hardly. And as the boy is father to the man, and as we are all but children of larger growth, the black-bass angler never outlives that love and enthusiasm of his younger days—younger only as reckoned by the lapse of years.

**In Olden Time**

Although the black bass, as a game fish, has come into his own only during the last two or three decades, black-bass fishing is older than the Federal Union. The quaint old naturalist, William Bartram, the "grandfather of American ornithology," in 1764, described, minutely, "bobbing" for black bass in Florida, there, as in all the Southern States, called "trout"—a name bestowed by the English colonists owing to its gameness. While black-bass fishing is comparatively a recent sport in the Eastern States, it was practiced in Kentucky, Tennessee and southern Ohio before the end of the eighteenth century. In 1805 George Snyder, the inventor of the Kentucky reel, was president of the Bourbon County Angling Club at Paris, Kentucky. Fly-fishing was practiced as early as 1840 on the Elkhorn and Kentucky rivers by Mr. J. L. Sage and others. His click reel, made by himself, is now in my possession; and George Snyder's own reel, made in 1810, a small brass multiplying reel running on garnet jewels, is still in the possession of his grandson at Louisville.

**Appearance  
and Habits**

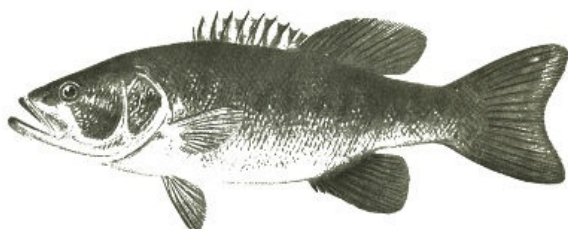
The black bass is now an acknowledged peer among game fishes, and taking him by and large excels them all, weight for weight. The generic term black bass, as here used, includes both the large-mouth bass and the small-mouth bass. The two species are as much alike as two peas in a pod, the most striking difference between them being that one has a larger mouth and larger scales than the other. When subject to the same conditions and environment, they are equal in game qualities. The habits of the two species are similar, though the large-mouth bass is more at home in ponds and weedy waters than the small-mouth bass, which prefers running streams and clear lakes. Their natural food is crawfish, for which their wide mouths and brush-like teeth are well adapted, though they do not object to an occasional minnow or small frog.

**Now and Then**

Owing to the wide distribution of black bass, fishing for it is universal. It is no less enjoyed by the rustic youth with peeled sapling rod and crawfish bait than by the artistic angler with slender wand and fairy-like flies. While black-bass fishing was known and practiced in the Ohio Valley from the earliest years of the nineteenth century, as just stated, our angling books for three-fourths of the century contained but little, if anything, about the black bass, as they were mostly compilations from English authors. The only exception were the books of Robert B. Roosevelt, an uncle of the President, who fished for black bass in Canada about 1860. At the present day there are more articles of fishing tackle made especially for black bass than for all other game fishes combined. This is proof that it is the most popular and, all things considered, the best game fish of America.

**The Charm of  
Angling**

Salmon fishing, the grandest sport in the curriculum of angling, is now an expensive luxury. There is but little free water readily accessible, for all the best pools are in the possession of wealthy clubs. The bold leap of the salmon, when hooked, the exciting play of the fish on the rod, and the successful gaffing, are as so many stanzas of an epic poem. Trout fishing is a summer idyl. The angler wades the merry stream while the leaves whisper and rustle overhead, the birds chirp and sing, the insects drone and hum, the cool breeze fans his cheek, as he casts his feathery lures, hither and yon, in eager expectation of a rise.



From a color sketch by Sherman F. Denton.

Black-bass fishing combines, in a measure, the heroic potentialities of salmon fishing with the charms of trout fishing. The leap of the bass is no less exciting than that of the salmon, and is oftener repeated, while in stream fishing the pastoral features of trout fishing are experienced and enjoyed.

#### The Leap of Fishes

The leap of a hooked fish is always an exciting episode to the angler with red blood in his veins—exciting because as an offset to its probable capture there is the very possible contingency of its escape by throwing out the hook, or by breaking away. So with each leap of the bass the hopes and fears of the angler are constantly exercised, while his pulses quicken and his enthusiasm is aroused. Game fishes often leap a few inches above the surface in play, or to catch a low-flying insect; but when hooked they vault to a height commensurate with their agility and muscular ability. They do not leap so high, however, as is commonly supposed.

#### Vaulting Ambition

A tarpon will leap six feet high, but the cero, or Florida kingfish, will leap higher, for it is the greatest vaulter of them all. The ladyfish executes a series of short, whirling leaps that puzzle the eye to follow—it is the gamest fish for its size in salt water. The leap of the flying-fish is sustained for a long distance by its wing-like pectoral fins, on the principle of the aëroplane, though its sole motive power is probably derived from its tail before leaving the water. The salt-water mullet is an expert jumper, leaping often in play, but when pursued by an enemy its leaps are higher and longer than would be expected from its size. The brook trout, pike, and mascalonge seldom leap when hooked, though the steelhead trout and grayling both leap nearly as often as the black bass in their efforts to dislodge the hook. The leap of the salmon is a long, graceful curve, as it heads up stream. Once, while playing my first salmon, on the Restigouche, many years ago, my taut line was leading straight down the stream, when I caught sight of a salmon over my shoulder and above me, leaping from the surface, which, to my surprise, proved to be my hooked fish—the line making a long detour in the swift water.

#### Leap of the Black Bass

I have heard many anglers declare that a black bass could leap five feet high, when as a matter of fact they leap but a few inches, usually, and occasionally one, or at most three feet, though I think two feet nearer the limit. By an examination of Mr. A. Radcliffe Dugmore's photograph, reproduced herewith, it will readily be seen that the leaps are not very high ones. A black bass is in the air but a second or two, and to catch him in the act as Mr. Dugmore has done must be considered a wonderful achievement. The picture shows the bass returning to the water, with either the head or the shoulders at, or beneath, the surface, while the displaced water at his point of emergence still shows plainly—standing up, as it were. This proves that the bass regains the surface as soon as the displaced water, or rather before the upheaved water finds its level, which could not be the case were the leaps three or four feet high.

[16]

#### Why the Bass Leaps

Why does a hooked bass leap from the water? This question is sometimes raised, though the answer is plain. He leaps into the air to endeavor to dislodge the hook; this he tries to do by violently shaking his body, with widely extended jaws. He does not "shake his head," as is often said, for having no flexible neck, his head can only be thrown from side to side by the violent contortions of his body, often using the water as a fulcrum, when he appears to be standing on his tail. A dog or a cat will shake its head vigorously to eject some offending substance from the mouth, and a bass does the same thing; but as he cannot shake his body to the extent required beneath the surface, owing to the resistance of the water, he leaps above it. And if he succeeds in throwing out the hook he disappears beneath the surface and is seen no more; his object in leaping has been accomplished.

Usually, it is only surface-feeding fishes that leap when hooked. Bottom-feeding fishes bore toward the bottom or struggle in mid-water. Every fish has its characteristic way of resisting capture, but any fish is more easily subdued if kept on the surface by the skill of the angler and the use of good and trustworthy tackle.

#### Their Way with a Bait

The manner of taking a bait also varies considerably with different fishes; and the character of their teeth is a good guide to what they feed on. For instance, the cunner and sheephead are expert bait stealers. With their incisor teeth their habit is to pinch off barnacles and other mollusks from their attachment to rocks and old timbers, and so they nip off the clam or crab bait from the hook with but little disturbance. A trout takes a fly or bait with a vigorous snap, without investigation as to its nature, and a black bass does much the same, giving immediate and unmistakable notice to the angler that there is "something doing."

#### Breeding Habits

The black bass is one of the few fishes that protects its eggs and young. It forms its nest on gravelly or rocky shoals or shallows, usually, but when such situations are not available, clay or mud bottom, or the roots of aquatic plants are utilized, especially by the large-mouth bass. During incubation the eggs are guarded and tended by the parent fish, and hatch in ten days or two weeks, the fry remaining on the nest, guarded by the male fish, for several days, when they disperse to find suitable hiding places, feeding on minute organisms that abound in all natural waters.

#### Spawning Season

The spawning season of the black bass varies considerably, owing to its extensive range and consequent variation in the temperature of waters. In Florida and the extreme South it is as early as March or April, in the Middle West in May or June, and at the northern limit of its distribution as late as July. Owing to this variation, laws to protect the species during the breeding season must vary accordingly. As the brooding fish are easily taken from their nests with snare, jig or spear, the laws for their protection should be rigidly enforced, otherwise a pond or small lake might soon be depleted where the poacher is much in evidence.

#### Size and Weight

The large-mouth bass grows to a maximum weight of six to eight pounds in Northern waters, where it hibernates, but in Florida and the Gulf States, where it is active all the year, it grows much larger, in Florida to twenty pounds in rare cases. The small-mouth bass has a maximum weight of five or six pounds, though several have been recorded of fully ten pounds, from a lake near Glens Falls, N. Y. As usual with most other game fishes, the largest bass, as a rule, are taken with bait. For instance, the heaviest I ever took in Florida on the artificial fly weighed fourteen pounds, and with bait, twenty pounds. In Northern waters the heaviest catch with the fly, of small-mouth bass, seldom exceeds three pounds—usually from one to two pounds, and for large-mouth bass a pound or two more, while with bait larger fish of both species may be taken.

#### Season for Fishing

Owing to the variable conditions mentioned the season for black-bass fishing varies likewise in different sections of the country. Thus, both bait- and fly-fishing are practiced in Florida during winter. In the Middle West—Kentucky, Tennessee, Ohio, Missouri, etc.—bait-fishing is available in the early spring, and fly-fishing as well as bait-fishing in mid-summer and fall. In the Northern States and Canada both

bait- and fly-fishing are at their best during late summer and the fall months.

**Distribution** The original habitats of the black bass, either of one or both species, were the hydrographic basins of the St. Lawrence, Ohio and Mississippi Rivers. Only the large-mouth existed in the seaboard streams of the South Atlantic and Gulf States. By transplantation the black bass is now a resident of every state in the Union. It will thrive in any water the temperature of which runs up to sixty-five degrees or more in summer. It is one of the best fishes to introduce to new waters where the proper conditions exist, but should never, for obvious reasons, be planted in the same waters with any species of trout.

**Increase in New Waters** As instances of new waters in which its increase was rapid, the Delaware, Susquehanna and Potomac Rivers may be mentioned. In 1854 thirty small-mouth bass, about six inches long, were taken from a creek near Wheeling, W. Va., and placed in the Potomac near Cumberland, Md. From this small plant the entire river above the Great Falls, and all its tributaries, became well stocked, and has afforded fine fishing for years.

**Commercial Fishing** In former years the black bass was quite an important commercial fish in the Middle West, but since the enactment of laws prohibiting seining and net-fishing of streams it is not often seen in the markets, and then it is mostly from private ponds. In the States of Washington and Utah, however, where it was planted in some rather large lakes years ago, the markets are pretty well supplied with this delicious fish, for, barring the lake whitefish, it is the best food-fish of fresh waters. Owing to the well known improvidence of market fishermen it would be well to prohibit its sale entirely in all sections of the country when taken from public waters.

**Propagation** Owing to the desirability of the black bass for stocking waters, the demand for both private and public streams and ponds is far in excess of the supply. Undoubtedly the best plan for stocking is that of planting adult fish, as already alluded to. But owing to the difficulty of obtaining adult fish, the energies of fish culturists have for years been directed to a solution of the question of supply. So far, however, their efforts have been but partially successful.

**Character of Eggs** The eggs of the salmon, trout, grayling, shad, whitefish, etc., can be stripped from the fish, can be separated and manipulated as easily as so much shot, and made to respond readily to fish-cultural methods. But the eggs of the black bass are enveloped in a gelatinous mass that precludes stripping, and their separation is extremely difficult, if not impossible. Consequently any attempt at their incubation by the usual hatchery methods would prove futile.

**Pond Culture** The only feasible and successful plan is that of pond culture. Of this there are several methods. One either allows the bass to proceed with their parental cares in a natural manner; or early separates the parent fish from the young fry, which are then fed and reared to the desired age for planting. The United States Bureau of Fisheries and several of the individual states pursue this plan, and supply the fry to applicants free of charge.

**Millions Saved** There are certain bayous and depressions along the Mississippi and Illinois Rivers and other streams in that section which are overflowed during high water. When the water recedes many black bass and other fishes are left in the bayous, which would eventually perish upon the drying up of the water. It is the practice of the National and several state fish commissions to seine out the fish and transfer them to suitable waters, or to applicants, free of expense. In this way many waters are stocked and millions of fish saved that would otherwise perish.

**Fly Fishing** The black bass rises to the artificial fly as readily as the trout or grayling, if fished for intelligently. The trout takes the fly at or near the surface, while it should be allowed to sink a few inches at nearly every cast for black bass, the same as for grayling. As to flies, any of the hackles, brown, black or gray, are enticing to bass, and such winged flies as Montreal, polka, professor, coachman, silver doctor and a dozen others are very taking on most waters. The most important rules for fly-fishing, or casting the minnow, are to cast a straight line, keep it taut, and to strike on sight or touch of the fish; that is when the swirl is seen near the fly, or when the fish is felt. Striking is simply a slight turning of the rod hand while keeping the line very taut. But more important than all other rules is to keep out of sight of the fish. The flies should be lightly cast, and by slight tremulous motions made to simulate the struggles of a live insect, and then allowed to sink a few inches or a foot. From five o'clock in the afternoon until dusk is usually the best time for fly-fishing.

**Bait Fishing** The best natural bait is the minnow—a shiner, chub, or the young of almost any fish, which is well adapted for either casting, trolling or still-fishing. In waters where it abounds the crawfish is a good bait, especially the shedders or soft craws, to be used only for still-fishing. The hellgramite, the larva of the corydalis fly, in its native waters, is also successful for still-fishing. A small frog is a capital bait on weedy waters, where it is usually cast overhead with a very short and stiff rod. Grasshoppers and crickets are sometimes employed with a fly-rod in lieu of artificial flies, and with good results. The salt-water shrimp, where it is available, near the coasts, is also a good bait for still-fishing. Cut-bait is also sometimes useful.

**Artificial Bait** In the absence of natural bait a spoon or spinner, with a single hook—and more than one should not be used by the humane angler—is well adapted for casting or trolling. It should be remembered that all baits, of whatever kind, should be kept in motion. A dead minnow answers as well as a live one for casting or trolling, but should be alive for still-fishing. With crawfish, worms, shrimps or hellgramites a float should be employed to keep them from touching the bottom.

**Bait-Casting** In casting the minnow it should be hooked through the lips, and reeled in slowly after each cast to imitate the motions of a live one as much as possible. A spoon or spinner should be reeled in much faster in order to cause it to revolve freely. The most effective way of casting, either with minnow or spoon, is by the underhand method; nearly as long, and more delicate casts can be made as by the overhead cast with short, stiff rod. The mechanics of fly- or bait-casting can hardly be expressed in words or explained without diagrams or cuts. The best plan for beginners is to accompany an old hand to the stream and witness the practical demonstration of the art.

**Fishing Rods** A trout fly-rod answers just as well for black bass, with a weight of from five to eight ounces, according to the material and plan of construction, and whether employed by an expert or a tyro. The rod for minnow casting, or indeed for any method of bait-fishing, should be from eight to eight and a half feet long and from seven to eight ounces in weight, as larger fish are taken with bait. For casting the frog in weedy waters a short, stiff rod of five or six feet is used by many. A few words in reference to the origin of this short rod

may not be amiss, especially as I wish to make it a matter of record.

#### The Short Bait-Casting Rod

At the time of the Chicago Fair, in 1893, my old friend, James M. Clark, a good angler, was superintendent of the fishing-tackle department of a large sporting goods house in that city. He informed me that he had devised a rod especially intended for casting a frog for black bass and pike on certain weedy waters not far from Chicago.

The said rod was made by reducing the regular eight-and-one-fourth-foot Henshall rod to six feet, and it soon became popular on the waters mentioned, for by casting overhead, instead of underhand, more accurate line shots could be made into the small open spaces. As the weedy character of the waters rendered the proper playing of a bass difficult or ineffectual, the short, stiff rod proved itself capable of rapidly reeling in the fish, willy nilly. Of course the pleasure of playing a fish in a workmanlike manner, as in open water, would be lost, to say nothing of denying the fish a chance for its life by depriving it of a fair field and no favor—the only sportsmanlike way.

#### Casting Baits

Eventually the short rod and overhead cast became popular at casting tournaments, where it was also demonstrated that by reducing its length to five and even four feet longer casts were possible. Unfortunately the use of this very short and stiff rod was extended to practical fishing, and with its use was evolved a number of casting baits that out-herod anything yet produced in the way of objectionable artificial baits. They are huge, clumsy creations of wood or metal, of an elliptical form or otherwise, and bristle with from three to five triangles of cheap hooks; they are painted in a fantastic manner, and most of them are also equipped with wings or propellers.

#### Twin Evils

The extremely short tournament tool of five feet, called by courtesy a rod, when employed in angling, and the cruel and murderous casting baits with twelve to fifteen hooks, are, in my opinion, twin evils which should be tabooed by every fair-minded and humane angler. So far as the short rod itself is concerned, I have always commended its use for tournament work, but I do not favor it for open-water fishing, for reasons already given. This use of it is a matter for the consideration of those who choose to employ it. For myself, I have always found the eight-foot rod and horizontal, underhand cast equal to all emergencies of fishing for black bass, pike and mascalonge. In overhead casting the bait is started on its flight from a height of ten or twelve feet, and necessarily makes quite a splash when it strikes the water. On the other hand, with the horizontal cast the minnow is projected to the desired spot with very little disturbance.

#### Lines and Hooks

The only line that fulfills all requirements for fly-fishing as to weight and smoothness of finish is one of enameled, braided silk, either level or tapered. For casting the minnow the smallest size of braided, undressed silk is the only one to use with satisfaction. For trolling or still-fishing a larger size may be employed, or a flax line of the smallest caliber.

Among the many patterns of fishhooks the Sproat is the best and the O'Shaughnessy next, as being strong, well-tempered and reliable, and of practicable shape. The modern eyed-hooks, if of the best quality, can be used for both bait-fishing and fly-tying. Sizes of hooks for bait-fishing in Northern waters, Nos. 1 and 2; for Florida, Nos. 1-0 and 2-0; for artificial flies, Nos. 2 to 6.

#### Leaders and Snells

Leaders for fly-fishing and still-fishing should be four, or not more than six, feet long, of good sound and uniformly round silkworm gut. A leader is not used in casting or trolling the minnow or spoon. Snells should likewise be made of the best silkworm fiber, three to four inches long for artificial flies, and not less than six inches for bait-fishing. It is no advantage to stain or tint leaders or snells, as they are more readily discerned by the fish than those of the natural hyaline color; and the more transparent, the less they show in the water.

#### Fishing Reels

And now as to reels. A light, single-action click reel is the best and most appropriate for fly-fishing, and may be either all metal or hard rubber and metal combined, the former being preferable. It can be utilized for still-fishing also, where long casting is not practiced. But for casting the minnow a multiplying reel of the finest quality is required, and the thumb must be educated to exert just the right amount of uniform pressure on the spool during the flight of the minnow, to prevent its backlashing and the resultant overrunning and snarling of the line. This can only be mastered by careful practice. As most fine multipliers are fitted with an adjustable click, it can be utilized also for fly-fishing, but it is rather heavy for the lightest fly-rods. While an automatic reel answers very well for trout fishing on small streams, its spring is too light to control the movements of a fish as large and gamesome as the black bass.



Photo by A. Radclyffe Dugmore.

Black Bass returning to water after leap.

#### Something More About Reels

It may not be amiss, in this connection, to venture a few remarks on reels in general. Elsewhere I have made the statement that the most important office of a rod was in the management of the hooked fish, and not in casting the fly or bait. *Per contra*, the chief function of the multiplying reel is in casting the bait, and not in reeling in the fish. The office and intention of the gearing of the multiplying reel is to prolong and sustain the initial momentum of the cast, in order that the bait may be projected to a greater distance than is possible with any single-action reel. This is proven by the fact that there have been several devices invented whereby the handle, wheel and pinion of the reel are thrown out of gear to allow greater



freedom to the revolving spool in casting. The theory looked feasible enough, but actual practice demonstrated that without the sustaining aid of the gears the momentum was soon lost, with the result that the bait could not be cast so far. All such devices have now been abandoned as utterly futile.

**The Reel in Use** So far as the skillful management of a hooked fish is concerned, the multiplying reel is no better than the single-action click reel. For tarpon, tuna, and other very large fishes, where "pumping" is practiced on the hooked fish, the largest multiplying reel is of advantage in rapidly taking up the resultant slack line. And so far as "power" is concerned, in reeling in the fish on a strain, the single-action reel has the advantage, for the force applied to the crank acts directly on the shaft of the spool, while in the multiplying reel much of the force is lost by being distributed through the gears to the shaft.

**Position of Reel on Rod** There is a tendency of late years, especially with the heavy rods for tuna and tarpon fishing, and also with the very short rod used in overhead casting for black bass, to place the reel on top with the handle to the right. While that plan is, in most cases, a matter of choice or habit, it is essentially wrong.

**The Reel on Top** Neither multiplying or click reels were intended to be used in that position, and because some anglers prefer to place them so is no argument that it is right.

**The Reel Underneath** Placing the reel on the top of the rod, on a line with the guides, and grasping the rod loosely where it balances, the reel naturally, and in accordance with the law of gravitation, turns to the under side of the rod. No muscular effort is required to keep it there, as is the case where the reel is used on top, which with heavy reels is considerable. The reel and guides being on the under side when playing a fish, the strain is upon the guides, and is equally distributed along the entire rod, while with the reel guides on top the strain is almost entirely on the extreme tip of the rod, and the friction is much greater.

**The Right Way** With the multiplying reel underneath and the handle to the right, the rod is held at nearly its balancing point, with the rod hand partly over the reel, with the index or middle finger, or both, just forward of the reel, to guide the line on the spool in reeling. The click reel being entirely behind the rod hand, and underneath, at the extreme butt, the rod can be grasped at its balancing point by the left hand, and the line reeled with the other.

**The Wrong Way** Where the multiplying reel is placed on top, with the handle to the right, and the thumb used for guiding the line on the spool, there is a constant tendency of the reel to get to the under side, where it properly belongs. To overcome this wobbling of the reel, and to insure more steadiness, the butt of the rod is braced against the stomach by the reel-on-top anglers—certainly a most ungraceful and unbecoming thing to do with a light rod. With the tarpon or tuna rod, and with the reel either on top or underneath, a socket for the rod butt becomes necessary in playing a very heavy fish.

**Casting and Playing** In casting from the reel with a light rod it is turned partly or entirely on top, with the right thumb on the spool. When the cast is made the rod is at once transferred to the left hand in the position for reeling in the line, with the index finger pressing it against the rod. The fish can be played with the left hand, leaving the right hand free to reel when necessary. Or in case a fish is unusually heavy and its resistance is great, the rod can be taken in the right hand, with the thumb on the spool to control the giving of line. When the opportunity occurs for reeling, the rod is again transferred to the left hand.

It is very much easier to use the reel underneath when one becomes accustomed to it, and it has been used in this way for centuries by the British angler. As the reel originated in England, it is to be presumed that the manufacturers and anglers of that country know its proper position on the rod.

**Trolling** While fly-fishing and casting the minnow may be practiced wherever the black bass is found, on stream or lake, there are other methods of angling that depend somewhat on local conditions. Trolling with the minnow or trolling-spoon is sometimes practiced on lakes, as in Michigan, Wisconsin and Minnesota. There is no skill whatever required for trolling with handline and spoon, as the bass hooks himself, when hooked at all, and is simply dragged into the boat without ceremony. It is a method of fishing that would better be "honored in the breach, than the observance." And as the rod generally used for trolling is rather stiff and heavy, it does not require the skill and cleverness to play and land the fish that are demanded by the light and pliable rods employed in casting the fly or minnow.

**Other Methods** Skittering with a pork-rind bait is practiced on some Eastern ponds, and casting the frog overhead with a very short rod is a method that originated with some Chicago anglers. Fishing with one or a group of hooks dressed with a portion of a deer's tail and a strip of red flannel, forming a kind of tassel and known as a "bob," is practiced in the Gulf States. A very long cane rod and a very short line comprise the rest of the equipment. The bob is danced on the surface in front of the boat in the weedy bayous, and is certainly effective in catching bass.

**Still-Fishing** Still-fishing from the bank or a boat may be practiced wherever bass are found. Any kind of rod is used, from a sapling to a split-bamboo, with almost any kind of line or hook, and natural bait of any kind may be employed, with or without a float. It is the primitive style of angling. I think the paradise of the still-fisher may be found on a Florida lake. Anchoring his boat near the shore, just outside of the fringe of pond-lilies and bonnets, he splits the stem of a water lily, takes from it a small worm that harbors there, impales it on his hook, and casts it in a bight amid the rank growth of vegetation, where it is soon taken by a minnow of some sort, which in turn is cast into the deeper water beyond the border of aquatic plants, on the other side of the boat,

**Ad Infinitum** where a big bass is lying in wait for just such an opportunity. And so he proceeds, *ad infinitum*, casting on one side of the boat for his bait, and on the other side for his bass. "First the blade, then the ear, after that the full corn in the ear."

# THE GRAYLING: THE FLOWER OF FISHES

# THE GRAYLING: THE FLOWER OF FISHES<sup>[43]</sup>

**S**T. AMBROSE, the good Bishop of Milan, in a sermon to the fishes, apostrophized the grayling as the "flower of fishes," as being the most beautiful, fragrant and sweetest of all the finny tribe. The saintly bishop was quite right in his estimation of the graceful, gliding grayling. It possesses a refined beauty and delicacy that is seen in no other fish, and it well merits its appellation of the "lady of the streams."

## Dame Juliana Berners

Dame Juliana Berners, prioress of the nunnery of Sopwell, near St. Albans, England, was the author of the first book on angling in the English language—printed in 1496. This "Treatyse of Fysshynge with an Angle" has served as the inspiration and model for all subsequent angling authors from Izaak Walton to the present day. Dame Juliana was really the first author to mention fly-fishing<sup>[44]</sup> in a definite sense, though Ælian in his "History of Animals," A.D. 230, says that the Macedonians fished in the river Astræus with an imitation of a fly called *hippurus*.

Dame Juliana in her treatise gives a list of "XII flies wyth whyche ye shall angle to ye trought and grayllyng"; and now, after the lapse of four centuries, artificial flies constructed after her formulas would prove as successful as any of the new fangled, up-to-date creations. In fact, most of her flies are in use to-day under various names; and any of them tied on very small hooks would answer admirably for the graylings of America.

## The Graylings

There are three closely allied species of grayling in America, and two or three in Europe. Wherever found they inhabit the coldest and clearest streams. Their distribution in this country is restricted to well-defined and limited areas. One, known as the Arctic grayling, is abundant in Alaska and the adjoining Mackenzie district of British Columbia. A second species is native to Michigan, and the third is found only in Montana.

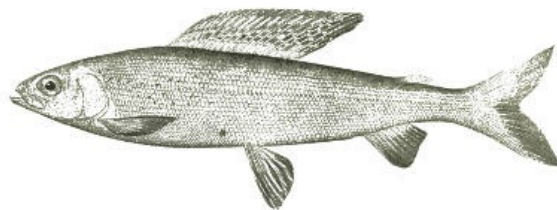
## The Arctic Grayling

The first mention of the grayling and grayling fishing in America was that of Sir John Richardson, in the narrative of the Franklin Expedition to the North Pole, in 1819. Dr. Richardson called it "Bach's Grayling" in honor of a fellow officer, a midshipman of that name, who took the first one on the fly. He gave it the technical specific name of *signifer*, meaning "standard bearer," in allusion to its tall and brilliant dorsal fin.

Regarding the gameness of the grayling, Dr. Richardson says: "This beautiful fish inhabits strong rapids.... It bites eagerly at the artificial fly and, deriving great power from its large dorsal fin, affords much sport to the angler. The grayling generally springs entirely out of the water when first struck by the hook, and tugs strongly at the line, requiring as much dexterity to land it safely as it would to secure a trout of six times the size."

## The Michigan Grayling

The Michigan grayling, in early days, was known to lumbermen and trappers<sup>[45]</sup> as "Michigan trout," "white trout," "Crawford County trout," etc. It was first described by Dr. Edward D. Cope, in 1865, who gave it the specific name of *tri-color*, in allusion to the gay coloration of the dorsal fin. Until recent years it was abundant in streams of the lower peninsula of Michigan rising from an elevated sandy plateau and flowing into Lakes Huron and Michigan and the Strait of Mackinac. In a few streams flowing into Pine Lake and Lake Michigan, as Pine, Boyne, Jordan, etc., it co-existed with the brook trout, but farther south, especially in the Manistee and the Au Sable rivers and their tributaries, the grayling alone existed. In the upper peninsula it also existed in Otter Creek, near Keweenaw.



U. S. Bureau of Fisheries.

Michigan Grayling. (*Thymallus tricolor*.)

## The Montana Grayling

The Montana grayling, though mentioned by Lewis and Clark from the Jefferson River (to which fact I have recently called attention), was not recognized until seventy years later, when Professor J. W. Milner discovered and named it *montanus*, in 1872. So now we have the three species<sup>[46]</sup> *Thymallus signifer*, *Thymallus tri-color*, and *Thymallus montanus*. The generic name *Thymallus* is a very ancient one, and was bestowed originally because an odor of thyme was said by the Greeks to emanate from a freshly caught grayling. In our day the odor of thyme is not apparent, though when just out of the water it diffuses a faint and pleasant odor not unlike that from a freshly cut cucumber.

## Morphology of the Graylings

The structural differences between the three American graylings are so slight that they would be scarcely recognized by the lay angler, therefore a general description will probably answer. It is a slender, gracefully formed fish, with a body about five times longer than its depth, and rather thin, or compressed, on the order of the lake herring or cisco, or the Rocky Mountain whitefish. From this slight resemblance there is an erroneous notion quite current in Montana that it is a cross between the whitefish and the trout.

## Characteristic Feature

Its characteristic feature is the tall dorsal fin, beautifully decorated with a rose-colored border, and oblong spots of various sizes of rose-pink ocellated with blue, green or white. The height of the fin is about one-fourth the length of the fish; I have several specimens of fins that are four inches tall, from fish not more than sixteen inches long.

## Coloration

When first out of the water the grayling might be compared to a fish of mother-of-pearl, owing to the beautiful iridescence, wherein are displayed all the colors of the spectrum in subdued tints of lilac,

pink, green, blue and purple, with the back purplish gray, and a few dark, small spots on the forward part of the body. The graylings are closely allied to the trout family, having an adipose second dorsal fin.

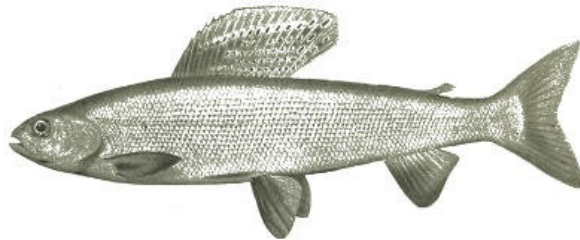
**Its Peculiar Eye** The eye of all graylings is peculiar, the pupil being pyriform or pear-shaped. In all illustrations of American graylings that I have seen, except photographs, the artist has drawn the pupil perfectly round, as in most fishes. The only exception is that of the painting of the Montana grayling, by A. D. Turner, that accompanies the magnificent work, "Forest, Lake and River," by Dr. F. M. Johnson.

**Food and Haunts** The grayling having but few teeth, and those small and slender, its food consequently consists of insects and their larvæ. It prefers swift streams with sandy or gravelly bottom, and loves the deep pools, where it lies in small schools. Occasionally it extends its search for food to adjacent streams strewn with small rocks and bowlders. Its maximum weight is one and a half pounds, very rarely reaching two pounds.

**Comparative Abundance** The Arctic grayling is still abundant in the Yukon and other rivers of Alaska. On the contrary, the Michigan grayling, though plentiful twenty years ago, is now nearly extinct, owing to the extensive lumbering industry. All the graylings spawn in April and May in very shallow water, and the eggs hatch within two weeks. As this is also the time when the saw-logs descend the streams on the spring rise, they plow through the spawning beds, destroying both eggs and newly hatched fry. The annual recurrence of these

**In Michigan** circumstances for many years has resulted, unfortunately, in the passing of the Michigan grayling. Overfishing and the incursion of the trout have been mentioned as probable causes, but neither factor could possibly have produced the present state of things. The streams have since been stocked with brook and rainbow trout, and efforts are being made to introduce the Montana grayling.

**In Montana** In Montana the grayling is restricted to tributaries of the Missouri River above the Great Falls, except where recently planted. Until within the past few years it inhabited only the three forks of the Missouri—the Gallatin, Madison and Jefferson rivers and tributaries—and Smith River and tributaries below the three forks. It is still abundant in these waters and lives in amity, as it has done for all time, with the red-throat trout and Rocky Mountain whitefish.



From a color sketch by A. H. Baldwin.

Arctic Grayling. (*Thymallus signifer*.)

**Distribution** That the grayling should inhabit only the widely separated regions of Alaska, Michigan and Montana is remarkable. The Arctic grayling is regarded as the parent stock, while the others are possibly relics of the glacial period. This seems probable in connection with the fact that in the mountains where the sources of the Jefferson River arise, there is a deep lake, some four miles long (Elk Lake), that in addition to grayling is inhabited by the Great Lake, or Mackinaw, trout. This trout is found nowhere else west of the Great Lakes except in Canada.

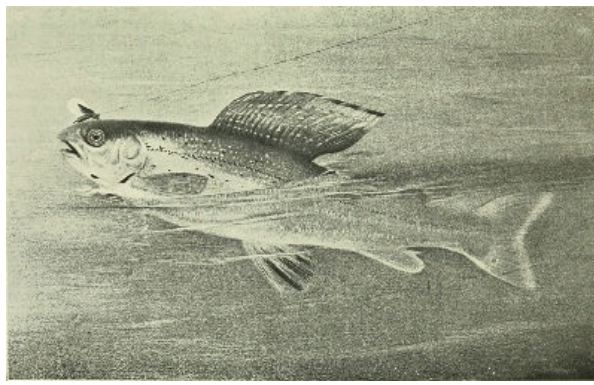
**Propagation of the Grayling** Beginning with 1874 numerous attempts were made to propagate the Michigan grayling artificially, but after repeated failures all effort in this direction was abandoned. When a station of the U. S. Fish Commission was established at Bozeman, Montana, in 1897, the Commission, under my supervision, began a series of experiments in grayling culture, resulting in complete success, so that for several years millions of grayling have been hatched and planted, and millions of eggs have been shipped to other stations of the Bureau, where they have been hatched and planted in Eastern waters. It is hoped that they may find a suitable home in some of the streams thus stocked. At the Bozeman station they have been reared to maturity, and eggs taken from these domesticated fish have been hatched. This is considered a triumph in fish-culture. Grayling eggs, by the way, are smaller than trout eggs, while the newly hatched fry are only about one-fourth of an inch long, and are quite weak for several days.

**Origin of Name** The English name "grayling" is doubtless derived from its appearance in the water, where it glides along like a swiftly moving gray shadow. In Germany it is called *asche*, from its gray or ash color in the water. One of its old names in England on some streams was "umber," a name of like significance.

**As a Game- and Food-Fish** As a game-fish, the grayling is considered by those who know it best, both in this country and England, when of corresponding size, equal to, if not superior to, the brown trout of England, the brook trout of Michigan, or the red-throat trout of Montana; while as a food-fish it is also better, its flesh being firmer, more flaky, and of greater sweetness of flavor. Likewise one can relish the grayling for many consecutive meals without the palate becoming cloyed, as in the case of the more oily trout. It never has a muddy or weedy taste.

In England there is a prevalent opinion that the grayling has a tender mouth and must be handled very gingerly when hooked; there is no truth in this notion, however, as its mouth is as tough as that of the trout; but as smaller hooks are employed in grayling fishing they are more apt to break out under a strain. For this reason the angler should not attempt to "strike" at a rising fish, but allow it to hook itself, which all game-fishes will do nine times out of ten. The only object in striking is to set the hook more firmly.

**Grayling Fishing** Grayling fishing is fair during summer, but is at its best in autumn; and where the streams are open it is quite good in winter. Mr. Dugmore, who made the admirable photograph illustrating this article, did his fishing late in August, in the West Fork of the Madison River, and in Beaver Creek in the upper cañon of the Madison, in Montana. The upper Madison is an ideal home for grayling, the stream being clear and swift with a bottom of black obsidian sand.



From an oil painting by A. D. Turner.

Montana Grayling. (*Thymallus montanus*.)

**Fly-Fishing** Fly-fishing for grayling differs considerably from trout fishing. The trout usually lies concealed, except when on the riffles, while the grayling lies at the bottom of exposed pools. When the fly is cast on the surface the trout dashes at it from his lair with a vim; or if below it, he often rises clear of the water in his eagerness to seize it. Should the fly be missed, another attempt will not be made again for some little time, if at all. The grayling rises to the fly from the bottom of the pool to the surface with incredible swiftness, but makes no commotion in doing so. Should it fail to seize the fly it returns toward the bottom, but soon essays another attempt, and will continue its efforts until finally the fly is taken into its mouth. From this it is evident that the grayling is not as shy as the trout. It is also apparent that the fly should be kept on the surface for trout, but allowed to sink a few inches at each cast for grayling.

**Castings and Playing** While the casts need not be as long as for trout, unless in very shallow water, they should be perfectly straight, and the line be kept taut, so that the fish may hook itself upon taking the fly into its mouth. When hooked, it should be led away to one side of the pool in order that the rest of the school may not be alarmed. The fish should be held with a light hand, so as not to tear out the small hook, but at the same time kept on the bend of the rod until exhausted, before putting the landing-net under it. The landing-net should always be used, as the hold of the small hook may be a slight one.

**Leaping of Grayling** Unlike the trout, the grayling often breaks water repeatedly when hooked, making short but mad leaps for freedom that require considerable skill to circumvent. During the struggle the tall bannerlike dorsal fin waves like a danger-signal, and with the forked tail-fin offers considerable resistance in the swift water. But when safely in his creel, the fortunate angler can congratulate himself on having fairly subdued and captured this wily and coquettish beauty of the crystal waters.

**Outfit for Fly-Fishing** The outfit for fly-fishing is about the same as for trout, say a rod of five or six ounces, light click reel, enameled silk line, with a four-foot leader for two flies, or one of six feet for three, though two flies are enough. The flies should be tied on quite small hooks, Nos. 10 or 12. While ordinary trout-flies answer pretty well, they are much better if made with narrower wings, or still better with split wings. Any of the conventional hackles are capital, especially if the hackle is tied so as to stand out at right angles to the shank of the hook. The most successful flies are those with bodies of peacock harl or of some shade of yellow, as coachman, grizzly king, Henshall, alder, governor, and black gnat, with bodies of harl; and professor, queen of the water, Lord Baltimore and oak fly, with yellowish bodies. Other useful flies are gray drake, gray coflin, and the various duns. Four of the most successful grayling flies in England are the witch, Bradshaw's fancy, green insect and red tag, samples of which were sent to me by one of the best grayling fishers of that country. They were tied on the smallest hooks made, Nos. 16 to 20. All have harl bodies, very plump, with tags of red worsted, and hackles of various shades of silver gray, except Walbran's red tag, which has brown hackle. Mr. Howarth, an old English fly-tier, of Florissant, Colorado, is an adept at tying grayling flies.

**Outfit for Bait Fishing** For bait-fishing the fly-rod and click reel mentioned will answer, as the bait used is very light. The line should be of braided silk, undressed, size H, with a leader of three or four feet. Snelled hooks, size Nos. 7 to 9, are about right. The best bait is the "rock worm," as it is called in Montana, which is the larva of a caddis fly encased in an artificial envelope of minute bits of stick, or grains of fine gravel. Other baits are earthworms, grubs, crickets, grasshoppers, natural flies, or small bits of fat meat. [58]

**Float and Sinker** In comparatively still water a quill float, or a very small one of cork, must be used to keep the bait about a foot from the bottom, with a light sinker to balance the float. In swift water the float will not be required, but the small sinker is needed to keep the bait near the bottom. My advice, however, would be to pay court to the "lady of the streams" with the artificial fly as the only fitting gage to cast before her ladyship.

**The Finest Grayling Fishing** The angler who visits Yellowstone National Park, after viewing the beauties and marvels of that wonderland, and enjoying the excellent trout fishing, may go by a regular stage line to Riverside at its western boundary, and thence a few miles to the upper Madison basin. Here, within an area of a dozen miles, are several forks of the Madison River, and Beaver Creek in the upper cañon, where he may enjoy the finest grayling fishing in the world. Under the shadows of snow-clad peaks, and amidst the most charming and varied scenery, he may cast his feathery lures upon virgin streams of crystalline pureness, while breathing in the ozone of the mountain breeze and the fragrance of pine and fir.

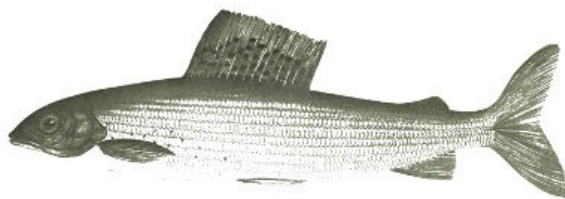
**The Relation of Monasteries to the Grayling** There is a tradition in England that the grayling was introduced into that country from the continent of Europe by the monks and friars of olden time. This is not improbable, as the grayling was always a favorite fish with the various monastic orders throughout Europe, and there still remain in England the ruins of ancient monasteries on most of the grayling streams. As the original habitats of all the graylings are the coldest and clearest waters, the streams of England, while clear enough at times, are not of very low temperature; this would seem to give some credence or warrant for the legend mentioned.

One can readily imagine the tonsured fathers of old—friars white, black and gray, and the hooded Capuchin and Benedictine—during the lenten season and before fast days, repairing to the limpid stream with rod and line in pursuit of the lovely grayling.

**The Monks and** But the angler, of all others, can realize that it was not alone to gratify the palate that the holy

**the Grayling**

brothers left the dim cloister for the sunlit stream, the rosary and missal for the rod and line, and forsook the consecrated pile for God's first temples—the sylvan groves. And there, rod in hand, seated on the verdure-clad bank, he sees the silent and ghostly figures eagerly watching the tell-tale float, fishing all day, perhaps, from the matin song of the lark to the vesper hymn of the nightingale, while they are quietly drinking in and enjoying the many bountiful gifts of Nature—the merry brook, the nodding flowers, the whispering leaves, the grateful breeze.



From a color sketch by T. E. Pritt.

English Grayling. (*Thymallus thymallus*.)

**The Cloister  
and the Stream**

And how the hooking of a grayling must have stirred the stagnant blood and quickened the pulses of those austere souls! And how the languid muscles must have stiffened, and the deadened nerves thrilled, when the gamesome grayling leaped into the sunlight sparkling like a gem and glittering like a crystal!

Ah! what a happy contrast to the gloomy cell and breviary it must have been to those rigid and frigid celibates to view the ever-changing tints and the reflected glory of the "lady of the streams" after she had coquettishly responded to their lures!

**The Warning of  
the Past**

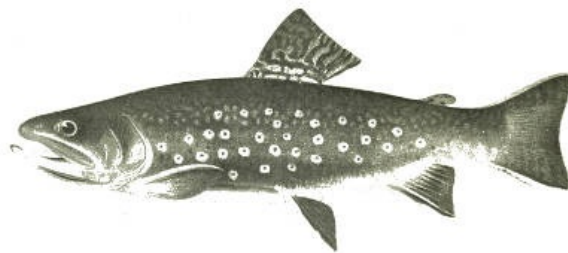
But let us return from the musty ages of the past, and the hoary fathers—those wise conservators of their beloved fish—to the present day, with the sad vanishing of the Michigan grayling as a solemn warning. Let us, then, guard and preserve this beautiful creature that has come down to us through the centuries, hallowed by the jealous care of the good fathers of yore, so that the toiler in these stirring times may, if he will, forsake the busy marts, the office or workshop, for a period, be it ever so brief, and journey even a thousand miles to enjoy—as the monks of old—the catching of a grayling.

## THE TROUT: THE ANGLER'S PRIDE

**Passing of the  
Brook Trout**

THE brook trout, or char, with the beautiful and suggestive name of *Salvelinus fontinalis*, by which it is known to the naturalist, is fast disappearing from its native streams. The altered conditions of its aboriginal environment, owing to changes brought about by the progress of civilization, have resulted in its total extinction in some waters and a sad diminution in others. In many instances the trout brooks of our childhood will know them no more. The lumberman has gotten in his work—the forests have disappeared—the tiny brooks have vanished.

The lower waters still remain, but are robbed of their pristine pureness by the contamination due to various manufacturing industries. In such streams the supply of trout is only maintained through the efforts of the federal and state fish commissions. It is to be hoped that by this means the beautiful brook trout, the loveliest and liveliest fish of all the finny world, may be preserved and spared to us for yet a little while. Its introduction to the pure mountain streams of the Far West has given it a new lease of life, and the time may come when, outside of the game and fish preserves of wealthy clubs, it will be only in its new home that it can be found.



From a color sketch by Sherman F. Denton.

**Brook Trout. (*Salvelinus fontinalis*.)**

**Back Log  
Reveries**

On long winter evenings the angler, sitting before his cheerful fire, may be meditating on the passing of the brook trout—that his angling record for the last season was not so good as the year before, and that next summer it may be still worse. But such disheartening thoughts are quickly dispelled as his glance falls on the fly-book and tackle box within his reach. His fly-book is eagerly overhauled and frayed snells and leaders and rusty hooks discarded. Some well-worn flies that recall the big trout that gave him sport galore in the long summer days are, on second thought, snugly and affectionately tucked away in a separate pocket of the book, to be brought forth on occasion, to excite the envy of some brother angler, while relating with minute detail the story of the part they took in the capture of the "big ones."

**Pipe Dreams**

Through the rings of smoke rising from his brier-root he sees the stream rippling and sparkling as it courses around the bend. And in fancy he is wading and casting, and as eagerly expectant of a rise, with his feet encased in slippers, as when plodding along in clumsy wading boots. The pipe-dreams of retrospection are as engrossing and enjoyable as those of anticipation to the appreciative angler. The pleasures though passed are not forgotten.

**Pride After a  
Fall**

He even smiles as he remembers the slippery and treacherous rock that caused his downfall, and the involuntary bath that followed, just as he hooked the biggest fish in the pool. He is even conscious of the chill that coursed up his spine as the stream laughed and gurgled in his submerged ear—but he remembers, best of all, that he saved the fish, and that he laughs best who laughs last. There is a saving clause of compensation in every untoward event to the philosophic mind.

**Mother  
Nature's  
Sanitarium**

In "the good old summer time" thousands of weary toilers from every station in life are leaving the home, the school, the workshop, the office, for a few weeks of rest, recreation and recuperation. And nowhere else can the overstrung nerves and tired muscles find surer relief and tone than beside the shimmering lake or brawling stream. The voices of many waters are calling them, the whispering leaves are coaxing them, the feathered songsters are entreating them—to leave the busy haunts of men and repair to the cool shadows and invigorating breezes of sylvan groves and shining waters.

**Balm in Gilead**

Here, indeed, may be found a solace for every care, a panacea for every ill, furnished without cost and without stint, from Mother Nature's pharmacopœia of simples: fresh air, pure water and outdoor exercise. But while all of this is patent to the seasoned angler, the preachment of the resources of Nature for the relief of the "demnition grind" of those who dwell in cities cannot be too often reiterated.

**Beginning of  
the Season**

Trout fishing is lawful in several states during a part or throughout the entire month of April; but unless the season is exceptionally forward and pleasant the wise angler will lose nothing by ignoring the privilege.

May and June are, by all odds, the best months for brook trout fishing. By May Day most of the streams of the Eastern States have cleared sufficiently for fly-fishing, and their temperature has sensibly diminished.

**Signs of Spring**

"About this time," as the almanacs say, the most interesting literature for the impatient angler is the catalogue of fishing tackle. After a final overhauling and inspection of his tools and tackle he is impelled, irresistibly, to pay a visit to the tackle store for such additions to his stock, be it large or small, as he thinks he needs, and is not happy until his wants, real or fancied, are supplied.

[70]

**Embarrassment  
of Riches**

A woman at a bargain counter is a sedate, complacent and uninterested personage compared with an angler in a tackle store at the opening of the fishing season. He is covetous to a degree, and would walk off with the entire stock should he follow the dictates of his inclination as to his fancied requirements. As it is, he buys many things he will never have any use for; but he thinks he will, all the same, and



leaves the attractive place an impoverished but happier man.

**Tools and Tackle**

Of course it is best, when one can afford it, to provide duplicate rods and reels and a liberal supply of minor articles. But the careful angler, with but one ewe lamb in the shape of a tried and trusty rod, and a single, reliable click reel, with a limited but well-selected supply of leaders and flies, will take as many fish as his prodigal brother with a superabundant equipment.

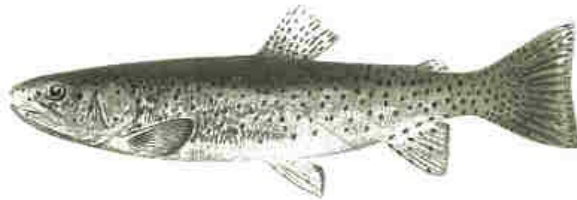
The length and weight of the rod depends on the character of the waters to be fished: whether open water or a small brushy stream. Good rods can be obtained running from nine to eleven feet and from four to seven ounces. For narrow, shallow streams overhung with trees and shrubbery, and where the fish are small, the lightest and shortest rod is sufficient and most convenient. For larger streams or open water the rod should not exceed ten feet, and six ounces. Where trout are exceptionally large, as in the Lake Superior region or in Maine, the maximum of eleven feet, and seven ounces will be about right for most anglers.

**The Chief Function of a Rod**

Fly-rods built for tournament work, especially for long-distance casting, are marvels in their way, but it does not follow that they are adapted, or the best, for work on the stream. The essential and most important office of a rod is that which is exhibited after a fish is hooked—in other words, in the playing and landing of the fish. In practical angling the act of casting, either with fly or bait, is merely preliminary and subordinate to the real uses of a rod. The poorest fly-rod made will cast a fly thirty or forty feet, which is about as far as called for in ordinary angling. But it is the continuous spring and yielding resistance of the bent rod, constantly maintained, that not only tires out the fish, but protects the weak snell or leader from breakage, and prevents a weak hold of the hook from giving way; and this is the proper function of a rod.

**Reel, Line and Leader**

The reel should be a single-action click reel, the lighter the better, if well made. The best, and in fact the only, line for fly-fishing, is one of enameled silk, its caliber corresponding with the weight of the rod. Only the best quality of silkworm fiber should be purchased in leaders for sizable fish. A leader of six feet is long enough for three flies, and one of four feet with two flies is still better.



From a color sketch by Sherman F. Denton.

Red Throat, or Cut Throat Trout. (*Salmo clarkii*.)

**Artificial Flies**

The subject of artificial flies is a most complex one. All fly-fishers have their favorites, with or without reason, and swear by them on all occasions. Some confine themselves to the various hackles, others to half-a-dozen winged flies, while still others are only satisfied with a fly-book filled to bursting with scores of all sizes and colors. In this connection it is as well to say that about the beginning of the century there was a discussion in the London *Fishing Gazette* as to what artificial fly, in case an angler was restricted to a single one, would be preferred for use during an entire season. The consensus of opinion was in favor of the "March brown," with the "olive dun" as a good second. These are both killing flies in America as well as in England for trout fishing.

**Selection of Flies**

In addition to them the coachman, professor, Montreal, dotterel or yellow dun, with the black, brown, red and gray hackles should be sufficient on almost any stream, if tied in several sizes, say on hooks Nos. 6 to 12, with a preference for the intermediate numbers. From my experience I would be satisfied with such an assortment. Other anglers, of course, would think otherwise, and would prefer quite a different selection—but this is in accordance with one of the accepted and acknowledged privileges of the gentle art. And this, at the same time, is as it should be. One who has had more success with certain flies than with others, all things being equal, should pin his faith to them. And this, moreover, explains why there is such an extensive list to choose from in the fly-tier's catalogue, which contains the preferences of many generations of fly-fishers.

**Philosophy of Artificial Flies**

The question as to the best fly to use at certain seasons, or at any season, is a vexed one. Whether it is the colored dressing of the fly, or its form, that is most enticing to the fish, will perhaps never be known, except approximately. Of the long list of named artificial flies the choice of most anglers has been narrowed to a score or two, and for the only reason that they have been more or less successful with them. We are apt to look at the matter from our own viewpoint, and often without reference to that of the fish.

Reasoning from the appearance of artificial flies in general, it would seem that on a fretted surface almost any one of the many hundreds should get a rise from a fish, if in a biting mood, and, indeed, this is in a measure true. But one swallow does not make a summer. There are times and places when any old thing, even a bit of colored rag, will coax a rise. I have had good success with a bit of the skin of a chicken neck with a feather or two attached. Then there are times when nothing but natural bait proves alluring.

**Why a Trout Takes a Fly**

We may assume as almost a self-evident proposition that a fish takes an artificial fly under the delusion that it is a natural one, or something good to eat—otherwise it would not take it at all. If this assumption is correct, then it would follow that the best imitations of natural flies or insects should be the most successful. This is, in the main, a reasonable conclusion, though on the other hand certain flies that are universally considered and used as good ones, do not, to our eyes at least, bear any resemblance to any known insect—for instance the coachman, professor and other so-called fancy flies.

**The Angler's Viewpoint**

An artificial fly on the ruffled surface of the water presents a very different appearance to the same fly when held in one's hand, even to our own eyes; what, then, does it look like to the fish? That's the question. I have often attempted to solve it by diving beneath and viewing the fly on the surface. If the water was perfectly clear and calm, without a ripple, it simply looked like a dark fly, no matter what its color, though I could sometimes discern the lighter color of the wings when formed of undyed mallard or wood-duck feathers. When the surface was ruffled it was so indistinct that a bit of leaf would have seemed the same. A

somewhat similar experiment may be performed, in a minor degree, by placing a mirror at the bottom of a barrel of water and viewing the reflection of the fly on the surface.

#### The Trout's Viewpoint

We can surmise that fish are not color-blind, otherwise there would be no reason for the beautiful colors that many male fishes assume during the breeding season. Fishes are possessed of keen vision, and possibly have the faculty of distinguishing colors in a fly, even when on a fretted surface, where to our eyes they are very indistinct, and where even the form can not be well defined.

#### Flies in Their Season

In Great Britain it is the rule to use certain flies at different seasons, that is, to employ the imitations of such natural flies as are on the water at the time. This seems quite reasonable in view of the fact that the trout streams there are shallow, and especially so in the case of the chalk-streams whose bright colored bottoms may enhance the visual powers of the fish in discerning, by the reflected light, the form and colors of the artificial fly.

#### Imitations of Natural Flies

We may conclude, then, that as trout are in the habit of feeding on such flies and insects as resort to, or are hatched in, the water, that the best imitations of such natural flies, from the trout's viewpoint, would be the most alluring. I think it goes without saying, that all past experience has proven that the imitations of some of the commonest aquatic insects have been the most successful under all conditions. This would include not only the imago, but the larva, as represented by the various hackle flies.

#### Dark or Light Colored Flies

The old rule to use light-colored flies on dark days and high or discolored water, and darker flies on bright days, or with low and clear water, has been followed for centuries, and in the main is true and reliable. As some anglers have found that a reversed application of it has been successful, at times, they are inclined to doubt it altogether. However, they do not look at it intelligently. With clear water and a clear atmosphere a light-colored fly will show as plainly on the surface as a dark one to the fish below. If we gaze upward during a fall of snow, the flakes appear quite dark, while on a level or below the eye they appear white. Apparently, then, there are other conditions that must be taken into account. With a sunken fly, for instance, the case is different, for a dark fly then appears more distinct than a light one, in clear water; but with milky or discolored water a bright fly is more easily discerned below the surface—hence the rule.<sup>79</sup> And on the same principle smaller flies are suitable for bright days and clear water, and larger ones for dark days and discolored water.

#### The Non-Rising of Trout

In a very interesting address delivered before the Anglers Club, of Glasgow, Scotland, on "Why do trout sometimes not rise to the artificial fly?" the lecturer after naming and discussing many of the reasons usually advanced, said:

"And what is the conclusion of the whole matter? Shortly, this—that there is a great deal about the question that we know little or nothing about."

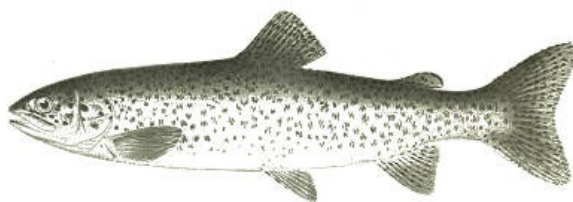
He advised his brother anglers to "Watch narrowly the facts as observed in nature, note them down carefully at the time, compare them with those of brother anglers on occasions such as this, and out of all evolve theories which, when reduced to practice, will be found to have carried us nearer to the truth."

#### Condition Versus Theory

This is very good advice freely given—and by the way advice is more easily<sup>80</sup> given than reliable information in a case like this. Nevertheless fly-fishers should consider that a "condition, not a theory," confronts them in the rising or non-rising of a trout to an artificial fly, and should endeavor to ascertain, if such be possible, just what conditions are present to account for the peculiar actions, at different times, of those elusive creatures of the adipose fin, that according to popular opinion seem to have as many moods as specks or spots.

#### A Probable Reason

There is one feature of this subject, however, that I have never known to be alluded to, which is this: That the rising or non-rising of trout may depend on the scarcity or abundance of the fish. In regions where trout are unusually abundant I have never, in my experience, known them to fail to rise to the artificial fly, at any time of day, or under almost any condition of wind or weather. It is only in sections that are much fished, and fish consequently scarce, or "educated," as some term it for want of a better reason, that trout fail to respond to the solicitations of the fly-fisher.



From a color sketch by Sherman F. Denton.

Steelhead Trout. (*Salmo gairdneri*.)

#### Abundance of Trout

In the wilds of Canada I have had trout rise to my fly by the dozen, day after day, so that all semblance of sport disappeared, and only enough were taken for the frying-pan. In Yellowstone Lake the merest tyro can take the red-throat trout until his arms ache, at any time of day, beneath clouds or sunshine. And in the river below the lake one can stand on the bank in plain sight of the trout, which, with one eye on the angler and the other on the fly, rushes to his doom by snapping up the tinsel lure, contrary to all conventional lore. This is an extreme case, of course, for the trout are extremely abundant, or were so as late as the summer of 1904.

#### Scarcity of Trout

One can imagine that in the clear and shallow streams of England, which have been thrashed by the flies of anglers, good, bad and indifferent, for centuries, and where trout are consequently and necessarily scarce, or "educated," that they fail to rise—in other words they are not always there. This, I think, is the reason that dry fly-fishing is becoming the vogue in that country, where the angler waits patiently by the stream until a trout rising to a natural fly proclaims its presence. The rest is easy.

#### Practical Hints

For obvious reasons it is always best to fish down stream where there is a current; in comparatively still water one may fish up-stream or down. I would advise the angler, by all means, to wade, as he has more command of the water on either hand, with plenty of room for the back cast, and can float

his flies under overhanging bushes and banks, or in the eddies of rocks. As the water is cold at this season he should be warmly clad, putting on two pairs of woolen socks or stockings, with rubber hip boots or wading pants. He should move slowly and cautiously, fishing every available spot before advancing a step. By hurrying along as some anglers do, he soon gets heated, even in cool weather, with the result that his nether extremities are soon bathed in a more or less profuse perspiration, and he is altogether a "dem'd, damp, moist, unpleasant body." To make haste slowly is the wise and proper thing in wading a stream. It is the slow, deliberate angler who gets the trout.

**A Timely Tip** Some streams are likely to be occasionally swollen or roiled by spring rains or by the June rise. At such times, when not too much discolored for fly-fishing, the angler will do well to avoid the channel of the stream and cast his flies along the edges, where the water is clearer. This tip may add many a fish to an otherwise scanty creel.

**Likely Places** When the stream is at its ordinary stage, and clear, the riffles and eddies are the most likely places at this season, and will be pretty sure to reward the careful angler. In fishing such places the flies should be floated over them, allowing them to sink below the surface occasionally. In addition to the flies mentioned for May, the stone fly, gray drake and brown drake will be found useful, especially in localities where the May-fly or sand-fly puts in an appearance. During the hottest days of summer, when the water is warmer, trout are more apt to be found at the mouths of small spring brooks, or in the deepest portions of the stream.

**Management of Flies** Churning the flies up and down, or wiggling and dancing them, should be avoided; the only motion, if any, should be a very slight fluttering, such as a drowning insect might make as it floats down stream. Strike lightly. Should the trout leap after being hooked, as it sometimes does in the shallow water of riffles, lower the tip slightly for half a second, but recover it immediately—in other words it is simply a down and up movement about as quickly as it can be done.

**Lowering the Tip** And talking of lowering the tip—it may not seem out of place to make a few observations concerning that proceeding which some anglers do not seem to understand, or at least do not fully appreciate. The rule of lowering the tip to a leaping fish is a very old one, centuries old in fact, and is founded on the experience of anglers for many generations past. Its usefulness and reasonableness is as manifest in the twentieth century as at any former time.

But because some thoughtless anglers at the present day have succeeded in landing a leaping and well-hooked fish without observing the rule, they decry it as entirely unnecessary, and declare that it ought to be relegated to the limbo of obsolete and fanciful notions and useless practices. The iconoclast usually attacks his images without thought or reason, and often in sheer ignorance. A little reflection might enlighten him and cause him to stay his hand.

**Origin of the Rule** The rule originated in Great Britain and pertained particularly to fly-fishing. The very small hooks on which trout flies were tied offered but a slight hold on the mouth of the fish, and in case that a leaping fish threw its weight on a taut line and raised rod it was almost sure to break away—hence the rule to lower the tip and release the tension for a brief moment. As the fish regained the water the tip was raised and the former tension resumed. It must be understood, however, that "lowering the tip" does not mean to touch the water with the tip, but as the rod is usually held at an angle of forty-five degrees, a downward deflection of the tip for a foot will usually suffice.

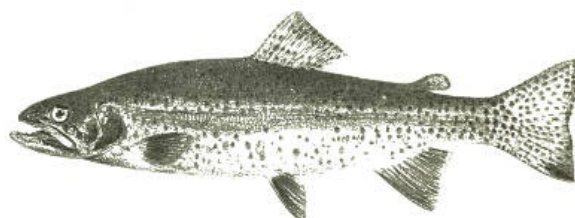
**They Who Differ** So far as my observation goes the objections to the rule have been raised by black bass bait-fishers who use heavy rods, strong tackle and large hooks. Under these circumstances a fish is usually so securely hooked by a vigorous yank that the lowering of the tip, when it leaps from the water, is not so essential, inasmuch as the angler has a cinch on his quarry whether the line be slack or taut.

**Long and Short Line** But even in bait-fishing, with a light rod and corresponding tackle and a small hook, it is a wise plan to follow a leaping fish back to the water by slightly lowering the tip, especially on a short line—with a long line it does not matter so much, as the "give" of a pliant rod and long line is usually sufficient to relieve the increased tension when a fish is in the air.

**Dry Fly-Fishing** Dry fly-fishing is the latest angling cult in England, but I do not think that it will find many adherents in this country. For one reason, the dry fly must be cast up-stream, which will never be a favorite method with American anglers for well-known reasons. Then again, our trout streams are usually swift and broken, and under these conditions the dry fly is soon drowned and becomes a wet fly, thus subverting the cardinal principle of dry fly-fishing. In England this method is practiced on comparatively smooth, shallow streams with but little current. The flies are constructed with rather large, upright wings and spreading hackle, and often with cork bodies, to enhance their capacity for floating and buoyancy.

**Comparisons are Odious** While fly-fishing, wet or dry, is unquestionably the highest branch of angling, and far preferable to bait-fishing for trout, it does not follow that fishing with the dry fly, or floating fly, is a superior art to fishing with the wet or sunken fly, as claimed by some of the dry fly-fishers of England. Indeed, some of the ultra dry fly enthusiasts have arrogated to themselves the distinction of practicing the most artistic and sportsmanlike method of angling, and look askance, if not with disdain and contempt, at the wet fly-fishers, whom they designate as the "chuck and chance it" sort.

I can not think that the position they have assumed can be justly maintained, or that it is warranted by the facts of the case. As dry fly-fishing is being taken up by a few American anglers, it may be well enough to give the alleged superiority of the method some consideration.



Rainbow Trout. (*Salmo irideus*.)

**Modus Operandi** Some years ago the *modus operandi* of dry fly-fishing was explained to me, personally, by Mr. William Senior, editor of the London *Field*. The angler waits beside the swim until a trout betrays its whereabouts by rising to a newly hatched gnat or fly, creating a dimple on the surface. The angler then, kneeling on one knee, sometimes having a knee-pad strapped on, cautiously casts his floating May-fly, with cocked wings, and anointed with paraffin or vaseline. The fly is deftly and lightly cast up-stream, a little above the swirl of the trout, and is permitted to float down, as naturally as possible, over the fish. There being no response after a cast or two, the angler switches the fly in the air to dry it, and awaits the tell-tale evidence of a fish before again offering the buoyant lure. Now, I cannot imagine why this method is claimed to be on a higher plane of angling than the "chuck and chance it" method. Certainly a knowledge of the habits of the trout is not essential, inasmuch as the angler makes his cast only on the appearance of the fish.

**The Wet Fly-Fisher** On the other hand the wet fly-fisher, wading down stream or up stream, brings to his aid his knowledge of the habits and haunts of the trout, and casts his flies over every likely spot where his experience leads him to think a fish may lie. It is this eager expectancy, or fond anticipation, with every cast, that makes up much of the real pleasure of angling, and which is utterly lost to the dry fly-fisher, who waits and watches on the bank, like a kingfisher on his perch.

While there can be no objection to dry fly-fishing, *per se*, and which, moreover, I welcome as a pleasing and meritorious innovation, I feel compelled to enter a protest against claiming for it a higher niche in the ethics of sport than wet fly-fishing. And with all due respect for the dry fly men of Great Britain, I can not admit that they trot in a higher class than those "chuck and chance it" fishers of honored and revered memory: Sir Humphry Davy, "Christopher North" and Francis Francis.

**Bait Fishing** It is the practice of some anglers to confine themselves entirely to natural bait in trout fishing, the favorite bait being the earthworm or "barnyard hackle"; also grasshoppers, grubs, crickets, or bits of animal flesh. While not so artistic, or for that matter not so successful as fly-fishing when the streams are clear, there are times when bait-fishing can be practiced without prejudice, and to better advantage than fly-fishing: as when streams are rendered turbid or roily by rains.

A capital bait is the beautifully tinted anal fin of a trout, which in water with some current waves, wabbles and flutters in a most seductive manner on the hook. Its effect is heightened, and its resemblance to a living insect is more pronounced, if the eye of a trout is first impaled on the hook through its enveloping membrane, care being taken not to puncture the eyeball.

**A Fish Story** I was once fishing with fin-bait in Wisconsin, early in the season when the stream was milky, when one trout was badly hooked, the point of the hook forcing out the eyeball, which hung on its cheek. I carefully unhooked the fish and plucked off the eye, when the unfortunate trout flopped out of my hand into the stream before I could kill it. I added the eyeball to my fin-bait, and strange to say I soon caught the same trout with its own eye! While this story may be more difficult for the uninitiated to swallow than for the trout to bolt its own eye, it is nevertheless true, and may be taken as proof that fish are not very sensitive to pain.

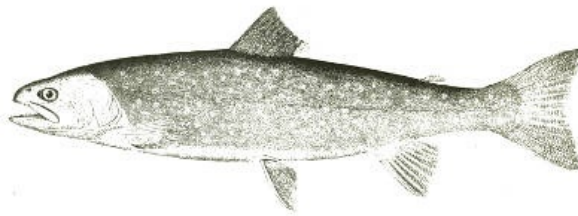
**Tools and Tackle** The equipment recommended for fly-fishing will answer just as well for bait-fishing, as the baits commonly used are light. In some instances, however, a slightly heavier or stiffer rod may be employed, especially if the small casting-spoon or a small minnow is used for large trout. Hooks from Nos. 5 to 7 are about right.

**The Sea Trout** Whether the sea-trout, or salmon-trout, of the Gulf of St. Lawrence is a different species from the speckled brook trout of the upper parts of rivers emptying into said Gulf has been a mooted question for many years, arguments *pro and con* having been advanced by a number of intelligent and observant anglers. In 1834 Hamilton Smith described it as a new species under the name of *Salmo canadensis*, and in 1850 H. R. Storer named it *Salmo immaculatus*. Later and better authorities, however, have decided that it is only a sea-run form of the speckled brook trout, *Salvelinus fontinalis*. I unhesitatingly indorse this opinion. Many years ago Dr. W. W. Dawson and myself investigated the matter thoroughly while salmon fishing on the Restigouche River. About the Metapedia, and below the railroad bridge, we caught the brook trout with its crimson and yellow spots, and near Campbellton, at the mouth of the river, we took the fresh-run form of bright silvery coloration, with scarcely any markings on the back and without spots. We also caught them a little higher up the river in transition stages, when the characteristic spots were beginning to appear, more or less pronounced. We compared hundreds, from plain silvery form to those with bright crimson and golden spots, but could find no structural differences.

**Changes in Coloration** Marine fishes are very constant in coloration, the non-colored portions being quite silvery, while fishes of fresh waters are subject to frequent changes in hue, being much influenced in this respect by the character of their haunts. So when the brook trout "goes to sea" it loses its spots and takes on the silvery livery of marine fishes, but resumes its original coloration soon after entering fresh water.

**The Winninish** Just why the winninish of the upper St. Lawrence, which is but a dwarfed form of the Atlantic salmon, does not also proceed to sea after the spawning season, like its prototype, is another puzzling proposition. It has been argued by some that the winninish is the original, or typical species, and that the anadromous salmon is descended from individuals that took on the seafaring habit. But such speculative theories can never be proven.

**A Virgin Trout Stream** Twenty years ago, Dr. W. W. Dawson, of Cincinnati—then president of the American Medical Association—and myself were guests of Surgeon-General Baxter, U.S.A., at his fishing lodge near Metapedia, on the Restigouche River, New Brunswick. Twenty years ago! How time flies! Since then my dear friends, Doctors Dawson and Baxter, have both crossed the silent river, though it seems but a few weeks since we were casting our lines in the pleasant places on the famous Restigouche. Indeed, that pleasant summer seems as but yesterday, when Mrs. Baxter killed with her own rod six salmon, running from twenty to thirty pounds, and was not more than thirty minutes in bringing any of them to gaff.



U. S. Bureau of Fisheries.

Dolly Varden Trout. (*Salvelinus parkei*.)

One day at Campbellton, at the mouth of the river, I met Mr. Dean Sage, of Albany, N. Y.,<sup>1891</sup> who kindly gave me permission to fish his excellent waters, farther up the Restigouche. I also met there Mr. Light, Chief Engineer of the Dominion of Canada, who gave me such a glowing account of the trout streams that had just been rendered accessible by the Quebec and Lake St. John railway, that Dr. Dawson and myself gave up our contemplated trip to the Nipigon, and decided to go up the Batiscan River in accordance with the advice of Mr. Light.

**The Batiscan River** He recommended taking with us from the Restigouche two Gaspé canoes and canoeemen who were accustomed to swift and rocky water; for the Batiscan, he informed us, contained numerous rapids that would tax the strength and prowess of the most experienced canoeemen. We engaged two Restigouche men to accompany us, and decided to take but one Gaspé wooden canoe, thirty feet long, and to procure a smaller and lighter one at Quebec.

**In Old Quebec** Arriving at that quaint and historic town, we obtained, with the help of the American consul, Mr. Downes, a new basswood canoe, built on the model of a birch bark, about fifteen feet in length; this we procured from an Indian tribe near the city. Through our letter of introduction from Mr. Light to Mr. Beemer, the contractor of the Q. & L. St. John railway, we had no difficulty in getting transportation for our canoes and camp equipage to the Batiscan River, which was then the terminus of the railway. Indeed, Mr. Beemer kindly went with us to that point, to see that we were started right on our exploration of the Upper Batiscan. Our objective point was Batiscan Lake, some ten miles as the crow flies, but the distance by river unknown, for its upper waters had never been fished by white men. A railroad survey party had gone a short distance up the stream by land, but beyond that it was a *terra incognita* to the angler. I questioned an old French trapper, who told me that he had been to the lake with sled and snowshoes in winter, and had fished through the ice; also that the trout ran up to ten pounds in weight. It was to be a veritable voyage of discovery, and Mr. Light was quite desirous to know something of the resources and particulars of the region, having leased the fishing privileges from the Dominion.

**Lacs du Rognon** Arriving at the river, I found Mr. Farnsworth—who has written so entertainingly of the French inhabitants—established in a pleasant camp a mile below the railroad crossing. I also met Captain Seaton, president of a Quebec fishing club, the lessee of the Lacs du Rognon, near the railroad crossing of the Batiscan. Captain Seaton showed me a basket of brook trout averaging five pounds, but to my surprise he stated that they were taken with the trolling spoon, as the trout of those lakes—more's the pity—utterly refused to take the fly, giving as a reason that those waters abounded in myriads of chub, on which the trout habitually fed.

**Up the River** We embarked in the canoes and proceeded up the river, which we found to be a wild, rocky stream, with long rapids, up which it was impossible to propel the canoes. This entailed the labor and delay of long portages, making our progress extremely slow. Between the rapids were long stretches of smooth, but very rapid water. The mountains rose up on each side from the edge of the stream, so that the portages were on a side hill of Laurentian rocks overgrown with moss a foot or two in depth. Owing to these difficulties we were six days in traveling five miles, and failed to reach Batiscan Lake, though I saw its waters from the top of a mountain.

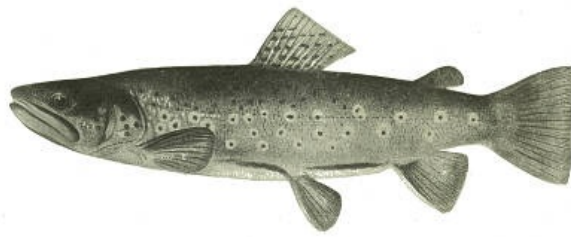
**Trout Galore** That we found trout galore is no name for it. They were as numerous as the black flies by day or the mosquitoes by night. And the chub were both plentiful and gamy—great dark, round, stout fellows, weighing sometimes two pounds, and gamier than the trout. We at last reached a fall, or rather twin falls, aggregating some thirty feet in height, and the most beautiful sight I have ever seen on any stream. The summit of the fall flowed in a straight, unbroken line across the river, over a solid ledge of rocks, with a curve as true,

**Batiscan Falls** uniform, and unbroken as a mill dam. The waters fell into a circular basin of considerable extent, and then, divided by a small island in the middle of the lower fall, plunged down again to the lower level. On this little isle were twin fir trees of remarkable beauty and symmetry, standing like silent sentinels in the silent Canadian forest—for no sound was ever heard except the rushing of the tumultuous waters beneath. The absence of birds was remarkable, only an occasional song sparrow being heard.

Our last camp was at the summit of the fall, a few feet from its edge. Above the fall were nothing but brook trout; not a chub to be seen; great lusty trout from one-half to three pounds—none less, none more. And they were too plentiful for real sport. A dozen would rise to the single fly at once, knocking it about sometimes like a tennis ball. We fished only a few minutes in the early morning and toward sundown, as we took only enough to supply the camp.

**Fishing on the Verge** Most of my fishing here was from the very verge or curve of the fall, where the trout were playing. Strange to say, none went over, as I ascertained by careful watching below. Indeed, there seemed to be none in the circular basin below. I could, at least, see none, neither could I get a rise, though I tried repeatedly. When hooked, on the verge of the fall, the fish always started up stream. As there were two feet of water going over the fall with a velocity of five or six miles an hour, or more, the strength and activity of the trout can be imagined. These trout were the most beautiful and highly colored I have ever seen; their bellies a bright orange-red, and their sides sprinkled with gold and intensely crimson spots, and their fins edged with jet black and pure white. The coloration was unusually vivid and pronounced.

**Lake Edward** From this camp we could hear all day the workmen on the railroad blasting near Lake Edward, which was but a few miles away, and which has since become so noted as a fishing resort.



From a color sketch by Sherman F. Denton.

### Brown Trout. (*Salmo fario*.)

This was, in truth, a virgin trout stream. No artificial fly had ever before fretted the surface of its pristine waters. The only sign of man was the mark on a tree, near our camp, where a chip had been cut out by a trapper, years before. Just above our camp was a narrow trail leading from the cliffs to the river, but the only tracks were those of caribou, bears, 'coons, and porcupines.

#### There Are Others

There are other species of trout in American waters that are fished for in much the same way as for brook trout; they are the rainbow, steelhead, red-throat, golden, Dolly Varden and Sunapee trout; also the introduced European brown trout. These various species are being introduced in trout waters in a number of states, so that it may be well to briefly refer to some of their characteristics.

#### Rocky Mountain Species

In the Rocky Mountain region there are three groups of trout belonging to the *Salmo* genus—the steelhead, rainbow and red-throat, or cut-throat as it is sometimes called. They are all black spotted. In widely separated sections of country these different species may be readily distinguished by certain characteristics, but in other localities, where they co-exist naturally, it is sometimes a difficult matter to distinguish one group from another. At one time, indeed, the rainbow and steelhead were pronounced by competent authority to be the same fish, the steelhead being supposed to be the sea-run form of the species. At the present time, however, they are held to be distinct species.

The Dolly Varden, or bull-trout, belongs to a different genus (*Salvelinus*), and is related to the brook trout of Eastern waters, having also red spots. While the red-throat trout inhabits both slopes of the Rockies, the others named belonged originally to the Pacific Slope.

#### The Red Throat Trout (*Salmo clarkii*)

The red-throat trout is the most widely distributed of the Western trouts. It inhabits both slopes of the Rocky Mountains, and, as might be inferred from this extensive range, it varies in external appearance more than any of the trout species. There are a dozen or more well-defined sub-species or geographical varieties, but all have the characteristic red splashes on the membrane of the throat. By means of this "trademark" it may be readily distinguished from the rainbow or steelhead trouts, both of which are also black-spotted.

#### Nomenclature

But while the red-throat trout varies considerably in contour, coloration and markings, in different localities, it is identical in structure wherever found. It is known by the United States Bureau of Fisheries as the "black-spotted trout," a most unfortunate designation, inasmuch as the rainbow and steelhead trouts are also "black-spotted." The name red-throat is distinctive, and is preferable to the rather repulsive name of "cut-throat" trout by which it is also known. The red-throat trout is designated in its native waters by such names as "trout," "brook trout," "speckled mountain trout," etc. As the Eastern red-spotted "brook trout" is rapidly being introduced to Western waters, the name "brook trout" should be applied only to that species.

#### Growth and Weight

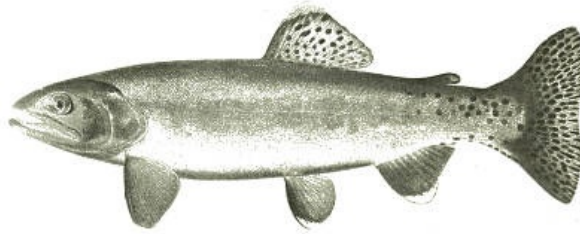
Where the red-throat trout grows to a larger size than usual, as in the Yellowstone and other lakes, it is often called "salmon-trout," and the bull-trout of the Pacific Slope is also sometimes known by the same name, but the only "salmon-trout" is the steelhead trout. The red-throat trout rises to the fly more freely than the Eastern brook trout, though in gameness and flavor it is hardly its equal. Its habits are also somewhat different. It usually lies in pools and holes, and does not frequent the riffles so much as the Eastern trout. In size it is somewhat larger than the Eastern trout in streams of the same relative width and depth, and like all trout species grows to greater weight in lakes and large streams. I have taken them on the fly weighing from three to five pounds in Soda Butte Lake in the Yellowstone Park, and in Yankee Jim Cañon on the Yellowstone River. In Yellowstone Lake some are infested with the white pelican parasite, rendering them emaciated and lacking in game qualities; this condition, however, seems to be disappearing somewhat, while those in the river below are well-nourished and gamy.

#### Tools and Tackle

The same tackle and artificial flies used for the Eastern brook trout are as suitable, as a rule, for the red-throat, though preference is given to the stone fly, coachman, professor, black gnat, cinnamon, Henshall, and the various hackles by Montana anglers. The red-throat seldom breaks water when hooked, but puts up a vigorous fight beneath the surface. As the mountain streams are usually swift and rocky and fringed with alders, willows and other small trees, the angler must be wide awake to land his fish and save his tackle.

#### The Steelhead Trout (*Salmo gairdneri*)

The steelhead, or salmon-trout, is the trimmest and most graceful and the gamest of all the trout species, being more "salmon-like" in shape and appearance. On the Pacific Coast, where it is native, and runs to salt water, it grows to twenty pounds or more in weight, when it is known as steelhead salmon, and many are canned under this name. Its spots are smaller than in the other black-spotted species. It has, sometimes, especially the males, a pink flush along the sides, but not so pronounced as in the rainbow trout. Its color is also of a lighter hue, with steely reflections. Its scales are somewhat larger than those of the red-throat, but not so large as in the rainbow trout.



From a color sketch by Charles B. Hudson.

Golden Trout of Volcano Creek. (*Salmo roosevelti*.)

**As a Game-Fish**

It seems to be pretty well established in Lake Superior, where it was introduced by the United States Bureau of Fisheries, some fine catches having been made of late years. It has also been introduced into several states on the eastern slope of the Rockies, which seem to be very suitable for this fine fish. In Montana I have taken it up to five pounds. It rises eagerly to the fly, and when hooked breaks water repeatedly like the black bass. It is very trying to light tackle, and must be carefully handled by the angler. The flies named for the red-throat trout are just as killing for the steelhead. Like the red-throat it is also susceptible to bait, which in Montana is the "rock-worm," the larva of the caddis fly. As a food fish it excels all of the trout

**Remarkable Growth**

species as might be surmised. In fresh water lakes it should grow to eight or ten pounds. Near Virginia City, Montana, is located Axolotl Lake, so named from being inhabited by a species of axolotl, but it contained no fish of any kind until stocked with a few thousand steelhead trout fingerlings from the Bozeman Fisheries Station, in 1902. In September, 1907, two of my friends, while trolling from a canvas boat on this lake, caught eleven trout weighing in the aggregate seventy pounds, the largest weighing thirteen pounds, an extraordinary weight for a five-year-old trout. But this is easily explained when it is considered that the trout had been feasting for several years on such nutritious diet as these curious amphibians afforded, and in great abundance, but which now are said to be scarce.

**The Rainbow Trout (*Salmo irideus*)**

The rainbow trout has also been introduced to Eastern waters by the United States Bureau of Fisheries, and seems to be well adapted to ponds of considerable extent, where water plants and grasses flourish. Such waters seem to be more congenial than the colder mountain streams; and moreover it has a way of disappearing from the smaller streams to seek those of greater depth. It will thrive in warmer water than the other trouts. The rainbow is similar in contour to the red-throat, though somewhat deeper, and with shorter head, smaller mouth, and larger scales. Its distinguishing feature is the broad red band along the lateral line, common to both male and female. It is a handsome fish, with considerably more gameness than the red-throat, but is not so vigorous on the rod as the steelhead of the same size. Owing to its tendency to descend streams it is particularly liable to enter irrigation ditches, in which event its doom is sealed. As a food-fish it is superior to the native red-throat trout.

**In New Waters**

In no new waters has the rainbow done so well as in those of Michigan and Colorado. In the former state it has populated streams that were once the home of the grayling, more's the pity. In Colorado, in the Gunnison and neighboring streams, it furnishes sport galore to hundreds of delighted anglers, who visit the locality especially for the fine fishing. No trout surpasses the rainbow in rising to the artificial fly, and almost any trout fly will capture it, though the silver doctor, coachman, and the different hackles, seem to be more favored than others.

**The Dolly Varden Trout (*Salvelinus parker*)**

The Dolly Varden, or bull-trout, sometimes erroneously called "salmon-trout," is the only red-spotted trout native to Western waters. It belongs to the same genus as the Eastern brook trout, but grows much larger. It is found only on the Pacific Slope, in both lakes and streams, growing to twelve or fifteen pounds under favorable conditions. In the streams it is a gamer fish than in lakes, though the larger fish are rather lazy and logy. Compared with its Eastern relative it is hardly so vigorous on the rod, when of similar weight, and not quite so good for the table.

It takes the fly readily, also any kind of natural bait, and in lakes or broad streams succumbs to the trolling- spoon. It is not so great a favorite as the other Western trouts, except in Alaska, where it is abundant in all lakes and streams.

**The Brown Trout (*Salmo fario*)**

The brown trout is the brook trout of Europe, and was introduced to the United States from England and Germany, under the auspices of the United States Bureau of Fisheries. Those from Germany (the eggs), were donated by Von Behr, and his name was unfortunately applied to the fish as "Von Behr trout," also "German trout," two most unfortunate and ridiculous names. It is the "brook trout" of Europe and "brown trout" of Great Britain. In Germany it is "*bach forelle*," which means brook trout. Among English-speaking people it has been known since before the day of Walton and Cotton as "brown trout," and brown trout it should be world without end. To rob this fine fish of its good name and substitute the misnomers mentioned was both unwise and absurd.

**Absurd Names**

I sincerely hope that those names, together with the equally absurd name of "black-spotted trout," as applied to the red-throat trout, will soon be relegated to the shades of oblivion, never to be mentioned in polite angling society. If the fish mentioned was the only black-spotted trout inhabiting its native waters, it would be a good and suitable name, but unfortunately its congeners, the rainbow and steelhead trouts, are also "black-spotted" as before mentioned. The name originated, I think, about the same time as "Von Behr." When the first eggs were taken East and hatched the fry were called Rocky Mountain trout and California trout, the former name being more applicable than the latter, but neither were very suitable. Our technical knowledge of the Western trouts must have been sadly deficient, however, when they were displaced for "black-spotted trout."

**As a Game- and Food-Fish**

The brown trout has both reddish-brown and black spots, of a larger size than those of its American cousins. Altogether it is a fine fish, much prized in Great Britain, but in American waters it is hardly so gamy, and not quite so good a food-fish as our native trouts. It grows to a larger size than our brook trout, and will thrive in warmer water. A variety of the brown trout, the Loch Leven, was introduced into

Firehole River, in the Yellowstone National Park, some years ago, and it is remarkable how well they thrive in the warm geyser water. They must have been planted in some stream in the Park tributary to the Yellowstone River also, for I know of two being taken near Livingston, Montana, one weighing more than ten pounds, the other about twelve. In a pond near Bozeman, Montana, some brown trout fry were planted, and at the end of four years two were taken weighing six pounds each, both of which were weighed by myself.

**Fly-Fishing** The brown trout rises well to the fly, as well if not better in American waters than in England, and does not seem to be so fastidious as to the color or shape of the fly offered. Any of the popular trout flies will answer, and it seems to have an inherited fancy for the imitations of the May-fly, the green and gray drakes, when the natural May-fly is on the water. This fly is also known as the sand-fly.

**Golden Trout of the Sierras** High up in the Southern Sierras, about 10,000 feet, in the neighborhood of Mount Whitney, California, are several species or sub-species, of "golden trout," apparently related to the rainbow trout. For beautiful and varied coloration they excel all fishes of fresh waters and rival those of the coral reefs of the tropics.

**Varieties of Golden Trout** For many years the golden trout of Mount Whitney has been described at various times by enthusiastic anglers in the sportsmen's journals, but not until lately have these fishes been properly systematized. In the summer of 1904 a party headed by Dr. Barton W. Evermann, under the auspices of the United States Bureau of Fisheries, proceeded to the locality mentioned, and thoroughly explored the different streams, and collected hundreds of specimens of the trout inhabiting them. As a result of this expedition the following species of golden trout have been established by Dr. Evermann: [114]

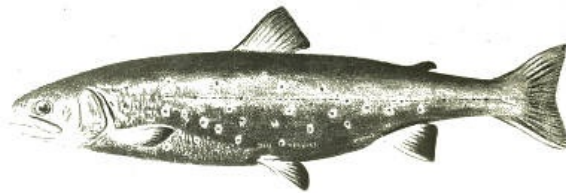
Golden Trout of Soda Creek (*Salmo whitei*),

Golden Trout of South Fork of Kern River (*Salmo aqua-bonita*),

Golden Trout of Volcano Creek (*Salmo roosevelti*).

These trout are all small, averaging six to eight inches, but are quite gamy and very free biters. The golden trout of Volcano Creek is the handsomest and gamest. Of this fish Dr. Evermann says:

"This is the most beautiful of all the trouts; the brilliancy and richness of the coloration is not equaled in any other known species.... In form it is no less beautiful; its lines are perfect, the fins large and well proportioned, and the caudal peduncle strong; all fitting it admirably for life in the turbulent waters in which it dwells. It is a small fish, however. The largest example collected by us was eleven and one-fourth inches in total length, and the heaviest one weighed ten ounces."



From a color sketch by Sherman F. Denton.

Sunapee Trout. (*Salvelinus aureolus*.)

"As a game-fish the golden trout is one of the best. It will rise to any kind of lure, including the artificial fly, and at any time of day. A No. 10 fly is large enough, perhaps too large; No. 12 or even smaller is much better. In the morning and again in the evening it would take the fly with a rush and make a good fight, jumping frequently when permitted to do so; during the middle of the day it rose more deliberately and could sometimes only be tempted with grasshoppers. It is a fish that does not give up soon but continues the fight. Its unusual breadth of fins and strength of caudal peduncle, together with the turbulent water in which it dwells, enable it to make a fight equaling that offered by many larger trout."

**Propagation of Golden Trout** In the autumn of 1906 several hundred golden trout from Volcano Creek were brought by a fish-car to the Bozeman Fisheries Station. In the following spring several hundred eggs were taken from a few of the largest fish, about six inches long, and it is hoped that this beautiful trout may be successfully propagated, if only for its handsome coloration.

**Sunapee Golden Trout (*Salvelinus aureolus*)** This fine fish was first described by Dr. Tarleton H. Bean, in 1887, from Sunapee Lake, New Hampshire. It exists, also, only in one or two ponds or small lakes in the vicinity. It is almost identical with the European char (*Salvelinus alpinus*). It is generally supposed to be native to the waters mentioned, but there is a possibility that it was introduced from Europe. However that may be it is now recognized as a different species and a fine example of American trout. It grows to about twelve pounds in weight, but unfortunately does not rise to the fly. I have had no experience with this fish, but Dr. J. D. Quackenbos, who, more than any one else brought the fish to notice, says:

**Not a Fly Fish** "As far as known it does not rise to the fly.... Through the summer months it is angled for with a live minnow or smelt, in sixty or seventy feet of water, over cold bottom, in localities that have been baited. While the smelt are inshore, trolling with a light fly-rod and fine tackle, either with a Skinner spoon, No. 1, or a small smelt on a single hook, will sometimes yield superb sport."

**Trolling with Smelt**



# HIS MAJESTY: THE SILVER KING

**In Florida Waters**

IN Florida the tarpon may be found during the winter east of Cape Sable in Barnes and Cards Sounds, and in Biscayne Bay. As the water becomes warmer, in February and March, it ascends the coasts. On the Gulf side it appears first at Marco, back of Cape Romano, then in the vicinity of Naples and Charlotte Harbor. Punta Rassa was formerly, and is yet, a favorite resort for Northern anglers, but Fort Myers, twenty-five miles above, on the Caloosahatchie, is now the principal rendezvous for tarpon fishing from March to May. Later the silver king wanders farther north, and during summer good fishing is abundant at any of the inlets. It is also abundant on the Texas coast. On the east coast of Florida, Jupiter and Indian River inlets are the best grounds for tarpon. The largest I have ever seen were at Indian River inlet.

The tarpon is a fish of the tropical seas and is peculiarly sensitive to cold. I happened to be in Florida during the winters of 1886 and 1895 when most of the orange groves were killed by freezing. At Tampa the temperature fell to 19° F. As a result of the sudden chilling of the water I saw windrows of dead fish along the shores of the bays, especially at Charlotte Harbor. They were mostly sub-tropical fishes, and among them were hundreds of tarpon, large and small, many upward of a hundred pounds.

**Bait Fishing**

While the tarpon will take any kind of fish bait, or artificial bait for that matter, especially at the inlets or up the streams, mullet bait is generally used; and the prevalent method of allowing the fish to swallow the bait so as to hook him in the gullet will probably always be practiced, for it is the only sure plan to bring him to gaff. If hooked in the mouth or tongue when trolling or casting, he almost invariably shakes out the hook and escapes. Once in a while, however, one will be landed in this manner, and even with the artificial fly, in which event the honest angler feels a just pride in his happy performance and is the envy of them all.

**Fly Fishing for Tarpon**

I have had the best sport with tarpon, as early as 1878, up the fresh water rivers, using a salmon fly-rod and large gaudy flies. These were the small fry, however, running from ten to forty pounds, but even at these weights they demanded the best skill of the angler, inasmuch as they were hooked in the mouth, and only occasionally could one be landed.

**Fishing at Mayport**

At that time my old friend, Dr. Kenworthy, of Jacksonville, Florida, was wild over tarpon fishing at Mayport, at the mouth of St. John's River. But the Doctor and his friends were using handlines, believing it impossible to kill one on the rod, and moreover, thought it quite a feat to land one with the handline, hooked in the mouth, as indeed it was. I remember well a wonderful array of big hooks attached to a metal strip that the good Doctor showed me as his latest invention to hold fast to a silver king. I think it was owing to Dr. Kenworthy's enthusiasm in the matter that induced Colonel W. H. Wood, of New York, an old striped bass angler, to go to Florida to try conclusions with the tarpon with striped bass rod and tackle. At any rate, to Colonel Wood belongs the credit of bringing rod fishing for tarpon into the prominence and popularity it now holds.

**The First Tarpon on a Rod**

In the winter of 1880-1 Mr. Samuel H. Jones, of Philadelphia, while trolling with the spoon in the Fort Pierce channel of Indian River Inlet, hooked and landed, after a contest of two hours, a tarpon weighing one hundred and seventy pounds with striped bass rod and tackle. This was the first tarpon of more than one hundred pounds killed on the rod. I was at that locality the following winter, and learned the full particulars of the extraordinary performance from Mr. Thomas Paine (son of Judge Paine, of Fort Capron), who was Mr. Jones's boatman on the occasion. Afterward I received a full account of it from a son of Mr. Jones, who was with him and witnessed the capture of the immense fish. It is worthy of note that the fish was hooked in the mouth and not in the gullet. Honor to whom honor is due.

**Record Tarpon**

In 1885 Colonel W. H. Wood, of New York, made rod fishing for tarpon famous at Puntarassa. In March, 1886, I was present when he brought in from Estero Bay his record fish of one hundred and forty-six pounds, and two others weighing nearly a hundred each. They were hung up and photographed by my shipmate, Judge Nicholas Longworth, of Cincinnati.

**The Largest to Date**

My friend, Mrs. T. J. Bachmann, of Florida, formerly Mrs. Stagg, of Kentucky, was high hook for many years with her two hundred-and-five-pound fish, which was mounted and exhibited in my department at the Chicago World's Fair, together with one of one hundred and ninety-six pounds caught by Mr. McGregor, of New York. Mr. Edward vom Hofe, of New York, in 1898, caught one at Captiva Pass weighing two hundred and eleven pounds, and Mr. N. M. George, of Danbury, Connecticut, afterward took one at Biscayne Bay of two hundred and thirteen pounds.

**Tarpon Tackle**

The equipment for tarpon fishing consists of a heavy striped bass rod, seven or eight feet long, a first-class multiplying reel, 100 to 150 yards of Cuttyhunk line of from 18 to 21 threads, and knobbed hooks, Nos. 8-0 to 10-0. The tarpon has no sharp teeth, but the edges of its jaws are sharp enough to cut an ordinary line, and open vertically. Owing to this fact it is imperative that a snell of wire, whit-leather, or of heavy braided cotton line be used.

**Tarpon Bait Fishing**

Tarpon fishing, as usually practiced, requires a level head, considerable muscle, and a just appreciation of the tensile strength of tackle. With no thought of disparagement, it is none the less true, that not much real angling knowledge—as that term is understood in relation to salmon, trout or black bass fishing—is required. The hook is baited with mullet or other fish bait, a long cast made, and the bait allowed to remain on the bottom until "negotiated" by the huge fish. Usually a lot of slack line is pulled from the reel and coiled in the boat, in order that the fish may carry off the bait without hindrance, and so be induced to swallow it, when he is hooked in the gullet. Then the trouble begins. Feeling the prick of the hook he vaults into the air several feet, and continues to do so until exhausted, when he is reeled in to the gaff or taken ashore into shallow water, the latter plan being the best.

**Pumping Them In**

Huge fishes like the tarpon, jewfish or tuna are sooner brought to gaff by "pumping," as it is called. It is effected in this way: The rod is raised upward and backward and then quickly lowered to a horizontal position, when advantage is taken of any decreased tension or slack line by reeling it in as rapidly as possible. This operation is repeated whenever practicable, and as often as possible.

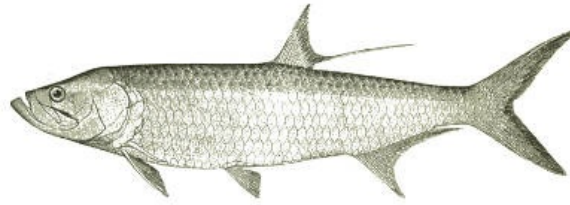
**Tarpon Reel**

The plan of having a quantity of slack line in the boat, as mentioned, is really not necessary with a

reel of the best quality, and is open to several obvious objections. A tarpon would not notice the slight pull on the line from such a reel, as it renders on the slightest provocation. A leather brake sewed to one of the bars of the reel, or one of the patented drag-handles, is absolutely necessary in playing a tarpon, otherwise the fingers are likely to suffer in consequence of the fierce rushes of the fish for freedom.

**A Tarpon Enthusiast**

My good friend Major-General Eustace Hill, a retired officer of the British army, whom I initiated in tarpon fishing, declared to me—after an experience of thirty-five years in India, and ten summers in Norway, salmon fishing—that the two finest sports in the world were pig-sticking and tarpon fishing, notwithstanding he has a record of two hundred salmon in a single season—and there you are. But the General is one of the "strenuous" type of sportsmen. By the way his grandfather, Admiral Keppel, the ranking officer of the British navy, died a few years ago at the advanced age of ninety-four years; by a special Act of Parliament he was continued in active service until the day of his death.



U. S. Bureau of Fisheries.

**Tarpon. (*Tarpon atlanticus*.)**

**Some of His Habits**

During the winter months the tarpon may be found in the shallow water of the bays of southern Florida, basking in the sun, under the mangroves. In such situations many are speared, or "grained," as it is called by native fishermen. But during the summer they may be seen by hundreds rolling and playing on the surface, at any of the deep inlets of either coast. At this time the angler, by trolling or surface fishing, may get scores of strikes in an hour, but as to landing them—that is another fish story.

**Breeding Grounds**

The tarpon breeds in the West Indies and Central America, but not, I believe, in Florida. At all events, as a collector of fishes I have combed the shores and rivers of Florida, with a fine-meshed seine, from Titusville on the east coast to Tampa on the west coast, but never found a tarpon of less size than a foot in length. If they breed in the bays or rivers I certainly would have found some smaller ones.

**A Tussle with a Tarpon**

Late in the winter of 1892, when engaged in the preparation of the United States Fish Commission exhibit for the Chicago World's Fair, my duties took me to Florida to collect fishes for the purpose of making gelatin casts of them for the great exposition. I was very desirous of obtaining a tarpon, but the season being backward and the water cold, none had been taken on the west coast up to that time—about the middle of March.

**Chance for a Tarpon**

One day John Savarese, a prominent fish dealer of Tampa, informed me that he was putting in a pound net in Sarasota Bay as an experiment, it being the first ever introduced on the west coast of Florida. Here, then, seemed to be my only chance of getting a tarpon, as the time allotted for my stay in Florida was rapidly drawing to a close. Mr. Savarese promised to give me *carte blanche* instructions to the man in charge when the net was ready.

**Sarasota Bay**

Accordingly, in a few days I left Tampa on the steamer for Braidentown, on the Manatee River, at the beginning of a norther. At Braidentown I engaged a carriage and drove across country, through the pine woods, to Sarasota Bay, arriving at The Palms, the charming little hotel built by good Mother Jones, who is now in Heaven. I enjoyed one of her matchless suppers after my drive through the rain and in the face of the fierce norther.

**Interviewing the Captain**

I found that the shanty of Captain Faulkner, who had charge of the pound net, was adjoining the hotel grounds. I interviewed him that evening, when he promised to go out to the net the next afternoon if the wind abated. As I knew that the northers of Florida lasted several days, and my time was limited, I replied that I would visit the net the next day.

**The Start for the Pound Net**

On the next afternoon the norther was in full force and the sea running high. It required a good deal of persuasion for Faulkner to consent, but fortunately he yielded at last to my entreaties. We embarked in a sixteen-foot rowboat—Faulkner, a white man, a negro, and myself. The net was two miles down the bay. The wind was behind us, so we were soon there, drenched with spray, and quite cold.

**The Expected Happens**

The painter of the boat was made fast to one of the net stakes, and the men got into a large bateau that was moored alongside the trap of the net. After closing the tunnel of the net and loosening the stays they began hauling up the trap. Then the expected happened. A tarpon leaped high in the air in his attempt to escape, but striking one of the stakes, he fell back again into the trap.

"Captain!" I cried, "don't let him get away; that's the fellow I'm after!"

The net was swarming with fish of all kinds and sizes, from a ten-inch mullet to a ten-foot shark. Finally Captain Faulkner got his gaff-hook into the tarpon's gills. "What shall I do with him?" he asked.

"Put him in my boat," I answered.

**The Coveted Prize**

Which was easier said than done, for it took the three of them to transfer him to my craft, from which I removed the middle thwarts to make room for his silver kingship. He was deposited on the bottom of the boat and the men resumed work.

**He Rose in His Might**

Then the silver king rose up in his majesty and stood on his tail, towering above me, for he was over six feet tall. I immediately grabbed him in my arms with a grip born of desperation, for I knew it was my last and only chance to secure a tarpon. The boat was dancing about on the crest of the sea and the north wind howled. The palmettos on shore lashed their broad fronds as they bent before the gale. It was a difficult matter at best to keep one's feet, but with a slippery silver giant in one's arms it was a wonder that we both did not go overboard.

**A Slippery**

**Customer**

But I held on to him and got him down in the bottom of the boat. No sooner down, however, than he was up again. This time he slipped from my grasp and went down full length on the bottom with a noise like the felling of an ox in an abattoir, causing the men to pause in their work and look around.

"Let him go!" shouted the Captain. "He'll knock the bottom of the boat out and drown you!"

"I'll risk it," I replied. "I won't let him go if I have to go overboard with him. I am bound to land him in Washington if I have to go by water."

**A Wild Dance**

I tried sitting on him then, but he would not be sat down upon, and up he came again. Again we had it, dancing about in the slippery boat on a raging sea. It was a medley of waltz, two-step, polka, and galop, with a slimy silver king for a partner. He seemed to weigh a ton and to be ten feet tall. At last I got him down again and replaced one of the thwarts above him. I got out my knife, lifted up his immense gill cover and severed his heart.

The men were scooping out their fare of mullet, red-fish, and sea-trout. The large shark, a number of smaller ones, plenty of rays, and hundreds of other fish were still in the trap. Seeing a fine whip ray some four feet across and as spotted as a leopard, I shouted, "Captain, I want that whipparee!"

**A Whipparee  
The Stingaree**

They soon gaffed him and deposited him on top of my tarpon. Then observing a huge sting ray, larger than the whip ray, I again called out: "Cap, gaff that big stingaree!" [135]

"Not much," he answered.

"Yes," I continued, "I really want him; put him in my boat."

"You don't mean it. Why, he'll kill you."

"I'll risk it," I said; "haul him over in my boat."

"I'm afraid of him. His sting is six inches long!"

I prevailed on him finally, and after much careful management they hove it into my boat. "Look out for his sting!" cried Faulkner. "It's sure death!"

**A Scared  
Darkey**

"Fore God! Marse Doctor," said the negro, "I wouldn't stay in de boat wid dat debbil stingaree for a hundred acres in de promise' land!"

But I covered the sting, the dreaded weapon, with a piece of sailcloth and planted a foot on each side of it. The men then put their fare of marketable fish on the top of my specimens, which kept them in place, and then emptied the trap of the rest of the fish. Strange to say, the large shark, at least ten feet long, was completely smothered under the mass of fish and had to be gaffed and hauled overboard by main strength. It was now dark, with two miles to row in the teeth of a blue norther. We arrived at the hotel pier nearly frozen.

**A Blue  
Norther**

"Captain Faulkner," said I, "it's ten dollars in your inside pocket if you get my fish up to Hunter's Point by morning to meet the Tampa fish steamer."

The wind lulled somewhat at midnight, when they started in the sailboat; but it took them until daylight to beat up the fifteen miles to Hunter's Point, where my specimens were put on ice with the market fish and taken on the steamer *Mistletoe* to Tampa.

**Sorry Plight of  
the Captain**

The next day but one I went to Faulkner's shanty, by previous appointment, for another trip to the pound net. I found the Captain sitting by his stove in a sorry plight. His head and face were swathed in bandages and badly swollen.

"Why, Captain!" I exclaimed, "what's the matter? I want to go out to the net this afternoon." [137]

**Tic Douloureux**

"Matter enough," he replied ruefully. "I've been nearly dead with neuralgia from going out to the net day before yesterday. Look at my face! I wouldn't go to-day for all the fish in Sarasota Bay. You must be made of whit-leather or whalebone!"

Next morning the storm subsided and I returned to Tampa. At the fish house of Mr. Savarese, I found my specimens in fine condition in an immense icebox. We at once began to pack them for shipment to Washington. As the tarpon lay on the floor Mr. Savarese asked, "What will he weigh?"

**A Sure Thing**

"Well," I replied, "you may guess his weight, but I have had a Græco-Roman wrestling match with him and I know his weight to a pound."

Mr. Savarese then measured him with a tape line.

"Six feet and three inches," he announced, "and he will weigh one hundred and fifty pounds."

"No," I rejoined, "not so much. He might weigh your figure in a few months with plenty of food and warmer water, but his present weight is one hundred and twenty-five pounds."

We put him on the scale, which he tipped at one hundred and twenty-four pounds.

**A Fair  
Specimen**

The hundreds of thousands of visitors to the World's Fair who admired the graceful proportions of this tarpon, in the gelatin cast, painted in life colors, and hung in the Government building, little imagined the hardships and excitement attending its capture, or the subsequent swelled face of poor Captain Faulkner.

# FLORIDA FISH AND FISHING

**At the Yuletide**

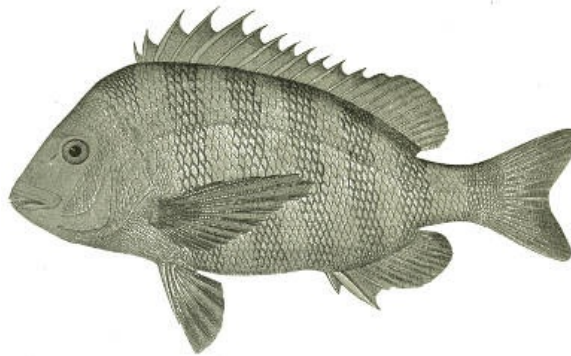
AT the yuletide, or during the Christmas holidays, the lakes and streams of the North and West are locked fast in the icy chains of winter. The waters are then a sealed book to the angler, who, unless he indulges in the questionable sport of fishing through the ice, is consoled only by retrospective pleasures when overhauling his rods and flybooks. Not so, however, in the sunny waters of Florida, where fishing is, on the whole, at its best at the time of the Christmas festivities, if such a season can be realized by the Northern angler amid the profusion of fruits, flowers, and foliage.

**A Pleasant Transition**

To one accustomed to the merry jingle of sleigh bells and to coursing swiftly, steel shod, over the frozen pools he loves so well, it is really a marvelous, but pleasing, transition to be able to cast his bait or flies during the season of the yuletide.

**Climate of Florida**

Florida has one of the finest and most genial continental winter climates in the world. One can live in the open air the winter through, without discomfort, as it seldom rains during that season, and therein lies the great and lasting benefit to the invalid who requires an open-air life and nature's great restorers, fresh air, warm sunshine, moderate exercise and sound, refreshing sleep. He will be told that Florida has a damp climate by his physician who has never been in the state, and will be advised to go to a dry climate. But the dampness of Florida is not an exhalation from the soil, which is dry sand, but is the humid, salt air from the sea, which with the balsamic fragrance of the pines, conduces to the health and well-being of the invalid, and to the pleasure and enjoyment of the angler and sportsman.



U. S. Bureau of Fisheries.

Sheepshead. (*Archosargus probatocephalus*.)

**Better than the Mediterranean**

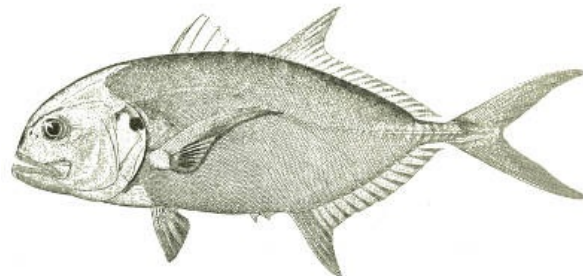
I have suffered more from raw, chilly weather in the much-lauded winter climates of southern France, Italy, and even Morocco, than in southern Florida. And while the shooting along the Mediterranean in winter is very fair for the red-legged partridge, migratory quail and snipe, it is not to be compared with the shooting to be had in Florida, either for abundance or variety of game. In fact, Florida is

**Good Shooting**

hardly excelled by any state in the Union in its possibilities of fishing and shooting. And then these sports can be practiced at a time when the streams and lakes of the North are bound in icy fetters, and the woods and fields buried beneath the hibernal mantle of snow.

**Florida Fishing**

The angler can hardly go amiss in any section of Florida for his favorite sport. Wherever there is reasonably pure or uncontaminated water he will find some species of the finny tribe. And the true angler, he who loves the sport for its own sake, can be satisfied so long as his tackle is commensurate with his quarry. With his stout tools and tackle he enjoys the phenomenal leaps of the tarpon, or the leviathan struggles of the jewfish. With his delicate split-bamboo wand, silken line, gossamer leader and fairy flies, he enjoys equally well, perhaps more, the wary bream or crappie of the fresh waters. Better still, with suitable tackle the acknowledged game fish, *par excellence*, of America, the black bass, will yield him sport galore.



U. S. Bureau of Fisheries.

Cavalla. (*Carangus hippos*.)

**The Sheepshead (Archosargus probatocephalus)**

The lover of sheepsheading will find his quarry about the piling of old wharves or about the oyster reefs, while his bait—fiddler crabs—abound in myriads on the beaches. I once saw the catch of a man who took three hundred on a single tide from Summerlin's cattle wharf at Puntarassa. He should have been indicted, tried and convicted by a jury of honest anglers and sentenced to a term of imprisonment by a judge of fair sport. The sheepshead, with its human-like incisors, is very adroit at nibbling the bait from the hook, and must be circumvented by a quick, sharp turn of the wrist upon the least provocation or intimation of its intentions; this will drive the hook into its well-paved jaw six times in ten. When hooked, the sheepshead makes strenuous efforts to reach the bottom, which is very trying to a light rod. The fish should be

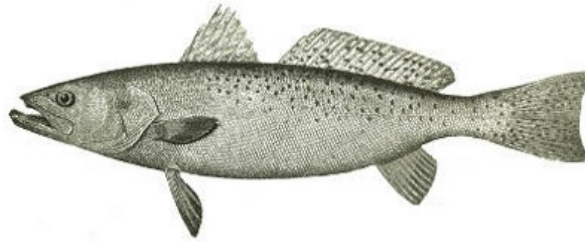
kept near the surface until the spring of the rod compels it to give up the contest. A school of sheepshead, in their striped suits, reminds one of a gang of prison convicts, begging their pardon for the comparison; of course all comparisons are odious. The same rod and tackle hereafter recommended for cavalli, etc., answers for sheepshead.

**The Cavalli**  
(*Carangus hippos*)

The cavalli, or jack, with its second cousins, the runner, the horse-eye jack, the leather jack, amber jack and the pompanos, are closely allied to the mackerels, and all are game-fishes. The cavalli can be taken with the fly, bait, or trolling-spoon, and when hooked puts up a vigorous fight. It is a handsome silvery fish, bound in blue and yellow, and can be found about the inlets and tideways. In rare instances it reaches twenty pounds in weight, but is usually taken from two to ten pounds. Ordinary black bass tackle is suitable for the cavalli, with a sinker adapted to the strength of the tide. For baits, any small fish, as anchovy and pilchard, will answer, while shrimp and cut bait can also be used. Gaudy and attractive flies are the best for fly-fishing, which can be practiced from piers, a boat, or from the points of inlets. The most popular way of fishing is by trolling in the channels, when a spoon with but a single hook should be used.

**The Sea Trout**  
(*Cynoscion nebulosus*)

The sea-trout is a surface-feeding fish, and a game one. It is not a trout, of course, but is akin to the Northern weakfish, and is called a trout, by courtesy, because of its black spots. It takes the fly because it cannot help it, and will give the angler ample exercise with a light rod before it is landed. Being more high-minded than the sheepshead, it does its fighting on the surface. The sea-trout is not a bushwhacker nor yet a guerilla. It sometimes runs up the streams to fresh water.



U. S. Bureau of Fisheries.

Sea Trout. (*Cynoscion nebulosus*.)

**The Spanish Mackerel**  
(*Scomberomorus maculatus*)

The Spanish mackerel is not a whit behind the sea-trout in gameness, or in its aptitude or fancy for the feathers and tinsel of an artificial fly. It is the trimmest built fish that swims, and always reminds me of a beautiful racing yacht. It feeds and fights on the surface and in the open, displaying its silver and blue tunic with gold buttons to good advantage. They move in battalions along the outer shores during winter, but in March and April enter the inlets in companies, and then afford fine sport to the angler.

**Shore Fishing**

When the Spanish mackerel is running into the bays and inlets, it is often accompanied by the sea-trout (spotted weakfish). Both fishes are surface feeders and take bait or the artificial fly eagerly, as stated. They run in schools at this season, and are readily seen as they plow along the surface, creating quite a ripple.

The fishing at this time is practical from wharves or the points of inlets and passes.

The long piers at Port Tampa and St. Petersburg on the west coast are favorite places. The fishing is done on the flood tide, mostly, but often at the last of the ebb. No special directions are needed when the fish are running in schools, except to keep the bait or fly in constant motion on the surface—the fish will do the rest.

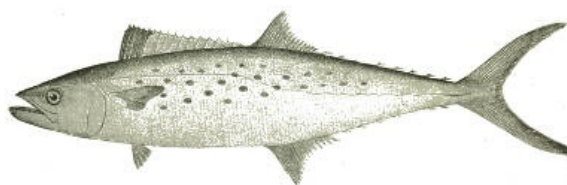
Both are game-fishes of high degree, and the angler will have all he can attend to after hooking one on light tackle. As food fishes they are excellent. I prefer to fish from the sand-spits at the mouths of inlets, or if near a pier to fish from a boat moored alongside, as the fish are not so likely to see one, and they are more easily landed.

**Bait Fishing**

Ordinary black bass tackle is quite suitable for either fish, with fly or bait. Braided linen lines are preferable, however, to silk ones, as the latter soon rot in salt water. A gut leader about four feet long and snelled hooks, Nos. 1 to 3, are all right for bait-fishing. The best bait is a small sardine, anchovy or mullet, though the casting spoon, with a single hook, or a pearl squid of small size may be used if kept in constant motion on the surface.

**Fly-Fishing**

For fly-fishing a single fly is sufficient, of any bright pattern, with some gilt or silver tinsel on the body, as the silver doctor, tied on No. 3 hooks. A long-handled landing-net is indispensable.



U. S. Bureau of Fisheries.

Spanish Mackerel. (*Scomberomorus maculatus*.)

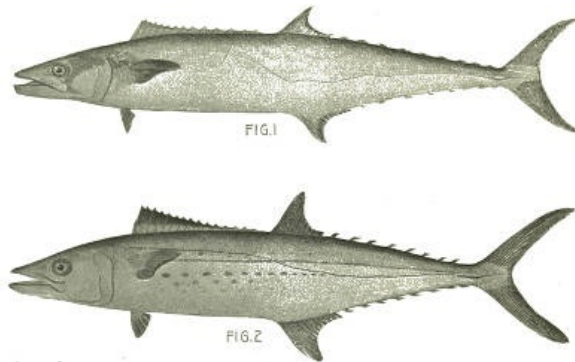
**The Kingfish**  
(*Scomberomorus cavalla*)

The kingfish—not the fish known by that name in Northern waters, but a second cousin to the Spanish mackerel—is found along the reefs from Cape Florida to Boca Chica. It is one of the principal food fishes of Key West, and is taken by the fishermen trolling with a strip of bacon rind, which is something in the nature of an indignity, for it is a grand game-fish on the rod, and will take fly or bait on long casts. It grows much larger than the Spanish mackerel, often to twenty pounds or more, and is of a more somber hue. Its cousin, the cero, is very similar in size and appearance, but has dark spots along its graceful

sides. All of this genus are among the best for the table, as all real game-fishes are.

**The Redfish**  
(*Sciaenops ocellatus*)

The best member of the drum family is the redfish, or channel bass. It is one of the common game-fishes of the brackish water bays on either coast. It is a handsome fish with a coat of old red gold and a vest of silver and pearl. It is characterized by a large black spot near the tail; sometimes there will be two spots, and occasionally these are split up into a half dozen. While the redfish is very susceptible to bait it often rises to the fly, if a large and gaudy one. In either event it offers a stubborn resistance when hooked, and when of large size—from twenty to forty pounds—a good strong rod is a *sine qua non*, though I once killed one on a Henshall rod of eight ounces, which was fully thirty-five pounds in weight. Most of the fish-scale jewelry and artificial flowers are made from the scales of redfish.



U. S. Bureau of Fisheries.

Fig. 1. Kingfish. (*Scomberomorus cavalla*.)

Fig. 2. Cero. (*Scomberomorus regalis*.)

**Groupers and Snappers**

All of the groupers, the red and black, the scamp and gag, are game-fishes worthy of the steel of the angler, and grow to goodly size, twenty to forty pounds. They inhabit comparatively deep water about the inlets, or along the outer shores and keys, especially in rocky situations. Being bottom feeders they must be taken with natural bait, though the trolling-spoon has its attractions. Those named are rather sober in their garb, which is more or less marbled or spotted with black, but some of the groupers about Key West are remarkably handsome fishes, and are much given to very gay and bizarre attire; their coats, like Joseph's, being of many colors. They also bear more aristocratic names, as witness: John Paw, Nassau, Hamlet, Cabrilla, etc. But the dude of the family is the niggerfish, which is a rag-time dandy, always in full dress for a cake walk.

**Rag-Time Dude**

The snappers are worthy members of the finny race. The red snapper is the most widely known, commercially, being shipped from Pensacola and Tampa to all Northern cities. It is a large, handsome fish, dressed, like Mephistopheles, from snout to tail in scarlet. As it is taken only in deep water, on the snapper banks, by hand lines, it is of no importance to the angler. But the gray, or mangrove snapper, is a wary, active fish and good game. It lurks under the mangroves and must be fished for cautiously, when it will rise eagerly to the fly, and on light tackle is no mean adversary. Its usual weight is from one to three pounds.

**The Gay Snappers**

The lane snapper, dog snapper, yellowtail and schoolmaster, are fine pan fishes, clothed in royal raiment, and frequent the channels amid the coral reefs near Key West, where they are readily taken with sea crawfish bait. The muttonfish is larger and an esteemed table fish, and with the other snappers is like the lilies, of which we are told, "Solomon in all his glory was not arrayed like one of these." It is a genuine pleasure to the observant angler to capture one of these fish, if only to gaze upon its beauties, and watch the play of prismatic colors as reflected in its gorgeous attire. Fishing with light tackle for these lovely denizens of the coral banks, with one's boat rising and falling on the rhythmic swell of the pure emerald green sea, is both a joy and a delight.

**The Ladyfish**  
(*Albula vulpes*)

The highflyers, or finny acrobats, are the tarpon, kingfish, ladyfish and ten-pounder. The first-named is so well known that further mention here is unnecessary, and moreover I have accorded it a special article, for it trots alone in its class; but while the ladyfish and ten-pounder are only a couple of feet in length, they are still worthy to be named in connection with his silver majesty. They are built for aërial as well as for submarine navigation, and dart so quickly from one element to the other that it is somewhat bewildering to watch one at the end of a line. Twenty-five years ago I compared the ladyfish to a "silver shuttle," for such it appeared in its efforts to escape when hooked.

**The Ten-Pounder** (*Elops saurus*)

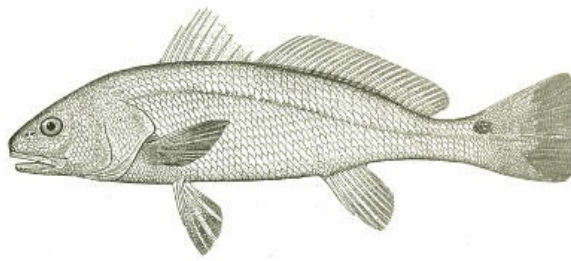
The angler visiting the region of Biscayne Bay will find considerable confusion existing, not only among Northern tourists, but among the residents, concerning the proper identification of the ladyfish and ten-pounder. They are two silvery, spindle-shaped fishes that resemble each other very closely in size, general outline and appearance, and are known as the ladyfish or bonefish, and the ten-pounder or bony-fish; the latter is also sometimes called Jack Marrigle in Bermuda, and both fishes are not infrequently alluded to as "skip-jack." They are game-fishes of a high order and of equal degree.

The confusion alluded to has been aired in our angling papers for several years, sometimes with photo-illustrations of the fishes concerned, which, however, only served to make confusion worse confounded. For instance, I remember one communication with an illustration of the ladyfish, but which was stated in the text to be the bonefish and *not* the ladyfish.

**Confusion of Names**

This confusion of names arose originally from the fact that the names bone-fish and bony-fish were applied indiscriminately by native fishermen to both ladyfish and ten-pounder; indeed, the names ladyfish, ten-pounder, and their synonyms bonefish and bony-fish date back to our earliest history. In Natal it is called "springer."





U. S. Bureau of Fisheries.

Redfish; Channel Bass. (*Sciaenops ocellatus*.)

**Of Ancient Age and Lineage**

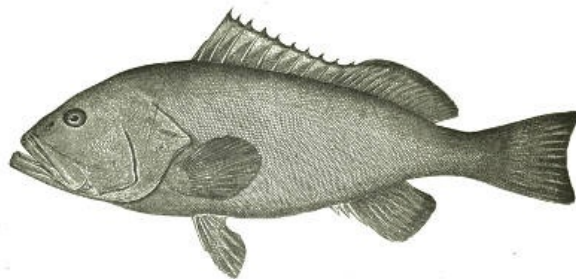
Their scientific names were both bestowed by Linnæus more than two hundred years ago. Catesby, in 1737, called the ladyfish of the Bahamas "bonefish," while Captain William Dampier, one of the early explorers, called the bony-fish of the Bahamas "ten-pounder." While the two fishes are both allied to the herring tribe, they belong to different families, though the young of both species undergo a metamorphosis, or pass through a larval stage, in which they appear as ribbon-shaped, transparent bodies, totally unlike their parents.

**Nomenclature**

As just stated, they belong to entirely different families. The ladyfish (*Albula vulpes*), or bonefish, as it may be called, is the only fish in its family (*Albulidæ*), while the ten-pounder (*Elops saurus*), or bony-fish, belongs to the tarpon family (*Elopidæ*), and like the tarpon has a bony plate between the branches of the lower jaw (hence bony-fish), which bone does not exist in the ladyfish. The proper identification of the two fishes is really easier than to distinguish between the two species of black bass, or to differentiate a pike from a pickerel.

**Differentiation**

The most pronounced difference is in the conformation of the mouth. The ladyfish has an overhanging, pig-like snout, the mouth being somewhat underneath, while the ten-pounder has a terminal mouth, that is, with the upper and lower lips meeting in front, the same as in most fishes. The scales of the ladyfish are nearly twice as large as those of the ten-pounder, otherwise, as to the general contour, silvery appearance, and shape and disposition of fins the two species are much alike to the ordinary observer. So, if they are called ladyfish and ten-pounder, their proper names, and not bonefish or bony-fish, the confusion at once disappears.



U.S. Bureau of Fisheries.

Red Grouper. (*Epinephelus morio*.)

**Tools and Tackle**

Black bass tackle, the rod not less than eight ounces, is sufficient for either ladyfish or ten-pounder. Sproat hooks, Nos. 1 to 3, on long gut snells if no leader is used, are large enough, for both fishes have rather small mouths. Usually no sinker, beyond a small box-swivel, is required when fishing on the flood tide at inlets, unless the tidal current is very strong, when it may become necessary to use one of suitable weight. The best fishing is at the mouths of inlets during the flood tide, when the fish are feeding on beach fleas, pompano shells, shrimps and other crustaceans which roll in on every wave, and are the best baits to use. A small fish, an inch or two long, also makes a good bait. The smallest casting- spoon, with a single hook, or a small shell squid, may often be employed with advantage, as well as a small, bright artificial fly.

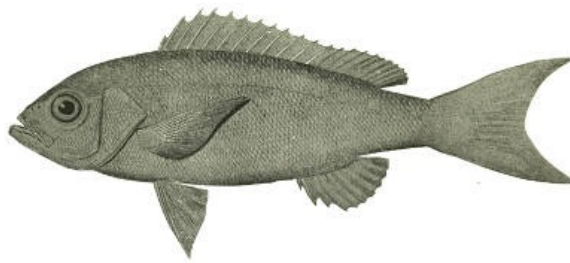
The fishing may be practiced from a boat anchored just within the inlet, or from the sand-spits at its mouth. At other stages of the tide, especially at high water slack, good fishing may be had in the shallow water of grassy flats and sandy shoals, by making long casts, for in such situations these fishes are quite shy.

**The Snook (*Centropomus undecimalis*)**

The snook is a good game-fish, strong and active, rises to the fly in shallow water, and will take any kind of fish or crab bait, or the trolling-spoon. It is shaped somewhat like the pike-perch, with the flattened head and jaws of the pike minus its sharp teeth. It is attired in a silvery mantle with a broad, black stripe running along the side from head to tail. It is a fair food-fish if skinned instead of scaled. It is known as snook on the east coast, and as rovallia on the west coast, a corruption of its Cuban name, robalo. It grows to two or three feet and twenty to thirty pounds. Heavy black bass, or light striped bass, tackle is necessary to withstand its fierce rushes when hooked.

**The Jewfish (*Garrupa nigrita*)**

And last, but not least, comes the jewfish, the Gargantua of the water, though clothed in a vesture of modest blackish gray. It is somewhat like a colossal black bass in contour and appearance, and in fact a closely allied species, the jewfish of the Pacific, is called black bass on the coast of southern California. The David who slays this Goliath of the deep should be proud of his achievement, if it is killed on the rod. From twenty to one hundred pounds is about the usual limit of rod-fishing for the jewfish, though a few have been killed on the rod upward of two hundred or three hundred pounds at Catalina Island on the California coast.



U. S. Bureau of Fisheries.

Mangrove Snapper. (*Lutianus griseus*.)

**A Good Food-Fish**

At any deep inlet of the west coast of Florida, or about Key West, they may be found, but never in great numbers. Unlike the tarpon, the jewfish is an excellent fish for the table, and is greatly esteemed at Key West, where it is cut in steaks and fried in batter, when it is very toothsome. I helped capture one on a shark line at Jupiter Light on the east coast in 1878 that weighed three hundred and forty pounds on the light-house steelyard, and United States Senator Quay was a witness to the weighing. I was also *particeps criminis* in taking on a shark line another that weighed three hundred pounds, at Little Gasparilla inlet, on the Gulf coast, in the same year. And farther up the coast, at Gordon's Pass, near Naples, I killed a number on the rod that weighed from twenty to sixty pounds. A decade ago the south shore of this inlet, under the palmetto trees which grew on the steep bank, was a noted place for jewfish, and much frequented by Col. Haldeman and other Kentucky gentlemen who had winter residences at Naples.

**Some Big Ones**

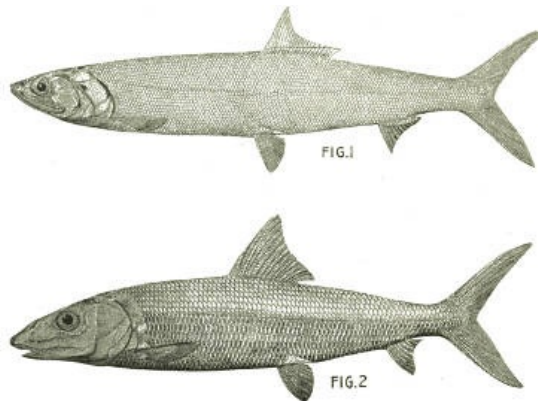
Another jewfish, a tropical species (*Promicrops itaiara*), growing even larger than the one named, is also found in Florida waters.

**Catching Suckers**

I do not mean the universal and ubiquitous sucker so well known from Maine to California, but the so-called shark-sucker, suckfish or remora. Perhaps every genuine American boy has exercised his proud privilege of catching suckers in the glad springtime, and some have doubtless continued the sport in later life in Wall Street and other similar fishing localities. But very few have ever caught the shark-sucker or remora. To be exact I never knew of any one but myself who ever took one with hook and line.

**How It Happened**

It happened in this way. My boat was anchored in Sarasota Bay, Florida, when one day I was examining the pintles and rudder hinges before sailing, when I noticed several remoras attached to the stern of the vessel. With a hook and hand-line and venison for bait I caught them all, four of them, in less than four minutes, for they were exceedingly voracious. When the bait was dangled near one he immediately left his anchorage and seized it.



U. S. Bureau of Fisheries.

Fig. 1. Ten Pounder. (*Elops saurus*.)

Fig. 2. Ladyfish. (*Albula vulpes*.)

**The Remora (Remora remora)**

The remora is one of the most interesting fishes known to science. Its first dorsal fin is developed as a sucking disk of an oval shape on the top of the head and nape. It is formed of a series of thin plates, or laminæ, overlapping like the slats of a Venetian blind, and by which it can firmly attach itself to a comparatively smooth surface. I have seldom caught a shark or a ray that did not have one or more attached to its skin. When a shark seizes his prey, and is cutting it up with his terrible teeth, the remora is quick to discover any fragments of the feast and profits by it, when it again returns to its anchorage. It does no harm to the shark, for it is not truly parasitic, like the lamprey, but uses its host as a means for transportation and profit, like the politician in the band wagon.

**A Convenient Device**

The remora is easily removed from its attachment by a quick, sliding motion, but resists a direct pull to a remarkable degree. Owing to this fact the natives of tropical countries are said to utilize it for catching fish, by fastening a ring and line to its caudal peduncle and casting it into the water to become attached to other fish, when both are hauled in. I had often read of this, and once I tried it, but caught only a loggerhead turtle of twenty pounds. The strain on the remora, however, was so demoralizing to its physical economy that I was fain to kill it.

**Phosphate Fishing**

And while on the subject of queer fishing I recall another instance. Commander Robert Platt, formerly of the U. S. Fish Commission steamer *Fish Hawk*, and I were once seining in Peace Creek, above Punta Gorda, Florida. The crew hauling the long seine were much bothered and hindered by quantities of ragged rock getting entangled in the seine. This afterward proved to be phosphate rock of a valuable grade, which was mined from the creek, the land on each shore having been purchased for a song by some enterprising party. When in Washington a year or two later I met Captain Platt, who, holding up his hands, exclaimed:

"Do you know what that ragged rock in Peace Creek was?"

"Yes, phosphate rock of a high quality."

**A Missed Opportunity**

"Well, do you know what precious chumps we were not to have purchased the land on each side of the creek?"

"Yes, Captain 'Bob'; and I met a gentleman on the train yesterday who was the party who bought it. He was on his way to Washington to have Boca Grande made a port of entry for shipping the stuff to Europe. He also informed me that he had sold a third of his interest for sixty thousand dollars!"

"Well, I'm d—lighted to hear it. Just our luck!"

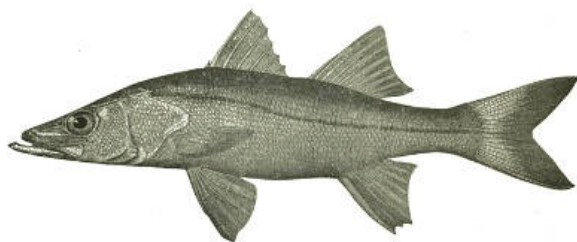
"Yes, Captain Bob," I returned, "it was another missed opportunity. But we were not looking for phosphate rock or goldfish; we were simply looking for ripe mullet. It all depends on the viewpoint."

**Spearing the Jumbos**

I was once cruising in Barnes Sound and had for a pilot Captain Bill Pent, of Key West, who was fully acquainted with the numerous shoals and mud flats of those shallow waters. Our experiences, as might be imagined, were both novel and varied. After seining the coves and shores for specimens of the smaller fishes, we would give our attention to those of larger growth, including such jumbos as barracuda, tarpon, jewfish, sharks and sawfish.

**Florida "Grains"**

Some of these were taken with rod and line, but other means were resorted to for the largest ones. Pent was an expert in the use of the "grains," a two-pronged spear much employed in Florida. It has a long and strong line attached to the spear, with a handle for throwing which becomes detached when a fish is struck. Standing in the bow of the dory, which I would paddle cautiously up to the fringe of bushes along the shore, Pent would hurl the grains twenty, thirty or even forty feet, and seldom failed to plant the barbs firmly in the back of a huge fish as it lay sunning itself under the mangroves—then there was something doing for ten or fifteen minutes.



U. S. Bureau of Fisheries.

Snook; Rovallia. (*Centropomus undecimalis*.)

**Some Big Fish**

The largest barracuda we captured measured six and one-half feet, the largest tarpon seven and one-quarter, an immense sawfish nineteen, and a man-eating shark fifteen feet. But the liveliest tussle we had was with a devil-fish of moderate dimensions, eight feet across the pectoral fins. I have seen them of twenty. Following the lead of Victor Hugo, the octopus is often called "devil-fish," but the name rightly belongs to this fish, the largest of the rays (*Manta birostris*).

**Strenuous Fishing**

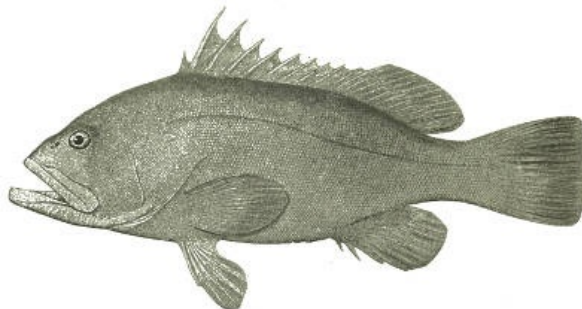
The floundering and struggling of one of these aquatic giants, in shallow water, was something to be remembered, while the erratic pitching and lunging of the dory as it followed the lead of the finny motor was, to say the least, exciting. These large fishes were towed ashore, killed outright and dissected, in order to ascertain something in relation to their diet and time of spawning.

**Porpoise Calves**

One day we saw a porpoise in very shallow water playing with her two calves, which were about three feet long. The water scarcely covered them. Being somewhat curious as to the result, I took the rifle and sent a bullet ricocheting across the water just behind her. In great alarm she gathered a calf under each flipper, and the way she made the water fly with her fluked tail propeller in her eagerness to reach deeper water was amusing, but not the less remarkable. I could observe her plainly for a hundred yards, and when she at last disappeared in deep water she was still hugging her calves.

**A Pretty Baby**

Once at Mullet Key, in Tampa Bay, a man at the quarantine station shot a porpoise that was floundering in the water. I saw that it was about dead, and procuring a boat I towed it ashore. It was a female and seemed to be gravid. I performed the cæsarian operation and found a single baby porpoise nearly two feet long. It was a beautiful animal, the upper half being slate color and the lower half a fine rosy pink. It was sent with other specimens to Washington and a cast made of it.



U.S. Bureau of Fisheries.

Jewfish. (*Garrupa nigrita*.)

**A Manatee or Sea Cow (Trichechus latirostris)**

Another day while sailing in Barnes Sound we ran across three manatees feeding on a plant resembling eel grass. As we kept very quiet we were almost upon them before they discovered the boat—then they stood not on the order of going, but went at once, and went in a hurry. The wake they left in the shallow water was equal to that of a large steam tug. For such ungainly looking creatures—the body nearly as large as that of a horse—they were remarkably active in escaping, but made a fearful fuss in doing so. I had several times seen manatees in the St. Lucie River, a tributary of Indian River, but

nowhere else, and was much surprised to find them in Barnes Sound.

**Angling Along the Florida Keys**

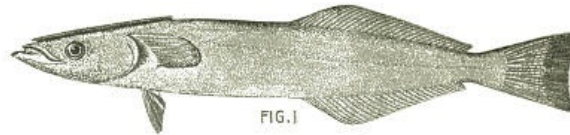
About Biscayne Bay the angler will find fishing for large-mouth black bass, bream, etc., on Miami River, and at Arch Creek above, and Snapper Creek below. For salt-water fishing he will have all he can attend to at almost any of the inlets and passes between the keys from Cape Florida to Bahia Honda. Among the best are Bear Cut, Cæsar's Creek, Angelfish Creek, and the channels between Rodriguez, Tavenier, Long, Indian, Mattecumbe, Vaccas and other keys. He will find the various channel fishes, and groupers, snappers, cavalli, kingfish, cero, etc., in addition to ladyfish, ten-pounders and a host of others. If he visits Cocoanut Grove, my old friend, Charles Peacock, will put him on to the best fishing grounds.

**Angling on the East Coast**

The best salt-water fishing on the east coast is at the various inlets, though good fishing is found also in the lagoons and in the fresh water streams emptying into them. My own experience begins with Mayport at the mouth of St. John's River. Here and at most of the inlets to the south can be found redfish, spotted weakfish or sea-trout, sheepshead, drum, snooks, together with such smaller species as pinfish, pigfish, croakers, flounders, etc.

**In the Lagoons**

At St. Augustine there is fair fishing at the inlet and in Matanzas River. Near Ormond and Daytona on Halifax River, and below at Mosquito Inlet, the angler will be well rewarded. Fair fishing may also be found on Hillsboro River near New Smyrna and Oak Hill. Some sport is still to be had in the neighborhood of Titusville, on Banana River and Banana Creek.



U. S. Bureau of Fisheries.

Fig. 1. Shark Sucker. (*Remora remora*.)

Fig. 2. Enlarged view of sucking disk.

Back of Rockledge are lakes Poinsett and Wilder, abounding in black bass. Several places on Indian River furnish excellent fishing, as Sebastian River, Indian River Inlet, Gilbert's Bar, and the waters around Jupiter Light. Farther south, on Lake Worth, Hillsboro' and New River inlets, the fishing is still better, and the fishes larger.

**Angling on the West Coast**

St. Andrew's Bay and neighborhood at the northern end of the peninsula will not disappoint the angler. Farther south, in the vicinity of Cedar Key, and at the several rivers below—Withlacoochee, Crystal, Homosassa, Anclote, etc., and at the passes on Clearwater Harbor, the smaller species abound, with occasional big ones. Tampa Bay, Sarasota Bay, Lemon Bay, Charlotte Harbor, Marco and other bays, with their numerous inlets and passes and tributaries are not excelled in the world for the variety and excellence of their game-fishes, large and small.

**Tools and Tackle**

Tarpon and jewfish require special rods and reels. The largest groupers, barracudas, amber jacks, bonitos, etc., require striped bass rods, reels and lines, while most of the other fishes mentioned may be easily handled with a good ash and lancewood black bass rod of seven or eight ounces, multiplying reel and corresponding tackle. Sproat hooks of various and suitable sizes cannot be excelled for any kind of Florida fishing, if of the best quality. Almost any kind of bait, natural or artificial comes in play—mullet, pilchard or anchovy for surface-feeding fishes; crabs, fiddlers, beach fleas and cut bait for bottom feeders. Trolling or casting-spoons or spinners can often be substituted for other baits.

**With the U. S. Fish Commission**

During the winter of 1889-90 I had charge of a scientific expedition to the Gulf of Mexico with the schooner *Grampus*, of the U. S. Fish Commission. I did the shore work of collecting fishes and fish food along the west coast of Florida, from Biscayne Bay around Cape Sable and northward to Tampa Bay, and secured nearly three hundred species of fishes and many crustaceans. For this work I had a mackerel seine boat, thirty-four feet long, rigged with foresail and mainsail. At night I fastened a sprit as a ridge pole between the two masts, and with an awning from the *Grampus* I housed the boat in completely.

**Sport with Jewfish**

One sunny morning I sailed from John's Pass and entered Gordon's Pass, a few miles south of Naples, about noon. While the men were preparing dinner and getting the seines and collecting outfit in readiness, I had some fine sport with jewfish, running from fifteen to forty pounds, on a ten-ounce rod. A few hundred yards from the mouth of the pass, on the south shore, where the bank is very steep and crowned with palmettos, the water is quite deep, and was a favorite resort for jewfish, as heretofore mentioned.

**A Good Haul**

After dinner we proceeded to haul the long seine, and just as it was landed, filled with all manner of fishes, four negroes came driving up the beach in a mule cart, two men and two women, to where the seine was being hauled ashore. They leaped out of the cart at once, consumed with curiosity as to the contents of the seine. The oldest woman was an immense specimen, weighing about two hundred and fifty pounds, and with a beam as broad as the cart. The other woman was a comely mulatto girl, her daughter. I had just gaffed a small horned ray, a devil-fish, about four feet across its wing-like pectoral fins.

The fat and dusky gargantuan female came waddling down the beach as fast as her short legs could carry her. On seeing the rather formidable and frightful looking ray, she recoiled in horror and exclaimed:

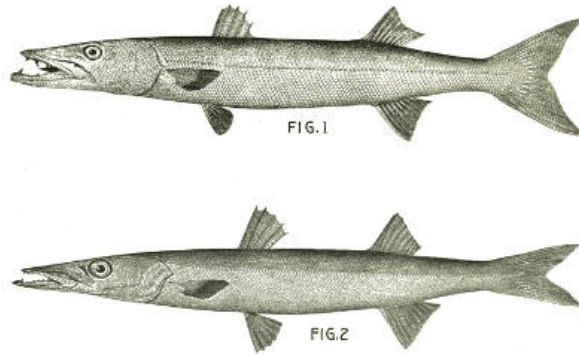
**The Darkeys and the Devil-fish**

"Good Lawd! Wat is dat ting, mistah?"

"That's a devil-fish, Auntie," I replied.

"Fo' de lan's sake! It sho' luks lak de debble! Luk, Rastus; luk at his ho'ns and tail!"

Then turning to her daughter, she said: "Go 'way, honey; don't come anigh dat ugly varmint; he sho' swallow yo' or prod yo' wid his ho'ns."



U. S. Bureau of Fisheries.

Fig. 1. Florida Barracuda. (*Sphyræna barracuda*.)

Fig. 2. Northern Barracuda. (*Sphyræna borealis*.)

I assured her and the other terror-stricken darkies that no harm would befall them provided they did not approach too near. Turning to the fat woman, I asked: "When did you leave Kentucky, Auntie?"<sup>73</sup>

"Good Lawd, mistah! How'd yo' know I fum Kaintucky? You must be cunjah man."

**Old Kentucky** "Why, Auntie, as soon as you opened your mouth I knew you were from Kentucky; I'm from Kentucky myself," I answered.

"'Deed, honey, I'm pow'ful glad to see yo'," she said. "Why, dar's lots o' people fum Kaintucky up to Naples. Kurnel Haldeman and Gen'l Sarah Gordon Williams is bofe dar; and Miss Rose, Pres'dent Grove Cleveland's sistah, she dar, too, at de hotel." Then she added, "I'm de cook for Miss Lizzie M'Laughlin; she keeps de hotel."

**A Good Catch** It seemed that the cook and her party had come down to the pass to fish, but as I gave them more fish than they really needed, they concluded to return at once to Naples, especially as the jolly cook declared that, "Dat debblefish dun spile my appetite fo' fishin'."

I handed my card to her, with the request that she take it to Colonel Haldeman, or General "Cerro Gordo" Williams. They departed in great glee, but with furtive glances at the devil-fish on the beach. As they started off, the corpulent cook shouted:

**A True Angler** "Good-by, mistah; hopes to see you soon. Say, mistah, we all's gwine to 'tend lak we cotch all dese fish wid we all's fish lines."

"All right, Auntie, I will not give you away," I replied.

She evidently had one of the qualifications of the true angler.

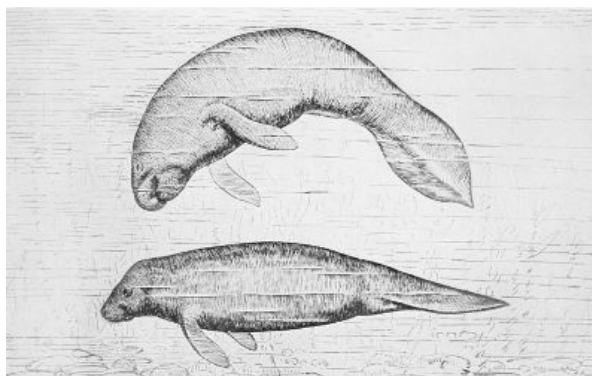
**The Founder of Naples** Late in the afternoon I saw a lady and a gentleman coming down the beach in a handsome carriage, drawn by a pair of trim-looking mules. I soon recognized Col. W. N. Haldeman, of the Louisville *Courier-Journal*, and his good wife. Col. Haldeman was the founder of Naples, where he had a charming winter home. (His sad death through a trolley-car accident will long be regretted and mourned by his many friends.)

**A Kentucky Welcome** The Colonel and his lady insisted on my dining with them that evening. I pleaded that I had nothing to wear but outing clothes, and was not presentable. They would not be refused, however, the Colonel saying that it was their first drive in the carriage, which had been on its way six weeks from Louisville, and that Mrs. Haldeman had honored me by coming herself to invite me. Of course, I had to accept their kind invitation, as I could proffer no more excuses, and especially as the Colonel promised me a real Kentucky dinner; that settled it. We had a delightful drive up the beach on the hard sand at low tide, and the dinner was to the queen's taste: Oyster soup, baked redfish, venison steak, and the Kentucky feature, a roast 'possum with a lemon in its mouth.

**Moonlight Ride by the Sea** After a most enjoyable evening with a happy company, myself and one of my darkey acquaintances of the morning mounted two saddle mules for a moonlight midnight ride down the beach to the pass. It was a high, spring tide, compelling us to occasionally abandon the beach where covered with water, and take to the scrub, much to the evident fear of the negro, who, I soon discovered, was very timid and superstitious. He started at every sound in the still night—the puffing of a porpoise in the water or a 'coon or 'possum scurrying through the thick scrub or the weird cry of a night bird caused him to blench with evident fear and trembling. At the leap of a large fish, a tarpon or jewfish, that struck the water with a resounding splash, he whispered:

"Doctah, was dat a debblefish?"

"It might have been," I replied.



Manatee. (*Trichechus latirostris.*)

Voices of the Night

Just then a bull alligator in the bayou back of the beach emitted a terrible roar, followed by the discordant cries of all sorts of waterfowl; and, as it happened, some large animal, a horse or cow, or perhaps a deer, fled at our approach and crashed through the scrub. Altogether the various sounds were somewhat appalling, and calculated to alarm and distress a more courageous person. At last we reached the pass, and my boat, with its white canvas roof glaring in the light of the full moon, broke on the gaze of the astonished darkey through the trees, and as it moved this way and that, responsive to a slight breeze, it seemed an uncanny thing to the thoroughly frightened man as he moaned:

Spooks and Devils

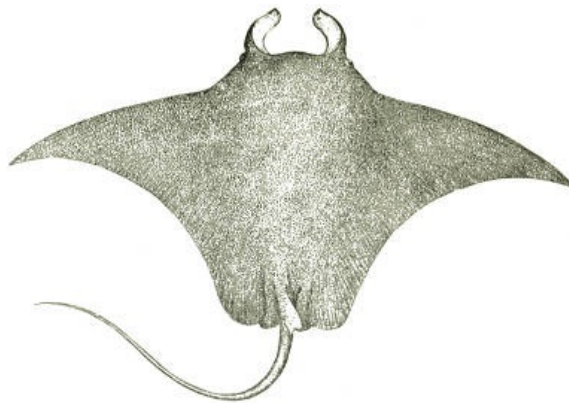
"O Lawd; O Lawd; dar's a spook! De debble will sho' cotch me. I wish I was back in ole Kaintuck. Oh, doctah, I sho' am 'fraid to go back to-night. I sho' saw de debble's eye shinin' in de bresh, and heard de splash of his tail in de watah, all de way down. Please, sah, let me stay in de camp till de mawnin'."

I saw that he was really terrified, and that it would never do to let him attempt to return to Naples alone that night. Accordingly we hobbled the mules, and I made him a bed in the boat, where he soon was snoring and making as loud and uncouth noises as any "debbles" was capable of. In the morning I gave him a good breakfast and started him home with the mules, the happiest coon in Florida.

Florida Up to Date

I have not been in Florida since the winter of 1896-7, but even then it had greatly changed from the old Florida I knew as far back as 1878. At the present day my old cruising and camping grounds near Rockledge, Lake Worth and Miami are famous winter resorts, with large and commodious hotels whose luxurious appointments and service are unsurpassed in the world.

Both the Atlantic and Gulf coasts, as well as the interior of the State, are now well-populated by Northern people, mostly engaged in raising sub-tropical fruits and early vegetables. Marshy lands, once the resort of innumerable water-fowl, have been drained and cultivated. The pine forests and flat woods where once the cowboy reigned supreme, and where the deer and wild turkey roamed at will, have been decimated or destroyed by sawmills and turpentine stills. The rookeries of the cypress swamps and wooded keys have been laid waste by the plume hunter, so that the flamingo, pink curlew and egret are now but empty sounding names.



U. S. Bureau of Fisheries.

Devil Fish. (*Manta birostris.*)

But while the greed and improvidence of commercial fishermen have greatly reduced the numbers of not only mullet, but redfish, sheepshead, sea-trout and other bay fishes, there still remains the best and most varied fishing in the world for the angler who cares more for real sport than a big creel.

Fishing Galore

In the brackish bays the channel bass, cavalla, snook, sea-trout, croaker, sailor's choice, etc., will furnish all the sport, either with bait or fly, that the reasonable angler can desire. So, also, at the inlets and passes he may enjoy the matchless sport afforded by the ladyfish and ten-pounder. Along the reefs and keys at the end of the peninsula he may troll or cast his lure for the kingfish, Spanish mackerel, amber jack and bonito. Along the rocky shores the groupers and large snappers will freely respond to his baited hook, while in the channels about the keys those beautiful pan-fish, the grunts, porgies, snappers and other fishes of the coral banks, may be taken *ad libitum*.

# INDEX

## A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

- Absurd names for brown trout, 111.  
Abundance of trout, 81.  
Ambition, youthful, 7.  
Angler's recital, 8.  
Angler's view-point of flies, 76.  
Angling along east coast of Florida, 168.  
    along Florida Keys, 167.  
    along west coast of Florida, 169.  
    charm of, 12.  
    enthusiasm for, 5.  
    in the lagoons of Florida, 168.  
    love of, 6.  
    parlous times in, 3.  
Arctic grayling, 45.  
Artificial baits, 25.  
    flies, dark or light, 78.  
    flies, for black bass, 24.  
    flies, for grayling, 44, 56, 57.  
    flies, for trout, 72.  
    flies, in their season, 77.  
    flies, management of, 24, 54, 83.  
    flies, philosophy of, 74.  
At the yule-tide, 141.
- Baby porpoise, 166.  
Back-log reveries, 66.  
Bait fishing, for black bass, 25.  
    for brook trout, 90.  
    for Florida fishes, 144, 148, 150, 156.  
    for grayling, 57.  
    for tarpon, 122.  
Baits, artificial, 25.  
Barracuda, the, 164.  
Batiscan Falls, 99.  
    river, 95.  
Black bass, the, 3.  
    appearance and habits, 10.  
    bait fishing, 25.  
    breeding habits, 18.  
    fishing, 5.  
    fly-fishing, 24.  
    in new waters, 6.  
    in olden time, 9.  
    leap of, 13.  
    pond culture, 23.  
    propagation of, 22.  
    season for fishing, 10.  
    size and weight, 19.  
    skittering for, 37.  
    still-fishing, 38.  
    tools and tackle, 26, 27, 30, 31.  
Blue norther, 136.  
Bozeman fisheries station, 51.  
Breeding grounds of tarpon, 129.  
Brown trout, 110.  
    absurd names for, 111.  
    as a game fish, 111.  
    fly-fishing for, 112.  
    in Yellowstone Park, 112.
- Casting baits, 28.  
    overhead, 29.  
    the minnow, 26.  
Catching suckers, 159.  
Cavalla, the, 145.  
    fly-fishing for, 145.  
    tools and tackle for, 145.  
Channel bass, the, 149.  
Charms of angling, 12.  
Chief function of reels, 32.



of rods, 71.  
Climate of Florida, 142.  
Condition vs. theory about flies, 79.  
Cut-throat trout, 102.

Dame Juliana Berners, 43.  
Darkey and devil-fish, 170.  
Devil-fish, the, 164.  
Distribution of black bass, 20.  
    of grayling, 49.  
Dolly Varden trout, 109.  
Dry-fly fishing, 86, 87.

Eggs of black bass, 22.  
    of grayling, 52.  
Ethics of sport, 4.  
Eye of grayling, 48.

Fair specimen, a, 138

Fishing reels, 31.  
    rods, 26.

Fish story, 91.

Fishes, leap of, 13.  
    way with a bait, 17.

Fishing galore, 179.

Fishing on the verge, 100.

Florida climate, 142.  
    fish and fishing, 141.  
    grains, 164.  
    up to date, 178.

Flower of fishes, 43.

Fly-fishing for black bass, 24.  
    for cavalla, 146.  
    for grayling, 54.  
    for sea-trout, 148.  
    for tarpon, 123.  
    trout, 82, 86.

Founder of Naples, 174.

Frightened darkeys, 172.

Gameness of grayling, 45.

Gay snappers, 151.

Gilead, balm in, 68.

Golden trout of Kern River, 114.  
    of Sunapee Lake, 116.  
    of Volcano Creek, 114.  
    of Sierras, 113.

Good haul, a, 171.

Grayling, the, 43.

    Arctic, 45.  
    as a game-fish, 52.  
    distribution, 51.  
    fishing, 53.  
    food and haunts, 49.  
    Michigan, 46.  
    Montana, 46.  
    Propagation, 52.  
    tools and tackle, 56.

Groupers and snappers, 150.

Habits of black bass, 18.

    of grayling, 49.  
    of tarpon, 129.

His Majesty, the silver king, 121.

In olden time, 9.

In old Quebec, 96.

Jack Marrigle, 153.

Jewfish, the, 158.  
    some big ones, 159.  
    sport with, 171.

Kentucky welcome, 175.

Kingfish, the, 149.

Lacs du Rognon, 97.

Ladyfish, the, 152.  
    confusion of name, 154.

differentiation, [155](#).  
fishing for, [157](#).  
tools and tackle for, [156](#).  
Leaping of fishes, [13](#).  
Leviathan fishing, [3](#).  
Love of angling, [6](#).  
Lowering the tip, [84](#).  
    origin of the rule for, [85](#).  
  
Manatee, the, [166](#).  
Mangrove snapper, [151](#).  
Michigan grayling, [46](#).  
Millions saved, [23](#).  
Minnow, casting the, [26](#).  
Missed opportunity, [163](#).  
Monasteries and grayling, [60](#).  
Montana grayling, [46](#).  
Moonlight ride by sea, [175](#).  
Mother Nature's sanitarium, [68](#).  
  
Non-rising of trout, [79](#).  
  
Old Kaintuck, [173](#).  
Origin of short casting rod, [27](#).  
Overhead casting, [29](#).  
  
Parlous times in angling, [3](#).  
Passing of brook trout, [65](#).  
    Michigan grayling, [47](#), [61](#).  
Peculiar eye of grayling, [48](#).  
Phosphate fishing, [162](#).  
Philosophy of artificial flies, [74](#).  
Pipe dreams, [67](#).  
Pleasant transition, a, [141](#).  
Porpoise baby, [166](#).  
    calves, [165](#).  
Position of reel on rod, [33](#).  
Practical hints for trout fishing, [82](#).  
Pride after a fall, [67](#).  
Propagation of black bass, [22](#).  
    grayling, [51](#).  
Pumping tarpon, [127](#).  
  
Rag-time dude, [151](#).  
Rainbow trout, [107](#).  
    in new waters, [108](#).  
Recital, the angler's, [8](#).  
Redfish, the, [149](#).  
Red snapper, the, [151](#).  
Red-throat trout, [102](#).  
Reels, chief function of, [32](#).  
Reel fishing, [31](#).  
    for tarpon, [127](#).  
    for trout, [72](#).  
    on top or underneath, [34](#).  
    position on rod, [33](#).  
    something more about, [32](#).  
Remora, the, [160](#).  
Restigouche River, [94](#).  
Riband in cap of youth, [8](#).  
Rocky Mountain species, [101](#).  
Rods, fishing, [26](#), [56](#), [70](#), [120](#), [156](#), [170](#).  
    short bait-casting, [27](#).  
Rovallia, the, [157](#).  
  
Sanitarium, Nature's, [68](#).  
Scared darkey, [135](#).  
Sea-cow, [166](#).  
Sea-trout (brook), [92](#).  
Sea-trout (Florida), [146](#).  
Sheepshead, the, [144](#).  
Silver king, the, [121](#).  
Silver shuttle, [153](#).  
Skip-jack, [153](#).  
Snappers and groupers, [150](#).  
Snook, the, [157](#).  
Something more about reels, [32](#).  
Sorry plight of captain, [136](#).

Spanish mackerel, the, 146.  
fly-fishing for, 148.  
Spanish mackerel, shore-fishing for, 147.  
Spearing the jumbos, 163.  
Spooks and devils, 177.  
Sport, ethics of, 4.  
St. Ambrose and the grayling, 43.  
Steelhead trout, 105.  
Stingaree, a, 135.  
Strenuous fishing, 165.  
Suckers, catching, 159.  
Sunapee trout, 116.  
trolling for, 117.  
Sure thing, a, 137.

Tarpon, the, 121.  
enthusiast, 128.  
fishing for, 122.  
habits of, 129.  
in Florida waters, 121.  
records, 125.  
the first on a rod, 124.  
tussle with a, 130.

Ten-pounder, the, 153.  
confusion of name, 154.  
differentiation, 155.  
fishing for, 157.

Tic douloureux, 137.

Tools and tackle for black bass, 30.  
for brook trout, 70, 91.  
for Florida fishing, 169.

Tools and tackle for grayling, 56.  
for red-throat trout, 105.  
for tarpon, 126.

Trout, the angler's pride, 65.  
fishing for, 82, 86, 89.  
non-rising of to fly, 79.  
tools and tackle, 71.  
why it takes the fly, 75.

Trout's view-point of flies, 76.  
True angler, a, 174.  
Tussle with a tarpon, 129.  
Twin evils, 29.

Vaulting ambition, 14.  
Virgin trout stream, 94.  
Voices of the night, 176.

Wet-fly fishing, 89.  
Whipparee, a, 134.  
Winninish, the, 93.

Yellowstone Lake trout, 104.  
Youthful ambition, 7.

*Set up, Electrotyped and Printed at*

THE OUTING PRESS

DEPOSIT, NEW YORK

**Transcriber's note:**

Everything (including inconsistent hyphenation and spelling) has been retained as printed, unless stated below:

p. 46: "mentioned by Lewis and Clarke" Clarke changed to Clark

p. 52 (Sidenote): "Game and" inserted hyphen after Game

p. 77 (Sidenote): "Flies in their Season" their changed to Their

p. 114: "Salmo rooseveltdti" rooseveltdti changed to roosevelti

p. 158 (Sidenote): "Garrupa nigritis" nigritis changed to nigrita;

Illustrations were moved to paragraph breaks.

\*\*\* END OF THE PROJECT GUTENBERG EBOOK FAVORITE FISH AND FISHING \*\*\*

Updated editions will replace the previous one—the old editions will be renamed.

Creating the works from print editions not protected by U.S. copyright law means that no one owns a United States copyright in these works, so the Foundation (and you!) can copy and distribute it in the United States without permission and without paying copyright royalties. Special rules, set forth in the General Terms of Use part of this license, apply to copying and distributing Project Gutenberg™ electronic works to protect the PROJECT GUTENBERG™ concept and trademark. Project Gutenberg is a registered trademark, and may not be used if you charge for an eBook, except by following the terms of the trademark license, including paying royalties for use of the Project Gutenberg trademark. If you do not charge anything for copies of this eBook, complying with the trademark license is very easy. You may use this eBook for nearly any purpose such as creation of derivative works, reports, performances and research. Project Gutenberg eBooks may be modified and printed and given away—you may do practically ANYTHING in the United States with eBooks not protected by U.S. copyright law. Redistribution is subject to the trademark license, especially commercial redistribution.

START: FULL LICENSE  
THE FULL PROJECT GUTENBERG LICENSE  
PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg™ mission of promoting the free distribution of electronic works, by using or distributing this work (or any other work associated in any way with the phrase "Project Gutenberg"), you agree to comply with all the terms of the Full Project Gutenberg™ License available with this file or online at [www.gutenberg.org/license](http://www.gutenberg.org/license).

## Section 1. General Terms of Use and Redistributing Project Gutenberg™ electronic works

1.A. By reading or using any part of this Project Gutenberg™ electronic work, you indicate that you have read, understand, agree to and accept all the terms of this license and intellectual property (trademark/copyright) agreement. If you do not agree to abide by all the terms of this agreement, you must cease using and return or destroy all copies of Project Gutenberg™ electronic works in your possession. If you paid a fee for obtaining a copy of or access to a Project Gutenberg™ electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. "Project Gutenberg" is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most Project Gutenberg™ electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg™ electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg™ electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation ("the Foundation" or PGLAF), owns a compilation copyright in the collection of Project Gutenberg™ electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is unprotected by copyright law in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg™ mission of promoting free access to electronic works by freely sharing Project Gutenberg™ works in compliance with the terms of this agreement for keeping the Project Gutenberg™ name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg™ License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg™ work. The Foundation makes no representations concerning the copyright status of any work in any country other than the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg™ License must appear prominently whenever any copy of a Project Gutenberg™ work (any work on which the phrase “Project Gutenberg” appears, or with which the phrase “Project Gutenberg” is associated) is accessed, displayed, performed, viewed, copied or distributed:

This eBook is for the use of anyone anywhere in the United States and most other parts of the world at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at [www.gutenberg.org](http://www.gutenberg.org). If you are not located in the United States, you will have to check the laws of the country where you are located before using this eBook.

1.E.2. If an individual Project Gutenberg™ electronic work is derived from texts not protected by U.S. copyright law (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase “Project Gutenberg” associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg™ trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg™ electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked to the Project Gutenberg™ License for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg™ License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg™.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg™ License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg™ work in a format other than “Plain Vanilla ASCII” or other format used in the official version posted on the official Project Gutenberg™ website ([www.gutenberg.org](http://www.gutenberg.org)), you must, at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original “Plain Vanilla ASCII” or other form. Any alternate format must include the full Project Gutenberg™ License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg™ works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg™ electronic works provided that:

- You pay a royalty fee of 20% of the gross profits you derive from the use of Project Gutenberg™ works calculated using the method you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg™ trademark, but he has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and sent to the Project Gutenberg Literary Archive Foundation at the address specified in Section 4, “Information about donations to the Project Gutenberg Literary Archive Foundation.”
- You provide a full refund of any money paid by a user who notifies you in writing (or by e-mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg™ License. You must require such a user to return or destroy all copies of the works possessed in a physical medium and discontinue all use of and all access to other copies of Project Gutenberg™ works.
- You provide, in accordance with paragraph 1.F.3, a full refund of any money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.
- You comply with all other terms of this agreement for free distribution of Project Gutenberg™ works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg™ electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from the Project Gutenberg Literary Archive Foundation, the manager of the Project Gutenberg™ trademark. Contact the Foundation as set forth in Section 3 below.

1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread works not protected by U.S. copyright law in creating the Project Gutenberg™ collection. Despite these efforts, Project Gutenberg™ electronic works, and the medium on which they may be stored, may contain “Defects,” such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the "Right of Replacement or Refund" described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg™ trademark, and any other party distributing a Project Gutenberg™ electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. YOU AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE PROVIDED IN PARAGRAPH 1.F.3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND - If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you 'AS-IS', WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages. If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY - You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg™ electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg™ electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg™ work, (b) alteration, modification, or additions or deletions to any Project Gutenberg™ work, and (c) any Defect you cause.

## **Section 2. Information about the Mission of Project Gutenberg™**

Project Gutenberg™ is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need are critical to reaching Project Gutenberg™'s goals and ensuring that the Project Gutenberg™ collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg™ and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation information page at [www.gutenberg.org](http://www.gutenberg.org).

## **Section 3. Information about the Project Gutenberg Literary Archive Foundation**

The Project Gutenberg Literary Archive Foundation is a non-profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887. Email contact links and up to date contact information can be found at the Foundation's website and official page at [www.gutenberg.org/contact](http://www.gutenberg.org/contact)

## **Section 4. Information about Donations to the Project Gutenberg Literary Archive Foundation**

Project Gutenberg™ depends upon and cannot survive without widespread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine-readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit [www.gutenberg.org/donate](http://www.gutenberg.org/donate).

While we cannot and do not solicit contributions from states where we have not met the solicitation

requirements, we know of no prohibition against accepting unsolicited donations from donors in such states who approach us with offers to donate.

International donations are gratefully accepted, but we cannot make any statements concerning tax treatment of donations received from outside the United States. U.S. laws alone swamp our small staff.

Please check the Project Gutenberg web pages for current donation methods and addresses. Donations are accepted in a number of other ways including checks, online payments and credit card donations. To donate, please visit: [www.gutenberg.org/donate](http://www.gutenberg.org/donate)

## **Section 5. General Information About Project Gutenberg™ electronic works**

Professor Michael S. Hart was the originator of the Project Gutenberg™ concept of a library of electronic works that could be freely shared with anyone. For forty years, he produced and distributed Project Gutenberg™ eBooks with only a loose network of volunteer support.

Project Gutenberg™ eBooks are often created from several printed editions, all of which are confirmed as not protected by copyright in the U.S. unless a copyright notice is included. Thus, we do not necessarily keep eBooks in compliance with any particular paper edition.

Most people start at our website which has the main PG search facility: [www.gutenberg.org](http://www.gutenberg.org).

This website includes information about Project Gutenberg™, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.