Sea and Biver Hishing.

Angling Talks. By George Dawson. Price 50 cents. Fly Rods and Fly-Tackle. By H. P. Wells. Price \$2.50. Fly-Fishing and Fly-Making for Trout. By J. H. Keene. Price \$1.50. American Angler's Book. By Thad. Norris. Price \$5.50.

THE FULL TEXTS of the game fish laws of all the States, Territories and British Provinces are given in the Book of the Game Laws.

THE U.S. FISH COMMISSION EXHIBIT

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MUCH interesting work is now being done in Washington by the several Government departments in preparing the great collective display of the U. S. Government for the World's Columbian Exposition. Captain J. W. Collins, the representative of the U. S. Fish Commission, in charge of the preparation of the exhibit of that bureau, informs us that his exhibit will be the most complete historical representation of the fisheries ever put before the world. although it will be the first of its kind displayed to the American public.

As boats and vessels were the basis from which the fisheries were developed, Captain Collins has undertaken to show these in a historical series, beginning with the fishing shallop of "ye olden time," and showing the successive steps to the type in use at the present time, which will be represented by a model of beauty and grace, as produced by Edward Burgess in his fishing vessel, the Fredonia.

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Already ten full-rigged models have been prepared, these including an authentic representation of the old-time Marblehead fishing schooner, the Pinkie, a type of vessel used during the '50s, another during the '60s, and others during the '70s, and the pioneer of the new deep-draft fishing vessels, the Fish Commission schooner transmis.

vessel used during the '50s, another during the '60s, and others during the '70s, and the pioneer of the new deepdraft fishing vessels, the Fish Commission schooner Grampus.

One of the interesting features of the display will be a series of the food and economic fishes of North America, including the Atlantic, the Gulf of Mexico, the Pacific, and the Great Lakes and interior river fishes. The work of making new moulds and casts of fishes is being done by Mr. Sherman F. Denton, who uses a certain glue compound for the casts. The secret of this compound is known only to himself, and produces a product that cannot be readily broken like plaster of Paris. This feature is of pecultar importance, since considerable difficulty has already been experienced in transporting casts made of plaster of Paris, because of their liability to break.

Already about 125 casts have been prepared, as well as papier macbé casts of larger species, such as sharks, etc. Two most interesting fishes were received at the exhibit not long ago, being additions to the fish fauna of the United States. One of them, the escolar, while known to inhabit the Mediterranean and the waters of the warmer climates, has never been found in abundance, but is highly prized as a food fish at the Canary Islands. The second is the opah (Lampris guttatus), the first specmen ever recorded as having been taken in American waters. This is a very beautiful fish, an inhabitant of the Gulf Stream. Its colors are brilliant, the fins and edges of the belly being a beautiful red, its sides a silvery white, and its back and head from a deep to a light blue, with white spots radiating in all directions from the eye. It will thus be seen that its general coloration is that of the national emblem, though Capt. Collins is disappointed that there are more than forty-two spots on the blue field. Both of these fishes were taken on the La Have Ridge by American fishing schooners, and packed ready for shipment. There will also be included in this section models of the principal

weily white, and its back and head from a deep to a light white, with white spots radiating in all directions from the eye. It will thus be seen that its general coloration is that of the national emblem, though Capt, Collins is disappointed that there are more than forty-two spots on the state of the national emblem, though Capt, Collins is disappointed that there are more than forty-two spots on the content of the conten

pumps and piping for this part of the exhibit will be constructed of hard and soft rubber, wood and glass. Two pumps will be made in duplicate, to provide against accidents, though but one will be used at a time. Every effort will be made to provide for any possible contingency in this respect. It is expected that the building will be completed a year before the opening of the exhibition, thus affording ample time for deliberately and methodically establishing satisfactory conditions, and for the transfer of the plant and animal life, so that when the exposition opens there will be one of the most wonderful displays of the kind ever presented to mortal eye.

"Among the fresh-water species of large size that will be displayed will be the Atlantic and Pacific salmon, the mascalonge, the lake trout, the sturgeon, the spoon-bill catfish, the great Mississippi catfish, the long and shortnosed gar. the alligator gar, etc. Smaller species will include all the species of trout, the whitefish and other lake fishes, the basses, carp, buffalo and other Cyprinide, catfishes, sunfishes, eels, etc.

"Of the larger salt-water fishes there will be represented sharks, dogfish, skates, rays, torpedoes, the goosefish, striped bass, drums, grunts, sheepshead, porgies, tautog, flounders, bluefish, squeteague or weakfish and many others.

"Smaller species will be represented by sculpins, sea-

fish, striped bass drums, grunts, sbeepshead, porgies, tautog, flounders, bluefish, squeteague or weakfish and many others.

"Smaller species will be represented by sculpins, searobins, toad-hish, sea-ravens, puffers or swell-fish, mullet, blennies, gobies, sticklebacks, pipe-fish, sea-horses, as well as many Mexican, South American, Asiatic and European varieties. There will also be Octopi, commonly known as devil-fishes, and possibly cuttle-fishes, but these latter are difficult to transport in good condition when living. The same may be said of the jellyfishes, but attempts will be made to exhibit them at Chicago, with some hope of success. Of the lower forms of life, generally, there will be representatives of the mollusks, anemones, starfishes, seaurchins, holothurians or sea-cucumbers, corals, etc.

"There will be a wonderful showing in the aquaria of algae, or sea weeds. The exquisite foliage and wonderful coloring of these plants cannot be described, but must be left to the imagination. It may be stated, however, that the colors range through the various shades of yellow-brown, green, red and purple, some species displaying the most exquisitely beautiful hues. The fresh waters will also be represented by natural growths of the great variety of their plant life. The magnificent lilies of our ponds will be seen from their other aspect. We are familiar with them in the ponds of our beautiful parks; but to see them from beneath the water, with the fishes dispersed among them, as never before displayed or even attempted, will be one of the novel and interesting features of the Exposition.

"Outside of the Fisheries Building will be a series of ponds illustrating methods of pond culture and the possibilities in the practical and ornamental use of aquatic and semi-aquatic plants; the question of having in these ponds an exbibition of manatees, seals, sea lions, etc., has been under consideration.

"The time is near at hand when the great cities of the country will vie with each other in the establishment of gr

THE BIG TROUT OF THE STONE DAM.

the trail by Sunday Pond—and climbing windfalls after dark is not pleasant traveling. I cast upon its waters flies of every size, shape and color, from thy midge to large and gaudy bass fly, and when these failed I descended to bait, the abused angle worm, wood grub, a strip of fish, the fin of a trout, and live bait from a two-inch shiner to a half-pound chub. Many a handsome trout did I get, but not one glimpse of the old patriarch of the pool until the last day of our stay.

I was making my farewell visit to the stone dam alone, and was idly casting a fly upon its waters, and was just ready to reel up and leave, when, throwing my fly in the rapids near the dam, it was taken by a small quarterpound trout and I commenced to reel him in. But he was a gamy little fellow and was darting here and there as quick as a flash; and the thought struck me, why not try him for a bait? But no, I will never be guilty of piercing the sides or lips of a lordly trout and using him for bait; but as this is my last cast, and I can see that you are lightly hooked in the lip, for the gaudy wings of the Parmachenee-belle can be plainly seen, you may take one run down through the pool, and if you do not get away I will gently release you and you shall go free. I drew the line from the reel to give him all the play he wanted; and down to the center of the pool he went, and there he stopped for a few playful darts this way and then that. Then he started again down the pool, until I had all the line from the spool and thought it about time to reel him in. But I could not start the reel, and still he went. I involuntarily struck and raised the tip, and for an instant a big fin showed above the water and I knew I was fast again to the old patriarch of the waters. What a predicament. There I stood on a rock at the head of the pool with one of Chubb's little 4oz. "Raymond" rods in my hand, not a single turn of the line upon the spool of my reel, and 140ft, away, hook-d with a No. 8 Sproat, was the giant trout of the Magalloway. There was o

but his own beautiful spotted tribe, his relatives or perhaps his own children. But you have had your last one, you old rascal, and the other trout can now swim in peace.

To understand the "subsequent proceedings" it will be necessary for me to describe the stone dam. This was not made by man, but was a natural ledge, running clear across and extending up the river for perhaps a couple of rods; but the fall was mostly in the last rod before the water fell in the pool below, somewhat more than half-way across, when the water was at its usual summer height the ledge protruded from the water. This was worn smooth by the action of the water, and formed a flat table-like surface with rounded sides. The water upon each side of this ran with the swiftness and force of a race-way; but with care and a cool head it was possible for one to wade and jump to this rock without having the water come above a pair of high boots. Directly below this ledge, and jutting into the pool, were two large rocks, which could be reached from the ledge by a little careful wading, and from these rocks a good caster could reach all the best parts of the pool below. It was from this rock that I had been casting and upon which I now stood with my prize; and I wanted to get to shore with the fish soon as possible. Grasping the net above the trout, I cept to the ledge above and attempted to cross to the shore; but I was so weak I could hardly stand and hold the fish. With my first step the water nearly took my feet from under me; and I realized that I must rest before I could cross in safety. I therefore lay the landing net down upon the ledge with the big trout in it, and the handle pointing up stream, and stepped upon the frame in such a way that the fish could not get out. I had hardly straightened up when I heard a grating on the ledge, and just caught a glimpse of a long handle as it swung or rolled into the water. The moment the full force of the current caught it my feet flew out from under me and I read down with a 'dull thud,' and the