The Mysterious Tenant of a Tree.—Within the limits of the city of New York is a great swamp dense and treacherous the year round. It lies in a tract of country lately set aside by the city and called Van Cortlandt Park. One afternoon in the early spring of 1887, I was poking about among the trees and bushes on the outskirts of this swamp watching a wary hawk and some restless noisy crows that were perhaps beginning to build their nests in the tops of the swamp oaks. Several old crows' nests were found: also one composed of large sticks high among the upper limbs of aswamp oak. I carefully scrutinized the latter through my field glass, and I saw that it was not a new one, yet it was occupied, and the occupant's feathers or fur seemed to wave in the light breeze. I threw sticks at it, but could not see signs of life. A bird would surely have left. Then I pounded the trunk of the tree, thrashed about the tops of saplings and boat the bushes, but still there was no movement. Then I cut a stout stick, a yard long, and determined to climb the tree and find out its tenant. The tree was one of a bunch of four or five that sprung from a common base, and the group was surrounded by water. Small limbs had grown pretty thickly from butt to top, so that climbing could not be difficult. The platform of sticks, evidently a deserted crows' nest, was supported close to the main stem by several limbs and many others grew above and around it. My first impulse was to strike the bunch of red fur with my stick, but the limbs prevented that. All the while it had not stirred. If I could only make it move, perhaps I could deal an effective blow at it. So, reaching out at arm's length, I gave a strong poke into the mass of fur. It instantly arose upon its forelegs, stared a moment in bewildment and surprise, and the very next instant, with a wild leap, went tumbling over the side of the nest into a pool of water fully 40ft, below. Then, slowly dragging its tail, it crawled away, wet and forlorn, into a dense growth of brambles out of si

Kentucky.—Spencer Co., Ky., Jan. 12.—The shooting season just past has been a very good one. Quail have abounded, and a pheasant has been picked up in the eastern portion of the county, in the hills of Beech and Crooked Creeks, where there is still vast, almost unbroken, forest. Hares have been plentiful, but the sport is so little appreciated that only market hunters have enjoyed it. There is not a beagle in the county. If their merits were known it would be but a short time before harehunting would be the most popular of sports. There can be few amusements more interesting than that of having the little trailers drive the hares out of cover where a good shot could pick them off ad libitum. The big fish-pond and game-preserve scheme has not materialized. Senator Gilbert has gone hunting a State office, and no one seems now to be pushing the enterprise. I am certain the plan was practicable, and would pay stockholders big interest on their money.—J. S. M.

Forest and Stream Powder Tests.—New York, Jan. 19.—Editor Forest and Stream: In reply to the letter of Messrs. Von Lengerke & Detmold in last week's issue, and also to the complaint of the manager of the American Wood Powder Co., that my Colt gun, which was used in the powder tests at Claremont under your management, was a large 12-gauge, I beg to state that the gun was tested by Mr. J. Dannefelser, No. 9 Chambers street, and myself, and it was found a very small 12-bore. A No. 12 wad required considerable pressure to go from chamber to choke. I hope this will satisfy those interested in that test as being fair to all concerned, as I did the shooting with my gun on that day without any interest other than a record for my gun.—Edwin A. Summers.

Snow and Rifle Sights.—Editor Forest and Stream: A couple of items, one by "Hunter" and the other by Mr. Lyman, remind me that I have also been troubled when hunting deer in the timber, when the snow adheres to the branches and underbrush, by having the sights of my rifle, both front, open and the Lyman, choked with falling snow, or the view of the front sight obstructed by snow lodging on the barrel, especially so if the snow be damp. I overcome the difficulty by reversing the usual method of carrying the gun; that is to say, by carrying it bottom side upward.—H. L.

A SIGHT ATTACHMENT.—Let "Ahmeek" (issue Jan. 8) take a small rubber ball, such as is used by children as a plaything, cut it in half, or allow two-thirds in one position. In the part used make a small hole to tightly fit over projection in sight. Place in position, and the larger portion being toward face will serve to obviate the trouble complained of. The mode of application, etc., will suggest itself applicable to all peep sights.

At Hagen, in Prussian Westphalia, the attention of an official was aroused by the barking of a dog on the railway. Thinking there was something amiss the man followed the animal, and found that its master, a sportsman, while walking homeward on a low railway embankment, had been sejized with a giddiness and had fallen in a state of insensibility on to the metals. Guided by the dog the man soon reached the spot where its master lay and succeeded in removing him. A few minutes later a train passed.—London Daily News.

A BOOK ABOUT INDIANS.—The FOREST AND STREAM will mail free on application a descriptive circular of Mr. Grinnell's book, "Pawnee Hero Stories and Folk-Tales," giving a table of contents and specimen illustrations from the volume.—Adv.

FOREST AND STREAM, Box 2,832, N. Y. city, has descriptive Illustrated circulars of W. B. Leftingwell's book, "Wild Fowl Shooting," which will be mailed free on request. The book is pronunced by "Nanit," "Gloan," "Dick Swiveller," "Sybiliene" and other competent authorities to be the best treatise on the subject extant.

Sea and River Hishing.

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 SUNAPEE TROUT.

Salvelinus alpinus aureolus

Salvelinus alpinus aureolus.

FOR some time past ichtbyologists and anglers alike have been deeply interested in the question of the name and origin of the splendid trout of Sunapee Lake. Is it a distinct and peculiar species which has always been with us, or is it simply the European charr or saibling which has been lately brought over from Europe? Two of our highest ichthyological authorities have expressed themselves with some positiveness in regard to this matter. Dr. Tarleton H. Bean, of the U. S. Fish Commission, has described the fish in question as a distinct species, under the name of Salvelinus aureolus, while Mr. Samuel Garman, of the Museum of Comparative Zoology, has declared it to be fully identical with the European Salvelinus alpinus, the charr, saibling, sabbling or ombre chevalier of the rivers and lakes of northern Europe. On the supposition of the identity of the Sunapee trout with the European form, its occurrence in the lakes of Maine has been attributed to a recent plant of saibling eggs brought from Germany by the U. S. Fish Commission. The posibility that this trout is a hybrid between the saibling and the European trout or "brown trout" (Salmo fario), has been also suggested.

The study of the species of charr is a very difficult one. The specific differences are slight and the individual variations surprisingly great. The presence of a large amount of material is necessary in order to reach any conclusion. Those conclusions which now seem to me probable I wish to present in the most modest manner possible, for they are liable to be wholly overturned when the waters between Maine and Greenland are more fully explored.

For the purposes of the present study, Dr. Bean has

explored.

exporred.

For the purposes of the present study, Dr. Bean has very kindly lent me a considerable amount of material, from the National Museum, by consent of Dr. Goode. This consists of the following specimens:

Salvelinus alpinus—10.249. from Europe; 17,456 (two specimens), Bergen; 39,924, Sterling Lake, N. J. (introduced).

Salvelinus aureolus—From Sunapee Lake, 37,408, 37,409, 37,410, 39,334, 39,335, 39,900.
Salvelinus—A hybrid of Salvelinus alpinus, male, with Salmo fario, female, 2 years old, received from Norway, 17,451.

Solicitus—A hybrid of Salesimus appinos, male, with Salesimus—A hybrid of Salesimus—al, year of the Salesimus—Chanda, Years of the Salesimus—Chanda, Years of the Salesimus—Chanda of Sale

has the gill rakers slender and straightish, 9+15 in number, the longest 2½ in eye. In this respect it agrees perfectly with the saibling, but in the form of the body and the shortish fins (the pectoral 1½ in head) it more resembles the Sunapee trout. This Greenland fish represents the species called Salvelinus nitidus (Richardson). This has been thought to be simply the female of a long-finned Greenland trout called Salvelinus stagnalis (Fabricius). Perhaps nitidus is the female and stagnalis (Fabricius). Perhaps stagnalis is based on river and nitidus on sea-run specimens. Apparently the two are not distinct species and I do not see how either can be separated from alpinus. Apparently, also, nitidus only differs from aureolus in having the gill rakers of the alpinus. An unpublished engraving of another Greenland trout (nitidus) agrees perfectly in form and color with aureolus, but the gill rakers are not shown.

In view of all these facts, I have no hesitation in regarding these Greenland charms as forms of the saibling. That the saibling should extend its range across to Greenland need not surprise us. It is found in all the mountain takes of Europe from Austria to Spitzbergen. It enters the northern seas and swarms in the ponds of Iceland. In late autumn, in the North Pacific, black-spotted trout (Salmo mykiss) and the Dolly Varden charr (Salvelinus malma) freely enter the ocean, and they inhabit alike both sides of Behring's Sea. The saibling could as easily reach Greenland from Iceland as to cross to Iceland from the Scottish coasts.

Two other specimens before us are also of interest in

Greenland from Iceland as to cross to Iceland from the Scottish coasts.

Two other specimens before us are also of interest in this connection. One of these, a young trout, 10% in in length, with parr marks and without red spots, is from a lake near Quebec. The other, 9% in long, was taken in the Gulf of St. Lawrence. This specimen is very dark in color, almost like a blueback. It has no red spots and its scales have the silvery lustre which is acquired on entering the sea.

the Gulf of St. Lawrence. This specimen is very dark in color, almost like a blueback. It has no red spots and its seales have the silvery lustre which is acquired on entering the sea.

These two specimens seem to agree with each other in essentials. They have straightish gill rakers like the saibling, but their number of these appendages (7+12 and 7+14) is intermediate between the saibling and the Sunapee trout. The pectoral fins are also intermediate in length, 1% in head in one specimen, 1% in the other. The operular bones seem more straight than in any other specimens examined, but this appearance may be due to the fact of the partial drying of the skin over the bones before the fish was put into alcohol. These specimens are apparently intermediate between the saibling and the Sunapee front, and again intermediate between the Greenland nitidus and the Sunapee fish. The specimen from Quebec agrees in all respects, waiving non-essentials, with Dr. Gunther's figure of Salvelinus arcturus, the "northernmost Salmonoid known," from the northern limit of British America. Dr. Bean has suggested to me that this specimen may be the unrecognized Salvelinus rossi of Richardson. This view may be correct, but Richardson's description is so vague that we can only be sure that his fish was some one of the alpinus set, with red spots and a red belly, perhaps a nitidus or stagnalis.

The Sunapee charr is certainly not a hybrid between the saibling and any other species. European or American. The hybrid alpinus fario. examined by me, has the scales adherent as in alpinus, but almost as large (135 series) as in Salmo fario. Its gill rakers, 6+11 or 12, are stiffish and nearly straight; there are a few teeth on the shaft of the vomer (fario has many, the species of Salvelinus none at all) and the color is very eccentric. The body is dark and is clouded all over with sharply defined yellowish reticulations, which extend on the head and fins. Its coloration somewhat resembles that of a pike. It has neither the red spots of alpinu

Perhaps we are justified in supposing that by the same persons and at the same time two were placed in Sunapee Lake, two in Dan Hole Pond, and two in the sea at Disco.

DAVID STARR JORDAN.

THE UNIVERSITY OF INDIANA, Bloomington, Ind., Jan. 7.

FOX RIVER FISH AND GAME ASSOC'N.

FOX RIVER FISH AND GAME ASSOC'N.

CHICAGO, Ill., Jan. 15.—As many readers of Fornest AND STREAM Know, the large and small lakes of what is known as the Fox Lake system, lie about fifty miles to the north of Chicago. The Fox River drains these lakes for the most part, and also supplies them with fish. The Fox River runs into the Illinois again into the Mississippi. These lakes, if Jeft musupplied with other than their natural increase of fish, would in time probably become quite exhausted. The keeping open of the great waterway from the Mississippi up to the lakes is therefore a great desideratum for the Chicago anglers, and for those anglers who live yet closer to these waters. To stock the lakes and streams, and to prevent illegal and wasteful methods of taking the fish from them, is a question of equal or greater importance. Briefly, to do these very things is the mission of the Fox River Fish and Game Association. Time and again attention has been called to this organization in these columns. It is the one and only protective society in the State of Illinois which amounts to a row of blue beans in actual protection of fish or game. It deserves credit. It works. It performs. It does something besides talk. Singular, unique, peculiar, almost startling it is in this regard. What it has done by way of opening up the dams on the Fox, of breaking up netting on the Illinois, and otherwise helping the Fox River chain of waters, has already been recounted duly in this journal.

The Fox River Association held its third annual meeting Thursday, Jan. 14, at 3 P. M., at the Sherman House of this city. There was a good attendance. The association is not composed of a union of clubs, but of a union of individuals. Its success is the success largely of private effort, though it is growing constantly by accessions from sportsuran's clubs lower down the rivers. As might be expected, therefore, the proceedings were marked by heir informal simplicity and directness. The Fox River Association has no style about it to speak of, n

The report of the meeting of the Board of Directors was then made, briefly detailing the committees and the work they had done. Mr. John Wilkinson, minister of the ex-chequer, then made his report, in many ways the most important of any. Mr. Wilkinson showed the budget to

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viduals have given cash as help in a worthy project to help preserve fish and game.

The Fox River Association, however, does not claim to do much in the way of protecting game. The less it does the better. It is doing some work on fish. It ought to stick to this, especially in its own younger and weaker days. All conservative business thought shows the folly of branching out into many lines of business. One business well pushed is better. In a beautifully worded resolution the Illinois State Sportsmen's Association, in courtesy to its committee present. The "conjoin" business ceased when the meeting of the Illinois State Sportsmen's Association, in courtesy to its committee present. The "conjoin" business ceased when the meeting of the Illinois State Sportsmen's Association adjourned, just as everybody knew it would cease. The State association is an admirable body in its own way and for its own purposes, but it does not genuinely and honestly class game protection among those purposes. Since it does not and cannot cle im such purposes, what has the Fox River Association to gain by acting with it, since its own purposes are those of protection and nothing clse? The union would be only one of courtesy, and not one of practical and mutual interest. Let the Fox River Association saddle itself with no complicating responsibilities, but run free in its own field of practical results. Beyond its own feeling of courtesy in the matter, none will see the force of this quicker than the State Sportsmen's Association. Indeed, it would be better if the Fox River Fish and Game Association should strike the word "game" quite out of its name as well as out of its purposes. Let others pay for wardens to watch for illegal ducks, and let this association should strike the word "game" quite out of its name as well as out of its purposes. Let others pay for wardens to watch for illegal ducks, and let this association should strike the word "game" quite out of its name as well as out of its purposes. Let others pay for wardens to w

by Messrs. Baird and Bartree against the South Water street men, Henry Sloan and J. B. Brousseau, for selling illegal game. In his report Mr. Baird told how he and his assistant didn't do anything in these cases. He scored the fat-witted Brusewitz, the Chicago warden, roundly, as did others also.

Mr. Hills, reporting for the committee on fish, tersely announced "There was pretty good fishing last season in the Fox Lake country."

The committee on legal and political action had little to report. Mr. Hertz spoke at some length upon the advisability of having a bill introduced prohibiting the abominable practice of fishing through the ice. Mr. Hertz told of one Elgin party who in three days caught 2,800lbs. of fish in Pistakee Lake last December. The extent of the outrages was not generally known, but if known the Legislature might pass a prohibitory law. Mention was however called to the fact that previous efforts in this direction had been unavailing.

Messrs. Prussing, Burkett and Glenn, appointed committee on election of the board of directors, retired to confer, and in their absence the president called upon State Commissioner Bartlett. Dr. Bartlett was received with enthusiasm. He stated that the Fox River Association was the first organization that ever gave him any help in his work, and its help had been notable. He complimented the association highly. Dr. Bartlett had found that usually the men who complained the most about game violations were the most ready to object when he came to enforcing the law in their neighborhood. There had, however, been some work done, and thanks to this conjoint work we could now look upon a waterway open to fish from the Missisapip up to the lakes, no dam in the whole distance being now an obstacle to the fish. On the Illinois River nothing could ever be done till the last year. In that time over 500 nets had been destroyed and seventy convictions secured. It was deplorable that the Legislature had given an appropriation of only \$80,000. The fish wardens had to hought the

dead fish are crowded together for weeks at a time and ladled out for shipment as the market dictates. It was suggested that the association make members of the summer resort men along the upper lakes and then induce them to stop their ice fishing.

The committee on election reported and recommended the following to constitute the board of directors for the ensuing year: From Pistaqua Lake region, Coroner Henry L. Hertz and Clarence A. Knight; from the Northwestern Pleasure Club, John Stephens; from Fox Lake Fishing Club, Chas. F. Hills and Geo. E. Cole; from Crabapple Island region, John Wilkinson; from Mineola Club, L. M. Hamburger; from the East Shore region, Geo. R. Davis and O. J. Weidner; from the North Shore region, Jas. Gardner.

The board of directors will early meet and elect the officers of the association for the ensuing year.

E. HOUGH.

FISH AND GAME IN WEST VIRGINIA.

FISH AND GAME IN WEST VIRGINIA.

Editor Forest and Stream:

Hunting this season was pretty good here. Some of my friends who joined me were very successful. The greatest drawback on those from a distance was the mild weather; when they killed a deer or two they had to cut short their hunt to save the game. Turkey were unusually plentiful. I attribute it to the favorable winter of '89-'90. We had some bear this fall, but none of my party had the luck to bring down any. I have had the good fortune to kill three nice bears since you were with us; one weighed 236lbs. My eleven-year-old boy killed a very large wildcat near my deer park during the month of December. My brother John also came across a wildcat killing a small deer this last hunting season. We have some good trout streams, or at least they are considered so by all the anglers who have tried them. Mr. A. F. Rees and Mr. Ripley Hitchcock, of New York city, have tested our streams to their satisfaction. One is known as Wate's Run. The largest fish are never longer that 15 or 16in. A stream called Trout Run, about three miles west of me, is noted for its good trout fishing. I don't know what the best specimens taken out weighed, but a friend and myself on one occasion took out of a pond, or hole as we call it, 23 nice trout in one day, the largest 16\frac{1}{2}in. long. There are two more trout streams only a few miles from my place. One is styled Stony Creek and the other is known as Pond Run; both are beautiful, cold and clear streams. Capon River, four miles distant, is a splendid black bass stream; it contains a vast number of fine bass, the largest weighing 5\frac{1}{2} to 6lbs. I hope it will be our luck to have you visit us another hunting season. Should you have any friend who wishes to catch trout send him here and I will give him good attention. I have built a new and comfortable dwelling since you were with us, and am better prepared to entertain my friends.

CAPON IRON WORKS, West Va.

[The home of the Wilson brothers, in Hardie county, has

[The home of the Wilson brothers, in Hardie county, has long been noted as a hunting locality, and we can testify, from personal experience, to the hospitality of the people and the abundance of deer, turkeys and pheasants. Capon Iron Works is best reached by the B. & O. Railroad to Woodstock and thence 12 miles by horse over easy mountain traits. The cost of boarding is merely nominal. Deer are driven to guns posted on their runways.]

A CARP'S DINNER.

A CARP'S DINNER.

MIRABILE DICTU! Strange things happen in far-off places. It is not uncommon in opening fish to find various and divers sundries within their maws. On Lake Superior the great lake trout, the namaycush of the Ojibbewas, seem to always be ready and willing to accept any of such things as are thrown from the cook's galley of the steamers and sailing vessels which plow its pellucid waters. It is not uncommon to find a fork or spoon, beef bones, potatoes, broken wine glasses, corn cobs, and even a bunch of keys are among the treasure trove from their omnivorous collection bags. But now a carp comes to the front as a container of the neatest outfit of anything yet seen on the great unsalted sea. On Christmas morning Capt. McCormick, an old salt and fish man, saw two fine large German carp on sale in Duluth. Struck with their appearance, and thinking to please his friend, the Doctor, he purchased one and sent it to him with the compliments of the season. Of course the Doctor was pleased with the gift and ordered it tabled. You can imagine the astonishment of all when it was opened to find within a silk-lined case containing a large meerschaum pipe and cigar holder, all in good order, too. It was a genuine carp, imported from Germany, of the variety called papier mâché. The Doctor has it yet carefully preserved, and the smoker's apparatus, too, which he shows to his friends with very great pleasure.

BULUTH, Minn.

SUSQUEHANNA RIVER FISHING.

Editor Forest and Stream:
In September, 1888, the Messrs. Hanlon, Prof. Siler, of Harrisburg, and Mr. C. H. Sangrey, of Washington Borough, in eight hours' fishing caught 93 "salmon," or pike perch, and 10 bass. One of the salmon weighed \(\frac{1}{2}\) lbs., another 6lbs., and a number ranged from \(\frac{1}{2}\) to 5lbs.
The largest of the bass tipped the beam at \(\frac{1}{4}\) lbs.
In September, 1889, near Creswell Station, Messrs. John Yeley and W. B. Charles took from a small area of water (not more than \(\frac{3}{2}\) output (3) \(\frac{1}{2}\) (8 "salmon" in a few hours, the largest weighing \(\frac{5}{2}\) lbs., and the entire catch averaging \(\frac{1}{4}\) lbs.

Parises Weighing Sios., and the entire catch averaging albs.

During the season of 1889, a royal specimen of the Susquehanna "salmon" was taken with rod and line near Mud Island, by Mr. John Keech. This fine fish was one of the largest of its species ever taken from the river, in this locality, and weighed 11lbs. 20z.

In July, 1889, Messrs. Sangrey and Brush caught, in two and a half hours, 32 "salmon," the largest ranging from 3 to 5lbs. in weight.

June 15, 1890, Mr. Harvey Brush took in about three hours fishing, 16 bass, one individual weighing 3lbs.

In the month of July, 1890, after being out one day for about eight houas, Messrs. W. B. Charles and John Myskin caught 20 "salmon," the largest 2lbs. in weight.

STATE NORMAL SCHOOL, MILLERSVILLE, Pa., Jan. 13.