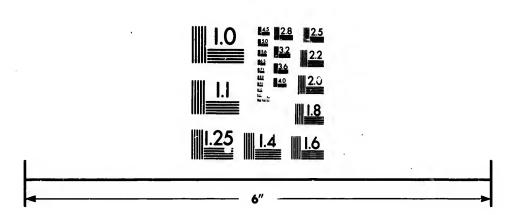


IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

STATE OF THE PART OF THE PART

W Res Res

CIHM/ICMH Microfiche Series.

CIHM/ICMH Collection de microfiches.



Canadian Institute for Historical Microreproductions / Institut canadian de microreproductions historiques



(C) 1985

Technical and Bibliographic Notes/Notes techniques et bibliographiques

| origi copy which repre | Institute has attemp inal copy available for which may be biblich the may alter any of to oduction, or which no usual method of film | r filming. Fea ographically he images in nay significal | stures of thi unique, the ntly change | s qu'il de d poin une mod | stitut a mid lui e été ; let exempli let de vue b image rep lification d t indiqués | oossible d aire qui so ibliograph roduite, o lans la mé | e se proc ont peut-é nique, qui ou qui peu othode no | urer. Les etre uniqui peuvent uvent exig | détails ues du modifier ger une |
|---------------------------------|---|--|---|---------------------------------------|---|---|--|---|--|
| | Coloured covers/ Couverture de coul | our | | | Coloured Pages de | | | | |
| | Covers damaged/ Couverture endomi | magée | | | Pages da Pages en | maged/ dommage | ios | | |
| | Covers restored and Couverture restaure | | | | | stored and staurées e | | | |
| | Cover title missing, Le titre de couvertu | | | \square | | scoloured, colorées, | | | |
| | Coloured maps/ Cartes géographiqu | es en couleu | r | | Pages de Pages dé | | | | |
| | Coloured ink (i.e. o Encre de couleur (i. | | | 1 1 7 1 | Showthre Transpar | | | | |
| | Coloured plates and Planches et/ou illus | | | | | f print va négale de | | ion | |
| | Bound with other n Relié avec d'autres | | | | | suppleme d du mat | | | re |
| V | Tight binding may of along interior marg La reliure serrée pe distorsion le long d | in/ ut causer de | l'ombre ou | | Seule édi Pages wi | ion svails ition dispe | onible artially ob | | |
| | Blank leaves added appear within the t have been omitted il se peut que certa lors d'une restaurat mais, lorsque cela de pas été filmées. | ext. Whenever from filming ines pages b ion apparais: | er possible, / lanches ajou sent dans le | utées texte, | ensure the Les pages obscurcie etc., ont | sues, etc., le best po s totalemo es par un été filmée a meilleuro | ssible ima ent ou pa feuillet d' es à nouv | age/ rtielleme 'errata, ui eau de fa | nt ne pelura, |
| V | Additional commer Commentaires sup | | | ges may film slightly | out of focu | 15. | | | |
| | item is filmed at the locument est filmé a | | | | | | | | |
| 10X | | - (BUA US 180 | 18X | 22X | | 26X | | 30X | |
| | | | 1 | | | | | | |
| | 12X | 16X | | 20X | 24X | | 28X | | 32X |

The copy filmed here has been reproduced thanks to the generality of:

D. B. Weldon Library University of Western Ontario (Regional History Room)

ils

112

lifier

ne

age

ta

ure,

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol → (meaning "CONTINUED"), or the symbol ▼ (meaning "END"), whichever applies.

Maps. plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:

L'exemplaire filmé fut reproduit grâce à la générosité de:

D. B. Weldon Library University of Western Ontario (Regional History Room)

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivant ∴ pparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole → signifie "A SUIVRE", le symbole ▼ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'Images nécessaire. Les diagrammes suivants illustrent la méthode.

| 1 | 2 | 3 |
|---|---|---|
| | | |

| 1 | |
|---|--|
| 2 | |
| 3 | |

| 1 | 2 | 3 |
|---|---|---|
| 4 | 5 | 6 |

Parks of the Control of the Control

TH

A

CA

GAME FISH

OF

THE NORTHERN STATES AND BRITISH PROVINCES.

WITH AN

ACCOUNT OF THE SALMON AND SEA-TROUT FISHING OF CANADA AND NEW BRUNSWICK, TOGETHER WITH SIMPLE DIRECTIONS

FOR TYING ARTIFICIAL FLIES, ETC., ETC.

BY ROBERT B. ROOSEVELT,
AUTHOR OF "SUPERIOR FISHING," "THE GAME BIRDS OF THE HORTH," Z.T.



NEW YORK:

CARLETON, PUBLISHER, 413 BROADWAY.

John Vol



EFTERED according to Act of Congress, in the year 1862, by

G. W. CARLETON,

In the Clerk's Office of the District Court of the United States for the Southern District of New York.

All At

Bas

Bai Bla Blu Boi

Cer

Cis Cla Co

Co Cr Cu Cy

INDEX.

| A. | PAGE |
|---|--------------------------------|
| | Esox tredecem radiatus 184 |
| | Expenses to New Brunswick 821 |
| Attihawmeg | <i>f</i> |
| • | F. |
| В. | Flies and knots255 |
| Bass, black | for bass |
| Otsego | for salmon |
| rock | |
| Baits for trout | French vocabulary320 |
| Black fly | 10000 10000 0000 0000 |
| Blue-fish | |
| Boiestown | G. |
| 1 | Ghost of Deadman's Landing 126 |
| O. | story of Abraham129 |
| | Glass-eye224 |
| Camp life | Green-fish |
| stores294 | |
| Centrarchus æneus222 | |
| fasciatus217 | H. |
| Cisco | |
| Cashing 90K 900 | Horse mackerel158 |
| Cooking | |
| Coregonus albus | |
| Otsego151 | Insects277 |
| Crab bait | |
| Curing fish | K. |
| Cuminus agenia 169 | Knots |
| Cyprinus carpio | Knots255 |
| FI. | T. |
| | Labrax lineatus202 |
| From seton 164 | Landing fish |
| fanciatus 107 | La Val |
| Juoinides 121 | laka 77 |
| meticulatus 199 | lake |
| 7 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1000 00 |

INDEX.

| PAGE | 8. |
|---------------------------|-------------------------------|
| Laws of fisheries307 | PAGE |
| Lucioperca americana224 | Salmon |
| | fishing:92, 102 |
| M. | habits of |
| | rivers |
| Mascallonge164 | rivers, how to reach them 111 |
| Mascanonga164 | time for catching 94, 308 |
| Marshpee | place for catching 94 |
| Miramichi | rod for |
| Moose story | Ohio |
| | Salmo salar |
| N. | |
| | trutta marina |
| Newroptera | Sciena lineata202 |
| New Brunswick, trip to116 | Scollops207 |
| → note821 | Sea trout |
| Nipisiquit | time for catching808 |
| | Shrimp bait |
| · · O. | Skipjack |
| U . | |
| Ohio salmon225 | In an hear |
| Otsego bass151 | Snapping mackerel187 |
| | Spearing |
| . P. | Spoons |
| | |
| Perca labrax202 | |
| flavescens228 | |
| Perch, yellow228 | Temnodon saltator |
| Pickerel168 | Tents293, 303 |
| common182 | Thousand Isles189 |
| great northern181 | Transportation of fish249 |
| Long Island187 | Trimmers for pickerel177 |
| Pickering | Trout, American speckled, or |
| Pike, federation184 | |
| of the lakes224 | |
| perch224 | fly-fishing for 18 |
| Propagation of fish230 | baits for 28 |
| Phryganea | |
| 1 m ygunou | |
| _ | white, or Scoodic145 |
| R. | |
| Report of Mr. Whitcher315 | w. |
| Dee of shed or selmon | White-fish147 |
| Boot of shau of salmon | trout |
| Rock-fish202 | trout |

sp sk du ar hi th

of in the in Iri

GAME FISH.

...92, 102

h them 111

...94, 308

...209, 816

......155

...293, 303

led, or

. 16

.....147

CHAPTER I.

INSTRUCTION.

I have always considered a preface or introduction a species of apology, and not intending that the following sketches shall need any apology, I shall write no introduction; but an explanation of the scientific distinctions and divisions of fishes may not only be appropriate but highly instructive, if my readers be as ignorant as I think them.

It has been a matter of serious reproach by the naturalists against the sportsmen, that the latter, instead of adopting a uniform nomenclature, call a bird or fish in one section of our country by a different name from that under which it is known in another; that a Quail and Black Bass at the North become a Partridge and Irout at the South. The sportsmen, conscious of the justness of the reproach, have submitted quietly to the learned stones of reproof hurled at them, and scarcely dared to suggest that their persecutors lived in the most fragile of glass houses; that naturalists were liable to

the same accusation, and that there is hardly a fish, bird or beast that they have not called by several different names. Are not the contentions of Ortyx and Perdrix known to all? Is it quite certain, when we catch an Otsego Bass, whether we catch a Coregonus Otsego or a Coregonus Albus, or even a Salmo Otsego? Is it perfectly ascertained from a scientific point of view that we catch anything? Who does not know that a Tautog is a Blackfish, or would be materially instructed by hearing him called a Tautoga Americana? Scientific men vie with one another in creating new names, the most useless things in Christendom; while sportsmen are happy to take them, the game, as they find them. The first are guilty of faults of commission, the latter of omission. The language of each is Greek to the other.

The writer of these sketches, knowing just sufficient Greek to be a sportsman, and yet able to translate with the help of a dictionary, offers, from the want of one more worthy, to conciliate all differences. His plan is to translate all terms that are translatable, and to omit 'altogether those that are not, trusting that they will never be missed. His intention at first was to write a noble work on natural history that would carry his name in letters of gold, as a public reformer and benefactor, to latest posterity; but finding, on reviewing his stores of information, that he knew but little on the subject, he was compelled to relinquish the idea. Being therefore nothing but a gentle angler, instead of instructing the universe, he is content to amuse a small circle of lovers of sporting anecdotes, and, provided he receives it, will be content with their approval. As, however, one fool fish, bird
different
l Perdrix
catch an
lego or a
ls it perv that we
lutog is a
v hearing
men vie
most usere happy

sufficient late with t of one plan is to omit hey will write a nis name actor, to tores of ject, he herefore ing the f lovers it, will ne fool

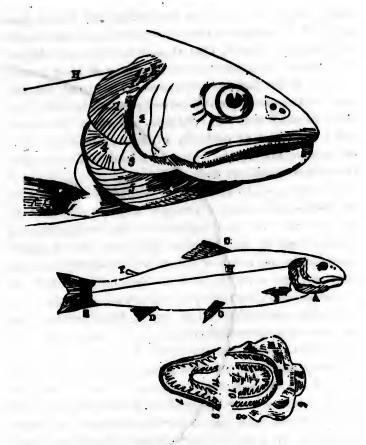
first are

omission.

can always teach another something, the writer feels impelled to mingle a little instruction in doses to suit the weakest stomach, that those who have not skipped this chapter on account of its title, may at least receive something for their perseverance. They need not suppose for a moment that the writer pretends to insist upon what he shall write as infallible, but where his readers differ from him, is perfectly willing to admit that he is entirely mistaken; the buyer of a book is always right, the author a toujours tort.

He supposes—let there be no misunderstandings when he accidentally uses a stronger word—that fishes are divided into two great orders, and are distinguished as having bony or cartilaginous skeletons; thus a quawl, provided he be a fish at all, would be a very cartilaginous one, and a catfish with his back fin erected, as the writer has often learned to his cost, is a bony fish.

As the cartilaginous fish are of small account, the reader may forget all about them if he wishes, but he is requested to remember the useful division of those having bony skeletons into the great classes, easily distinguished, of the soft finned and spiny finned, called in foreign languages by the horrible terms malacopterygii and acanthopterygii—terms unpronounceable except by a Dutchman or a philosopher. These classes are distinguished, as the English words imply, by their having the rays of their fins soft and flexible or hard and spine-like. The investigator may determine their peculiarities by pressing strongly upon the points of the fin rays; if nature intimates that his organism is suffering, the fish is a acanthop, etc.; if not, why not.



The location of the fins of the fish mark the subdivisions of the families. The above diagram being supposed to represent a fish, and a Trout at that, a is the first back or dorsal fin, r the second—in the case of this species, mere rayless, fatty matter; r is the tail fin or caudal—the writer, as a married man, naturally avoiding the

e

1 1 0

latter term on account of its suggestiveness; D is the anal fin, for which the writer can offer no English substitute; c are the two ventrals or belly fins; B is the pectoral or shoulder fin, having a complemental one on the other side of the fish; and a represents what in learned language are called branchiostegous rays, a name that, being translated, means merely gill-rays. What is not in a name! H is the lateral line. Then bearing in mind the great divisions of soft and hard finned, the subdivisions are distinguished by the fish having the ventrals behind the pectorals and on the abdomen, giving them the name of abdominal fish, or before the pectorals, giving rise to the name jugular or throat finned, and below the pectorals, giving the name thoracic or shoulderfinned fish. Philosophers pay little attention to the dorsal and anal fins, and fish, without losing their identity, can have as many as they please. In caudals, unlike human Caudles, they are restricted to one. There are other fish, such as eels, denominated apodal or footless, because the lower fins or feet are wholly wanting.

After having examined the texture, number and location of the fins, and counted the number of the rays in each, the naturalist next turns his attention to the hard bony portion of the head, which covers the gills, and opens and shuts as the fish breathes, and which, with the excellent common sense for which naturalists are notorious, he calls the operculum. It is divided into the operculum, or gill-cover proper, No. 1; the pre-operculum, or fore gill-cover, No. 2; the inter-operculum, or middle gill-cover, No. 3; and the sub-operculum, or under gill-cover, No. 4. The head, in the foregoing diagram, is intended

divi-

osed

back

cies.

the

to represent the head of a trout, weighing a pound and a half, caught at Phillipse's Pond, near Smith Town, Long Island. The gill-rays are shown at No. 5. The divisions of the gill-cover are faintly marked in the real fish, and

require some study.

Lastly, the naturalist examines a fish as a jockey does a horse, by looking at his teeth, and with about equally satisfactory results. They both are bitten, whether the term be used in a literal or metaphorical sense. The writer once, after catching a large fish, having heard that trout had teeth in their throats, proceeded to investigate. Moved thereto by the spirit of inquiry, he thrust one finger as far as possible down the trout's mouth, and was not a little surprised, as well as pained, to find that the throat was lined with teeth sharper than a serpent's, and arranged in the same manner. They inclined backward, and once having penetrated a substance, would not and could not let go. The writer having suffered the agony that the pursuit of science sometimes involves. after exhausting gentle means of escape, and knowing that he could no more wear a trout, than the old man in the "Decameron" could the protecting ring, with a wrench tore away his hand, a bleeding sacrifice to science. Any reader wishing to ascertain the same facts, may pursue a similar course.

On the foregoing diagram, which represents the arrangement of teeth in the salmon tribe, No. 6 is the upper jaw, and No. 7 the lower; No. 8, the outer teeth in the upper jaw, superior maxillary; No. 9, the same in the lower jaw, inferior maxillary; No. 10, the inner row of teeth of the upper jaw called learnedly the pala-

l and a , Long ivisions sh, and

ey does equally er the . The rd that stigate. ist one h, and id that pent's, l backwould red the volves, nowing man in with a to scifacts.

is the is the teeth same inner vala-

tine; No 11, the teeth on the tongue, and No. 12 those on the roof of the mouth, or vomerine. The trout the writer has examined had no visible teeth on the roof of the mouth; they had either suffered from toothache in early life, and applying to a piscatorial dentist, had them drawn, or the teeth had slipped down and settled round their throats as the writer has already mentioned.

The reader, therefore, if he wishes to ascertain the scientific designation of a fish, should in the first place determine the number and location of the fins, the number and quality, as soft or hard, of the rays, the number of gill-rays, the characteristics and position of the teeth. the formation of the gill-cover, and lastly, as every numscull, the drawing teachers assure us, who can write can draw, a drawing of the fish, or at least an outline, should be made. The latter can be done simply by laying the specimen on a sheet of paper, spreading out his fins and running a pencil round him. And then the would-be naturalist will ascertain whether or not he belongs to a class so very liberal as to include salmon and smelt in the same category. He must not forget that it is much more important to study the nature. habits and food of the denizens of the water than to store his memory with their names," for our philosophers hitherto, instead of studying their nature, have been employed in increasing their catalogues, and the reader, instead of observations or facts, is presented with a long list of names that disgust him with their barren superfluity."

CHAPTER II.

THE AMERICAN TROUT.

THE Brook Trout—The New York Charr—Salmo fontinalis.—Salmon tribe; ventrals in abdomen, rays soft.

The shoulder and first back fins have each eleven rays; the second back fin is mere fatty matter and rayle s, the characteristic of the salmon tribe; the ventral has eight, the anal fifteen, and the tail nineteen rays. The back is dusky green, mottled with yellow spots; growing lighter on the sides, where the spots have irregularly a beautiful blue or carmine speck in the centre; the belly is silver white, with a roseate tinge as it fades into the darker colors of the sides; the shoulder fins are yellowish at the base, the ventrals yellowish red, the anal reddish, and in all the rays are dusky. The gill-covers have no defined spots.

The body is covered with delicate scales that will escape all but the strictest observation. The teeth are on the tongue and throat, but none on the roof of the mouth discernible to the naked eye; there is an outer row on the lower jaw, and an inner and outer row on the upper jaw. This fish is so well known to the public from its extensive distribution through the northern States, and so totally dissimilar from the Perch and Bass, mis-

called Trout at the South, that a more particular description does not seem necessary.

Another fish taken at the North in the smaller lakes is called Red Trout, and attains the weight of twenty-five pounds. It is rare, and would appear to be an undescribed species, differing from the trout of the brooks and lakes, and not generally known even to sportsmen. A fish of a somewhat similar character was on exhibition at an eating-house in this city, but appeared to have been scaled. It was three feet six inches long, and weighed eighteen pounds. The back was very dark, the sides being of a lighter neutral tint, without any spots. There were a number of vomerine teeth, and the finrays, as far as could be ascertained by a cursory examination, were—

Br. 12; D. 13; P. 11; V. 8; A. 11; C. 195.

This fish was said to have been taken in Maine, and differed entirely from the ordinary brook and lake trout. The fin-rays of the brook trout, as scientifically given by De Kay, are—

D. 13.0; P. 12; V. 8; A. 10; C. 194.

Trout are in season from the first of February to the first of September in the Long Island streams; from April to September in those streams of the New England States that communicate with salt water; and from May till September in the upland waters of the middle and eastern States. There is but one mode of taking them—namely, with the fly; although it is said poachers and pot hunters capture them with worms, minnows, nets, and even with their own roe. These villanies are not at present punished with death nor even imprisonment

Salmo rays

rays;

s, the eight, ck is ghter beaubelly o the wish dish, e no

will are the uter the rom

mis-

for life; but our legislature is looking into the matter, and there is no telling how soon such statutes may be

passed.

How splendid is the sport, to deftly throw the long line and small fly with the pliant single-handed rod, and with eye and nerve on the strain, to watch the loveliest darling of the wave, the spotted naiad, dart from her mossy bed, leap high into the air, earrying the strange deception in her mouth, and turning in her flight, plunge back to her crystal home, with the cruel hook driven into her lips by a skillful turn of the angler's wrist; to meet and foil her in her fierce and cunning efforts to escape, paying out the line as she rushes away resistless, meeting lier in emergencies firmly and steadily, till the tip crosses the but, when she insists upon reaching the old stump or the weedy bottom; to slack the line when she leaps into air, trying to strike it with her tail; and above all. to watch the right moment, and keeping her head well up, to bring the beautiful prize quickly and steadily to the net! There may be others who have killed more and larger trout than myself, there may be others who can cast a longer line and lighter fly; but there are none who will work more steadily or who can enjoy it more intensely.

There are innumerable rules applicable to trout fishing and innumerable exceptions to each; neither man nor fish is infallible. A change of weather is always desirable: if it has been clear, a rainy day is favorable; if cold, a warm one; if the wind has been north, a southerly one is advantageous; a zephyr if it has been blowing a tornado. Generally, in early spring, amid the fading

matter, nay be

e long d, and veliest m her trange olunge n into meet scape, eeting rosses stump leaps e all, well ily to

e and can who more

nor lesir-; if outhving ding snowe and blasts of winter, a warm day is very desirable: later, and in the heats of summer, a cold, windy day will insure success. Dead calm is dangerous, although many trout are taken in water as still, clear and transparent as the heavens above. The first rule is never to give up; there is hardly a day but at some hour, if there be trout, they will rise, and steady, patient industry disciplines the mind and invigorates the muscles. A southerly, especially a southeasterly wind, has a singular tendency to darken the surface, and in clear, fine waters is particularly advantageous; a southwester comes next in order; a northeaster, in which, by the by, occasionally there is great success, is the next; and a northwester is the worst and clearest of all. Give me wind on any terms, a southerly wind if I can have it; but give me It is not known what quality of the wind darkens the water, it may be a haziness produced in the atmosphere, although with a cloudy sky the water is often too transparent; it may be the peculiar character of the waves, short and broken, as contradistinguished from long and rolling; but the fact is entitled to reliance.

Slight changes will often affect the fish. On one day in June, in the writer's experience, after having no luck till eleven o'clock, the trout suddenly commenced rising, and kept on without cessation, scarcely giving time to cast, till two, when they as suddenly stopped. There was no observable change in the weather, except the advent of a slight haze, the wind remaining precisely the same. I was much disappointed, not having half fished the ground and being prevented, by the numbers that were taken, from casting over some of the largest fish that

broke. As it was, I caught seventy trout in what is ordinarily considered the worst hours of the day. But in this particular, also, the same rules apply as to the warmth of the weather. In early spring it is useless to be up with the lark, even supposing such a bird exists; no fish will break the water till the sun has warmed the air; but in summer, the dawn should blush to find the sportsman napping. In fact, trout will not rise well unless the air is warmer than the water. They do not like to risk taking cold by exposing themselves to a sudden draught.

There is a very absurd impression, that trout will not take the fly early in the season; this is entirely unfounded. As soon as the ice disappears they will be found gambolling in the salt water streams, and leaping readily at the fly. At such times, on lucky days, immense numbers are taken. In March they have run up the sluiceways and are in the lower ponds, lying sullenly in the deepest water; then is the cow-dung, politely called the dark cinnamon, the most attractive fly. In April, May and June they are scattered, and entrapped by the hackles, professor, ibis, and all the medium sized flies. In July and August they have sought the headwaters of navigation, the cool spring brooks, and hide around the weeds and water-cresses, whence the midges alone can tempt them.

Any flies will catch fish, cast in any manner, if the fish are plenty and in humor to be caught. A few feathers torn from the nearest and least suspicious chicken, and tied on an ordinary hook with a piece of thread, will constitute a fly in the imagination of a trout, pro-

vided he follows, as he sometimes appears to do, the advice of the young folks, shuts his eyes and opens his mouth. I cannot recommend such tackle, being convinced the most skillfully made is the best; but I do advise simplicity of color. One of the best of all flies is the female cow-dung, made of a dark cinnamon color, and after the pattern used in England; there is a greenish abomination unjustly foisted upon American invention that is worthless. The hackles are in my opinion altogether inferior, except the black-winged hackle, which, of a bright warm day, is irresistible. The ibis and professor, dressed à l'Américaine, with yellow floss body and red tail, are both excellent flies. The coachman is the best evening fly, and will attract trout long after the angler can see to strike them, and when the sound of their plunge alone entices him to continue his efforts. The May and stone flies are good, and of late years a fly of mixed red and black, with wings, called by some, from his colors, the devil-fly, has come into vogue. The palmers are only to be despised and avoided. In summer, of the midges the yellow sally, the alder fly, the little cinnamon, the black gnat, the black and red ants, and in fact all others, are attractive. The water is then covered with myriads of many-colored flies, and there is hardly any artificial but will find its representative among the real life.

These are but a few of the flies that can be purchased in the shops, which yearly invent new varieties, regardless of truth to nature or the recommendations of experience. Many have no names whatever, and in others the workman has given his fancy such play

hat is. But to the less to exists; ed the less to exist the less t

to a

oundfound
eadily
mense
p the
nly in
called
April,
y the
flies.

the feaken, ead, pro-

rs of

l the

can

that they are unrecognizable. In these pages, when the name is given of any fly described in Ronald's "Fly-Fisher's Entomology," it is intended that it shall be dressed after the directions therein contained. A more full description of the various flies, both in use and to be found in our waters, will be given hereafter with some directions for tying them; but a great deal must be left to the practical experience of each fisherman, according to the range of waters he is in the habit of fishing.

Good luck, that synonym for all the virtues, does not depend so much upon the kind of flies as the skill in casting, and a poor fly lightly cast into the right spot will do better execution than the best fly roughly cast into the wrong place. The lure must be put where the fish habit, often before their very noses, or they will not take it; and when they lie, as they generally do in running streams, in the deep holes under the banks, where the bushes are closest and cause the densest shade, it requires some skill to cast properly into the exact spot. Sacrifice everything to lightness in casting; let the line go straight without a kink if you can, drop the fly into the right ripple if possible, but it must drop gently on the surface of the water. An ugly splash of a clear day in pure water, and the prey will dart in every direction, and the angler's hopes scatter with them.

A beginner may practise a certain formula, such as lifting the line with a waive and a smart spring, swinging it backward in a half circle, and when it is directly behind him, casting straight forward; but as soon as he has overcome the rudimentary principles, he should cast in every manner, making the tip of his rod cut full cir-

when the 's "Fly-shall be A more and to be at be left ecording

g. loes not skill in ht spot hly cast iere the will not in run-, where hade, it ct spot. the line fly into ntly on ear day rection,

uch as inging irectly as he d cast ll cir-

cles, figure eights, and all other figures, behind him, according to the wind; bearing in mind, however, ever to make his fly drop as gently as a feather. He should use his wrist mainly, and practise with each hand, and should never be otherwise that ashamed of a bungling cast, though he be alone, and none but the fish there to despise him. If the line falls the first time with a heart-rending splash all in a tangle, it is useless to make the next cast properly. The fish have found out the trick, and know too much to risk their necks in any such a noose.

A skillful fisherman can cast almost any length of line, but practically, fifty feet, counting from the reel, is all that can be used to advantage. Some English books say only the leader (gut links) should alight in the water; but this is nonsense, for at least one half the line must fall into the water, unless the fisherman stand on a high bank. With a long line the difficulties of striking and landing the fish are greatly increased; in striking, there is much slack line to be taken up; in landing, it requires some time to get the fish under control, and he is apt to reach the weeds or a stump.

That most excellent fisherman and learned scholar, Dr. Bethune, in his edition of Walton, Part II., page 73, says that candid anglers must confess that nine out of ten trout hook themselves; this may be so in streams teeming with fish, where a dozen start at once, frantically striving to be the first; but in clear, well-fished streams, not one fish in a thousand will hook himself; and on Long Island an angler would grow grey ere he filled his basket if he did not strike, and that quickly. Striking, to my mind, is by far the most important point, and hundreds of fish

have I seen escape for want of quickness. It must be done quickly but steer ly, and not with a jerk, as the latter is apt, by the double action of the rod, to bend the tip forward and loosen instead of tightening the line. There are days when fish cannot be struck, although they are rising freely; whether they are playing or over-cautious, I never could determine; whether they are not hungry or the water is too clear, they put man's capacities at defiance. Their appearance must be signalled to the eye, by that reported to the brain, which then directs the nerves to command the muscles to move the wrist; and ere this complicated performance is completed, the fish has blown from his mouth the feathery deception and has darted back to his haunts of safety. A fish will occasionally leap up, seize the fly, discover the cheat, and shaking his head, jump several feet along the surface of the water to rid his mouth of it, and do this so quickly as not to give a quick angler time to strike. How often fish are caught when they rise the second time, as then the angler is more on the alert, whereas on the first rise he was off his guard! How often fish rise when the angler's head is turned away from his line, or when he is busy at something else, and how rarely are they caught! In my experience it is so great a rarity, that it might almost be said they never hook themselves. In the language of youth, the only hooking they do is to hook off.

Dr. Bethune, page 97, says the rod should not exceed one pound in weight. Indeed it should not, and if it does, it exemplifies the old maxim, so far as to have a fool at one end. If we could fish by steam, a rod exceeding a pound and measuring over fourteen feet might answer be

the

the

ine.

hey

cau-

not

ities

the

the

and

fish

and

will

and

of

kly

ften

hen

rise

the

e is

ht!

ght

an-

ff.

ed

es,

at

2

61

well, but in these benighted days, while wrists are made of bone, muscles, cartilages and the like, the lighter the better. A rod, and if perfection is absolutely indispensable, a cedar rod of eleven or twelve feet, weighing nine or ten ounces, will catch trout. Cedar rods can only be obtained in America, and then only on compulsion, but this wood makes the most elastic rods in the world. They spring instantly to every motion of the hand, and never warp. They are delicate; the wood is, like woman, crossgrained, but invaluable if carefully treated. The reel should be a simple click, never a multiplier, but large barrelled, and fastened to the but with a leather strap. The line, silk covered with a preparation of oil, tapered if possible at each end, and thirty to forty yards long. The basket, positive, a fish-basket; the angler, comparative, a fisher-man.

Thus equipped, go forth mildly approving where the writer's opinions coincide with yours, simply incredulous where they do not. Ere you begin, however, you may wish to know the size of the fish you can catch, a matter of no little intricacy, for though we all know the size of the fish we have ourselves caught, there is always some one else that has caught larger. My largest trout, at the time this is written, was taken on the Marshpee River, on Cape Cod, and weighed three pounds and fourteen ounces. But it is said there were inland brook trout exhibited at the New York Club by a member in the year 1857, the two largest of which weighed cleaned six pounds and a half each. "I have my doubts." These fish should have weighed, when first taken, nearly eight pounds, double the size of any trout,

other than sea trout, I have ever seen or before that heard of. In my opinion, they were lake trout, caught, perhaps, from a small pond, and bright colored. It was claimed they were taken with the fly, which lake trout will not ordinarily touch; but, unfortunately, it was also said, that two weighing about five pounds each were caught and landed on one cast, and that this was done twice. Now confidence in our neighbors' truth is the framework of society, but there is a limit to human credulity, and catching two five pound trout at one cast, is at the very verge of that limit. No one. except by the most incredible good fortune, could kill two such fish on any ordinary fly-tackle, with any ordinary fiy-rod. The hooks would almost certainly tear out, and no strain could possibly be kept on the lower fish, which, by slacking up his line and then darting away, would probably go free. But great luck alone could enable a person to land two such fish; the lower one would never drown, being at perfect liberty-by the by, trout. never die in the water, they always save enough life for one final rush—and when the upper fish was landed or gaffed, the lower would go off in a jiffy. When a person claims to do this twice in a day, he must pe pronounced a lucky man indeed.

g

tl

st

86

th

eı

tl

sl

tl

We caught our big trout in the Marshpee, and we will tell you how we did it, though the words make us blush as we write them. We were young then, and it is to be hoped innocent; and having gone to Sandwich, on Cape Cod, in search of untried fields, discovered a jolly, corpulent landlord, named Teasedale, who, with his friend, Johnny Trout, so named jocosely, were the

that

ught,

t was

trout

t was

each

s was truth

nit to

ut at

one, d kill

ordi-

tear

lower

arting alone

lower

y the

save r fish

jiffy.

must

d we

ke us

nd it

wich.

red a

with

e the

fishermen of the neighborhood. That was before the stream was preserved for the benefit of the "Poor Indian," and poorer fishermen mulcted, as at present, in five dollars a day for the privilege of fishing. We drove to the stream, almost six miles, Teasedale enlivening the early June morning with snatches of hunting songs, and when there plunged recklessly in. Oh! but the water was cold—a dozen large springs poured in their freezing contents—and the blood fairly crept back to our hearts. The stream ran through a narrow defile, overhung with the thickly tangled vine and creepers, rendering a cast of the line impossible, and had worked its way far under the steep banks, making dark watery caverns, where the great fish could lie in wait for their prey. We removed the upper joint of our fly-rod, which was heavy and strong, and leaving the line through the last ring of the second joint, we put on a bait next to the fly in beauty and effect, the minnow. The water was freezing coldthe closely entwined boughs and leaves shut out the heavens above, and we were alone in the shadowy darkness with the tenants of the deep. The herring frequented the brook, and pursued by the large trout, darted in shoals between our feet. It is always a good sign when the herring are running, and we had excellent luck.

There are several ways of putting on a minnow, and if a person from ignorance or necessity must poach, let him poach well. There is the gorge-hook loaded with lead, the snell passed by the baiting needle at the mouth of the bait and out at the tail, bringing the hooks which are double at the mouth. It is highly recommended by some English books and their American imitators, but

in my experience is more useful, unbaited, for catching snapping mackerel, young blue-fish, than for any other purpose. There are the gangs of hooks, consisting of two or more small hooks back to back, one of which is inserted in the side or back of the bait, with another small one further up on the line, which is inserted on the lip or nose. It answers well for some kinds of fishing, and for large bait, but does not work well with small fish. The bait is not bent sufficiently, and does not spin readily.

Then there is the old-fashioned large single hook, thrust through the mouth, down the fleshy part of the back and out at the side, or out at the gills and back through the mouth into the side. The objection is that bait is apt to work down on the bend of the hook, or the trout is apt to take off the tail of the bait without

n

0

η

a

V

8

being hooked.

The other, and I think the best plan of baiting with dead bait, is the same as the last, with the addition of a small hook to thrust through the nose, that tends to retain the fish in its place, and allow the hook to be carried down further toward the tail, and still make the bait spin well. Minnow is never properly baited, unless it spins freely with every motion of the rod, and it must ever be kept moving. Of course the line must be armed with the swivel-trace, and in baiting with dead minnow a Limerick hook should be used, under any other circumstances never.

The dead minnow is preferable for rapid water. In ponds the minnow should be alive, in which case the Look is to be inserted in front of the dorsal fin, and the

any other
sisting of
of which
h another
serted on

gle hook, art of the and back n is that hook, or

t without

of fishing,

ith small

ting with
tion of a
tends to
o be carthe bait
unless it
it must
e armed
minnow
circum-

ter. In ease the and the

point may be left under the skin, or exposed, as the poacher pleases; I prefer it covered. It should not penetrate the flesh.

In the Marshpee I was using a single hook, keeping the bait well ahead of me, and creeping cautiously in the freezing water, watching the tiny float as it danced its merry course along, now borne swiftly over the rippling current, anon caught in an eddy and returning on its track, and then again resting motionless in some dark and quiet pool. It was scarcely visible beneath the dense shadows, and once in a while it would disappear from my straining sight; then followed a sharp blow with my rod. a fierce tug, a short fight between fear, despair and cunning on the one side, and strength, energy and judgment on the other. The prey once hooked, and skill there was not; it was a mere contention of two brute forces, in which the weaker went to the basket. An exhibition of skill or tenderness would have resulted in an entanglement round the nearest root, and the loss of fish, leader and hook. Still, there was excitement; the situation was romantic, the narrow gorge, the deep and rapid stream, the closely matted trees and vines, the everchanging surface of the current, which adds beauty to the tamest brook, all combined to lend enchantment to the scene. The fish were large and vigorous, fresh run from the sea, where they had, the Winter long, been a terror to the small fry, and early death to juicy and unsuspicious shell-fish. They fought fiercely for life and liberty, their homes and their household gods, and, alas! too often successfully. The risk of their escape added to the interest of the occasion, and the number of herring darting past gave continual promise of the presence of their arch enemy, the trout.

I had half-filled my basket, and had met with wonderful escapes and terrible heart-rending losses, mingled with exhilarating successes. I had made about half the distance, as well as we judged, and felt proud and happy as no king upon his throne ever did or will. My rod, though a fly-rod, was whipped every few inches with silk, and thus strengthened had stood the unequal conflict admirably. Still hoping for better things-who will not hope for the impossible?—I strode on. Below me the current made a sudden turn at a bend in the stream, and eddied swiftly under the overhanging bank. The brook almost disappeared in what was evidently a vast cavern deep in the bowels of that bank. In such watery palaces, amid the worn rocks, the tangled roots, the undulating moss and weeds, fierce eyed, monstrous trout delight to dwell. In such fortresses they await unwary travellers, and dark deeds are done in the congenial darknessoutrage, riots and murder stalk boldly about. migratory herring, harmless and unsuspicious, peers in and starts affrighted back, then peers again, at last ventures forward, and then, compelled by instinct to ascend, tries to dart hastily by; there is a sudden rush, a frantic struggle, a piteous look entreating mercy of pitiless hearts; for an instant the water is dyed with blood and then flows on, washing all trace of the deed away.

t d

C

la

W

it

h

W

li

1

I approach the den carefully, the feather-like float dancing merrily far ahead over the rippling tide, and as the line is paid out, swaying from side to side, close in continual he trout. th wonder-, mingled it half the and happy My rod, with silk, al conflict 10 will not ow me the tream, and The brook ast cavern ry palaces. indulating delight to travellers. arknessout. The us, peers n, at last istinct to den rush. mercy of ved with

ke float e, and as close in

the deed

front of the roots that fringe the bank, still not a sign; a step forward—the water carries it under the bank out of sight. I stand still, expectant; nothing yet; I creep cautiously to the very bank, and thrust my rod in the water, aye, under the bank its full length. What's that! Ah! what a tug! I have him, the monster, the Giant Despair of the wayfaring herring. How he pulls! I must have him out of his retreat; it is a great risk but my only chance. I strain my rod, my line, almost my arms, to the utmost; he comes, disdainful of surreptitions advantages, relying on his great strength; he has not taken protection of weed or stump. Now, my boy, do your utmost; yes, leap from the water, dart down with the current; I must give to you a little; no line can stand that strain; but you will never reach your lair again. Turn about, head up stream, that is what I want; there is a sandy bank above us, can I but reach it and land you there. Ah! you perceive the danger or have changed your mind; how you fly down stream with the slackened line hissing through the water behind you. Well, go, you will soon turn again. Already, beautiful, you have passed the bank; now, rod, be true; line, do your duty. The pliant ash bends, the upper joint has passed below the but in a wide hoop. comes, his head is up; if I can but keep it out of water! he dashes the foaming waves with his strong tail; one more effort; bend rod, but do not break; he is out of water; I have him. He is dancing on the yellow sand his last dance in mortal form; his changing hues glancing in the mild light, his fierce mouth gasping, his bright ides befouled with sand and dust, his glittering scales torn off by the sharp stones. His efforts grow fainter, the flashing eye dims, a few convulsive throes and he is quiet; the grim hand of death has pressed upon him.

and

gre

bet

str

the

the

rod

exc

the

hae

lan

the

rea

ree

the

my

tro

to

fis

lat

ey

mo

Wa

the

the

WE

80

on

los

ab

w]

He is indeed the prince of monsters, the paragon of giants; so thick, so deep, with so small a head for so large a body; such brilliant hues: the fins so red, the blue and carmine spots so numerous and delicate. I wash him off and stand gazing at him in my hand regardless of further sport. I have captured the king, and care not to follow his subalterns. I lay him gently in my basket; he will not lie at full length. I cover him with moss, filling the little room left, and forcing my way through the overhanging bushes, and, reaching the broad light of day, proudly await the arrival of my companion. Then the moss is carefully removed, and the beauties of my darling are unveiled, and flash and gleam in the sunlight.

There are several ways of landing a trout, but not all equally sportsmanlike. Large trout may be gaffed, small ones landed in a net, and where neither of these means is at hand, they must be dragged out of water, or flirted up among the bushes, according to the taste of

the angler and the strength of his tackle.

A tyro was once fishing on the same boat with me, using bait, when he struck his first trout. One can imagine how entirely misspent had been his previous existence, when it is said he had never taken a trout, no, nor any other fish before. It was not a large fish; such luck rarely falls to the share of the beginner, and in spite of what elderly gentlemen may say to the contrary, an ignorant countryman, with his sapling rod

ainter, l he is im. ron of for so ed, the ste. I hand king, gently cover forcing aching of my d, and sh and

not all gaffed, f these ater, or aste of

th me, ne can revious trout, re fish; er, and e conand coarse tackle, never takes the largest fish nor the greatest in quantity. Were it otherwise, sportsmen had better turn louts, and tackle makers take to cutting straight saplings in the woods. My companion, nevertheless, was not a little surprised at the vigorous rushes the trout made to escape, but his line being strong and rod stiff, he steadily reeled him in. Great was the excitement; his whole mind was devoted to shortening the line, regardless of what was to be done next. We had a darkey named Joe with us to row the boat and land the fish, and our luck having been bad during the morning, he was delighted at this turn of affairs, and ready, net in hand, to do his duty. The fish was being reeled up, till but a few feet of the line remained below the top, when, with a shout of "land, Joe, land him," my companion suddenly lifted up his rod, carrying the _ trout far above our heads. There it dangled, swaying to and fro, bouncing and jumping, while the agonized fisherman besought the darkey to land him, and the latter, reaching up as far as he could with the net, his eyes starting out of his head with wonder at this novel mode of proceeding, came far short of his object. Never was seen such a sight; the hopeless despair of my friend, the eagerness of the darkey, who fairly strove to climb the rod as the fish danced about far out of reach. What was to done? The line would not render, the rod was so long we could not reach the tip in the boat; and the only horrible alternative appeared to be my friend's losing his first fish. The latter, however, by this remarkable course of treatment, had grown peaceable, and when he was dropped back into the water, made but

feeble efforts, while my companion, as quietly as he could, worked out his line till he could land him like a Christian. Great were the rejoicings when the prize earned with so much anxiety was secured. That is the

way not to land a trout.

One afternoon of a very boisterous day, I struck a large fish at the deep hole in the centre of Phillipse's Pond, on Long Island. He came out fiercely, and taking my fly as he went down, darted at once for the bottom, which is absolutely covered with long, thick weeds. The moment he found he was struck, he took refuge among them, and tangled himself up so effectually that I could not feel him, and supposed he had escaped. By carefully exerting sufficient force, however, the weeds were loosened from the bottom, and the electric thrill of his renewed motion was again perceptible. He was allowed to draw the line through the weeds and play below them, as by so doing they would give a little, while if confined in them he would have a leverage against them, and could, with one vigorous twist, tear out the hook. When he was somewhat exhausted, the question as to the better mode of landing him arose. The wind was blowing so hard as to raise quite a sea, which washed the weeds before it in spite of any strain that could be exerted by the rod, and drifted the boat as well, rendering the latter almost unmanageable, while the fish was still so vigorous as to threaten at every moment to escape. I besought the boatman, who was an old hand and thoroughly up to his business, to drop the boat down to the weeds and let me try and land my fish with one hand while holding the rod with the other. He knew the dangers of such a

y as he im like a he prize at is the

k a large Pond, on g my fly which is moment em, and not feel y exertoosened renewed to draw n, as by fined in l could. hen he better ving so weeds ted by e latter gorous sought hly up ds and olding such a

course, and insisted upon rowing slowly and carefully for shore at a shallow place sheltered from the wind, although I greatly feared the hook would tear out or the rod snap under the strain of towing both weeds and fish; once near shore, he deliberately forced an oar into the mud and made the boat fast to it, and then taking up the net, watched for a favorable chance. He waited for some time, carefully putting the weeds aside, until a gleaming line of silver glanced for a moment beneath the water, when darting the net down, he as suddenly brought it up, revealing within its folds the glorious colors of a splendid trout. That was the way to land a trout under difficulties, although I still think I could have done it successfully by myself.

Generally, the utmost delicacy should be shown in killing a fish, but there are times when force must be exerted. If the fish is making for a stump, or even weeds, he must be stopped at any reasonable risk of the rod's breaking or the fly's tearing out. A stump is the most dangerous; one turn round that, and he is off, leaving your flies fast probably in a most inconvenient place and many feet below the surface of the water. remember the oft-repeated maxim of a friend of the writer's, who has been with him many a joyous fishingday, that "One trout hooked is worth a dozen not Small trout are more apt to escape than large ones, because the skin round the mouth of the latter is tougher. With either, however, there is risk enough, the hook is small, and often takes but a slight hold; the gut is delicate, and frequently half worn through by continual casting.

Fish are, in a majority of instances, hooked in the corner of the upper jaw, where there is but a thin skin to hold them; by long-continued struggle, the hole wears larger, and finally, to the agony of the fisherman, the

hook slips out.

There are occasions when force must be exerted, and then good tackle and a well-made rod will repay the cost. At dusk one night I cautiously approached the edge of a newly-made pond that was as full of stumps as of fish, both being about the extreme limit, and casting into the clear water, struck a fine fish of three-quarters of a pound. Not one minute's grace did he receive, but I lugged and he fought, and after a general turmoil I succeeded in bringing him to land, in spite of weeds and stumps and twigs, which he did his best to reach. The same was done with seven fish after a loss of only three flies, and with a rod that weighed but eight ounces.

A rod is not so apt to break from a fair strain as from a short twist; of course, if you strike a large fish as you raise to cast, or catch in the bushes behind you when your line is extended, any rod may break. This, however, rarely happens, and you are as likely to break the tip by trying to pull the line through the rings with your hand, or by lifting a small trout out of water and swinging it in past you, as in any other way. In drawing a fish to shore when you have no landing net, step back and bring the strain evenly on your rod, and it will rarely give way. If you find the fish takes down the current and you are unable to hold him, follow him if you can, and if not, point your rod toward him and bring the strain on the line. The hook may tear out, or the gut may break,

in the hin skin ole wears nan, the

rted, and the cost. edge of a s of fish, into the ers of a re, but I oil I suceeds and ch. The aly three

as from
h as you
ou when
his, howeak the
ith your
winging
a fish to
ck and
ely give
ent and
an, and
train on
break.

or even the line may be lost, but you will save your rod, while otherwise you would probably lose both.

In landing a fish, wait till he is pretty well exhausted, bring his mouth above water and keep it there till he is drawn into the net, and warn your assistant to remove the net at once if he gets his head down. By diving after him with the net, the assistant would certainly not catch the fish and might tangle one of your other flies. The fish should be led into the net, and the latter kept as still as possible; he knows as well as you do what it is for, and if his attention is drawn to it, will dart off as madly as ever.

There are occasions and situations where a fly cannot be used, and a minnow—called down East, from the Indian name mummychog, a mummy-cannot be obtained. such cases it becomes necessary to fall back upon first principles. A grasshopper, twitched along the surface of the water in a way called skittering, is an effective bait, although an imitation grasshopper, as well as an imitation minnow, does not answer and will not deceive trout. Salmon and trout roe are used, and it is said, contrary to the writer's experience, with great success. Gentles, which are grubs hatched in meat that has been flyblown, are a favorite bait in Europe; but, in spite of their beautiful name, are horrible objects and not in vogue with us. Caddies, or the larvæ of the Phryganidæ in their cases, are also in use there, but not here. We must, therefore, have recourse to the angleworm.

The finest worms are to be found in tanyards; they should be placed on the top of damp moss, left for a

night or two to work themselves clean, and then placed in other moss sprinkled with milk. They become strong, light colored and lively, and should be threaded on a fine hook by passing the point in at the head of the worm and out half-way down the side; then in, half up the side of another, and forced nearly to the head. Worms, if cast as in fly-fishing, are very attractive, and will frequently kill an immense number of fish. There is much skill in casting so as not to tear off the bait, and yet to cover an extent of water

In rapid streams, whether with bait or fly, always fish down stream; there is less noise, the line is kept taught, the fly looks more natural, and unless the wind is strong against you, it will be much easier and pleasanter fishing. Move the bait continually; keep it in motion under all circumstances; this is the great secret of bait-fishing.

I have also heard of shrimp preserved in whisky being used, and think they might answer for fish that have just run from the salt water; but as frequent experiment with the live shrimp has proved their inferi-

ority to minnow, I have little faith in them.

The trout is admitted to be the most beautiful of all our fish; not so large nor powerful as the salmon, he is much more numerous, abounding in all the brooks and rivulets of our northern States. He lives at our very doors; in the stream that meanders across you meadow, where the haymakers are now busy with their scythes, we have taken him in our early days; down yonder in that wood, there is a brook filled with bright, lively little fellows; and away over there we know of pools where there are

splendid ones. Who has not said or thought such words as he stood in the bright summer's day under the grateful shade of the piazza running round the old country house where he played, a boy?

He does not make the nerves thrill and tingle like the salmon, he does not leap so madly into the air nor make such fierce, resolute rushes, he has not the silver sides nor the great strength; but he is beautiful as the sunset sky, brave as bravery itself, and is our own home darling. How he flashes upon the sight as he grasps the spurious insect, and turns down with a quick little slap of the tail! How he darts hither and thither when he finds he is hooked! How persistently he struggles till enveloped in the net! And then with what heart-rending sighs he breathes away his life! Who does not love the lovely trout? With eye as deep and melting, skin as rich and soft, and ways as wildly willful as angelic woman-who loves not one loves not the other. Who would not win the one cares not to win the other. Strange that man should "kill the thing he loves;" but if to possess them kills them, he must kill. If women, like the Ephemeræ, died as they often do in their love, we should still love them. Such is man; do not think I praise him. No one kills fish for the pleasure of killing; but they cannot live out of water, nor we in it, therefore one of us must die. We would willingly save them; we have tried to bring them home alive, but it is not possible. They are too delicate. With what a feeling of affection we look upon a beautiful fish as he lies upon the moss, the sunlight sparkling from his colors fading in death! with how deep a sadness we see his strength

Vorms, ill fres much yet to ays fish taught,

strong

er fish-

motion

placed

strong,

a fine

worm

up the

whisky
that
equent
inferi-

all our s much ivulets ors; in ere the have wood, ellows; ebbing away, his breath growing shorter, his struggles fainter! And when he has grown stiff in death, how proudly sad we feel over a noble career cut short too soon!

The man who kills to kill, who is not satisfied with reasonable sport, who slays unfairly or out of season, who adds one wanton pang, that man receives the contempt of all good sportsmen and deserves the felon's doom. Of such there are but few.

We seek this, our favorite fish, in early Spring, when the ice has just melted, and the cold winds remind one forcibly of bleak December, and when we find him in the salt water streams, especially of Long Island and Cape Cod; but we love most to follow him in the early Summer, along the merry streams of old Orange, or the mountain brooks of Sullivan County. Where the air is full of gladness, and the trees are heavy with foliagewhere the birds are singing upon every bough, and the egrass is redolent of violets and early flowers. There we wade the cold brooks, the leafy branches bowing us a welcome as we pass—the water rippling over the hidden rocks, and telling us, in its wayward way, of the fine fish it carries in its bosom. With creel upon our shoulder and rod in hand, we reck not of the hours, and only when the sinking sun warns of the approaching darkness, do we seek, with sharpened appetite, the hospitable country inn, and the comfortable supper that our prey will furnish forth.

The brooks of Long Island, especially on the southern shore, abound with trout. But they are few in comparison with the hordes that once swarmed in the truggles th, how hort too

ed with season, the confelon's

g, when ind one him in nd and e early , or the ie air is liageand the here we ig us a hidden ine fish ler and v when ess, do

southn comn the

ountry

ill fur-

streams of Sullivan and Orange counties, and in fact all the lower tier of counties in this State, before the Erie Railroad was built, and opened the land to the crowd of market men. I am proud to say I have travelled that country when it took the stage coach twelve hours to go twenty-four miles, and when, if we were in a hurry, we walked, and sent our baggage by the coach. Now you are jerked along high above our favorite meadows, directly through our wildest hills, and often under our best streams, at the rate of forty miles an hour, and yet people call that an improvement. As well might you lug a man out of bed at night, drag him a dozen times round his room, and fling him back into bed, and say he was improved by the operation. No one wants to be lugged out of bed, precisely as no one wanted to travel beyond Sullivan County; the best shooting and fishing in the world was to be found there.

When the railroad was first opened, the country was literally overrun, and Bashe's Kill, Pine Kill, the Sandberg, the Mon Gaup and Callicoon, and even Beaver Kill, which we thought were inexhaustible, were fished out. For many years trout had almost ceased from out of the waters, but the horrible public, having their attention drawn to the Adirondacks, gave it a little rest, and now the fishing is good.

If you go there, stop at George Durrance's, in Wurtsborough, and if he boasts of fishing, as he will, ask him whether he remembers going to the Sandberg one day, many years ago, to show a Yorker how to catch trout.

It was a bright sunshiny day, and as we drove up to the edge of the bank, above a clear, rapid, sparkling stream, I

saw a large trout leap heavily out of water, where the current swept with a swirl past a high rock. As I rigged up my flies, George borrowed my knife to cut a pole, as he did not have much faith in "them things," and while he was gone, I crept cautiously up behind the rock, and cast over the further projecting point. I could not see my flies alight, but heard a splash, and striking felt I had a splendid fish. He fought bravely, but by keeping him in the upper part of the pool, the lower end by the rock, was not disturbed. After some trouble, I landed him, having no net. Then approaching the rock with the same caution, the performance was repeated, only this time my rod was broken in endeavoring to land the fish, and it was necessary to find George and obtain my knife.

I discovered him under the bushes on the bank, in a miserable state—it was oppressively hot—his rod was a long sapling, and naturally heavy—the sky and water were clear, and the fish would not touch the worm, which we could see from where he sat. He had only taken two miserable little fish. He did no better all day, and while I rose and killed fish after fish, he did not take another one. When afternoon came, and he impatiently urged me away, my basket was so full it broke down, and he had his two fish. On reaching his house, the boys spread our respective takes out on a board, and to George's deep chagrin exhibited them to the entire village. He has not taught a "Yorker" how to catch trout since.

So much for your countryman, with his bed-cord for line and stick for pole, and yet George was admitted to

be the best fisherman in that neighborhood. A person residing near a stream, and having fished it from infancy, and acquainted with its every pool, has an immense advantage over a stranger; but there was only one countryman ever beat me trout-fishing, and he, after taking me to the stream, slipped off and waded it down ahead of me.

All the streams that, taking their rise in or near this State, flow into the Delaware or Susquehanna, are filled with trout; the Tobyhanna, the Bushkill, Broadhead's Creek and a thousand others, that the Erie and Lackawanna railroads now make easy of access. While Hamilton County, Essex, the region of the Adirondacks, Clinton County with its Chateaugay and Chazy Lakes, and the Saranac River, and Franklin County with its innumerable ponds, offer all the sport that the heart of man can desire. All the streams of New England, especially in the neighborhood of the White Mountains, are filled with small trout; while the State of Maine, in Moosehead Lake, the Kennebec, and its other fine rivers and lakes, affords the finest brook trout-fishing in the world.

The angler may, therefore, seek his darling close to his own summer-house, or may drop in at any of the many well kept taverns on the south side of Long Island, where he will find every comfort and most of the luxuries of the day, will meet other enthusiastic fishermen, who will relate varied and interesting experiences, and exchange views and fancies with him, and will prove themselves, if real fishermen, the most obliging and unselfish gentlemen in the world; or he may seek the lenely hotel at Lake Pleasant or Moose-

I had a ing him he rock, ed him, ith the nly this the fish, ain my

the cur-

gged up

as he did

e he was

ind cast

was a water worm, donly ter all he did nd he full it ng his on a em to ' how

d for ed to

head Lake, where he will still find comfort in a rougher way, and wonderful good sport; or he may boldly strike out into the trackless woods, commit himself to his birch canoe and trusty guide, and then, if he be made of the right stuff, I promise him such happiness as he will never forget—merry innocent days and dreamless nights, health in every limb, and contentment in his mind.

There is no fish more difficult to catch, nor that gives the true angler more genuine sport than the trout. His capture requires the nicest tackle, the greatest skill, the most complete self-command, the highest qualities of mind and body. The arm must be strong that wields the rod; the eye true that sees the rise; the wrist quick that strikes at the instant; the judgment good, that selects the best spot, the most suitable fly, and knows just how to kill the fish. A fine temper is required to bear up against the loss of a noble fish, and patient perseverance to conquer ill luck.

Hence it is that the fisherman is so proud of his basket of a dozen half-pound trout, he feels that any one more awkward or less resolute could not have done so well. He feels conscious that he does not owe his success to mere luck, but has deserved the glory. He feels that he has elevated himself by the very effort. Do not suppose I mean that there is no skill in other fishing; there is in all, even in catching a minnow for bait, but nost of all in trout-fishing.

CHAPTER III.

SEA TROUT.

Salmo Trutta Marina—Salmon Trout—White Trout. This fish corresponds precisely with the description given by Dr. De Kay of the Speckled Trout, Salmo Fontinalis, except in the following particulars:

I can find no teeth in the vomer or central part of the roof of the mouth any more than I can find them on the common brook trout, and I have examined great numbers of the latter for the purpose. The pectorals are nearly a transparent white, slightly tinged with red at the origin of the rays, except that the second ray is darkish. The first ray of the ventrals is yellow, the second dark, the third and the others orange fading into white; the origin of the ventrals is directly under that of the first dorsal. The first ray of the anal fin is orange, the second and others dark green, growing lighter toward the tail, the origin of the second and third rays being yellowish. The scales are very small, imbedded in the skin, and there are neither scales nor defined spots on the gill-covers. The fin-rays are as follows:

Br. 12; D. 13; P. 13; V. 8; A. 10; C. 196.

The branchial rays seem to differ sometimes, the same fish having eleven on one side and twelve on the other, and the highest one is a half ray or small plate. The

nights,
l.
t gives
. His
ill, the

ougher strike s birch of the

l never

ies of wields quick selects at how ear up erance

basket more well. ess to s that ot supshing; it, but anal, properly speaking, has eleven rays, but the first is so delicate and so lost in the fleshy part of the fin, that

it is hardly distinguishable.

The coloring of these fish differs greatly from that of the common trout, but it is universally conceded that color is no test or distinction of species. When fresh run from the sea, and when still inhabiting the salt water, they are gloriously brilliant; their backs a liquid bluish green, the under part flashing like molten silver. The spots and scarlet specks on their sparkling sides are of a purer tone, and the lower fins more slender and delicate.

They are found in the bays of Prince Edward's Island, in the harbors of New Brunswick, and in all the gulf and river of St. Lawrence and its lower tributaries. In Frank Forrester's "Fish and Fishing," a letter from Mr. Perley, the British Commissioner of Fisheries, is quoted, page 123, in which he says these fish do not ascend into purely fresh water. In this I am reluctantly, out of respect to his great experience as a fisherman and high standing in scientific attainments, compelled to differ from him. I have unquestionably taken these fish far above tide water, and have the best authority for saying that usually, if not invariably, the larger trout at least ascend to the head-waters of the mountain streams to spawn. I venture to say that no large sea trout are taken in the tide water after the last, and rarely after the first of August. It is probable that he has been misled by the fact that there are trout in the same streams that never descend to the sea, and there is a marked difference in color between them and their

a

brethren, although I believe they are the same fish. For the correctness of these views, reference can be made to the experience of many authorities that would be satisfactory to one that I esteem and respect as much as I do my excellent friend and brother of the angle, Mr. Perley. While mentioning his name, it will not be amiss to tender him, in the name of the fishermen of the United States, our thanks and grateful acknowledgments for the invariable kindness, courtesy and good humor with which he has answered the numerous questions er and entailed upon him by his mention in Frank Forrester's "Fish and Fishing," and the valuable aid and advice he sland, has furnished the wanderers from the States in their search for piscatorial happiness. Combining as he does the heartiness of an Englishman with the sociability of our own country, we are proud to claim him, while he remains in our vicinity, as half an American. But let me, at the same time, suggest to my countrymen, that there is a limit even to the best of tempers, and that, although each one may only put a few questions

burdensome.

In addition to the positive fact of taking sea trout above tide water, it is to be remarked as a habit of all trout to ascend in summer to the cool sources of the springy brooks, and our common trout will invariably be found, after the warm weather is at its height, either in the rivulets that feed the ponds where they dwell in winter, or at the head-waters of the ponds. The sun's rays are so powerful that they affect any sheet of open .

and take up a little valuable time, the total combined

may be annoying, inconvenient, and even excessively

first is , that

hat of 1 that fresh e salt liquid silver. es are

gulf s. In m Mr. uoted. d into ut of high differ sh far aying least

ms to it are after been same is a

their

vater, especially the harbors and bays of the ocean, and the fish will not live there, but withdraw to cooler regions. A remarkable case of this kind fell under the writer's observation at Masapequa Pond, which is universally admitted to be the best preserve on Long Island. It is rather small, and quite shallow except in the channel, and being entirely unsheltered, is liable to become heated in hot weather. The spring had been remarkably mild, and in the middle of May, after a number of days that reminded one of June, I visited Masapequa, and, although the weather was favorable and a lively ripple darkened the water, only two trout were killed in the entire morning. I was much discouraged and surprised, until happening to get my flies caught, I put my hand into the water and found at milk-warm. The explanation was simple, and I at once told the proprietor, who had been more astounded than myself, that the fish had run out of the pond into the brook; and there, sure enough, we shortly discovered them lying in the deep pools in shoals.

If they cannot retire to cool, fresh, aërated water, they will perish, as happened one dry, warm season in a pond at Oyster Bay, which, although well filled with trout, had no extensive head-waters. The fish crowded round the flume, hardly disturbed by being touched with a stick, remaining motionless, and evidently suffering. They died and were picked up by scores.

If sea trout do not ascend the fresh streams, where do they spawn? From the habits of all the salmon tribe, w. know they must have a current of pure and cool water to vivify the eggs, and they certainly cannot find , and

cooler

r the

uni-

land.

chan-

come

nark-

er of

equa,

lively

killed

and

I put

The

rietor,

e fish

, sure

deep

, they

pond

trout,

round

ith a

ering.

re do

tribe.

cool

find

this along the shores and pays. Their eggs must be deposited on a gravelly bed and not on sand, and as the bottom of the salt water, which is purely sand, even if appropriate spawning ground, is peopled with all sorts, shapes and sizes of creeping, crawling and burrowing things, from sand-worms to sea-eggs, the spawn would be utterly destroyed long before it could come to maturity. If, in spite of all these difficulties, the eggs should hatch, the young fry being entirely helpless for thirty days, and little able to take care of themselves afterward, would be annihilated by their elder brethren or the first sea fish that came along. Young trout, in their appropriate localities, hide carefully in little spring rills and close along shore for months after they are hatched, and not till well grown and active do they trust themselves in the deeper places among the larger fish. Nature has taught them that the latter have an excessive fondness for them.

Whether sea trout spawn earlier than brook trout, I do not know, but very possibly they may, as in cooler countries fish usually spawn earlier than in warmer ones. However, in August the roe is not developed to any great extent; no more so, apparently, than with us, and, although the Canadian Winter sets in earlier than ours, trout do not fear the cold. The regions they inhabit being extremely difficult of access in the freezing season, this question may remain some time unsolved.

Whether sea trout should be ranked as a distinct species, or whether there are any different species of trout in America, has been a serious question. It is a great misfortune that every naturalist, in his eager

da

st

di

ha

sil

pa

tro sm

fin

ma the

spa

bea wh

jav

Αt

and

ful

bot

and afte

pec a b

silv

app

endeavor to discover new species and originate new names, has caught at the slightest distinctions in appearance, which are often only due to food or water, and has immediately dubbed the fish a knight and endowed him with a new name-frequently some horrible Latin perversion of his own. Real distinctions are those permanent ones that no change of food and water can affect, nor the chance influence of a few shell-fish or a muddy bottom. There are distinctions between these trout and brook tront, of color, comparative size of different parts of the body, formation of the head and fins; but not more so than one often meets with in fishing any of the streams of Long Island that communicate with the sea, or even in the different streams of the wild woods. The sea trout of Canada certainly do far excel the ordinary trout in size, being taken, with the fly, weighing nine pounds, and the ordinary average being from three to four; but otherwise they seem to have no permanent peculiarity that should distinguish them from the common brook trout. All other distinctions fade after the trout have been for some time in fresh water, and a late run of sea trout differs far more from those which have ascended the streams a month earlier than the latter from the brook trout. Indeed, some sea trout have become domesticated in the fresh water, and never returning to the sea, have settled down, although often f great size, into the ordinary trout.

In Stump Pond, on Long Island, and the adjacent waters, are four different varieties of trout: the old-fashioned Stump Pond Trout, with a black mouth, a long, thin body, a big head, and a wolfish, hungry

look; the Salt Water Trout, with a small, sleepy head, a deep body, and a rich coloring, small fins and red flesh; the Brook Trout, long, narrow, brightly marked, gracefully shaped and lively; and a trout which has appeared in a new pond, scarcely yet completed, with a dark, strong coloring, very black on the back, a thick, stout body, and a well proportioned head. Any one can distinguish these fish at a glance, but must they each have a different name, and a Latin one at that?

The fresh run sea trout of the North have beautiful silver sides, almost as bright as a salmon's, and in this particular, at least, differ from the salt water loving trout of Long Island and Cape Cod. Their heads are small, delicate, and exquisitely shaped, and their lower fins are small and almost transparent. The heads of the males are larger, and the lower jaw more hooked than those of the female, and these differences increase as the spawning season advances. The head of the female bears a comparison to that of a modest, refined lady, while that of the male resembles the big head and ugly jaw of the struggling, quarrelling, but protecting man. At times their flesh is a bright red, often a dull yellow, and rarely whitish. The shape of their bodies is graceful and broad across the back, to a greater degree in both particulars than the sea run trout of Long Island and Massachusetts. But as they ascend the rivers, and after they have been some time in their new abode, these peculiarities diminish, the color of their backs turns from a beautiful green to a dull black, the splendor of their silvery sides fades, and the heavy spots and roseate tinge appear; their translucent fins grow opaque and strong

has him perrma-fect.

and parts; not f the

The inary nine ee to nent com-

late have atter have ever

cent oldh, a from greater use in the swift current; their shape even seems to alter, and they are altogether unlovely by comparison with their former selves. Are they, therefore, "like Cerberus, three gentlemen at once," and entitled to three distinct appellations, or are they simply our dearly loved old friends, the Speckled Trout?

ł

j

T

a

Bi

al

th

W

of

CO

of

th

riv

dr

the

an

inv

boo

itse

all

tro

The change in appearance of these fish cannot be refuted by the suggestion that the ordinary brook trout ascend the rivers and mingle with those of the sea, because the latter are to be caught in every stage, from the brilliancy of the fresh river fish to the dull colors of the oldest inhabitant. And it will be noticed that at the heads of the rivers a bright-colored fish is rarely met with, although they must be, with few exceptions, all sea trout.

The best trout rivers of Canada are troublesome to reach, difficult to ascend, and seldom attempted by any but the salmon fisher. To the latter, the trout, attractive as he seems to us, is a trial and a nuisance. Abundant and voracious, he often rushes in advance of the lordly salmon, seizes the fly, and then discovering his mistake, by his struggles disturbs the pool, ruffles the fisherman's temper, and frightens the larger game from its equanimity. He is therefore little noticed by the frequenters of the headwaters, except to be denounced, and his delicate peculiarities seldom considered and less esteemed. He is principally sought in the tide water along the shores, or from boats in the open bays, but rarely followed to his summer home. The statements, therefore, of Canadian fishermen with regard to him must be cautiously received and carefully weighed; their experience may not have been sufciently extended.

even comefore, titled y our ot be tront ea, beom the of the at the et with, a trout. o reach, but the e as he nd voran, seizes ruggles er, and He is e headpeculis princior from summer hermen

nd care-

een suf-

Whatever be his name, he is a beauty, the fairest of the children of the sea. There are others of more variegated colors, of gaudier hues, of more slender shape, but the trout is lord of all. He is the pet of the true fisherman, whether taken by the name of Salmo trutta in the bays of Canada, weighing fifteen pounds, or as Salmo fontinalis, in the mountain streams of Vermont, reaching not one quarter as many ounces. sportsmen-and none others seem to fish-take the sea trout solely with the fly. In June, and earlier, they are found in the tide waters, and there prefer gaudy flies. The scarlet ibis, or curry-curry of South America, dressed as it is ordinarily done, or diversified by a little gold or silver tinsel wound round the body, or indeed the entire hook wound with tinsel alone, is by many preferred to all other flies; but the red hackle, the golden pheasant, the professor, the grey drake, and in fact any gay fly, will meet with approval. A much admired fly is made of a red body and yellow wings; but the more sober colors must not be forgotten nor neglected, they are often more successful than their gaudy relations. the season advances, and the fish ascend the clear, cool rivers, especially if the water be low and the weather dry, the sober flies are preferable. Then the cow-dung, the alder-fly, the turkey-brown, the winged black ha 'le, and in fact all the ordinary flies, are in demand; a fly invented by myself, of a blackbird's wing and a claret body and legs, and called the early fly, has often proved itself uncommonly killing; and indeed all the flies usually employed in other waters are appropriate for the sea trout in Canada.

Neither does the size of hook differ from that ordinarily in use; it should average about a number nine, with a few somewhat larger for rough water. It is rarely desirable, on account of the enormous size of the fish, to use more than one fly at a time, and generally the trout will soon remove the difficulty by reducing them to that number; but at times, when fish are shy, they seem to be attracted by seeing several. In order to kill the largest possible quantity, without any regard to humanity or sportsmanship, a heavy fly-rod is desirable, as much time is lost in landing them with a delicate rod.

For many hundred miles below Quebec, the majestic St. Lawrence rolls its transparent waters in a finity surge toward the ocean. Forward and backward lawrest the mighty tide, piling up the waters eighteen and twenty feet; but the steady current keeps on its course toward the gulf. Into this wonderful stream, that can only be likened to an arm of the sea, at every few miles debouches from the granite hills a river, more or less extensive and more or less rocky and turbulent. These rivers rise on the mountain tops, cold and clear, and thunder down over falls and rapids, through chasms and gorges split in the eternal rock, till they leap, tumble or crawl into that outlet of a thousand lakes, the highway of the Canadas.

1

Ιa

80

a

ro

ar

sh

pe

SO

ha

tai

en

sis

of

ag

These streams the salmon and trout ascend, there to disport themselves, there to make love, prepare their nests, and perpetuate their species. The water is cool, running from the frigid regions of the north or supplied by ity springs, and the bottom offers every variety of

spawning beds. There is the stony pool for the salmon, the pebbly one for the trout, and never do the two spawn, and rarely even live, in the same. The pool where the salmon lie is deep and rapid, with a bottom composed of dark limestones averaging about the size of a bantam's egg. While the trout hide in a sluggish pool, and often one worn away by the water and hollowed from a clay bank. It is a tradition, but one by no means well substantiated, that trout never eat young salmon, nor salmon young trout. As trout are more fond of their own species than almost any other delicacy, it is not probable they would be fastidious about swallowing a nice, juicy little salmon.

The country through which these streams run is very peculiar: rough hills of granite rise almost perpendicularly from the edge of the water, many hundred and sometimes many thousand feet. Their sides are bare and bleak, and if adorned at all with verdure, it is with a stunted pine and spruce, that only half hides the white rock beneath. The streams wind in tortuous course among the crags, and slowly gain a high elevation. These bare, unprofitable hills extend back from the north shore of the St. Lawrence as far as the foot of man has penetrated, and only at long intervals by the shore of some of the larger rivers, where forty centuries of storms have worn away and washed the detritus from the mountain into some little bay, have half civilized beings been enabled to build rough cabins and glean a scanty subsistence. Thus are these waters, the home and nursery of the trout and salmon, protected forever by nature against the pervading destructiveness of man. Judicious

n and course at can miles or less These r, and ms and able or ghway

ordi

nine,

It is

f the

rally acing

shy, ler to

rd to

licate

ajestic

ly

their to their cool, pplied ety of

laws have been passed and will be enforced by the Canadian government, and the American fisherman may find in neighboring waters what he will never again see in his own, these noble fish dwelling in abundance, and protected from worthless, wanton and unreasonable destruction.

It is a burning shame, a foul blot on the character of Americans, and tarnish on their reputation for far-sighted economy, that their only idea of the treatment of the wild game of the woods and waters seems to be total annihilation. "After me a desert," is their motto; and they never rest till, by planting snares and liming streams, they have caught the last partridge and poisoned the last fish. Thus have they already destroyed one of the most valuable resources of the country; the Hudson, the Connecticut, the Penobscot, and even the Kennebec, yield no more salmon, and we yearly pay to Canada enormous sums for what we once had, and might still have, in plenty on our own shores. years ago a person buying shad on the Connecticut River was required to take such a proportion of salmon. Now that the head-waters are covered with tanneries and saw-mills, and are crossed by dams without the simple expedient of a flume that the fish could ascend, and now that early salmon are worth a dollar a pound in New York market, where are the former denizens of the Connecticut?

r

u B

p

ol

is

al

ho

ol

pe th

All the timber cut on the streams would not pay for the damage done to the fisheries. In Canada the people have discovered, fortunately for them not too late, the importance of stringent protective laws. The nets can only be set within a certain distance, and cannot extend across the entire stream. In Lower Canada the net fishing terminates on the first day of August, and the rod fishing on the fifteenth of September, and spearing, the most cruel, unprofitable and injurious mode of destruction, is forbidden altogether.

na.

ay

868

ınd

ble

of

ted

the

otal

and

ing

poi-

yed

the

the

y to

ight

any

ticut

non.

and

nple

now

New

Con-

for

ople

the

can

About one hundred and twenty miles below Quebec the wondrous Saguenay pours its dark waters and fierce current into the placid bosom of the St. Lawrence. It is one of the natural wonders of our still new and scarcely explored country. Hills rise a thousand feet sheer up, and its waters descend a thousand feet deep at their base. The St. Lawrence, at its mouth, is only some thirty feet deep, but the bottom suddenly descends at the entrance to the Saguenay, and becomes from five hundred to a thousand feet in depth. The breadth of the Saguenay is so great that the grandeur of the mountains is lost to the eye, and the scenery is remarkable more for ruggedness than beauty. At the mouth of this river was the first station of the Hudson Bay Company, a little village called Tadousac, which is pronounced with the emphasis on the last syllable, and in that village stands the mission church of the Jesuits, the oldest in the country

Close to Tadousac, and almost adjoining at the back, is a still smaller village called L'Anse à l'Eau, and although great ships no longer lie at Tadousac, and the houses are fast falling to decay, and the good men of the olden days have long gone their last journey, and the trappers are never more seen around the famous station, and the glory of the Hudson Bay Company has departed,

the trout and salmon coast along the rocks and visit the inlets as they did when priests promenaded the natural terraces of Tadousac, and when the shortest road to the Northwest was up the Saguenay River. The trout care not though the iron horse has sprung two great leaps across the water that they live in, and know not that a woman, the only Catholic that can read, officiates as high priest in the sanctum of the woman-haters, the mission church of the Jesuits.

n ir

oi fo

cc

cu af

al

no

of

dr

an

spe

ser

go

and

the

nes

are

day

at

em

asc

mor

The St. Lawrence abounds with most delicious food for trout; there are acres of small fish; the sand eels crowd the bays yards deep, the sardines, the mullet, the capelin, the tommy cods, push and jostle their way along, while shellfish innumerable cover the sandy bottom. Flies swarm on the water, and the deep rivers in Winter and the cool streams in Summer constitute the

paradise of the salmonida.

Along the shores of the tide water, early in Spring the trout and salmon make their appearance, and wandering about pass the merry days of May, June and July in feasting and junketing, in visiting new scenes and tasting every variety of food, till instinct warns them the waters are falling, and they must hasten to their sylvan bowers and enjoy the pleasures of love and paternity. Then slowly, the largest first, they leave the tide waters and swarm up all the practicable streams, running the rapids and steadily advancing to their pebbly spawning beds, which kind nature appears to have prepared in the heart of these impassable mountains for their especial protection. Through all this season, June, July and August, the fishing is magnificent; they are in great

numbers, and of immense size; but after they have once left the salt water, the angler must accompany them in their ascent if he would continue his sport, and by day struggle in his canoe against the rapids, up which he hears them darting at night.

16

al

he

re

ps

8

28

he

od

els

the

ay

ot-

in

the

the

ing

in

ast-

the

ty.

ers

the

ng

the

ial

u-

eat

While the fish are still in tide water, and the fisherman is fishing from the rocks, the head of some bay into which flows a stream of fresh water, and the time of the lower half of the tide, are both desirable. The former as furnishing a variety of food, and the latter as contracting the fishing ground. The eddies of a swift current, and the hollows of a rocky bottom are both affected by the fish; although they are often found along a smooth sandy shore, chasing the minnows, and now and then dashing at a fly or sand-hopper thrown off the land. It is nothing unusual to capture a hundred fish in as few hours as it will require to land them, and often the only limit to the number will be the sportsman's humanity. They are a difficult fish to preserve; it seems sacrilegious to salt them; they are not good pickled in brine, and smoking is both injurious and troublesome. The fisherman, if he would not have them rot before his eyes, must put a bridle on his eager-

They run very large, sometimes above a dozen pounds, are often taken of five and six, and frequently a whole day's catch will average three pounds. They are found at the mouth and along the shore of every river that empties into the lower part of the St. Lawrence. They ascend the Saguenay, and are taken at and near its mouth in great numbers, and in fact everywhere in the

lower St. Lawrence and all its tributaries they abound. It would be more difficult to tell where not to find them than where to find them. But the best trout-fishing sea son is later, when they have followed the salmon and retired to the upper waters of the mountain streams, where they lie together in shoals, in the deep peols. Then they may be traced by the wake their motion leaves in the water; then may the fisherman, casting a long line and careful fly, pick the finest and go on fishing till heart and soul are satisfied. There, amid the . wild scenery, at the foot of the granite hills, by the shade of the stunted spruce, he may take his stand upon some point of rocks, near to a black pool, and deftly wielding the slender rod, may bring to the net one after another of the mighty denizens of the water. But even then, if he would take the mightiest he must prove himself a sportsman by keeping out of sight and casting far and straight. And when his sport is terminated by the declining day, or his ample satisfaction, and he meets his companions round the camp-fire, over a well cooked supper improved by a vigorous appetite, he will exchange experiences of the habits of fish or the arcana of the angler's art.

If, however, he loves the "wet sheet and the flowing sea," a nautical anomaly, by the way, he may pursue his prey in the open bays, and with a smart breeze and long line, and gaudy fly dancing from wave to wave, have great sport. Under these circumstances the fish are almost uncontrollable and must be often followed with the boat for a long way before they can be killed. It is gloriously exciting, the bright waters sparkling with

ıd.

m

ea.

nd

ns,

ls.

Z &

shthe

the

pon

ftly

fter

ven

im-

far

the

eets

ked

nge

the

ring

rsue

and

ave,

fish

wed

led.

vith

foam, the light boat leaping over the billows, the sky magnificent in its depth of blue, the fresh breeze cool and strong; and the fish just hooked, furious, vigorous and courageous, rushing hither and thither, plunging to the bottom or springing high out of water. Then the exciting chase as he takes off fortunately down wind, and exhausts all but the few last turns of line on the reel till it becomes a question of speed between him and the boat, and at last his final surrender and capture. Truly is it magnificent.

Rivière du Loup, a little Canadian village situated on the St. Lawrence, opposite the mouth of the Saguenay, is now connected with Quebec by railroad, and is only a day and a . alf distant from New York. It affords good accommodations, but there is no place anywhere on the Saguenay or at its mouth where the traveller can stop. The Canadians, although generally willing to offer such accommodation as they possess, are too dirty in their habits, and often too much beloved of creeping things to suit American taste. So that as there is little or no trout fishing at Rivière du Loup, the angler must make his arrangements for a comp-life, and would do well to descend the St. Lawrence in a pilot boat, which he can hire with a man and boy for two dollars a day, and stop at the mouths of all the streams that debouche into it. The river is over twenty miles wide, and he must look out for storms, as these boats are open and by no means good sea boats. At night he can go ashore, build a fire, put up his tent, and call into requisition the numerous luxuries this mode of travelling will enable him to carry.

A steamboat ascends the Saguenay twice a week, and he can either take it at Quebec or join it at Rivière du Loup, and by this means enjoy a trip through the bold scenery of that celebrated river, and can either return to Rivière du Loup, or take a pilot boat at L'Anse à l'Eau. There is a generous-hearted Englishman living at L'Anse à l'Eau, but he has been compelled to refuse admission to all strangers, as any infraction of that rule would have led to his being overrun.

Many of the streams of Lower Canada are leased to private individuals, and there are few good accessible salmon streams open to the public, but the sea trout fishing along the St. Lawrence and at the mouths of most of the streams is free to all. In Nova Scotia and New Brunswick, and at Prince Edward's Island, there is as yet no restriction, and both salmon and trout are the property of him who can catch them. Nowhere, however, can any salmon fishing or good trout fishing be had except by camping out. Canadian canoemen can be obtained, if not required to furnish canoes, for sixty cents a day, although the Indians, who are far superior, command over a dollar, and where the angler is unacquainted with the water he is to fish, he had better take the latter. They are, however, willful and exacting, and sometimes stubborn and troublesome, while the former are the best-natured fellows in the world, full of fun, song and frolic, but often too fond of the liquor case.

iı

8

in

ai

th

OU

ste

ab

mi

to

The best river of Lower Canada is the Mingan, but if it is not already leased it soon will be. It can be reached by steamer that leaves Quebec semi-weekly, stopping at

1

e

0

to

le

h-

st

W

28

he

w-

be

an

ty.

or,

C-

Ke.

g,

he

 \mathbf{of}

or

if

 \mathbf{ed}

at

Gaspi, at Bathurst on the Bay de Chaleurs, which is near Nipisiquit, the best river of New Brunswick, at several places along the route, and finally at Shediac, whence there is a communication with St. John or Halifax. The steamer running at the time this is written is the Arabian, and leaves Quebec every alternate Monday. The Nipisiquit is within a few miles of Bathurst, where there is good accommodation, and boatmen can be obtained without difficulty, or the fisherman may continue his travels to Dalhousie, at the mouth of the Restigouche, and try either that or the Matapediac. Another mode of reaching the fishing grounds, is to go to St. John, and thence by steamboat to Fredericton, and cross over by land to the Miramichi, at Boiestown, where there is excellent trout and fair salmon fishing. A list of the distances from Quebec, together with further instructions, is given under the head of salmon fishing, as the rivers we have mentioned are properly salmon rivers.

The sea trout fishing is so fine, that many persons prefer it to taking the larger salmon, and can be indulged in almost anywhere along the shores of New Brunswick, Nova Scotia, Prince Edward's Island, Newfoundland and Lower Canada; and were it not for the heavy fogs, the Bay of St. Lawrence would be a favorite resort of our adventurous yachtsmen. The Galway line of ocean steamers now touches at Newfoundland, whose waters abound with the finest fish.

The sea trout ascend to the head-waters of the Miramichi quite early, so that there are none of large size to be caught in the lower section by the middle of

July. In that river they average from two to five pounds' weight. But the Tabasintac, a stream half-way between Chatham and Bathurst, is the most famous sea trout river of New Brunswick. I do not know of any sea trout along the southern shore of New Brunswick.

CHAPTER IV.

A TRIP TO THE LA VAL.

A BEAUTIFUL breeze was blowing down between the grand old hills of the majestic Saguenay on that first day of August when Walton and myself started from L'Anse à l'Eau in one of the oddly-shaped pilot-boats of the St. Lawrence, for a visit to the Bon Homme la Val. The Bon Homme la Val, a beautiful and romantic stream that falls into the St. Lawrence about sixty miles below the Saguenay, tradition asserts was named by the pious Canadians in the early days of the country after a beloved father confessor. But time and the English, equally utilitarian, have contracted it into simply La Val, and the origin of the name, together with the piety that suggested it, is almost forgotten by the present generation. The sun was shining brilliantly, and the strong northwest wind curled the waves of the ancient river, and crested them with foam; the dark waters surged in their falling tide; the stunted trees shivered in the blast; while the granite hills were as immovable as they had been mid storm and calm for many thousand years; but the pretty little village was all astir with our departure.

It is a fanciful place, with the white houses perched in a nook between the whiter rocks, while the

graceful roofs and white washed walls shining in the sunlight, produces a picturesque effect. The few English families residing there, and their many friends on visit to them, made an agreeable society, drawn closer together by its seclusion from the world at large; and bright eyes.

C

to

m

OI

be

8.8

is.

W

fre

in

re

in

fit

sti

rec

ev

for

sid

fir

art

ba

tur

thi

gra

sui

looked brighter when there were none others by.

The world of L'Anse à l'Eau was collected on the wharf to witness our departure—the Canadians because they had no better employment, the English that they might bid us adieu. Our pilot-boat, called by the Canadians chaloupe, an open boat some five-and-twenty feet long by seven wide, was crammed full of our numerous traps, plunder or baggage, as it would be variously styled in different parts of our land of freedom. The fishing rods, and one gun, devoted to the destruction of bears for lack of smaller game, were carefully stowed; small barrels, at present filled with meat, but destined to return filled with fish, lay side by side with baskets full of more delicate provender; tents, bedding and innumerable other articles occupied every inch of room. We were experienced in woodsman life, and had no idea of suffering the want of luxuries that could be easily carried with us, and would never trouble us on our return, unless they did it in spite of our teeth. There were preserved soups, meats and fruits, sauces of many kinds, tea and coffee, the latter ground and in bottles of essence; there were brown, white and maple sugars, concentrated milk, flour, indian and oatmeal, barley, rice and potatoes; liquors of many kinds, and other things too numerous to mention. For our protection from the weather, we had two tents and waterproof cloth suffi-

cient for a make-shift, two indian-rubber blankets apiece. one coated on the side the other in the middle, waterproof suits, plenty of blankets, flannels, and warm clothes; and such other things as a gentleman ordinarily carries on a journey. As a defence against the mosquitoes, black flies, sand flies, and other like torments of Satan's invention, there were veils, the oil of tar, and a mixture of glycerine, turpentine and spearmint. Above our treasures were carefully stowed our two canoes, bottom upmost. In a heavy sea they cannot be towed, as they are apt to fill and tear to pieces.

0

r 38 .

18

se

ЭУ

8-

et

us

ly he

of

d;

to ull

er-We

of

ar-

bur

ere

ny

of

rs, ice

ngs

the ıffi-

Few persons know how beautiful and delicate a canoe It is manufactured only by the Indian; in that the white man has never equalled him. The best is made from a piece of white birch bark, stripped from the tree in springtime, damped, and after being cut away to the requisite extent, molded into the proper shape. The inside is covered with gum, and a thinner piece of bark fitted upon it, so that though the outer bark be torn, it still does not leak. Over this are passed thin strips of red cedar, lengthwise of the canoe, and crossing them at every inch are ribs of the same wood. The gunwale is formed of a stout stick of hickory or ash, laced to the sides, and four strong but slender thwarts bind the whole firmly together, and serve for seats or supports. Inferior articles are made of but one thickness and of poorer bark. The shape differs according as they are manufactured by the Mountaineers or Micmacs, the two tribes of this region, the former building a long, narrow and graceful boat, easily capsized even for a canoe, and well suited for travel in smooth water; while the latter build a broader and flatter boat, drawing little water and bet ter suited for shoals and rapids. They are mostly manufactured on the south side of the St. Lawrence, birch-trees of the requisite size having almost disappeared from the north shore. The bark is composed of innumerable layers, and is the only known substance that would stand the rough contact with rocks that canoes experience. A volume could be written on the wondrous qualities of birch bark, the woodsman's invaluable treasure; to him it is a boat, a tent, a table, a plate, a cup, a basket, a pail, a basin, a frying-pan, a tea-kettle, a candle, a flambeau, a cooking oven, writing paper, kindling wood, and almost all the other conveniences or necessaries of life.

n

is

be

pa

ar

if

on

th

pi

sh

pr

the

the

is

ca

The chaloupe being loaded, a long farewell shouted loudly that our spirits might not fail, and we turned our backs on L'Anse à l'Eau, the pretty bay at the waterside. The jib was set, and the grande voile, or foresail, together with the tapecu, or jigger, while the mainsail, called by the Canadians mizzin—for we were a threemasted schooner-was brailed up, not only to give us more room, but because the open boat was then under all the sail she could stagger to. The French are a wonderful people; strange and incomprehensible are the sailing vessels they have produced; but in Canada, aided by the antiquated notions of the English, they surpass themselves and manage to combine in their pilot-boats all the defects of which either system is capable. While the rest of the world has discovered that the more sails a small boat carries the slower she will go, they have carefully cut up what should have been one sail into four:

and whereas a pilot-boat is mainly wanted in rough weather, and should be capable of living in any sea, they have built them open, and any heavy wave breaking aboard would swamp them in an instant.

But of all wonderful productions of the human mind the jigger excels; a mast is stepped alongside the stern-post, with a little spritsail hoisted on it; a stationary boom, or out-rigged, is fastened in the stern and projects aft into the water; in the end of this boom an augur hole is bored, through which is rove the sheet to the jigger, and the sail trimmed down or eased off. By this ingenious arrangement all possible disadvantages are combined without one conceivable advantage. However, not to condemn unreasonably, there are conveniences in this singular rig. The bowsprit can be taken out and used to shove off from rocks or a lee shore, and as these vessels are never known to go to windward, that is important; the sprit of the jigger can be used to boom out the mainsail when going wing and wing; any passenger, finding a sail incommodes him, can reach up and wrap it round the mast, out of his way; and in fact. if he were to pull it down and put it in his pocket, no one would miss it; and finally, a Kentuckian might find the mainmast useful, with a little whittling, as a toothpick. It is also rather perplexing that the Canadians should call the foresail the grande voile, which is the proper name for the mainsail, and then call the mainsail the mizzin, in pronouncing which they endeavor to cheat the last syllable of its vowel; whereas, the jigger, if any, is entitled to be called the mizzen. Instead of having a cabin, like Christians, they have amidships, for it is a

ly ee, ed

oes ous ea-

dle, ling ssa-

our atersail, sail, reee us nder wonthe

the aided rpass boats Vhile ails a carefour;

keel boat, what they call a boîte; and sure enough it is a box, as long as the width of the boat, some seven teet, about two and a half feet deep at the lowest part, and rounding to the shape of the bottom, and three and a half feet wide. Into that they crawl, and two men and

a boy have been known to sleep comfortably.

Such was the vessel that was destined to bear us sixty miles down the broad St. Lawrence, and was soon tearing along under the fierce wind that crested every wave with foam. Fortunately, our course lay along the weather shore, for our open cockle-shell would not have lived a minute exposed to the full sweep of the blast and the sea it must have raised on the other side of the river, or even a few miles from shore. Once in a while, a little dash of spray would come hissing on board, or fling itself into our faces; but as the wind was free, we could carry on sail as long as she could keep above the waves, or until she carried the masts out of her. Even that ungainly vessel, driving on in the seething waters, carrying the canoes on her deck, and with her sails straining in the blast, must have been more than picturesque.

On we tore, skirting the dreary, inhospitable coast past the village of Tadousac, past the Moulinbaud, the Escomain, a river once famous for its salmon, but no longer so; past the Patte de Lièvre, a rock of the shape of the hare's foot, where many years ago the sea gave up its dead, and a cross now stands to mark the grave of the lost nameless one; and the last puffs of the wearied blast urged us quietly into the outlet of Sault de Cochen. At the mouth of this river there is a steep fall, down which once a hog hastily descended much against her

hi be th in

ne

O

an less line ma silv

lasi

they kitc we o'clo over

old fires, alone tastic

a po

will; in her death covering herself with immortality giving her name to the torrent that destroyed her.

d

y

1'-

Ve

-86

ed

he

tle elf

rry , or

hat

caring

past

sco-

ger

the

its

the

ried

icii.

own

her

Hastily launching one of the canoes, and rigging up our rods, my companion and myself, eager for the fray, commenced tempting the innocent inhabitants of the deep with delusive baits. Evidently Mr. Red Hackle was not one of their intimate acquaintances, and they took to him amazingly. The god of day was already declining behind the western hills, and casting long shadows over the now placid water, but the fish leaped at the fly in innumerable numbers, giving us such sport as we at least never enjoyed before. At almost every cast a trout, varying in size from a quarter of a pound to two pounds and a half, plunging out of water, seized the fly fearlessly in his mouth, while often two or three were on the line at once. Large or small, they were most vigorous, making fierce struggles and mad rushes to escape, their silver sides glancing through the water, and their tails lashing it into a foam. No dull, heavy, logy fish were they, but active and lively, and excellent was the sport they gave; so that when our men, having improvised a kitchen on the rocks, called to us that supper was ready. we were loath to leave our sport. It was then eight o'clock; we had been fishing about three hours, and over one hundred and twenty fish, averaging about half a pound, were the net reward of our skill.

The scene, as we took our supper upon the end of an old tumble-down dock, was peculiar. The light of the fires, making the surrounding darkness the deeper, served alone to illumine with lurid brightness the faces and fantastic dresses of our men, while the roar of the cataract

shut out all other sounds. The chaloupe lay below us, its outline just defined upon the dark water, while we, seated upon a log, drank our tea and feasted right royally upon fresh trout and other comforts that civilization had provided us.

st

W

dia

wi

for

sar

bro

sev

rive

thir

cro

tem

whe

clea

ing !

of t

cam

after

bein

and

their

panio

my f

seate

A

Truly incomprehensible are the Canadian people. of the few inhabitants being without any eatable thing in the house, having scraped the flour barrel till he had scraped off splinters of wood, and, except for our arrival, without the prospect of a meal for the morrow, had soothed his sorrows by inviting his neighbors to a ball. Of course there was no supper; but the music of one fiddle, and the merry spirits of the Canadian girls made up for the deficiency, and when we joined them, after our tea, they all seemed as happy as though stomachs never grew hungry or limbs tired. Being politely offered the belles, we joined the festivities, our potables adding to the merriment of the party, till, with the prospect of a hard day's work on the morrow, we thought best to retire to the dressing-room and camp upon the floor for the night. Although the bed was hard, and our rest somewhat disturbed by visions of beautiful creatures arranging their hair and dresses by the light of a tallow candle, before the looking-glass in our room, and at last donning their hats for a final departure, we slept tolerably, and the early dawn saw us on our feet, preparing for our departure.

While the men were carrying out our directions, in anticipation of a long absence from civilization, the attractions of the finny tribe were too seductive, and we, yielding to their enticements, again cast our lines in plea-

sant places, and again, in about three hours, captured over eighty of the speckled silver-sides. The largest weighed two pounds and a half, and was the best fish taken, thus far.

0,

n

ne

ng

ad

al,

ad

all.

one

ade

fter

achs

ered

ding

pect

st to

r for

rest

tures

llow

last

oler-

aring

as, in

the

we,

plea-

The barrels were arranged, the salt was purchased and stowed, the canoes made fast, the sails set, and, blessed by a still more favorable southwest wind, we got under way for La Val. Its mouth was only about one mile distant, but we intended to ascend it as far as possible with the chaloupe, on the rising tide, and were thankful for the favoring wind. At its outlet lies an island of the same name with the river, behind which stretches a broad, rocky, shallow bay. We escaped by grazing several rocks, and entered a sluggish, canal-like, dirty river, as unlike the La Val of a few miles above as anything can be conceived, and ploughed our way through crowding shoals of sardines, that rose so thick as to tempt us to try to catch them with a scap net. But where the rocks began to be visible as the water became clearer, we drew the chalcupe to the shore, and anchoring her stem and stern, loaded our canoes for the ascent of the river. We took with us the essentials of our camp life, intending to send back for the superfluities after we had established a permanent camp; the river being too low, our canoes would not carry a heavy load.

Armed with iron-shod poles to shove up the rapids, and paddles for the deeper pools, our Canadians took their places and we commenced our ascent. My companion was an expert canoeman, but for myself it was my first real lesson in the unsteady little shells, and seated upon the bottom I awaited every moment a

sudden bath. Here the water was comparatively smooth, and little was I prepared for the falls and rapids that were ere long to steady my nerves for anything, and prove what a canoe can do when it is well handled.

While our head guide, with the musical taste that is inherent in the French nature, rang forth—

"Aimez-moi Nicolas,"

C

P

CO

tr

an

be

its

the

str

lah

and

per

it p

that

ing

wre

cano

pery

battr

came

beau

The

I

the paddles were being plied vigorously, and we shot into the narrow cleft that forms the bed of the La Val. Straight up from the water's edge sprung the hills on each side, their grey rocks scarcely half covered with stunted spruce, pine and hemlock, and rarely leaving margin enough for underwood to grow upon the bank. The water, now limpid as crystal, poured down in an ever increasing current, and here and there boiled over a hidden rock. On we forced our way, a bald eagle the only contestant for our sole occupancy of the river, past the grey cliffs, the sombre trees, through dark pools, up rapid currents, by banks of clay greyer than the granite hills themselves. On, on, with steady exertions, at every moment ascending toward the source of the wild stream. The water became shoaler, the currents stronger, and the rapids more rocky as we advanced.

Poling up the rapids was strange indeed. Imagine a torrent pouring, hissing and boiling down over rocks, where the foam glistened and the spray danced into the air, sweeping through narrow channels and leaping up and curling over in crested waves; imagine a light, fra-

8

ot

al.

on

ith

ing

nk.

an

iled

pald

the

lark

han

xer-

e of

cur-

ad-

ne a

ocks,

the

g up

fra-

gile boat, that a man could lift with one hand, forced against such a current, between or even over the rocks, swayed about, swept hither and thither, and once in a while caught broadside on, and, unless quickly righted, carried to instant destruction. Imagine the excited efforts, the quick directions of the steersman, or forward boatman, whose care it is to head the canoe straight, to choose at a glance the deepest channel, and to keep her clear as possible from the rocks. "Arrête! avance! pousse! à droite! à gauche!" with a thousand others, come streaming forth as she touches, swings round, or tries to take her own head. At times she stops entirely, and by main force alone is she pushed over; the rock being distinctly felt as it bends the thin bark, that by its elasticity gives to the pressure and springs to its place the next instant. The men stand erect, exerting all their strength, and handle their poles like a Paddy his shillelah, first on one side, then on the other, then in front and then behind, the iron taking a firm hold of the slippery rocks. Such was our ascent, and deeply interesting it proved to me, although at first it seemed inevitable that the foaming water must ingulf us all, and, destroying our provisions, leave us, if we escaped at all, shipwrecked mariners upon a desolate coast.

I was glad, therefore, at every opportunity to quit the canoe, and clambering as fast as I could over the slippery rocks, post myself ahead upon the point of some batture or ledge of rocks, and cast the fly till the canoe came toiling painfully along. Great was my success, beautiful the dark pools, ever varying the limpid water. The treacherous banks of clay, so slippery that it was

scarce possible to stand on them; the dark pines casting a gloomy shadow upon the water, the sombre depths where the current had worn away a cavern for the naiads of the watery realm, made together a picture never to be forgotten. While the innumerable trout were enough to gladden the heart of any true sportsman.

The day was parsed and yet our journey not half done; we halted for the night as "The shades of eve came slowly down," and Walton joined me with his rod while the tent was being pitched and the fire lighted. Glorious was our sport; many a brave fish rose and sunk, and rose to sink no more; either in that region the parent trout had not learned the infant song that in civilized localities they are accustomed to teach their children, or else the mothers did not know the latter were out; for certainly they were not aware of the concealment of the cruel hook under the seeming insect. They showed no fear and we no pity, till the call of "supper" found us with over a hundred fish, averaging a pound and a half.

m

wi

tin

OW

the

wei

our

rien

hur

pite

catc

bein

noon

we h

time

by a

nearl

ties,

In fr

beyor

fairly

A dea

I

In conscious innocence and happiness we retired; the fire was bright, the night was warm, the woods were still, the sand was soft, but oh! the sand flies. They came down upon us more innumerable than the locusts in Egypt, and if Pharaoh had only been termented with them, he would have given up in one night. I tossed and turned and rolled about, hid my head under the blanket, and covered it up with my handkerchief. All to no use; they would still find some means of entrance, the little, invisible things; and they bit till my face seemed on fire. Their bite does not itch like a mosqui-

to's, but burns, and I never again shall despise a thing because it is small. Compelled to surrender all hope of sleep, I gathered the dying embers of the fire, and adding fuel, drove away the pests, while, at the same time, with infinite relish, I scorched our men, who, to my previous disgust, had been sleeping during my sufferings as though they were in paradise.

By the earliest dawn I had waded into the river and made the discovery that fish, unlike the proverbial birds, will not take the fly too early. Just before the sunlight tinged the mountain-tops, they, thinking to provide their own breakfasts, provided me with mine, so that, when the time came to leave off, I had taken twenty fish weighing over forty pounds.

n

ir

er

n-

ct.

 \mathbf{of}

ng

he

re

ey

sts

ith

 \mathbf{ed}

he

All

ce,

ace

ui-

Immediately after the meal was over, we continued our ascent as rapidly as possible, dreading another experience such as we had endured the previous night, and hurried on to reach our regular camping-ground and pitch a proper tent. On the way, I only had time to catch fifteen, weighing thirty-seven pounds, the largest being of three pounds and a half, and late in the afternoon hailed with pleasure the information that at last we had reached the spot that was to be to us for some time our home. It was a beautiful location; the stream, by a sudden bend, forming a low, long point of land, nearly level, which had been, by previous camping parties, entirely denuded of underbrush and partly of trees. In front, midway in the river, was a large flat rock, beyond which, extending to the further shore, and just fairly within casting distance, lay a deep, black pool. A dead tree leaned over this rock from our side of the

river, forming a perilous swinging bridge by which one could reach it dry-shod. Directly across a cool spring brook entered the La Val at a place where the shore was a mass of overhanging underbrush. A pathway had been cut through the woods by some previous salmon fishers to the pools above and below; and with the poles, benches, boards and other insignificant but useful articles left by our predecessors, our camping-ground combined every requisite with many luxuries. At five o'clock the tent was pitched, our necessary part of the arrangements, the head-work done, and Walton and myself commenced fishing. We stood side by side upon the rock already mentioned, and before dark had taken fifty-three trout, weighing one hundred and twenty pounds. They were most vigorous fish, and many a time did their continued runs almost exhaust our lines. We had fished at Sault de Cochon with three flies; on ascending the river had diminished them to two, and now the fish themselves coolly reduced them to one. Almost invariably, if we struck two fish at a time, no matter what pains we took. one broke away with the hook. After a short time, we did not pretend to use more than one, and then had to take great pains in removing it from the mouth to avoid its being destroyed, so tough were the lips and strong the teeth of these noble fish. Indeed, it was soon effectually proved that any fly with the hackle wound from the shoulder to the bend was worthless, the first fish biting away the hackle, which should have been only wound close to the head. Heretofore the destruction of my fly had been a minor consideration, but now I found that I must look to myself, or, although provided with over

thirty dozen, there might be danger of my falling short. As it was, the fish destroyed in the course of my trip at least ten dozen.

g

18

 \mathbf{d}

)11

33,

es

ed ck

ge-

mock

ree

hey

on-

1 at

iver

lves

we

we l to

void the

ally

the

ting

und fly

at I

over

A delicious night's rest was the reward of our efforts at arranging a proper camp, and in fact, henceforth there was no trouble from flies, mosquitoes, or any insect, except to a slight degree during the day-time; an annoyance that a segar would effectually dispel. From a quarter before seven to a quarter past eight next morning I alone took twelve fish averaging over two pounds, and during the day, while ascending the river for a short distance to investigate what now became to us a serious question, the depth of water, Walton and myself together caught twelve, and in the afternoon twenty-eight more. In the course of this day we established a rule to throw back all fish weighing under two pounds, a rule we adhered to till our last day in the river. The water proved to be very low, and although at night we occasionally heard the rush of a large fish up the rapids, the salmon had passed above and were probably on their spawning grounds, whither it now began to be very doubtful whether we could follow them. It was late in the season, as we knew, for salmon, although we had come prepared for them, and wished to catch at least a few.

We had picked up at Sault de Cochon, as a supernumerary, a boy of about eighteen, who was one of the most remarkable beings the sun ever shone upon. He would sit for hours with his mouth open and his hands before him, and, unless told, would hardly have sense to eat enough to keep himself from starvation. After dark, our men, with a hook and line and the entrails of a trout for bait, caught some eels, and he, emulous of their suc cess, took the line after they had finished, and concluded he would try his luck. Although he had been watching their proceedings for an hour with the deepest interest, he had no idea what they used for bait, and was forced to inquire. They, with peals of laughter, suggested alternately "a cup of tea, a bit of biscuit, a little ale, a lump of sugar," and such other anomalous baits. Although he at last succeeded in ascertaining from them what they used, it was not to be supposed that he would. catch anything; in fact, it is highly probable he fell

asleep over his rod and slept till morning.

The next day we prepared for a portage of five miles to the Lake la Val, a pond of some two miles in length by one in breadth, formed by the river's spreading out and filling a valley in the hills. Walton donned a heavy basket, Joe, our chief canoeman, took the canoe, while François, the lazy boy, carried a bundle of bedding. We crossed the river, and striking directly into the woods, followed an Indian trail that had probably been there before this continent was discovered by Columbus. The mode of carrying the canoe was truly original: it was reversed and mounted on Joe's shoulders, and his head being entirely concealed, he steadied it by holding to one of the cross pieces, and, at a distance, looked like some strange animal with a huge trunk, supported by two little legs. It was surprising how he managed it through the trees and among the underbrush, and even ascended places where we were compelled to give our legs the aid of our hands, not, however, without strenuous exertion, and the perspiration streamed from him

b

p

a

p

C

n

g

when, after accomplishing about a mile, he leaned it upon a fallen log and slipped from beneath. Then the warning my friend had so often given me never to wet the bottom of the canoe, because it augmented its weight so terribly, came forcibly to mind. Fortunately François waked up, and having volunteered to carry the canoe over the next stretch, and it being ascertained, to every one's astonishment, that he knew how, proved himself for the first time of any value, and shortened our journey considerably. During the portage we saw our first game, a spruce grouse so tame that no efforts we made could induce him to fly. He escaped death, primarily because we had no gun, and secondarily because it was out of season. At last, after a trying journey for our men, we passed a deserted lumbermen's shanty, and found ourselves upon the sandy shore of the lovely Lake la Val.

This beautiful sheet of water, lying amid high sterile hills far from the abodes of man, has remained, and will continue for centuries, unvisited except by the native Indian or the adventurous sportsman. Romantic in its location and appearance, it is remarkable for the number and appearantly irreconcilable character of the fish that inhabit its waters. While the voracious northern pickerel and giant mascallonge inhabit the upper part, and the fierce, greedy and powerful salmon have appropriated the outlet, shad or mullet and lake trout, both comparatively inoffensive, dwell in the centre, and doubtless prove an easy prey and grateful food to their natural enemies on either hand. Along the upper margin, weeds grow, and the bottom is in places soft and

ռ

it s on e

muddy, while the residue of the shore and bottom is firm white sand. The lake looked, in its broad expanse with the sun dancing on its rippled surface, lovely to us whose eyes had for a time been confined to a narrow

gorge or the blue sky above.

Hastily launching the canoe, we descended the outlet. where the water poured over huge bowlders covered with a long, weedy grass, the seeds of which had been washed from the lake. Walton was standing in the bow of the canoe, and shouted with delight, and waved his paddle enthusiastically in air as salmon after salmon flashed up through the water, and shot by, rapid as light. The sight made our nerves tingle, but it was useless to try for them; the water was too clear, and they were dark. and long run from the sea. At one point he frantically shouted to stop, and hastily explained that he had seen . five salmon and numerous large trout in one deep hole. In vain, however, did we cast our flies, they had been frightened, and probably rushed down the stream, for we could not stir a fin. Descending a short distance further, we halted for dinner, after which, taking advantage of a resting spell, I waded back to the same spot.

The pool lay close beside a little island covered with alders, and by crawling cautionsly I kept out of sight, and reaching the head of the island, cast carefully and lightly round it into the pool. The line went out straight the full length, the fly fell like a snow-flake on the water, there was an angry rush, a mighty splash, a quick taughtening of the line, and an enormous fish was fastened to my frail tackle. In his astonishment he fortunately darted up stream, and by skillful manage-

ment was led round into the other channel, where, after many a struggle and desperate effort to escape, baffled only by prudence and care exerted through a long but exciting half hour, I landed him by walking into the water waist deep, and slipping the net under him. for leading him to shore, my rod, already bent double would not bear the strain. He was a dark-backed. yellow-sided river fish, and weighed four pounds and a quarter. He was our champion prize, and remained so to the end. The water not having been disturbed, I made another cast, and was rewarded by another fish that weighed four pounds. A brace of beauties, fit to set before a king. The second one, however, so fought and flounced, and kicked and slapped about in the pool, in spite of all my persuasive efforts to induce him to leave it, that the rest grew suspicious, and refused the most seductive baits. My friend looked the least little bit envious when I rejoined him, and mentioned his having previously taken a sea trout at the Mingan that weighed nine pounds. I smiled, of course respectfully. returned to the lake, having taken in all fifteen fish averaging three pounds, and leaving the canoe on the beach, wended our way through the woods back to our sylvan home, where Pierre received us with a redoubtable supper. Insatiable, however, I that evening took eight, and next morning three, from our preserve, as we called the pool in front of the tent.

ı

B

As we intended to return to the lake, and might perhaps spear a pickerel, Joe made an égog, which appears to be the Indian name for fish-spear, the Canadians having not only adopted the word, but coined from it a French verb, égogger, to spear. Armed with it, and provided with make-shift tenting materials, we hastened to the lake, and launching our canoe, tried its virtues upon the pickerel. The latter, however, were so scarce, that we rigged up the more effectual spinning tackle, and took a pickerel and a mascallonge of about twelve pounds each, and struck another of the latter very large, weighing, as well as could be guessed, from his passing close to the boat, about forty pounds. That night, provided with flambeaux, we went out for the purpose of again trying to spear pickerel; but, passing by the outlet of the pond, were so attracted by the numerous salmon, we could get no further.

It was a romantic sight; the canoe, lit up by the blazing flam seau, that was fastened, high above our heads, to a pole fixed in the bow, and by its glare made the surrounding darkness the more impenetrable; the silence of the night was unbroken, except by the dip of the paddle; and calmness of the water unruffled, through which the bewildered salmon lazily floated, following us about, coming so close that we could touch them with our hands, and occasionally jumping frantically into the air, utterly out of their wits and at the mercy of any poacher. Walton was excited, myself enthusiastic, but Joe was frantic; "Egoggez donc! égoggez donc!" he shouted, wildly pushing at the fish with his paddle, and almost ready to jump out of the boat. My friend held the spear in hand—he was a splendid spearsman, and could have filled the boat with salmon; but it was illegal as well as dishonorable to catch them in that manner -he wavered but a moment, and then with a sigh lay

Jown the spear and took up his paddle, the greatest example of self-command and honest sportsmanship I ever knew. General Washington, when he retused to be king, was no greater. My friend was not rewarded if he did not sleep happier for it that night in the old cabin on the shore of Lake la Val; and if the falling pipe of the rotting stove that nearly crushed his head had killed him, he would have died virtuous, respected and without reproach.

Oh, that I had the pen of Julius Cæsar, Homer, Shakspeare, or even Byron, that I might write an ode to sapin, the balsam fir-tree! Tree of the weary woodsman, tree of the luxurious sportsman, tree of all men whom the drowsy god catches in the woods and compels to his embraces! A bed of thy leaves is softer than one of eider-down, and far more comfortable. might sleep on thee and dream he was in paradise. Thou preservest us from colds, from rheumatism, and the many ills that flow from the evil humors of the cold ground. Thy leaves, growing in one direction from the stem, will lie flat, and may be piled to any depth-a foot of luxury, as in our permanent camp-and make a couch that combines the softness of the feather-bed with the firmness of the mattress, and an elasticity purely thy own. To thee, and to thy mate the hemlock, and thy associate the white birch, I now, far from thee, waft, in a cloud of tobacco-smoke, my love. Go on, increase and wax great; may often the one support me on the land, the other on the water!

в

е

When the next morning's sun had once more brought round my birthday, the thirty-first that had ever dawned,

we commemorated the fact by undertaking to descend the La Val from the outlet to our home; a roundabout journey of some fifteen miles, in lieu of the portage of five. It was to be a final test of the depth of the water, as the course lay over bad rapids and falls, and we entered upon the journey with great uncertainty. Packing our temporary bedding in a water-proof blanket, our party embarked and sped gaily along for the first mile or two, but soon found the bed of the stream one mass of huge rocks, over which the canoe had to be driven with sheer force, and which tore and strained the fragile bark till it leaked terribly.

During this day our progress was necessarily slow and laborious, and to relieve ourselves we fished continually. The trout rose beautifully—in fact, in one pool they were so thick, sweeping round in shoals, that we grew surfeited, and left it for a spot where they were less plenty. Still it required a long line and light fly to cull the largest-which were the ones we sought-and skill and patience to land them. We might have taken hundreds had the time permitted, or our canoe been in condition to carry them; but every strain had increased the leak till we could no longer keep it down by bailing, and had to land from time to time to turn the water out. In fact, it was a wet time altogether; there was a drizzling rain, the cance was three inches deep with water, we had both been wading part of the day, and had so arranged our water-proof blanket that it projected beyond the temporary tent, and catching all the water that drained off, would not permit it to soak through, but collected a miniature Lake la Val in the middle of our

bed. I being the heaviest, had the most of it; but by the aid of a blazing fire, I slept warm and comfortable till the morning air struck me, when the time came to rise, and sent a shiver to my very bones, giving me at first horrible visions of consumption, night-sweats and early death. Our tally of fish taken during the day amounted to fifty-three, weighing nearly two hundred pounds, and I had captured the greatest weight as yet taken at one cast, landing two fish, one of which weighed two and the other three pounds and a half. A handsome present the river gods made me for my birthday!

The next day, after an hour had been spent in vainly trying to attract the salmon, our journey was continued to the camp, the river as we descended proving worse, the rocks higher, the rapids fiercer, the water lower, our canoe frailer, till it came almost to dragging the latter over the bed of a current instead of floating comfortably along its surface. All hope of ascending to the head-waters was extinct, the rapids above the lake we knew must be worse than those below, and the latter were totally impassable for a loaded canoe. In our despair, we fished steadily at every breathing spell, and might have taken unlimited numbers, for they rose gloriously.

1

While walking unconsciously along, separated from my companions, I was fairly startled at observing what at first glance seemed to be a female figure seated on the opposite side of the stream beneath the bank. The impression was only dissipated by a close inspection. The rains had scooped out of the bank a dark niche, the edges of which were ornamented with vines and moss,

and in it was seated a figure of clay, worn to an astonishing likeness of a woman with a gipsy bonnet on her head. She appeared to be seated, and her bonnet, its strings and her dress, were accurately imitated by the curling white birch bark. The color of her face seemed dark brunette, set off by the birch bonnet, that was brought out in strong relief by the heavy shadow of the background. Altogether, it was a startling apparition, and conjured up to my eyes the wondrous sights of the times of elfin power, when my spectre would have made a most perfect wood nymph.

Whether my elf gave me good luck or not, it is impossible to say, but we caught thirty-seven magnificent fish, and after a hard day's work, during which we had toiled at the canoe and waded most of the way, the camp was no unwelcome sight. It required Pierre's best culinary efforts to restore our spirits, and soothe our disappointment at being unable to effect a further ascent, in which our worst forebodings were confirmed by Jermain, an additional guide who had followed us, and who reported from his Indian friends that the upper stream was impassable, the water being a foot lower than was ever known before. With sad hearts, therefore, the council of war determined that advance was hopeless, and retreat inevitable; even our splendid sport could not console us.

It had been drizzling all day, and the next morning we devoted to a general drying of wet articles—the camp looked like a grand clothes washing establishment, with lines stretched from tree to tree round a big fire, and hung with clothes. I took some seven treat for dinner, but otherwise the fish had a rest until the mor-

row, which was to be our last on the river, when we captured twenty-eight, a few of which, however, did not exceed a pound and a half in weight.

The next day came, and good bye to the beautiful La Slowly and sorrowfully we struck our tent, sadly we collected together, and stowed the many little articles that the occasion had hallowed to our hearts. With feelings of deep regret we embarked, and looking our last look at the camping-ground that had been our home, commenced a descent to our chaloupe. As there were three canoes, and only five canoemen, including my friend, I was gladly compelled to take the bow of one and act as steersman. Of course my experience was limited, for, with the exception of having once upset Walton to his intense disgust, I had taken little active part in canoe management, and having for my stern-oar, Joe, whose only idea was to push ahead under all circumstances, we performed manœuvres that astonished more than they delighted our associates. Ours was the leaky canoe that had been patched up with gum and a piece of a shirt for the occasion, and being utterly reckless of it, we shot down rapids and leaped over rocks like a runaway race-horse. Wonderful were our hair breadth escapes; the rapid water, Joe with his "Avancez toujours," gave me no time to see and less to avoid the half-hidden dangers, even if my skill had been equal to the task, and we darted along amid the foaming current, or plunged headlong down cataracts, at a rate and in a manner that would have surprised a locomotive off the track. We succeeded, however, in keeping straight with the current, and although once or twice our destruction

scemed inevitable, we finally arrived safe, though in a leaky and dilapidated condition, at the place where we had anchored our chaloupe. The latter, left to herself, had been trying what she could do on the rocks, and had succeeded, with the aid of a falling tide, in upsetting twice, and so frightening the boy in charge of her that he had fled for refuge to a shanty, which providentially was near at hand.

Joe had taken the opportunity during our last day's fishing, on hearing of the misfortunes of his boat, to remove her to the Sault de Cochon, so that we had to paddle about two miles in the open St. Lawrence. The river was over twenty miles broad, and, under the influence of a southwesterly wind, was so rough that our unsteady bark danced, tossed and rolled about uncommonly. I could no longer stand up, as I had been forced to do hitherto, and was brought to my knees at once, while even Joe found it safer to sit down on the thwart. No one who has not tried it can imagine what a canoe is in the slightest sea-way; it appears to bob from under you, and rolls and dances so quickly as to render staying in it almost impossible, even if it should not carry out its evident design to turn bottom up. Once at Sault de Cochon and I again tried the fish, having taken, on the descent of the La Val, twelve, and was rewarded as I deserved, by total failure.

The wind had died out, the water lay a perfect mirror, and, crowding down into the narrow cock-pit, we slept till two o'clock in the morning, when a favoring tide helped us slowly along toward our destination. The night passed, and the next day, and we drifted by place

d

d

 id

g

at

ly

,98

to

to

he

ce

ın-

ly.

do

ile

No

in

ou,

in

its

de

the

s I

or, ept de he after place that we passed before with such rapidity, and sunset again found us only thirty-three miles on our way. We ran into a little bay at the mouth of the Escomain, where, having built a huge fire and eaten a hearty supper, we slept, on a bed of the softest pebble stones, soundly and sweetly till the first grey light of daybreak, when we continued our journey along a coast so poor that the best fed hogs are, as we were credibly informed, light and weak enough to be blown over by a strong wind, and mill-stones, to say nothing of the miller, starve for want of grain.

Again the hills of the Saguenay rise to our view, Tadousac rests calmly in its nook, and the sun shines on the white houses of L'Anse à l'Eau as when we left. Our trip is done. The La Val will live in our memory as long as we can cast a fly—aye, and when gout or age shall have laid us on the shelf. To you, my friend, the genial companion of my trip, I give my thanks; may we meet again, and once more stand side by side upon some projecting rock, as fish after fish rises to our fly. May you long live to enjoy the sport at which you so excel, and may you leave children that can cast a fly as well. To the stately St. Lawrence, to the magnificent Saguenay, to the beautiful La Val, a long farewell.

CHAPTER V.

THE SALMON.

Salmo Salar.—This celebrated fish is totally different in appearance from the trout, having decidedly brilliant scales, colored bluish black down to the lateral line, and beautiful and white as glistening silver below. It has on the gill-covers and upper part of the sides occasionally dark irregular spots. The tail is more forked, and proportionally more expanded than that of the trout, while the fish is of a more slim and elegant shape.

The branchial rays are twelve, and the fin-rays are as follows:

D. 13.0; P. 15; V. 9; A. 9. C. 1953.

These splendid and valuable fish, whether regarded as an object of the sportsman's skill or the epicurean's taste, though once abundant in our State, are so no more. Hendrick Hudson, on ascending the river he discovered, was particularly struck with their immense numbers, and continually mentions the "great stores of salmon." The last unhappy fish that was seen in the Hudson had his adventurous career terminated by the net, near Troy, in the year 1840. The rivers flowing into Lake Ontario abounded with them even until a recent period, but the persistent efforts at their extinction have at last prevailed, and except a few stragglers they have ceased

from out our waters. The willful, stupid obstinacy in building dams without fishways, in crowding the rivers with nets, and neglecting all measures for their protection, have annihilated the noblest of game fish. They are now only to be found in Maine, and to the northward of it. The rivers of Maine are no longer worth the angler's attention, and if he would have good sport he must proceed to the wilds of New Brunswick or Lower Canada.

t

d

B

1-

d

t,

18

e. I,

5, ,,

d

In the wild woods of those famed regions they abound, and there, amid the solitude of nature, in its pri meval grandeur, the writer has cast the fly over thousands, has lured hundreds from their hidden depths, and seen myriads moving about in their romantic pools, or darting away when disturbed; has waited, casting patiently, for their appearance; has felt the vigor of their first rush; has seen them leap, maddened, high out of water; has experienced all the variations of hope, the exultation of success, and, alas! the agony of fail-He has known them to dart away resistlessly down some impassable rapid, and leap for joy as they broke his frail tackle, and he has seen them panting with the gaff in their sides and the dark blood streaming over their resplendent scales, as his quick-eyed assistant had secured them at the moment the hook was tearing out. Aye, he once had the good luck of having one that was thrown out of water by the blow, the hook tearing out at the same time, caught on the gaff ere he fell back into the watery grave of hope.

The glorious sport! Ye delvers after the ore of gold, hidden as it seems to be in boxes of silk or bales of cot-

ton, in bits of paper or leaves of ledgers; ye weary crawlers through the streets of mammon, who think the world is bounded by the four walls of your ambition; ye who have been brought up to work, as though work were the aim of life instead of the means of its improvement; ye who have laid up a few hundred for some pet dissipation, a visit to Saratoga or Newport, or a fight with the tiger-that man-eater-and ye who must watch every day over your accumulated millions, lest a penny slip into a cranny and be lost, go to the woods, where you will be surrounded by the sombre trees, where the rocks will be your companions and the wind whisper and the stream prattle to you. There you will learn how little it takes to render man comfortable and happy, how but for his reckless passions and extravagant desires all might be satisfied and plenty crown the human race. There, where nature speaks to you in her beauty, in her grandeur, and occasionally in her stupendous power; where the wonders of the universe by day and night are ever present, like old friends; where there is naught but the thin air between the Maker and his beings, you may learn what will be more valuable some day than any treasure of gold or silver. Breathe the pure air, shake off every ill that flesh is heir to; add to your life, if you love it so well, a week for each day, and that a day of never wearying enjoyment. Take rod and gun, aspire to cast the line far and straight and light, feel the struggle of patience, perseverance, skill, resolution, with brute strength and cunning; know the pleasurable anxiety of the chase, the alternate hope and fear, and the final glory of success. Learn the woodsman's art, the "gentle

fi

n

is

u

m

m

be

ar

ag

ry

he

n;

rk

ve.

oet

ght

ch

ny

ere

the

per

arn

рy,

ires

ice.

her

er;

are

but

nay

any

ake

vou

of

bire

ug-

ute

of

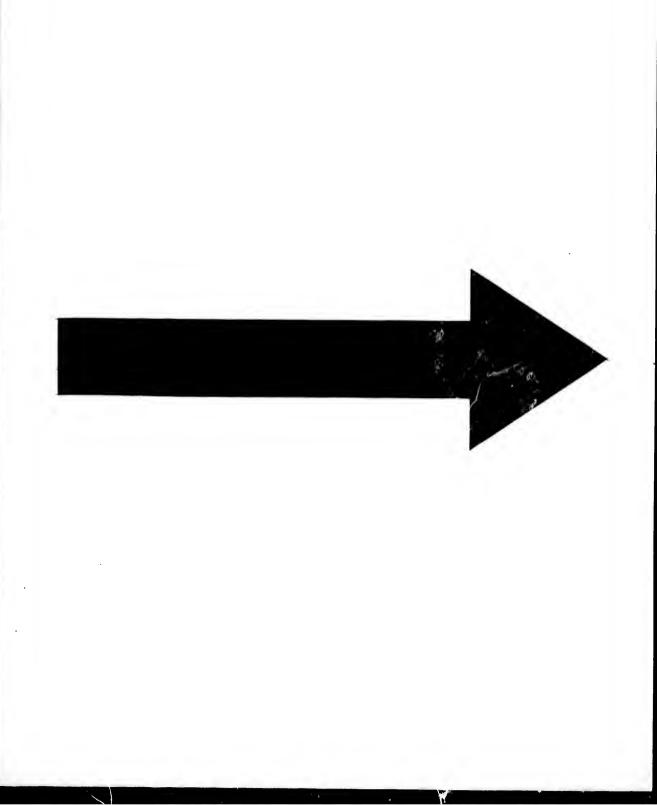
nal

htle

eraft of venerie," and wonder at the resources of the wilderness, and on your return thank me not, if you can. But that you may do it well, read the following prosy instructions carefully, for if they be not entertaining they be useful.

The rod for salmon fishing should be from sixteen to twenty feet long; one of sixteen, or even fifteen, if well made and elastic, will answer. It must be strong and stiff, but not too heavy, and the further it will cast the greater will be the success. Salmon are more wary than trout; if they see a horrible, ill-shapen being, like man, lashing at them with a long whip, they lie close to the bottom, and it is only by keeping well out of sight, and never disturbing or approaching the pool, that they can be tempted. A short rod, though it may be capable of casting the requisite distance, will not give sufficient command nor enable the angler to lift the fly with facility.

The fly must be cast straight, light, and as far as possible; it must be put exactly upon the right ripple, and must fall like a snow-flake; it should, if the water is still, be allowed to sink a few inches and then drawn up to and along the surface a foot or so, again allowed to sink, and so on till it is raised for another cast. It is not moved as rapidly, nor with precisely the same tremulous motion as in trout fishing. Often a long time passes before a fish, no matter how plenty they may be, will rise; and when he does come, it is as often to play with and slap at the fly as to take it. Nothing is more provokingly exciting than to have a magnificent fish rush again and again at your fly, leap over and around it,



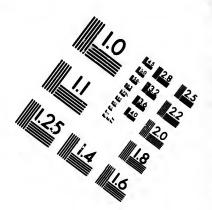
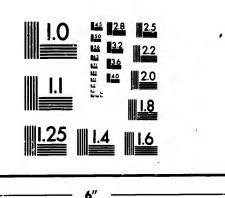


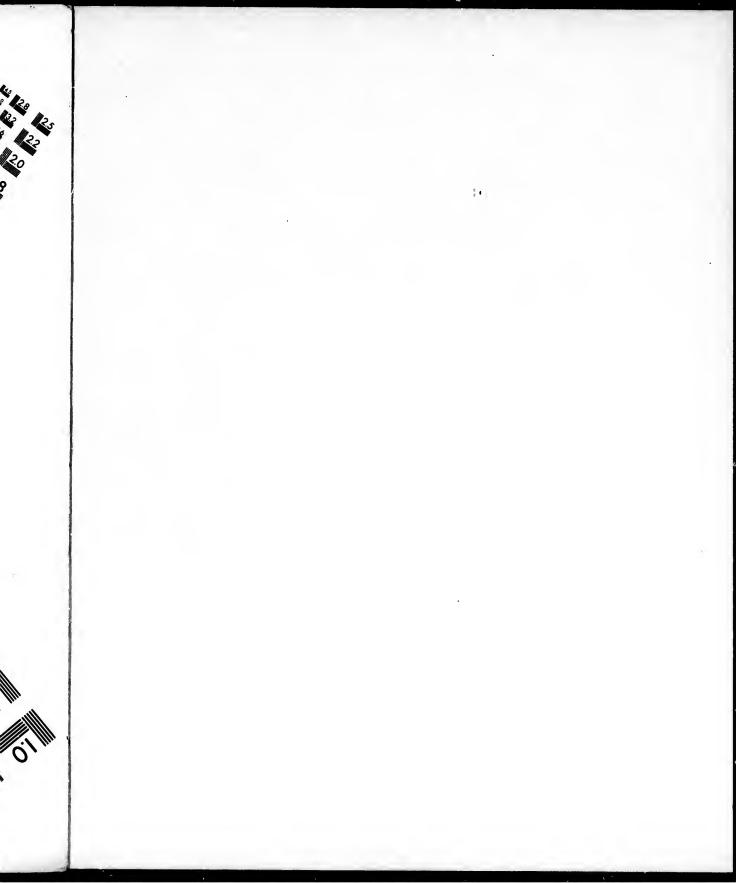
IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

STANDER TO STAND THE STAND



break near it or strike at it with his tail, without, however, showing the slightest desire to take it in his mouth.

A fish hooked foul, though he gives a great deal of trouble, and often breaks the tackle, does not afford half the legitimate sport of one that has the hook in the mouth.

When fish are playing thus, and it is fully determined that they will not take the allurement presented them, no matter how attractive, it becomes necessary to substitute another, and continue so doing till their dainty palates are satisfied.

When they finally take hold, have a care for their first rush; the pain, if pain they feel, or astonishment, drives them wild, and they dash and fling themselves about, leap out of water, and carry on generally in a manner to surprise weak nerves. Finding their efforts to escape vain, they will dart down the nearest rapids, and here they must be followed if the water is too shallow for the canoe, by the angler, with the agility of the antelope. He must have feet, hands, and eyes for everything. The fish must be guided through the safest current, the line kept clear of rocks, while the angler must pursue his course through pools and over ledges and bowlders, slippery with the water, and requiring the sureness of foot of the chamois. On, on he must go, regardless of falls or bruises, his reel making sweet music to the uncoiling line, keeping within sight of his prey till the latter reaches the next pool or resting-place. After an hour's struggle in this, he may take down another rapid in the same vigorous style. In these descents the angler will find his gaff, if shod with iron, a great convenience in

steadying his steps, and heavy shoes with iron nails will in a measure prevent his slipping and will obviate stone bruises, although they are apt to break the delicate knees of the canoe, and should be removed before getting into one, and moccasins or slippers substituted. There is a well authenticated story of one fish that was struck at six o'clock in the evening, followed down through three rapids, and finally lost at half-past ten o'clock that evening.

Salmon will sulk, remaining motionless at the bottom for a long time after they are wearied with an unsuccessful struggle, and must be aroused with pebbles, bearing on the line, or in some other way. Many of the pools in the Canadian waters have been worn out of clay banks, and their sides under water are often perpendicular or overhanging. When the fish sulks in one of these, the line cuts into the edge of this bank, and is of course broken to pieces by the first rush.

Gentleness will do much with fish, as with other reasonable beings, and a friend of mine saved a number in a pool above an impassable rapid, where other anglers had pronounced fishing impracticable, by striking and handling the fish with extreme delicacy till they were led to the head of the pool away from the dangerous neighborhood.

There is no superlative salmon line made; the best, probably, plaited silk, tapered and covered with a preparation to exclude the water; but that in general use is of hair and silk plaited or twisted—a combination that, as we elsewhere remark, is by no means advantageous; a plain hair line is preferred by careful anglers, and sim-

half the ined hem,

ıbsti-

pal-

how.

outh.

l of

first rives bout, er to scape here

r the

lope.
The line his slip-foot falls

ling tter ur's the will ple silk will answer. The leader should be of single gut, if round and strong, and may be colored in tea. Double gut will break the rod but not save the fish. The flies, contrary to the received opinion in Europe, should be dark, especially clarets and browns, above all the impalpable "fiery brown," and of rather a small size, with a few larger for rough water. The reel should be large enough to carry two hundred yards of line, although with activity and a hundred an angler may make out.

As for the number of fish, even in the best streams, those who read Lanmann must receive his statements with, to use a moderate term, some allowance. Ten or twelve fish in the course of a day is excellent luck, and will keep the angler sufficiently occupied and excited, but the average good fishing through the season is not half that number, and there are many blank days. The upper shore of the St. Lawrence furnishes the largest fish, but New Brunswick the most abundant. The rivers in the former are mostly leased to individuals by the government, and of course closed to the public except by the consent of the lessees. That famous association called the Hudson's Bay Company, a kingdom within a kingdom, until a few years ago, were sole proprietors of fishing rights, but having taken pains worthy of our emulation to destroy the fish, the government curtailed their privileges, and passed stringent laws and regulations, which are set out in the appendix, for the preservation of the fish.

The rivers of New Brunswick are still free. The fly-fishing in Canada lasts till the first day of September, and in New Brunswick till the fifteenth; but

gut,

ıbl**e** lies,

be

pal-

ha

arge

ugh

ams,

ents

n or

and

ited.

not

The rgest

ivers the

cept

tion

in a

s of

our

iled

ula-

rva-

The

Sep-

but

t.

the net fishing terminates earlier, and in Canada all spearing or fishing by torchlight is stringently forbidden. These laws are, strange as it may seem to us, enforced with commendable energy in Canada, though in New Brunswick our mode of letting the people override the laws prevails.

The best river in New Brunswick beyond all comparison, is the Nipisiquit, emptying in the Bay of Chaleurs, and near it are several almost as prolific. In Lower Canada the Mingan, the Moisie, the Busamite stand preëminent, but have many rivals. Directions for reaching them have been given under the head of sea trout fishing, but instead of taking a sail-boat, as there suggested, from any port on the river St. Lawrence, the same might be done either from Bathurst or Prince Edward's Island, both of which are nearer the lower streams.

There are many excellent rivers on the coast of Labrador as far as the Straits of Belle Isle, or even farther, and they would be well worth a visit, either in one of our clipper yachts or in a fast schooner. Many are entirely beyond the real as of civilization, and a pleasant party night have a glorious time and abundant sport.

It would be necessary to take canoemen and canoes, or what is strongly recommended, small, light flat-boats that can be rowed or poled by one man, and which can be purchased for five dollars apiece at most of the gulf seaports.

Arm yourself, then, with two good salmon rods; they may be so made us to constitute a trout rod as well, not by any means one of those detestable nondescripts called a general rod, but two rods distinct with joints Stting to each other. Take with you two good lines, plenty of flies, extra gut and hooks, leaders and feathers, and a strong hook gaff, but not that dangerous, unwieldy instrument called a spring gaff. Thus equipped, go forth conquering and to conquer, and may good luck attend you. Seek any of the rivers we shall name, ascend them in your fragile canoe, station yourself early in the morning or at the approach of evening, choose your best fly, keep well out of view, cast far and light, and may you many and many a time be rewarded with the fierce rush of the mighty salmon, his struggle and final conquest, and may your sleep be sound and your heart at rest amid nature's primeval hills. May the black flies and mosquitoes spare you, may the sand-fly not find you out, may the heat be tempered to you by day and the cold by night, may you not lose your footing too often, nor fall too hard, and may your fish be the largest, strongest and bravest that ever were taken. May you receive that mercy which you show, never drawing one drop of useless blood, nor causing one unnecessary pang.

The aid of all good men and true is needed both by precept and example, to save the tenants of the water from final extermination. By putting restraint upon ourselves, never being guilty of wanton slaughter, by steadily urging measures for the preservation of the game, and by invariably obeying and compelling others to obey such laws as should be passed, we may be able to leave to our children a heritage of pleasure that bountiful nature has abundantly provided for ourselves. No fish are more defenceless and more readily destroyed than

a

trout and salmon; there are certain prerequisites to the continuance of the species that must be complied with. The fish must ascend to the fresh water to spawn, and if prevented by an improperly constructed dam, will quit the locality never to return.

ta

of

dy

rth

and

end

the

est

nay

erce

con-

t at

flies

you

the

ften,

gest,

you

one

ang.

h by

ater

pon

by

the

ners

e to

iful

fish

han

It should be known that, contrary to the usually received opinion, salmon cannot surmount a fall of much over ten feet; this, probably, is the full extent of their powers. And in effecting this, much depends upon the depth of water at its foot; the deeper it is the higher they can leap. They do not take their tails in their mouths, according to the ancient theory; to enable them to spring higher, but rush with their utmost velocity from the bottom, and are carried by their momentum a considerable distance out of water. Such a leap or a struggle against strong rapids weakens them, and they must soon rest to recover strength for another ascent. They thus congregate below each fall, and often make many efforts before they overcome it. They usually move at night or early in the morning. A dam of fifteen or twenty feet will effectually exclude them from any stream, but may be rendered innocuous at small expense by placing below the wasteway boxes of heavy wood, with a fall of not over five feet from one to the other. A salmon leaps from the river to the first, from that to the next, and so on till he has overcome the barrier. A broad sluiceway leading at a moderate angle to the pool below, will probably answer as well.

The fish, as they enter the rivers, may be deterred from entering, or all captured in nets spread entirely across the mouth, and when those that do pass have reached the spawning beds, they are peculiarly exposed to the cruel spear. At night, by this instrument, with the aid of flambeaux, hundreds may be killed and many more wounded and left to perish miserably. If they are to continue in reasonable numbers, nets must not be set close together, the spawning beds must be undisturbed, and the murderous spear utterly prohibited. these precautions and a regulation concerning the sized mesh that is used, this valuable source of pleasure, health and profit may not only be retained but indefinitely augmented; without such care the day is not far off when "the places that knew them will know them no more," when their bright sides will no longer gleam beneath the waves or glisten as they gambol in the sunlight, when the nets will cease to yield a return, when the fishermen, longing regretfully for their most valuable prize, will find their occupation gone, and honest and dishonest, fair fisherman and sneaking poacher, alike be overwhelmed in one common ruin. Surely we have too . much good sense, too much public spirit, too much energy and determination to submit to such a calamity; let us unite, then, in repressing unseasonable and unlawful fishing, in preserving and protecting the fish, and in restoring rivers that have been exhausted.

In the salt water, salmon never take the fly, and rarely bait of any kind, although they feed on sand eels and small fish in addition to shell-fish; but as they advance into brackish or fresh water, they either miss their natural food and become hungry, or get accustomed to feeding on grasshoppers and insects, and are deceived by the artificial fly, and will at times take the bait.

When they leave the salt water, the sea-liee that have fastened to them fall off, frequently to be replaced by fresh-water parasites, and this is sometimes given as the reason for their leaving the sea so early in the year, although they do not spawn till the Fall. While spawning they are unfit to eat, and after the operation are utterly exhausted. In this condition, when returning to the sea, they are termed kelts, the male being distinguished as a kipper and the female as a baggit. As the spawning season approaches, a curious cartilaginous hook grows from the lower jaw, which is supposed to be a provision of nature to prevent an unfortunate termination to the many desperate contests between the males at that period.

The habits of salmon are by no means determined; in fact, little is known positively about them. It has been even suggested that grilse are a distinct species, although it is hardly doubted with us but they are young salmon. Their times of visiting the fresh water are subject to peculiar individual exceptions; in fact, it may be said there are two opinions among fishermen, and persons who have watched salmon for twenty and thirty years assert that some are ascending while others are descending. Izaak Walton says that salmon spawn in August, which is directly contrary to the views of other English writers, and certainly not in accordance with the practice of our fish. Others again say they return to the salt water in September, and reascend the rivers later in the Fall. The young in all stages have been disputed over, and called by divers names, such as pinks, smolts, parr, brandling, samlet, peal, grilse, until one

osed with any are set bed, With sized ealth itely

when
uable
t and
ke be
re too .
much

m no

leam

mity; nlawnd in arely

and vance natufeedthe hardly knows what sort of fish he really has captured. Every writer has his theory, and the following is mine; it may be true or not, but the statements of fact are.

Salmon are never found in our rivers except in three stages: First, a little fish much like a trout, but with a larger eye and richer colors; they have no blue spots, but have darker bands on their sides; they weigh from half an ounce to half a pound. Second, the grilse, which is precisely like a salmon, except that it waighs from two and a half to six pounds. Third, the salmon, which weighs from eight to eighty pounds. Salmon first appear in the fresh water about the 10th of June, and grilse a month later. The main run of the former is from June 15th to August 15th in New Brunswick, and from June 10th to July 20th in Canada. The explanation of this difference is simple: the Canadian fish are much the largest, averaging double the size of their more southern brethren, and as the waters fall during the hot months of Summer, they must ascend earlier than smaller fish, and before the spring freshets have entirely subsided, or they would never reach the high waters at all. Straggling fish, however, are running up at all seasons, early and late, and a few probably remain in the fresh water the entire year, or descend only when they are sickened by a lengthened residence in an unchanged element. Salmon do not spawn in Summer, but in Winter, commencing not earlier, and often later, than October; the fish that ascend last probably spawn last. Then they return to the sea; but not at once, some remaining under the ice through the Winter, others going immediately. My theory, therefore, is that the young fish, whether you call them fry, or pinks, or smolts, or peal, go to the sea usually a year after their birth, but with no invariable regularity, and will then average six ounces in weight, many undoubtedly waiting till the Fall, or eighteen months after birth; that they return the succeeding July grilse; that the grilse spawn the following November, and after visiting the sea, reappear next Spring as salmon. The young fish are taken with the fly through the Summer in all the salmon rivers, and require a second glance to distinguish them from young trout, although they are very different, one decisive peculiarity being that their backs are arched or hogged, and another; as I have mentioned, that their eyes are large. The fry of trout-and recollect grown trout are not banded-have light sides, and are found usually in more quiet water. It would be well if sportsmen should call the fish in question respectively salmon fry, grilse, and salmon, and eschew all other fanciful names, as leading only to confusion.

Salmon are never taken in fresh water with any food in their stomachs; they are reported not to eat their young, and do not apparently feed on flies. The fry feed almost entirely on flies, and I have seen them pick off one after another as skillfully as a trout; but I have never distinctly seen a salmon take a natural fly. When they spring out of water, it is in play, and at such times, contrary to the rule with trout, casting over them will be in vain, they will not rise. Moreover, our flies do not in the least resemble the natural flies of the rivers, which are of a dull green, and the salmon rivers afford very few flies at best. Observe me, I do not refer to mosqui-

ared. ine;

three
ith a
, but
half
ch is
two
which
pear
lse a
June
June

this thern onths fish, d, or trag-

early
vater
ened
nent.
comthe

nder ely. you toes or black gnats, at neither of which would gentlemanly fish deign to look. My theory, therefore, is, that salmon do not feed during the spawning season, but are supported by the animalculæ in the water, and have poor commons at that, as their miserable condition soon testifies. Many varieties of fish live without apparent food, often with the additional disadvantage of infrequent

change of water, as goldfish in a globe.

When salmon first arrive in the harbors, they coast along the shore, and are then taken in nets, which are required by law to have a mesh too large to capture grilse; later, they leave the warm shallows, and follow the cooler channel beyond the nets, which are only permitted to extend a certain distance. The tide-water fishing is therefore practically over by the 1st of August. Net fishing above the salt water is forbidden, or at least subject to the same restrictions, which, if they were enforced, would almost put an end to it; but, discreditable as it may seem, and short-sighted as such conduct unquestionably is, this law is totally disregarded in many rivers, where of course the fish are rapidly diminishing. They spawn over gravelly flats and pools, covering up the ova after impregnation, and then descend slowly, greatly emaciated, ugly and woe-begone, to the sea. At such times, although they will still take the fly, they are unfit to eat, and while they notwithstanding frequently fall a victim to the cruel spear of the murderous savage, no true angler nor honest man will harm them.

Casting the fly gracefully and effectively is a peculiar art, hard to acquire, and picturesque to witness; it is altogether different from slashing the water, and almost

as difficult of mastery as the corresponding science of trout fishing. The rod, being long and comparatively heavy, must be held in both hands, which are changed occasionally so as to alternate that at the but, and teach the angler to cast over either shoulder. The line is lengthened to the proper distance, is raised with a springing jerk, swung out straight behind, and then again cast forward with the same springy motion. The work has to be done with the tip, which, except in casting against the wind, must be kept as elevated as possible. The stiffer the rod the more command the angler has over his line in avoiding the rocks and making the best of awkward places; but this is counterbalanced by the disadvantages of excessive weight and a stiffness in striking that frequently breaks the casting line. A rod will cast four times its length beyond the tip; one of sixteen feet, therefore, will cast sixty-four feet of line, ordinarily abundant; and although one of twenty feet will cover sixteen more feet, unless it is made of ceda it is uncomfortably heavy. A cedar rod would be perfection, but it is not to be trusted in the hands of a bungler.

When there is any current, and it is rare to take salmon elsewhere, the fly is cast across the stream and allowed to swing over the fish, which invariably lie with their heads up-stream. When a salmon intends to rise, he generally separates himself from his companions and waits till the fly approaches to the precise distance that

pleases him. Then

atle.

that

are

poor

esti-

ood,

uent

oast

are

ture

llow

per-

ater

gust.

least

were

edit-

duct

any

ing.

up

vly,

At

are

tly

ge,

iar iŁ

bst

[&]quot;Strike for your altars and your homes,".

cot too hard, but as quick as the lightning from the sky, and this although contrary to the English books, on the ground that a salmon, if he rises once and fails to touch the fly, will always come again. If, however, he has tasted the unappetizing morsel, and has not been hooked, for he is quick to spit it out, you will see him no more. If you fail to hook a fish on the first rise, it is well if you can keep your impatience under control, to rest him by casting elsewhere a few times, and if you fail to strike him on the third rise, change your fly. Salmon are extremely particular and dainty in their tastes, and it is never advisable to fish too long with one fly unless they take it well.

The great rules are—keep out of sight, change your flies and rest the pools. The best time of a clear day is early and late, and in the midday heat not a boat nor a line should disturb the water; in fact, a pool that a canoe has crossed is ruined for the day, and when there is no rising, there is little good in casting. A pool that is not disturbed at night would be found much better, as

a consequence, in the morning.

But after your fish is hooked, after he is played and almost played out, after you have exhausted him, and brought him skillfully and carefully to shore, he is not yet in the pot; nor will he be unless you have an assistant expert with the gaff. There are all sorts of directions about this important operation, some authors saying a fish must be gaffed in the shoulder, others preferring the tail, some the belly, and some the back, but, in fact, one place is as good another; the main points are not to miss nor graze him, and not to jerk so hard as to throw

him off the gaff. To prevent this, where you anticipate finding only awkward aids, it is well to carry a gaff with a small barb, like an ordinary hook. I have had the indescribable pleasure of seeing my fish flung across the boat, and dropped in the water on the other side. The moment the fish is struck, the handle should be held

perpendicular, so that he cannot flounce off.

The best size for this implement is a length of nine inches from the end of the shank to the middle of the bend, from the latter four inches in a straight line to the point, which should be delicate and sharp, and at least two inches and three-eighths from the inner edge of the shank opposite; the bend should swell out so as to be three inches across at its widest, and the end of the shank must be bent back and sharpened; the steel tapers gradually from the point to a thickness of one quarter of an inch. Being nothing more than a large hook, it is easily carried, and when wanted for use, fastened to any suitable stick by driving in the projection on the shank, and winding the whole with stout cord. For very large salmon, a stronger and larger gaff would be desirable, and for grilse a smaller one.

When fish run, and throw themselves out of water, some writers direct you to taughten your line; but I say, heed them not. Your line is well out and sunk to some distance, the very jump of the fish will consequently bring a great strain on the hook, without your aid, and many a fish is lost by such usage. On the contrary, if you give to him as he leaps, you diminish the tension, and then the quicker you take up the line after he has fallen back, the better. If, on the contrary, when he

s, on ls to r, he been m no

it is ol, to you

fly. their one

your ay is nor a lat a there that er, as

and not ssisirecying ring

act,

t to

row

106

leaps he is near by you, and your line straight and out of water, he will try and strike it with his tail to break it, in which he may also be foiled by giving to him. My experience is to this effect, and you will soon find out, if the fish are large and strong, how hard it is to do otherwise.

It has been said that four times the length of the rod beyond the tip is the utmost length of line that can be handled with dexterity; it is not meant that more cannot be cast, for I have often cast five times the length, but with an effort that soon becomes wearisome, and, if across a rapid current, without the requisite command. It is best to fish down stream, if possible, as otherwise your line sinks, and even in fishing across there will be considerable slack line. This is a second reason for rapid striking. There is another mode of managing a line, which is sometimes called casting, and by which a distance of eighty yards can be covered. The angler has a rod as thick at the tip as one's little finger, and a hair line as thick as the tip. Of course no reel can be used, as such a line would not run through the rings, or be contained on the barrel. The line tapers regularly to the fly. It is usually used in rapid water, and to cast, the fisherman waives his rod from side to side, lifting as much of it as possible clear of the water, and then throws out strongly with an underhand motion. The line rolls, as it were, raising itself from the water, as the impetus advances, till the fly is taken up and jerked over, so to speak, at an incredible distance. When a fish is struck he is drawn in by hand. I have not tried this proceeding sufficiently to speak positively, but think that

reak
him.
find

rod n be canngth, id, if nand.

rwise ll be n for ing a ich a

r has
hair
used,
or be
o the

the as then

s the over, sh is

this that

the heavy waxed lines now in general use would answer to a comparative degree. It is a difficult though not refined mode of fishing, and is the only way of casting eighty yards.

The following is a list of the principal salmon and trout rivers of Canada and New Brunswick, with the distances of the former from Quebec, and such information as could be obtained concerning their character and condition. Those marked in *italics* have been leased to private individuals, but the others are open to all comers.

The Jacques Cartier is the only river near Quebec which, at the present time, affords any salmon.

From Quebec to Murray Bay is . . . 78 miles. Here there is a river that furnishes a few salmon and many fine trout.

From Murray Bay to the Saguenay is 44-120 There is excellent sea trout fishing in the Saguenay and its tributary, the St. Marguerite, is a superior salmon river.

Superior salmon and trout river.

| Bersamis . | | | | | miles | 24 | -84 | |
|---------------------|--------|--------|--------|-------|----------|-------|------|-------|
| Affording in its | ribut | aries | man | fine | salm | on: b | etw | reen |
| it and the La Val | | | | | | | | |
| all poor salmon str | | | | | | | | • |
| Outardes . | | 1 | • | 1 . | | | 11 | |
| Manicouagan | | | | | | , | 16 | |
| Mistassini | | | | | • | | 12 | |
| Betscie . | | | | | | - | 3 | |
| Of these rivers | I can | obt | ain n | o sat | isfact | ory i | nfor | ma |
| tion. | | | 1 | | | , | | |
| Godbout . | | | | | 15- | 57 | 261 | |
| A celebrated sa | lmon | riv | er, or | ne of | the | best | in | the |
| province. | | | | | | | | |
| Trinity . | ٠. | • | | | 1. | • | 15 | |
| Good salmon and | d trou | it fis | hing. | | ٠. | | | |
| Little Trinity | - | • | | | | • 1 | 10 | |
| Calumet . | | | • | | • | | 3 | |
| Pentecost . | • | ٠ | 7. | • | | | 14 | |
| Not a salmon riv | er. | | | | | | | |
| St. Margaret | | • | • | | | | 36 | |
| One of the best s | almo | n an | d trou | t riv | ers. | • | | |
| Moisie . | | | • | . 2 | 4-1 | 03—3 | 364 | |
| Fine large salm | on a | re ta | ken i | n thi | is riv | er, a | nd i | it is |
| widely celebrated. | | | | | | | | |
| Trout . | | | | | | | 7 | |
| Manitou . | | | | • | • | ٠ | 35 | |
| Good trout fish | ing; | the | salm | on a | re ob | struc | ted | by |
| falls. | • | | | | | | | |
| Sheldrake . | | | | | | 100 | 16 | |
| Magpie . | | • | • | | | 10.13 | 22 | |
| Furnishes a few | salmo | D. | | |] = pr . | | | 25 |

| St. John | • | | | | | . 5 | |
|--------------------------|---------|--------|----------------|-------|------|------|-----|
| An admirable salmon | n stres | ım. | | | | | |
| Mingan | • | • | . 1 | 6-1 | 01- | 465 | |
| Probably the best ri | | | | | | | on, |
| and excellent for trout. | | | | | | | |
| Romaine | 1. | | | | | 9 | |
| An excellent stream | for bo | th sal | mon | and t | trou | | |
| Wascheeshoo . | | | | | | 53 | |
| Pashasheboo . | | | | | • | 18 | |
| A few salmon. | ٠. | | | | | | |
| Nabesippi . | | | | | • | 7 | |
| Agwanus . | | • | | | | 5 | |
| A fair supply of saln | on. | | | | | | |
| Natashquan . | | | . 1 | 4-1 | 06- | -571 | |
| Salmon fine and abu | ndant | | | | | | |
| Kegashka . | | | | | 4 • | 23 | |
| Salmon impeded by | falls. | | | | | | |
| Musquarro . | | | | | | 15 | |
| Affords good salmon | fishin | g | | | | | |
| Washeecootai . | | | | | | 12 | |
| Olomanosheebo | | 4. | | | • | 11 | |
| · Coacoacho . | | | | | | 18 | |
| Contains some salmo | n. | | | | | | |
| Etamamu . | | | 1 | | ٠. | 21 | |
| Fine salmon fishery. | | | | | | 4 | |
| Netagamu | , | 11 | | | | 16 | |
| A fine trout stream. | • | | | - / | | | |
| Mecattina | | | | | | 4 | |
| Good salmon fishing. | | | | | | | |
| На На | 911 | 100 | | | | 9 | |
| St. Augustine | 11 (1) | | and the second | | - | 6 | 4 |

rma

ween iche,

the

it is

by

In New Brunswick there are salmon in the St. John and its tributaries, but the best of the latter, the Nash waak, has been closed with an impassable dam. From St. John it is easy to take the cars to Shediac, and cross to Prince Edward's Island, where there is magnificent trout fishing, especially near Charlotte, and tolerable accommodation; or one can take the Quebec steamer to Bathurst and fish the Nipisiquit, which is admitted to be the best river in the province, or the Restigouche and its tributaries, an excellent stream, but much injured by spearing; or the Cascapediacs, which furnish some salmon and innumerable grilse. The Miramichi, between Shediac and Bathurst, is a fine large stream.

The streams in Canada emptying into the St. Lawrence from the south shore, are hardly worth mentioning as salmon rivers, having been ruined by mill-dams, with the exception of those that empty into Gaspé basin, but they all afford superior trout fishing. I would here remark, that where the name trout is mentioned in connection with the British Provinces, the Salmo Trutta Marina, or sea trout, is always intended; and the salmon fishing spoken of is fly fishing. The rivers that empty into Gaspé basin, such as the Dartmouth, York and St. John, are leased, as also the Bonaventure, that flows into the Bay of Chaleurs.

As explicit directions for travelling through the benighted regions called the British Provinces, the fol-

lowing are given from a somewhat unwillingly extended experience.

Take the night train or any route that will bring you to Boston before half past seven A.M., for at that hour the boat leaves for St. John, not St. Johns, which is in Newfoundland. If you are too late, you may still, by means of the cars, intercept the same vessel at Portland. This boat does not leave daily, but generally advertises in the New York and always in the Boston papers. It touches at Portland, where you may take a steamboat on its arrival to Calais, and proceed thence by railroad to the Scoodic River, where there is fine white, not sea, trout fishing, or stop at St. Andrews, whence there is a railroad in progress to Woodstock, on the St. John River. The Boston boat reaches St. John in about thirty-two hours, or at three o'clock; the fare is six dollars; the meals extra, and, consequently, extra good.

The Waverley House, in St. John, kept by J. Scammell, affords the best, though poor, accommodation, at a reasonable price. A train leaves on the arrival of the boat for Shediac, and makes the one hundred and ten miles in six hours, at a fare of three dollars. From Shediac a steamboat that connects with the train carries you to Chatham in twelve hours for three dollars and fifty cents, the meals being extra and infamous. At Shediac. John Q. Adams keeps the Adams House, and will furnish information by letter as to the time of the starting of the boats. Bowser's Hotel is the best in Chatham. From Chatham to Bathurst, forty-five miles, you are compelled to travel in a stage that only leaves three

ohn ish com coss

ble r to be l its by saleen

ing ith out ere on-

alat rk at

e l. 112

times a week, and never on the arrival of the boat, and will occupy ten hours of your time at a charge of three dollars and a half; or you may take an extra for sixteen dollars. If you hire one of Kelley, the stage proprietor, make a tight bargain, for he is Biblical and takes in strangers. In case you should be too late to reach Bathurst the same day, or have leisure on your hands, stop at the Half-way House on the Tabasintac, which has the last syllable accentuated, and fish that night and the next morning for sea trout. They are taken from a horse-boat in abundance and of great size.

In Bathurst there is a good hotel called the Wellington, kept by Mr. Baldwin, with the efficient aid of Mary; and also a more private establishment, by Bela Packard, which is the customary resort of Americans. There is a telegraph from St. John to Bathurst, and Baldwin will meet at Chatham any guests that send him word, and bring them to Bathurst for fourteen dollars. . In the latter place, Ferguson, Rankin & Co. will furnish all the heavy outfit, such as pork, biscuit, butter, tea, sugar, tobacco, and will have them ready put up if written to beforehand. As it is customary on the Nipisiquit to loan the guides blankets, the same firm keep them on hand, and will lend them to those that buy stores of them. Once or twice a month the Arabian leaves Shediac and stops within a couple of miles of Bathurst, and if you can manage to suit your time to hers, you can go direct and be ticketed through for ten dollars. Her days may be ascertained at the office of the Boston boats, but it is well to telegraph to Bathurst to have a cance to meet you, as otherwise you may have difficulty in reaching town from the landing. The same steamer and its associate, the Lady Head, run to Dalhousie, at the mouth of the Restigouche, or a stage for that place leaves Bathurst three times a week. The Lady Head does not stop at Bathurst, on account of her draught of water.

On the Nipisiquit it is customary to have a camp-keeper or cook for the party, and two canoemen to each angler; they furnish the canoe and receive one dollar a day each. The following are good men: John, Peter and Bruno Chamberlain; John makes a good fly, but is sulky and willful; Bruno is lazy; Ned Veno and David Buchet, both of whom are excellent and willing, and Fabian Bodereau, who is a fair cook. To save your men some heavy work, where you do not intend to fish the Rough Waters, you drive with your stores to the Round Rocks, the Pabineau Falls, or, if you please, even to the Grand Falls, but the latter part of the road is bad.

The only fishing on the Miramichi is above Boiestown, and to reach it you leave St. John in the night or day boat for Fredericton, arriving there in eight hours at an expense of one dollar and a half. The night boat runs three times a week. The best house in Fredericton is the Barker House, kept by Mr. Fairweather, and in this city you must get your supplies for the woods. The stage leaves every Tuesday and Friday for Boiestown, nominally at ten A.M., and reaches that collection of huts nominally at six P.M. The fare is two dollars and a half, and the ordinary charge for an extra is ten dollars, but remember the stage proprietor is Kelley. The best tavern in Boiestown is kept by Avery, but about five

and three teen ietor, es in

hich night aken

ands.

llinglary; kard, e is a will , and

h all
ugar,
en to
it to
m on
es of

She-, and in go Her oats,

each.

miles up the river, at Cam belltown, is a nice house owned by William Wilson, and the true plan is either to write to him to meet you at Fredericton, or drive over to his place. He will engage your men, aid you with the supplies, provide you with bread, besides making you generally comfortable, and you have gained so much in the ascent of the river. The stage from Boiestown runs to Chatham, and by that means you may continue to the Nipisiquit, but there is no reliance to be placed on it, and an extra from Fredericton to Chatham, one hundred and ten miles, costs thirty dollars. The stage fare is seven, and there is no telegraph to Boiestown.

One of the most interesting ways of reaching the various rivers of New Brunswick is by portaging from the head-waters of one into those of another. For instance, a steamboat leaves Fredericton semi-weekly, when the water is not too low, for the Grand Falls on the St. John; a few miles above, the Grand River debouches, from the head-waters of which a short portage of a few miles takes you into the Waugan, one of the branches of the Restigouche, or you may stop below the Falls and ascend the Tobique, a noble river, full of salmon, but which, strange to say, will not take the fly, and from Lake Nictou, the source of the Tobique, you can readily portage into Lake Nipisiquit, and by ascending the main forks of the latter, a short portage puts you on the Upsalquitch, a branch of the Restigouche, and abounding in salmon. Another confluent of the St. John, the Shiktahauk, is crossed at its head by the Royal Road, where a wagon can be had to convey your baggage to a branch of the Southwest Miramichi, and

house ther to re over a with ag you uch in a runs nue to sed on e hunge fare

g the from For eekly, lls on River port. e of elow ll of e fly, you endputs che, the the our and

from Newcastle, at the mouth of the latter river, you can ascend the Northwest Miramichi and strike the Nipisiquit near the Grand Falls. These are but a few of the simplest voyages that may be made, but a glance at the map, or a talk with any old Indian guide, will reveal many others.

CHAPTER VI.

NEW BRUNSWICK.

One bright moonlight night in the early part of Summer, a heavy wagon, drawn by two powerful horses, was bowling along one of the dreary level roads of the province of New Brunswick. It was loaded down with trunks on the rack, barrels under the seats, that were built on springs above the sides for that purpose, and bundles and bags innumerable in the bottom, and two long leathern cases that suggested salmon rods. It carried three men; the driver, tall and spare, with a shrewd eye, and long, curly, black hair, was turned half-way round in the seat, assuming an attitude that combined comfort with facility of conversation. On the back seat, a middle aged gentleman, whose hair and beard were silvered o'er, but whose eye was bright as in his earliest youth, and a younger man of stout build with brownish hair and beard. Their talk was of the forest, and many thrilling tales of danger, or exciting ones of the chase, were told; vivid descriptions of how the moose, the caribou, the red deer, met his fate; stories of the tiger, the wild boar, the rhinoceros and unwieldy elephant; or peaceful description of killing the beautiful trout, the fierce, striped bass, or the voracious mascallonge. The time wore pleasantly away as they passed along between

the sombre lines of spruce and hemlock and juniper, as they ran into the deep shade or emerged into the open moonlight till they came in sight of the Nashwaak. seaming the dark earth like a vein of silver, when a glorious view presented itself to their attention. Far away as the eye could reach, stretched the valley of Nashwaak, silent as the repose of death; not a sound but the rattle of the wheels broke the still air, while the moon bathed the rocks, the earth, the trees; with its uncertain light, formed weird shapes out of the foliage, or cast strange shadows across the road. Still on, however, scarcely pausing—as every true sportsman must pause before the beauties of nature—the party were soon lost in the shady descent that led toward the bank of the stream, whose course they followed some miles, crossing it beyond, over a high, substantial bridge. The road then branched off, traversing the unbroken wilderness, where for miles not a habitation was visible, till midnight found them amid a heavy shower at McCloud's, the half-way house from Fredericton to Boiestown.

The horses under the shed, a sound thumping on the door brought out the host, who attended to the wants of man and beast, and sent them on their way rejoicing, as soon as the storm had abated. There was little variety in the scene; the road was mostly level and good, the forest was of the same dull character, with many dead trunks towering up amid it; there were few houses and no settlements, and the country was principally one vast plain. As the morning light began to streak the east with grey, they came in sight of the peaceful Miramichi, and turning off from the main road across the

of Sumrses, was s of the wn with tat were ose, and

It carshrewd alf-way mbined

ek seat, d were earliest ownish many chase,

tiger, t; or , the

The veen

Taxes River, followed the course of the larger stream, till, nearly opposite a beautiful spring, where they had stopped to water their horses, they turned into a barway, and in a moment more reached Wilson's, their prospective head-quarters.

Wilson's habitation was a quaint-looking log house, perched on the edge of a bank overhanging what is called the interval, or fruitful stretch of level land lying between the river and the hills, and its evident antiquity bore testimony that it had belonged to one of the earliest settlers.

A ll-stocked garden, an extensive barn, a large drove of sheep and cows, suggested what an industrious and comely wife and daughter confirmed, that Wilson's was a well-to-do family.

As a general thing, the people of this region are of the most short-sighted possible character; they live for the present, and an easy way of making a dollar is irresistible, though it may entail the final loss of ten. The country is slowly going back to a savage condition; farmers, instead of attending to their farms, speculate in lumber, because it enriches one man in fifty; mortgage their farms, which are sold under forcclosures to strangers and allowed to grow up with weeds and bushes. Tens of thousands of acres are in this condition, and are being fast rendered irreclaimable. Instead of encouraging fishermen to come and spend money among them, although they admit it is about the only money they see, they annoy and overcharge at such a rate that they have driven away all but a few from Fredericton. of preserving and increasing the fish, they obstruct the eam, till. ey had barway, prospec-

house, what is d lying ntiquity earliest

a large ustrious Vilson's

e of the for the sistible, ountry rmers. ımber, their rs and ens of being g fishough they have steac the

channel entirely with nets, striving by one grand haul to destroy the supply forever. To this general rule Wilson is the only exception, and may be relied on, not only to do whatever in reason is required of him, but to do it at a moderate price. His only extravagant charge is for

driving to Fredericton to meet his guests.

The guides were waiting for us, and after making the requisite preparations and passing a comfortable night in the old log house, we started next day on our journey toward the head-waters of the Miramichi. Our canoes were made of the log of a tree, and familiarly called dug-outs, and were admirably adapted to the purpose. Being extremely long, sometimes thirty feet, and narrow, they offer every convenience for poling, draw but little water, and are not injured by contact with a rock, that would pierce the thin bark of the delicate birch canoe, and will hold their way better against a strong rapid. They are made of the trunk of some towering branchless pine-tree that the adventurous woodsman has marked during the winter for his own, and which, after being cut down, is transported to a convenient place, where it is hewn into the shape of the outside of the boat. Augur holes are bored in the bottom, and pegs, two inches long, are driven, to answer for guides as to thickness. The inside is then roughly hewn away, till the pegs are reached, when it is smoothed off, being left two inches thick at the bottom, and a half inch at the gunwale. Slender knees are introduced at proper distances to prevent its warping under the sun; a brace is fastened across from gunwale to gunwale, near the stem and stern, and the boat is complete. It is worth about twelve dollars, and having neither braces nor thwarts, but an open space its entire length, is convenient for holding a long rod, and being steadier under foot, offers many advantages over the birch canoe. It is particularly excellent in descending a shallow river, where occasional contact with rocks is inevitable; but is too heavy to portage comfortably. For rapid travel, either up or down stream, it is invaluable.

Our baggage was stowed, a comfortable seat made with the end of the tent upon the bottom of the canoe, our rods were rigged out for an occasional cast, and we commenced the ascent of the "Smiling Water." There had been heavy and continuous rains, and quite a freshet had now changed its ordinary placid exterior into one of angry turbulence. The river poured down fierce and wild, crested with foam and discolored with sand and decayed matter. But we made swift progress; starting five miles above Boiestown, we soon passed the last settlement, and entering among the mountains, amid which flows the upper stream, trusted ourselves alone to the dangers of the wilderness, to the mercy of the black-flies for our comfort, and to our skill as sportsmen for our support.

Ten months of close confinement in the city, years amid the horrors of civilization, had well prepared us to appreciate a return to man's natural state of savage life; long contact with vice and folly had made us eager to taste once more of truth and purity, the communion with nature uncorrupted and unsullied; to feel the air blow through the waving trees instead of down narrow streets; to hear the water rippling over its native bed,

thwarts,
ient for
ot, offers
ticularly
casional
neavy to

or down

at made
ne canoe,
t, and we
"There
a freshet
to one of
erce and
sand and
starting
the last
ins, amid
ves alone
cy of the
portsmen

ty, years
pared us
of savage
us eager
mmunion
of the air
n narrow
tive bed,

and not through Croton pipes; to see the sun shine from out the blue sky, instead of being reflected amid murk and smoke from heated bricks.

The spruce and fir-trees stretched in solid mass like a green wall on either side; occasionally, a white pine loomed above them, or a birch, with its satin bark, broke the dull hue; or where the landscape was more open, the graceful elm or willow stood forth in solitary beauty; and the juniper, with its endless names of hackmatac, tamarack, larch or cypress, waved its weird arms aloft; or the light, quivering poplar, with its never-resting leaves, cast an uncertain shade.

The weather had been changeable all day, occasionally bright and pleasant, the next moment dark and lowering—now the sun shining bright and warm over the hill-sides, then the rain driving in spiteful showers and veiling them in mist. The storm no sooner forced on our overcoats than the sunshine persuaded them off. Toward night, when heavier and blacker clouds obscured the sky, we determined to camp, and chose a point opposite a little tributary rivulet called Sandy Brook.

That evening and the next day were passed completing our camp equipage of tables, chairs, basins, and various little articles, and in waiting for the river to fall. During this time one of those pleasant incidents occurred that are intensely enjoyed in rough woodsman's life; two gentlemen who had been up the river and were returning, stopped and dined with us. There was a grand discussion over flies, resulting in a mutual exchange, and a general mourning over the condition of the water, with, how

ever, the encouragement that the freshet had destroyed the nets and let the fish up to the higher grounds.

Next day we killed our first fish of the season. gone above the island at the head of the pool opposite our camp, and was fishing slowly down, teking occasionally a brook trout, when there came a heavier rise, a louder plash, and a fierce run that made my reel discourse sweetly. The fish had struck me in the broken water, and it was uncertain what he was till suddenly he sprang twice his length out of water, showing the silvery sides and gleaming scales of the lovely grilse; again and again he sprang in air, making the water fly as he fell back, and doing his best to break the line or shake out the hook. Bravely he fought, taking advantage of the current to run out line, and rubbing against rocks to cut it through. In vain, foiled at each attempt, his strength rapidly diminishing, he was slowly brought nearer and nearer, till a dexterous blow of the gaff finished the struggle.

Joyful at the good omen, we hastened to our camp, and were met by my companion, Dalton, who proudly exhibited a similar trophy. There was a grand supper that night, and strong hopes that the flood would abate, hopes that were destined to a cruel disappointment when next day the stream was found to be higher than ever,

and heavy clouds portended a second deluge.

Our next camp was at Still Water Brook, a name that the present condition of that streamlet strongly belied. We did not, however, remain long, our sport being confined to grilse, and not many of those, and when an English officer, who had been fishing above, called to say he destroyed ds. on. I had ol opposite g occasionier rise, a l discourse ken water, he sprang

lvery sides again and as he fell shake out

age of the ocks to cut is strength

nearer and inished the

our camp, no proudly and supper ould abate, ment when than ever,

name that gly belied. being conen an Engto say he had taken all the fish he wanted at a station further on, we broke up camp at once, to the great disgust of our lazy cook, who thought he had cut his "sprunghungle," or stick that supports the kettle over the fire, for the last time. We pushed on to Burnt Hill, a famous camping-ground among all those that fish the Miramichi, and there, on the open point near the rock at whose base is the deep pool where salmon lie when the water is warm we established our sylvan home for the last time.

Burnt Hill is so named from having been burnt over, years ago, and is still a mass of dead and blackened trunks, that tower in fantastic shapes toward the sky. Next morning, having selected my choicest cariboo fly, Abraham pushed the canoe across the boiling torrent, so that I could fish near the rocky shore opposite. Having made several casts toward the bank, he swung the canoe in, and, running its nose on a rock, gave me a chance to fish the centre of the channel. I had hardly cast, when from out the curling wave rushed a mighty monster, which gleamed a moment in the sunshine and disappeared. I felt a heavy, dull strain on my rod, the fish swam deep and seemed unconscious of what had happened. Then, suddenly aroused to his danger, a magnificent salmon rushed down-stream and vaulted high out of water. Abraham glanced at me; I returned the look, but not one word was spoken. The fish returned to his former station, as though disdaining a struggle with a fragile cord and contemptible fly, and remained there some moments, heavily swimming round and round. Suddenly he became alarmed, and away he went, thirty yards at least, the line whistling through the rings and the reel hissing with the speed. He made

a splendid leap and paused.

I had just time to tell Abraham to swing his boat off the rock where she was resting, when the fish started again. Down he darted; the rod bent, the line flying through the water, and after him came the pursuers. He hesitated an instant above the worst rapids, and then sped down them; once in a while I could see him amid the foam and flying spray, as he rolled himself half out of water over some heavy wave; but my attention was occupied in keeping the line clear of rocks, and not exerting too much strain upon it. Admirably did Abraham handle the canoe. He was alone; the water seethed and boiled round us broken into a mass of fierce waves, small cascades and gleaming foam. It poured with raging current over high bowlders, and swept between narrow rocks. He stood erect in the stern, his eye taking the measure of every falls, the strength of every eddy; he swung the canoe's head first one way then another, easing her down over the higher waves, that, curling against the stream, broke over the bow in mimic showers, and pushing strongly through the circling eddies. Not a rock did he touch, not a moment did the boat escape from perfect command, and when we were launched upon the quiet bosom of the deep pool at the foot of Burnt Hill Rapids, the fish was on the line. We each drew a long breath and again exchanged It was a beautiful spot to kill a fish. The water, all white and raging above, formed a broad eddy, that washed the base of the rock on which I now stood. Although there was still a strong current in the centre,

He made

boat off h started ne flying pursuers. and then him amid half out attention , and not rably did the water of fierce It poured swept bestern, his rength of one way er waves, e bow in the circment did when we p pool at the line. kchanged sh. The ad eddy, ow stood.

e centre,

an expanse of clear water spread out at our feet, into which, after each rush, the fish could be easily led, and where his mad leaps were the only risk. It was our first fish, and I exercised the utmost care; not till he was almost dead did I force him to the surface, where Abraham, with one blow of his gaff, brought our prize to land.

What a beauty she was! The small, delicate head pronounced her a female, the destined parent of myriads cut off in her prime. The brilliancy of her flashing scales gave token that not long since had she been roaming free from danger along the shores of the seacoast, and her broad back and deep chest announced her heavy weight. Glorious in her outward appearance, our keen appetites pictured to our imaginations the rich red flesh in layers, with flakes of pearly fat between, the delicate thin sides of the stomach, the depth of solidity in her broad back. Our thoughts dwelt for a moment on the fine juicy flavor her fifteen good pounds would furnish for many a meal. But above all did we recollect with pride how well both of us had done in killing the first salmon in the Miramichi.

Mr. Dalton had been watching the contest from the bank opposite, and we returned together to the camp, where libations were duly poured forth in honor of our first capture, and preparations were made for a grand entertainment.

That evening around the fire, after supper was finished, and the genial pipe was soothing as well as invigorating our minds, and after several personal adventures had been related, Duncan commenced the following history of

THE GHOST OF DEADMAN'S LANDING.

"You saw that point of land we came by the other day, where I told you a dead man was carried out from the woods? Well, I was there when he was killed. We had been logging in the woods, and doing pretty well till we tried to draw out an uncommon heavy stick of timber. Sam Masters was with us-we used to call him Swearing Sam, from a bad habit he was given toand Sam had taken a great idea to have that stick of timber taken out before night; but the horses were tired and it was late, and after we had dragged it part of the way all but Sam proposed to leave it till to-morrow. But Sam insisted that he was not going to give up, and when we all agreed to quit, he got mad and swore he would have that timber out alone if he had to go to hell for it, and work till the day of judgment. We tried to persuade him off, but stay he would, and we left him with the horses and returned to our camp, which we had made at the landing. After supper was finished, and it began to be late, we became anxious about Sam, and when he did not arrive, at near midnight, all hands set out to look him up.

"We had not much trouble to find the horses; they felt cold and hungry, and were neighing for their supper, but were surprised to see the log rolled off the truck, and Sam gone. But the next thing we noticed was Sam's head just out from the edge of the log, that lay across his body. It was an awful sight; the moon was shining bright on his face, that was turned up toward the sky, but all swollen and discolored, with the eyes wide open and starting out of their sockets, and his tongue sticking out of his mouth, and the blood frozen round his nostrils and the corners of his lips. He must have been dead for hours. We had a hard time to roll the log off, and then he was mashed all out of shape, so we carried him the best way we could to the shanty, and next day wrapped him in a blanket and took him down the river. His wife was all struck of a heap when she saw him, for Sam was a good husband; if he did swear more than he ought, he never swore at her."

"He would have been squelched sooner if he had,"

put in Dalton, sotta voce.

"We felt pretty bad," continued Duncan; "but after a few days had to go back and finish hauling the logs, for we had a lot cut. It was cold weather, and the wind howled through the pines till semetimes, at night, we almost thought we heard hallooing in the woods, but no one cared to go out and see. About two weeks after our return, I happened to leave my axe where I was chopping, and as snow had begun to fall pretty fast, and it might be snowed over, I went back after it. I had forgotten precisely where it was left, and lost a good deal of time looking about, all the while the snow coming harder and harder, so that the track was soon covered. That was not much matter, for I knew the country well; but it was growing dark, and the snow blinded me, so that I could not see plainly.

"You may believe I did not delay any; but after hurrying on as fast as possible for an hour or two, thought things looked strange; the trees grew thick and the

d to call
ven to—
stick of
vere tired
rt of the
-morrow.
e up, and
swore he
to go to
ent. We
d we left
which we
finished,
out Sam,
Ill hands

the other

out from

as killed.

ig pretty

avy stick

they felt supper, e truck, ed was that lay on was toward ground rough and steep, and I could not tell where I was. I scarched about for some landmark, but it was almost dark, and after trying in vain, and having a heavy overcoat with me, but no matches, I was about to crawl under the roots of a dead tree and make the best of it, when I heard somebody shouting in the distance.

"There is no mistake, but I was glad, and sung out back, and clambered over the trees and stones toward the voice; but what was my surprise, on approaching, to see our own team, and one of the boys driving. They had no intention of hauling another log, and must have been foolish to think of it in that snow; but, stranger than all, when I called, did not stop or take any notice. To tell the truth, I began to feel mighty queer, especially as the driver was shaped uncommon like Sam, and I suddenly remembered that it was that night a month ago when he hauled his last stick of timber. I followed slowly along and never said a word; the driver, whoever he was, was riding on the log, and now and then his voice shouted out what sounded in the storm mighty like a curse. Suddenly the drag struck a stump, the horses made a spring, the log started, the driver tried to jump, but slipped, and the log fell on him with crushing force. There was an awful shriek in the next blast that drove a shower of snow in my eyes, and when I looked again, horses, log and man were gone. I knew well enough where I was then, and did not take long to reach the camp, when the boys hardly knew me, I was so white and dazed like."

"Let us see," said Abraham, holding his chin in a thoughtful way; "it was after that you swore off liquor?" where I it it was a heavy to crawl est of it,

sung out s toward roaching, g. They ust have stranger y notice. specially n, and I onth ago followed whoever then his ghty like e horses to jump, ng force. drove a d again, enough each the o white

nin in a liquor?" "Yes," said Robert. "The other boys hardly knew the liquor cask they had left in the woods next day, if I have heard right."

"You need not laugh, boys," said Duncan, solemnly; "there is no fun in seeing a ghost, and I had not taken more than a few drinks. Besides, you know how, next year, when Jake, and Dick, and some others were in the same camp, they heard Sam's old chest, that we had left there, creak as though some one had sat on it, and how the shanty door was taken off the hinges and held upright in the middle of the floor. And the black dog that left no track in the snow, but used to run along the ridge pole of moonlight nights, when nobody was in the shanty; and, finally, how the roof was all taken off when Tom's party was there, and although it was covered with snow, not a drop fell inside. No, no, spirits are no laughing matters."

"Especially prime spirits," suggested the cook.

"Jamaica or Holland, but I never heard of New Brunswick spirits before," said Robert.

"Well, I can just tell you one thing," said Duncan, aroused; "there is not one of you dare sleep in that shanty alone. Come, I will pole any of you down there to-morrow that would like to try. Who will go?"

A dead silence fell on the party, for, truth to tell, though bold enough round the fire together, the dwellers on the Miramichi are a good deal given to superstition, and not one of the party but some time or other had fancied he heard Sam's ghost shouting to his team of a stormy night near the landing.

"Well," said Abraham, slowly, "I never saw but one

ghost. It was a moonlight night, with a little snow on the ground, and I was alone, crossing a cleared lot where the stumps stood pretty thick, when I noticed, crouched down behind one of them, a figure of some sort that looked like an old woman. It had no bonnet or hat, nothing but a cap on its head; it wore a long, tattered dress, that blew about in the wind, while I could just make out a pair of thin, white arms; but her face was black as a coal. It is no use to say I was not scared, for I think I was. There were some crazy people about at that time, who had escaped from the madhouse; but I was pretty sure I could outrun any of them, 'speeially a woman, and I knew it was no use running from ghosts, so I concluded the best thing to do was to keep right along and pretend to take no notice; but, do my best, I could not keep my eyes off the old woman. I tried to whistle, but not a sound would come. I only blew a little, and not very steady at that. I tried to sing, but the first note I uttered made me jump ten feet; I thought it was somebody else's voice, as sure as fate. I had sidled off as far as I could on account of a gully there was, and did not like to go down that for fear she should think I was afraid. The distance between us was growing less and less, and as I watched her sharper than ever, she appeared to make one or two moves, and then stop; but all of a sudden, she jumped up, threw off her clothes, and started after me. I uttered one yell, and turned; but, as luck would have it, caught my foot in a root under the snow, and rolled headlong down the steep side of the gully.

"I do not know what I said, I think I prayed; but I

made considerable noise, anyway, and poked my head into a bush, and tried to burrow under the snow. This lasted some time; but hearing nothing more, and not finding myself killed, my courage returned; I took ou my head, and slowly crawled up the bank. Peering carefully over the edge, I saw a stump where the old woman had been crouching, burnt at the top, with some snow on it; there was a dead bush and roots at the bottom, while a little further off lay a quantity of dead birch bark, waving about in the wind. 'Abe,' said I to myself, 'you have been an awful fool to take a fired stump, a little snow, and some birch bark for a ghost. Never do so again.' And I never have, and have never been so scared from that day to this."

After a hearty laugh at Abraham's fright, Robert was

called upon, and responded as follows:

"I cannot tell you a ghost story, but one of as scared a man as ever was seen. It happened at this very place, too, when we were camped on this spot, and was brought to my mind by what you were reading to-day of the man hunting a grizzly bear, and leaving off because the track got too fresh. Jim Baker was with us. He had lived most of his life in the settlements, and had only just come among us, but could play the fiddle and sing a song, and must have had a good ear for music, for among the first things he did was to learn to call moose. He was uncommonly proud of the performance, and though he had never seen a moose, promised to keep the camp in meat. Well, he kept calling all the time, and sure enough one day, while we were camped here, a bull answered.

d; but I

snow on

eared lot

[noticed,

of some

o bonnet

e a long,

le I could her face

[was not

zy people

nadhouse;

hem, 'spe-

ning from

s to keep

ut, do my

voman. I

e. I only

I tried to

ten feet:

as fate. I

of a gully

r fear she

etween us

r sharper

loves, and

threw off

yell, and

foot in a

the steep

"A good hunter might call till he was grey before he could bring a moose in broad daylight right up to the camp; but it was a fool's luck, and sure enough we soon heard him rapping through the bushes, and then jump into the brook and begin wading down. Jim had out the gun, and started off to crawl along the edge in the bushes to meet him. We could see them both; Jim crept along as fast as he could at first, and the bull came faster yet down the stream without showing a sign of fear. Soon Jim began to go slower, and finally stopped altogether, while the moose kept right on toward him, till he was within fifty yards, when he paused and took a general survey. Jim raised the gun, but when he did so the animal seemed to have his curiosity aroused, and advanced several steps toward Jim, who lowered his gun, and backed a few paces till the moose stopped again. Jim again raised the gun, and again the moose advanced and Jim retreated. This went on till the moose became satisfied, and with a snort bounded into the bushes and was gone. When Jim came back we asked him why he did not shoot, and he said we need not think he was afraid; he intended to shoot, but did not know how the gun carried ball."

The next day my friend killed his first salmon, and strange to say, thus we continued to the end, each cat hing precisely the same number of fish. The days were beautifully warm, and rather given to weeping, but fresh and bracing; whereas the nights were deliciously cool, almost too cold for Summer, and demanded plenty of warm blankets. Living in the most primitive but confortable style, feeding off a rough table, and often cook

ing half the dinner ourselves, but with a glorious feeling of entire independence, the heavens above, the earth beneath, and all nature round us, we had a splendid time, and many fish came to our net.

Thus the pleasant days flew by; the sport ever honest, manly, invigorating and exciting, varying in luck, at times abundant in its yield, and then utterly unproductive—the uncertainty added zest; while the evenings and hot middays were enlivened with the story, joke or latest novel. Many an idle hour, when the sun shone too resplendent for the hope of sport, did we while away, the men seated or stretched at length in various picturesque attitudes, and one of us reading aloud. But the time came when this was to end, and on the eleventh day the edict was promulgated to break up camp and return.

The tent fell and was packed, the pots and pans were huddled together, our camp stores stowed, and we reëmbarked for the descent of the river. Keeping rods ready for an occasional cast, we swept along; the water was high, our men were good boatmen, the canoes were strong, and we rushed through the foaming torrent at a gallant rate.

At Rocky Bend my friend struck five fine grilse successively, and lost all but one, much to his chagrin. He laid it to the size of his hooks, alleging they were too large; but what genius will arise to explain how it is that salmon break away without any severe strain on, or damage to, the tackle. Is it a defect in the shape of the hook? If so, should it bend to one side, or curve in or out at the point? Or is it in the force of striking, or place

we soon
en jump
had out
e in the
th; Jim
ull came
sign of
stopped
ard him,
and took
en he did
used, and
his gun,

efore he

dvanced became shes and why he he was how the

d again.

non, and
ch catchays were
out fresh
sly cool,
lenty of
ut comen cook

where the hook holds? The matter is so complex, that the most careful investigation has left me even without a theory. Some of my friends swear by one of the above plans, others by another; I have tried them all, and still the fish escape as frequently as ever.

As we approached a well-remembered spot where I had taken a fine grilse in ascending, Abraham slowly said:

"Take care as we come down to this pool, for I am like the man that once shot a bear at a cleared spot just below, and whenever afterward he came to the same place, he clambered on the highest stump, and looked around to see whether there was not another bear. Wherever we took one fish, I always expect to take another."

I told him it was somewhat the same with me, but in that instance we were doomed to disappointment—there was no second bear.

At Sandy Pond we made our camp for the night, as my friend had never seen a fish killed with the spear, and, although admitting its unsportsmanlike character, wished to experience how it was done.

When darkness had settled down, our men kindled a flaming fire of pine knots, in an iron basket attached to a pole that projected from the bow of the canoe, and seating my friend amidships between them, pushed off. They pulled against the stream, the bright light bringing out the stones at the bottom of the water in strong relief, exposing everything within a radius of twenty feet. Behind it stood the spearsman, erect, his quick eye glancing in every direction, the firelight falling upon

ex, that without of the hem all,

where I

for I am
spot just
the same
d looked
er bear.
to take

e, but in pt—**t**here

night, as ne spear, haracter,

cindled a ached to noe, and shed off. bringing ag relief, aty feet. cick eye ng upon

his reddened visage and illuminating his many graceful attitudes. With rapid motion he swung the spear from side to side as any passing object attracted his attention, ready for the death-dealing blow. With perfect facility he kept command of the boat, shoving her bow from the rocks and guiding it through the proper channel; occasionally the spear was sent glancing through the water, and in a moment a grilse brought struggling to the surface and thrown into the bottom of the canoe, where the fire rays were reflected from his scales like the liquid gleam of the diamond.

It was a picturesque sight, the waving flame, the active spearsman, the graceful canoe, and the intense darkness around; but it was cruel and barbarous, and my friend desisted before many fish had suffered.

Next day returned us safe and sound to Wilson's hospitable log mansion, where a hearty welcome awaited us. Our extra stores were divided among the men, a farewell spoken, the team once more harnessed, and we set out to join the stage at Boiestown for Chatham, on the road to the Nipisiquit.

A strange place is Boiestown; built by an American named Boies, it is a mere collection of unpainted shanty-like houses but with Yankee shrewdness, located upon a fine stream of never-failing water, with excellent mills and water power, it might have been a thriving place had not Boies, its presiding spirit, met with reverses. The maelstrom of lumber speculation had ingulfed him, and with him the prosperity of the town. There was no native capable of filling his place, and the glory of Boies town had departed.

The stage was due at six o'clock, but at six o'clock it did not come, nor at seven, eight, nine nor ten. We told Wilson to return for us in the morning, and retired to rest in the nearest tavern, leaving word to be called when it did come.

At midnight there was a pounding at the door announcing the arrival of the conveyance that was to carry us and our baggage, two heavy trunks, seventy miles. It was a light one horse-wagon. We went to bed again, and next morning found the stage-driver still at Boies-

town, having turned out his horse to graze.

Wilson, however, soon arrived, and we started on that dreary road, following the descent of the Miramichi to its mouth. There is one, and but one, pretty view in the entire seventy miles, and that is as you ascend the first mountain beyond Boiestown. Looking back, the peaceful valley that we had just left, stretching away to our camping-ground, lay basking in the sunlight. In the distance, scarcely visible among the trees, were the few houses that compose Campbelltown; nearer was the straggling village of Boiestown, and at our feet ran the placid river, leaving broad intervals upon its banks, and meandering between smiling islands. The hay was ripening in the meadow, the oats were still luxuriant in their fresh green, the bushes lined the occasional fences or marked out the narrow swamps, while here and there were dotted the majestic white pine, the towering spruce, the noble elm or the graceful willow, and a dead tree now and then stretched its ungainly limbs toward the clouds.

Beyond, however, we fell into one dull, dreary routine; civilization was behind us, the few farms once cultivated

clock it
We told
tired to

to carry tiles. It d again, t Boies-

on that michi to view in cend the ack, the ng away sunlight. es, were arer was feet ran ts banks, hay was riant in al fences nd there g spruce, ree now e clouds. routine; ultivated

were falling back into their savage state, the houses tumbling down, the barns in their last stages of dilapidation, everywhere windows broken out, doors off their hinges, huge cracks in roof or walls, told of general decay. The people had fled, no one knew whither; and of the few that were left, the stupidity, avarice and extortion were incredible. They impose upon and annoy travellers and fishermen till they have almost driven them away. The stages fail to run or to connect as they undertake to do. No one appears to know their times of starting or arriving. Boats advertise to leave on days when they never have left, to stop at places that are not laid down on the map, but are colloquially applied to an entire district; and omit places where they do stop. No man knows anything except his own individual business, and but little of that. The inhabitants mainly draw their support from the river, and yet are busy day and night endeavoring to ruin it; the nets from opposite shores lap over one another or reach from bank to bank, and are set week in and week out, while there is a fish running; the smallest mesh is used, small enough to capture trout or herring. The few fish that lo reach the spawning beds are chased with the merciless spear without cessation till long after they are worthless as food. Yet the people think the river has improved because the laws are partially enforced at its mouth. Netters complain of the spearers, and the spearers of the netters, but neither do anything but harm. The upper stream is alive with nets, although netting should be permitted nowhere above tide water. The only crops of the region are potatoes, oats and

hay; for nine months there is rigorous winter, and for three months cold weather. The great productions are black flies, midgets and mosquitoes. The Lord help such a people, for the people will never help themselves. Let my blessing remain with the land; I shall never return for it.

The river itself is not only lovely to contemplate but would afford to reasonable beings abundant support. In May and June the Gaspereau or alewives, a species of herring, Alosa Tyrannus, make their appearance in myriads, and ascend to the lakes to spawn; in June and July the beautiful sea trout appear in shoals and urge their course to the head-waters and the cool brooks; in July and August come the splendid salmon, struggling against every impediment that the wit of man, or want of wit, can place in their way, to perpetuate their species for that foolish man's support, and build their nests in the broad sandy pools. The lively, energetic grilse come last, fighting vigorously to reach their sylvan homes. Not one of all these races is taken fairly or properly, nor when his destruction will do most good and the least harm.

Having dined at Decantelon's, we reached Lynch's by dark, where we supped and passed the night, and next day, after breakfasting at Magee's, arrived at Newcastle by nine in the morning. Seeing a boy, my friend inquired:

"Boy, when does the stage leave that runs to Newcastle?"

"A'most any time; one has gone, but there will be another going in an hour or two."

and for ions are rd help mselves.

plate but port. In pecies of rarce in June and and urge cooks; in truggling , or want air species r nests in tic grilse ir sylvan fairly or nost good

ynch's by and next at Newmy friend

to New-

e will be

"Where does it start from? We must inquire for ourselves, I see."

"Oh, anywhere round the streets; up one street and down another."

"Now that cannot be," continued my friend sternly; "it must start from some place, and we do not wish to miss it."

"Well, it will be along; it goes all around."

"It has to cross that ferry, I believe," said my friend, almost savagely.

"Yes," said the boy.

"We will wait there where it cannot miss us."

"Why, there it comes now; don't you see it on the other side of the river?"

Sure enough, there it was; and from that moment it never escaped our eye. There was a post-office near by.

"Postmaster," said my friend, "as you must know, on account of your official position, will you tell me when the Princess Royal leaves Chatham for Shediac."

"Oh, yes; every Monday and Friday. It is advertised in the paper."

"Now there is some satisfaction about this," and out came his note-book. "Every Monday and Friday—ah, yes, the paper says—— Why, the paper says Monday and Thursday!"

"Impossible! So it does; why she never sails on Thursdays. There must be some mistake."

"Somewhere no doubt," said my friend, despondingly, returning the note-book; nor was he much relieved by being afterwards informed by the stage-driver that she sailed neither Thursday nor Friday, but only Monday.

At Chatham, Mrs. Bowser received us hospitably and noisily, and there we met some good sportsmen and fine fellows. The sportsmen are the salt of New Brunswick earth; they have not a trait in common with the other inhabitants, but are jovial, friendly and open-hearted. One cannot know too many nor see too much of them. We owed them many thoughtful attentions, which we will repay to them or others of the race of fishermen, passing on the obligation.

Forty-five more miles of weary road, crossing in its course the Tabasintac, that splendid trout stream, and we reached Bathurst, where we found the guides awaiting us at the Wellington House, having received our telegram, and next day we began "life in the woods" once more.

Our camp was pitched at the Round Rocks, the lowest fishing station on the Nipisiquit, whither we drove with our luggage in a wagon, and met the canoes. Our rods were hastily put together, and in Rock Pool, at the second cast, I took a fine grilse. Others followed, and next day came the salmon. Splendid fellows just from the sea, their scales resplendent with the reflected light of their ocean homes; solid, strong and brave, leaping again and again, madly disdaining restraint, and fighting fiercely till the last. The water was strong; in some places the rapids were impassable. Sad to tell, the fish knew it, and alas, too often darted down them, whisking their tails in joy at their recovered freedom. Our sport was magnificent.

After fishing the Round Rocks and the Bush Falls, we ascended the river to the Pabineau Falls, where we

ably and and fine runswick the other n-hearted. of them. which we ishermen,

ing in its ream, and les await-ceived our ne woods"

the lowest drove with Our rods ol, at the owed, and just from ed light of e, leaping d fighting in some l, the fish whisking Our sport

Falls, we where we

paused only to exchange friendly greetings with two fellow fishermen, and continuing through the dark, silent waters of the Bittabock, dined at the Middle Landing, where the stream pours seething in its narrow channel between high rocky banks, and where it is said to be six fathoms deep. We passed another angler at the Chain of Rocks, and reached the Grand Falls and pitched our tent on its precipitous shores by sundown.

Wild indeed is the scenery at the Grand Falls, the highest point the salmon reach. The falling water, in long ages, has worn away a channel between high bluffs, and now, in ordinary seasons, pours through a narrow gorge that once could be leaped across, but which has been blasted to admit the passage of timber. The sheet of water falls in a mass of foam some forty feet, the spray rising in volumes, and producing in the summer's sun a beautiful mist rainbow. The granite rocks have been worn in deep holes by revolving bowlders, and in winter the whole chasm, filled with ice and water, must be grand and impressive in extreme.

There is a smaller, second fall, which the salmon occasionally try to leap; but they spawn in the pebbly beds below, the whole course of the stream, especially at the basin a short distance from the falls.

The principal natural fly of the Nipisiquit is about three-quarters of an inch long, has a yellow body and orange tip, two short whisks and two long, yellow antennæ, six thick yellow legs, a large, black head, a thick yellow body with nine rings, and four reticulated, dull yellowish, transparent wings. They are not very abundant, but there are many small nocturnal flies, that will be drawn together with a light in swarms.

It is extremely interesting to stand on the rocks overhanging the river and watch the salmon, their every motion distinctly visible, and their numbers readily counted. When one is casting the fly, his companion can see the fish move to take it, and call out when to strike. Salmon seem to rise very slowly and deliberately and can be observed of a bright day together in crowds, holding their own against the current with a scarcely perceptible effort. Not one in a hundred will notice the fly; ordinarily nothing but the fins are in motion, but occasionally an individual will give a flirt and turn up his side, which flashes like silver through the water.

We fished the Camp, the Falls, the Rock and Cooper's Pools with great success; the fish were numerous, fine conditioned, large and strong. We had many a fierce contest; often was our line run out for seventy yards; the fish made splendid leaps and vigorous rushes, but we lost very few, as there was but one bad place. That was below the Falls Pool, where a stake had caught in the middle of the current; I found its locality by losing a

fine grilse and a casting line.

The days were on most pleasantly; salmon occupied all our thoughts. The first thing in the morning we looked for salmon, then we fished for salmon, then we breakfasted on salmon, and then again fished for them; then made flies to catch them, next dined on them, again fished for them, and then supped off them, and lastly dreamed of them. But the happiest and longest of summer days must end; our time came to return, and the camp was struck.

The river is quite evenly divided between the various stopping-places, and it is almost exactly three miles

between each. There are six good fishing places: the Grand Falls, Middle Landing, Bittabock, Pabineau Falls, Round Rocks and Rough Waters.

We stopped at our original camp, the Round Rocks and there we struck our last fish. My friend hooked in the middle of the current a noble specimen, that gave such splendid play that I laid down my rod to witness the contest. The bright sides of the fish, as he leaped again and again out of water, proved that he was fresh run and strong, an impression his fierce rushes confirmed. He was played with great care and delicacy; but alas! suddenly darted across the current, took a turn around a rock, and returning passed round another. All hope was given up, but when the canoe was skillfully pushed across after him, he was found to be still on and the line uninjured by the smooth rocks. My friend, greatly rejoiced, had another severe contest, and foiled two determined efforts at escape down an impassable rapid, and when compelled to follow him through some very rough water, did it in a masterly style, standing erect in the canoe, which was ably handled by the two Chamberlains, and guiding the fish through the safest channel. Nearly an hour had been expended, and the fish, almost exhausted, made one last effort to reach the next rapid, and being prevented, came alongside, feebly turning over and over. My friend unfortunately had put on a double leader and could not reel up short, so the salmon lay deep under water, dimly seen, when John attempted to gaff him. At that instant the fish turned, the gaff slipped, he made a rush into the current, and one cry from my friend, "There, he's off," told the tale. The line sprung up into the air, we looked

when to iberately a crowds, scarcely notice the otion, but I turn up rater. I Cooper's erous, fine

ks over

ir every

readily

mpanion

erous, fine
y a fierce
yards; the
ut we lost
That was
ght in the
y losing a

occupied orning we then we for them; tem, again and lastly at of sum, and the

ie various ree miles at one another in silence; the occasion was too sad for words. My friend sat down upon the rocks in despair; I felt for, but had no power to console him. At last, slowly and sadly, he broke the mournful silence: "Let us go home," he said; and we went.

Good bye, lovely Nipisiquit, stream of the beautiful pools, the fisherman's elysium; farewell to thy merry, noisy current, thy long quiet stretches, thy high bluffs, thy wooded and thy rocky shores. Long may thy music lull the innocent angler into day dreams of happiness. Long may thy deep holes afford secure havens of safety for the salmon, where they can bid defiance to the rapacious net and murderous spear. Long may thy romantic scenery charm the eye and gladden the heart of the artist and welcome the angler to a happy sylvan home. And often may I visit thee, beautiful Nipisiquit!

sad for lespair; At last, : "Let

eautiful merry, h bluffs, y music appiness. of safety the raparomantic the artist ie. And

CHAPTER VII.

WHITE TROUT OF THE SCOODIAC, OR ST. CROIX.

I am unable to give a scientific description of these beautiful and delicious fish, and believe they have never heen properly described. They however closely resemble a dwarfed salmon, and have been supposed to be these fish landlocked, prevented, by a natural or artificial obstruction, from completing their annual migrations to and from the sea. The better opinion, however, is that they are a distinct fish, and the color of their sides naturally suggests the above appellation, although they have no popular name. The name Scoodic is applied generally to the St. Croix River, its lakes and tributaries, and in Maine they are known as the St. Croix Trout, in New Brunswick as the Scoodic Trout, while Mr. Perley suggests that they may be the Grey Trout.

They are, however, extremely tame and numerous, take the fly readily, afford excellent sport, and delicious eating. They weigh from one pound to four, and may be taken in hundreds. The season commences about the first of June, and lasts throughout that month, and the best flies are the gay ones, composed mainly of feathers from the golden pheasant. The scarlet ibis and Irish

lake flies are prime favorites.

The steamer of the International Line, from Boston or

Portland, connects at Eastport with a river boat for Calais, whence there is a railroad to Lewis' Island. From Lewis' Island it is nine miles to the fishing-ground, six of which are by water and three by land. A man named Goole will take the baggage over the portage, and the best fishing is above the Grand Falls, between the first two lakes. Inquiries must be made at the time about the necessity of carrying the canoe across the portage, as often no canoe can be obtained at the fishing-ground. Of course the angler must expect to camp out, and will provide himself accordingly.

Note. Since the above was written these fish have been examined by Professor Agassiz, and pronounced to be sulmon.

From und, six A man portage, between the time the portage ishing amp out,

xamined by

CHAPTER VIII.

WHITE-FISH.

Coregonus Albus—Attihawmeg.—Although included in the salmon family by having the second dorsal adipose, and the fin-rays soft, this fish differs totally from either the trout or salmon. It has minute velvet-like teeth, scarcely perceptible to the touch, except on the gill-arches, where there is a row of long and slim ones, like bristles; the scales are large and the body compressed like that of a shad, and it has been called the Fresh-water Shad. The mouth is very small, utterly unsuited for seizing the prey on which the trout and salmon feed; the color of the back is greyish blue, and the sides white.

Fin-rays, D. 13.0; P. 17; V. 12; A. 13; C. 19; the second dorsal being adipose.

The proper appellation for this fish is the Indian name, Attihawmeg, and if sportsmen would in all cases follow the names used by the aborigines they would show more sense than the common people of our country, who think every fish with a spiny back fin must be a bass, and every other a trout. The Attihawmeg abounds in Lake Huron, where it attains a weight of twelve to fourteen pounds, and is tolerably abundant in Lakes Erie, Ontario and Michigan. It feeds on mussels

and shellfish, or on aquatic plants, and is usually taken in nets. The general opinion is that it will take no bait, natural or artificial; but it might be tempted by the artificial fly, or perhaps the cray-fish. It is the finest fresh-water fish of America upon the table, having no rival that approaches it in excellence except the Otsego But being extremely delicate, it should be eaten immediately on leaving the water, and is never in condition in the cities. If it has been frozen, as is always the case in Winter, the Attihawmeg is utterly worthless. It is unsurpassable split and broiled, very similar in appearance and flavor, only much superior to the shad. It is not properly a game fish, whatever may be thought of its delicacy of taste and appearance, but a description of it is necessary to complete the series and to distinguish it from certain others.

taken
to bait,
by the
finest
ing no
Otsego
e eaten
condiays the
ess. It
appearIt is
ht of its
ion of it

guish it

CHAPTER IX.

CISCO.

I RECORD a description of this fish for the purpose of calling to it the attention of those who have the requisite knowledge to determine what it is, and beg naturalists, if it is still undescribed, to leave it its own pretty, original name. It inhabits Lake Ontario, near its outlet into the St. Lawrence, and is taken in the neighborhood of Cape Vincent. It is one of the Coregonus group, but neither the White-fish, Attihawmeg, Coregonus albus, nor the Otsego Bass, Coregonus Otsego. It may be related to the Coregonus clupeiformis, although differing much from the meagre description of the latter in the accounts copied one from another, of Dr. Mitchill, Lesueur, and Dr. De Kay.

The Cisco is not so compressed nor deep as the white-fish; the teeth are more delicate and velvety, and in the gill arches are a few long, distinct, slim teeth or bristles. The mouth is smaller than that of the white-fish, and when open, perfectly square. The scales are similar to those on the latter, but the tail is so delicate as to make counting the rays mere guesswork; the point of the tongue is hard, the back colored green, the sides silver white, while the first ray of the pectoral, ventral and anal fins is darkish. The first dorsal has ten soft rays,

the second is adipose; the pectoral has fourteen soft rays, the ventral eleven, the anal twelve, and the caudal, as well as I could count them, fourteen. It is a very beautiful and delicate fish, more so even than the whitefish.

The cisco is taken at Cape Vincent, with the eel-fly baited on a small hook and dibbled along the top of the water, and is said not to notice any artificial fly. I unfortunately had no chance to try, though I saw them rising and taking the natural fly readily. They do not rise with the rush of a salmon or trout, never springing out of water, and simply show their heads as they seize their prey. The eel-fly is a fat and sluggish fly, and it may be that the fish rising slowly, as they naturally do, would discover the deception even if an imitation eel-fly were offered to them. This fly, as I have elsewhere observed, is similar, both in appearance and habits, to the famous European May-fly.

The fish known as the lake herring, salmo clupeiformis, although very similar in appearance, has certain distinctive characteristics; for instance, there are minute teeth on the tongue, and the fin-rays, as I make them, are—

D. 12; P. 16; V. 11; A. 11; C. 19; B. 9.

According to Lesueur-

D. 12; P. 16; V. 12; A. 14; C. 195.

In the lake herring I also found the first ray of the dorsal the longest, although Lesueur says it is simple and short; the tail is deeply forked. The dorsal terminates nearly opposite the ventrals, and the second dorsal is opposite the centre of the anal.

en soft caudal, a very white-

of the I unform rising rise with of water, ir prey. be that discore offered, is simius Euro-

lupeiforrtain dise minute ke them,

y of the s simple al termind dorsal

CHAPTER X.

OTSEGO BASS.

Coregonus Otsego.—This fish must be carefully distinguished from the Oswego Bass, there being no resemblance except in the stupidity of confounding by name one of the perch family, to which the latter belongs, with one of the salmon family, to which this belongs. The Otsego Bass is closely allied to the white-fish, but has numerous dusky longitudinal lines on the sides. Its mouth and scales are small, and it appears to have no teeth except the bristles on the gill-arches. The lateral line is nearly straight, and the tail is deeply forked. The back is a rich blue, fading into green, the sides brilliant with mother of pearl, and the belly gleaming like molten silver. The rays are as follows:

Br. 9; D. 13; P. 17; V. 11; A. 11; C. 22.

The second back fin, as in all the salmon tribe, is adipose and rayless.

These fish have as yet only been found in Otsego Lake, where they are rapidly diminishing in size and numbers. They are not known to take any bait, and are presumed to feed on aquatic vegetation. Early in spring they seek the shallow water for a few days, when they are taken in nets; but shortly retiring to the deepest water, they remain till Autumn, when they

again seek the shores to spawn. They never exceed four pounds, and rarely two, and though undesirable on table, are not a sportsman's fish, and have been described only that they may be distinguished from other species.

rable been from

CHAPTER XI.

THE BLUE-FISH.

Temnodon Saltator—Scomber Plumbeus (Mitchill)— Horse Mackerel—Green-fish of Virginia—Skipjack of South Carolina.

This fish belongs to the mackerel family; it has projecting teeth in the fore part of the jaws, and velvety teeth on the roof of the mouth and tongue. The first dorsal lies in a furrow, and there are two minute spines concealed under the skin before the anal. The scales extend over the head, gill-covers and high on the fins; the back is bluish-green, and the sides and abdomen lighter; the pectorals, second dorsal and tail are greenish-brown, while the ventrals and anal are white, tinged with blue. The gill-cover has two indistinct flat points. The finrays are as follows, the spines being distinguished from the soft rays.

D. 7.1.25; P. 17; V. 1.5; A. 1.27; C. 192

These fish furnish one of the most remarkable instances of the appearance and disappearance of species on our coast. As in our day, with the Spanish mackerel, that darling of the gourmand, so in former times, the blue-fish appeared suddenly. He was first seen on the coast of Massachusetts in 1764, and then not again till 1792; and it is only since the year 1830 that he has been abundant.

He seems to have superseded another and larger fish of the same name, and as his numbers augment, those of the weak-fish, otolithus regalis, diminish. The blue-fish has singular vagaries, sometimes crowding every inlet in swarms, and then deserting us altogether, visiting in one season one locality and in the next another, but ordi narily frequenting our entire coast north to Massachusetts.

They afford excellent sport on a rod and line, being among the strongest and boldest of their kind, taking the fly readily, and making fierce and well-sustained rushes; but from the localities they usually frequent, they are mostly taken with a hand-line from a sailboat. An artificial squid of bone, ivory or lead, is trailed along at the end of forty yards of stout line, from a boat dancing merrily over the waves under the influence of a fresh mackerel breezc. The boatman's business is to watch for a shoal, which can be seen by their breaking, and when he has found it, by repeated tacks to keep the boat in or near it; the fisherman's duty is to haul in steadily and regularly immediately on feeling a bite, and to get out his line again as soon as possible. The fish dart forward, and throwing themselves out of water, turn a complete somersault, when, if the line is not taught, they will throw the hook out of their mouths. The dashing of the waves and flying of the spray, the rapid exhilarating motion of the vessel, the fresh sea-breeze, the rapid biting and fine play of the fish, make a day pass pleasantly if they do not afford scientific sport.

Blue-fish attain a weight of thirty pounds, and the largest being usually taken outside the bars, beyond the breakers, are a source of much amusement to our yachts-

men; but the arms of the fisherman soon weary, and their hands, unless protected by leather gloves, are often seriously lacerated. The fishing can hardly be said to begin till July, and continues till late in the Autumn; the smaller fish are taken early.

If cooked when just out of their native element, these fish are excellent, but they soon lose their flavor. They should be broiled, or split and nailed on a shingle and roasted quickly before a hot fire.

Undoubtedly they could be taken with the trolling spoon, and a stout leader of double gut running on swivel traces attached to a dark hand-line would add greatly to the success. In fact, like all other fish, at times they are shy and must be fished for with fine tackle, and then the rod and line come into play. In fishing with a rod from a sailboat, the moment a fish is struck the sheet is eased off, the boat run up into the wind, and the fish killed at leisure; if the boat were kept in motion, the strain would be too great for the rod and reel.

One of the favorite haunts of blue-fish, although they frequent the entire length and breadth of the Great South Bay of Long Island, is Fire Island Inlet; and there, of a bright summer day, may be seen congregated the white sails of fifty boats tossing about in the roll of the breakers, clustering together as the shoals collect, or scattering far out to sea in the hopes of better luck. There, when the wind blows, they may be seen under double reef, plunging along, throwing the spray from their bows, or, if a milder day, under full sail, generally a single one, sweeping over the quiet waters. Moderate

h of
e of
e-fish
inlet
ng in
ordi
setts.
being
aking

uent,
lboat.
along
boat
e of a
is to

ained

aking, ep the aul in bite,

The water, aught, dash-lexhie, the

nd the nd the achts-

y pass

weather is the best, and it is no use fishing unless the fish are on, which means that their visits are variable. At midday, when they generally cease biting, the adventurous fisherman may land on Raccoon Beach, immortalized by the genial wit of J. Cypress, jr., and either cook his fish by a fire built from the waifs of the sea, which I decidedly recommend, or get a fashionable dinner from Dominy or "t'other man" that keeps a hotel there. At this time it will be found, and I note the fact for the benefit of future generations, that a little liquor containing condensed carbonic acid gas and vulgarly called champagne, with water reduced to the temperature of freezing and commonly called ice, will be pleasing to the palate and beneficial to the inner man. In explanation of this episode, I may say I have just been there.

CHAPTER XII.

SNAPPING MACKEREL.

Temnodon Saltator.—One of the gayest, merriest, liveliest, little fish that chases and devours those smaller than himself, and is chased and devoured by such as are larger, is the Snapping Mackerel, the young of the previous species, but individualized from the voracity with which he snaps at the live or dead bait. He is a beautiful, silver-sided little fellow, weighing from an ounce to half a pound, and makes his appearance in immense numbers along our coast in the latter part of September or fore part of October.

"Whence he comes, Whither he goes, Nobody cares And nobody knows."

He must have just arrived, however, from the parents' spawning ground, his diminutive size proving that he has not been long out of the shell. He roams about, at first in small numbers, but soon increasing to multitudes, and gives active chase to the minnow and spearing, that may be seen momentarily springing out of water in their frantic efforts to escape his charges. He lurks in the foaming water of a mill-tail or sluiceway, or in the eddying current of the receding tide, watching for his prey

the able. en-

dinhotel fact iquor garly perapleas-

been

as they swim or are drifted along unsuspiciously. He makes one dash, a dozen startled spearing leap into the air, and swim for dear life; but the victim is generally carried off, a dainty and epicurean meal.

Spearing invariably swim near the surface; they haunt the gates of tide-mills when the tide is rising, and are drifted in with the current when the gates open before the advancing waters. The snappers take the opportunity, not merely to plunge among the shoals before the gates lift, but afterward, when the spearing, who are helpless in a strong current, are swept along, to pounce upon them.

Of course in such places they can be captured with most success. When they first make their appearance, not longer than your forefinger, but tender and delicate beyond belief, they may be found at low water in the rivulets of white froth that run bubbling from heles and leaks in the mill-gates. The best mode of taking them at this time, for they are small and fastidious, is with a salmon-rod and a tiny spearing on a Limerick hook; by making casts and drawing the bait along the surface of the water and through the frothy eddies, the young innocents are deceived, and thinking to prey upon their weaker brethren, become themselves a palatable viand They break like trout, without for larger creatures. throwing themselves out of water, but with a noisy snap, and if they miss the bait at first, will follow it resolutely. It is no mean sport to stand upon the old worm-eaten, weather-stained bridge, and wield the long rod, playing your allurement over the water to the music of the rushing current and the steady clack of the mill-wheel, and

He the ally

aunt are fore ortuthe are unce

with ance, licate n the s and them ith a ; by ce of innotheir viand thout

> snap, ntely. aten, iving ruslı-, and

see one after another of the green-backed, silvery snap pers dart from under the accumulated froth, chase and swallow your bait, and no slight satisfaction to observe the increasing number in your basket, and think of how your friends will enjoy their supper that night.

There is one singular fact to be observed, that whereas blue-fish invariably take the invitation squid, or artificial fly, with voracity, the snapping mackerel, except in the South Bay of Long Island, can rarely be tempted by it. In Long Island Sound I have failed with the fly and the spoon entirely, and have found the gutta percha minnow to work only passably, whereas in the South Bay they are taken readily with a leaden squid, of a peculiar shape, run on a large hook and polished bright.

The spearing is their favorite food, but the extreme sensitiveness of that remarkable little fish, that renders keeping him alive impossible, injures the attractiveness of the bait. As has been elsewhere observed, when small fish are used, it is desirable to keep them alive if possible, and the snappers will often give the preference to a lively killey, that by his efforts to escape incites the eagerness of their pursuit, over a dead spearing, that by his peculiar manner of resting in the water

arouses their suspicions.

As the season advances, the fish are found in all rapid currents of the salt water, and the barred killey is by far the most killing bait. The best way of rigging your tackle is to have a small float and light swivel sinker, below which there is a short leader of gut. The latter is fastened to the middle of a piece of whalebone or wire about two inches long, to each end of which the hook,

dressed on gut, is attached. As the teeth of these voracious fish are sharp, and after being hooked they snap continually, the silk whipping of the hook, as well as the gut itself, is soon bitten through. Either a small quill may be slipped down over the hook before it is attached, and into this the teeth sink without damage, or care must be taken to put a couple of half hitches with the snell over the shank, as the whipping wears out.

A light rod and reel are necessary for this sport, and there is the same skill and excitement in the repeated casts that lend to striped bass fishing one of its peculiar charms. The morning hours, the last of the ebb and first of the flood, are the most propitious times; but as the Fall advances, any hour, tide or place will furnish sport in abundance.

I was once fishing with a friend whose experience is greater with the pencil than the rod, on one of those glorious evenings of what might be properly styled in our country "flery brown October," and our success made us unmindful of the fleeting hours that had bid the sun farewell and welcomed the moon from her bed. Cramped as we had been in a cockle-shell of a boat, we had taken one of the thwarts and the oars, and placing them_across the gunwale, had made two high but dangerous seats. The boat was extremely unsteady, and many and solemn had been my unheeded warnings to move as little as possible, and to exercise care in whatever motions were unavoidably necessary. The fish were out in force, and seized our bait frantically the instant it touched waves, over which the moonlight glanced in tiny ripples. A northeaster had been blowing, but, dying

snap as the quill ched, must snell

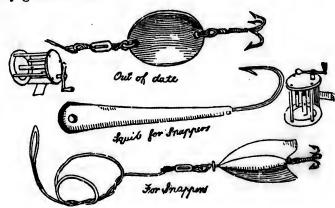
c, and ceated ceuliar d first as the sport

nce is those led in uccess id the bed. at, we acing t dan-, and gs to whatwere ant it ed in dying away, left only a long, heaving swell, that was broken by neighboring projecting rocks, and in no wise added to the steadiness of the boat. Our eagerness increased with the increasing darkness, and when unable longer to see our floats, we cast out and reeled in, finding generally a worthy reward for our pains. The fun grew fast and faster; at one particular place we were always sure of a fish. To reach it was a long cast, and my friend, in an effort to excel himself, leaned back for a vigorous throw, lost his balance, and toppled overboard. His weight, as he went on one side, careened the boat, threw me down to leeward, and let the water pour in over the gunwale in barrels. Down almost under water I saw the other gunwale turned up and nearly over me, when my friend, falling headlong out, gave the boat a lift, of which I took advantage by getting back amidships pretty well ducked, but not yet cast away. The water was nearly up to the seats, but by careful balancing, I could keep hér afloat. Imagine my horror when my friend reappeared from the oozy depths to which he had descended, and commenced madly trying to clamber over the side. I begged and besought him to think of what he was doing; that I was still partially dry; that my watch was a patent lever; that I had a family of small children; and that the boat would never, in her present state, hold us both. Reluctantly he listened to reason, and allowed me to bail her out with a bucket we had provided to carry our fish. As I threw out the water I could just see with deep regret, in the moonlight, the sparkle of fish after fish that I was unavoidably throwing away, and that I hoped would have served so different a purpose.

She was finally freed of water; hats, oars and rod were picked up, the latter by means of the float that was calmly fishing all by itself; my friend, who had swam to and was shivering on a neighboring rock, was taken aboard, and we returned, solemn and sad, my friend very cold and myself greatly disgusted.

In fishing, therefore, for snappers, it is better not to fall overboard; but if, by your awkwardness of doing so, you half fill the boat, never try to climb in over the side, but sacrifice yourself bravely. We were using on this occasion a bait that, late in the season, is often more successful than any other—a part of the fish himself. This, in the early fishing, they will not touch; but in cold weather, frequently prefer.

It is a singular fact, that although blue-fish have always abounded in the Great South Bay, snapping mackerel were unknown there till lately; whereas, while the latter have been abundant in Long Island Sound from time immemorial, the former have never been taken there to any great extent.



was n to ken

t to

so,

this

Suc-

Chis,

cold

vays

cerel

atter

time

e to

CHAPTER XIII.

THE COMMON CARP.

Cyprinus Carpio.—This, as well as the goldfish, Cyprinus auratus, is not a native of our country, but has been introduced from Europe, and naturalists have supposed that there is no native carp of any size in this country. I have seen a fish called the Western Carp, which, although I had no chance to more than sketch its head, was certainly a true carp, and of four or five pounds' weight. It had large scales, and all the fin-rays soft, except the first anal, which was robust.

The common carp, which has increased with amazing rapidity till it is found everywhere in the Hudson River, has a small mouth, fleshy lips without teeth, large scales, three branchial rays and teeth on the pharyngeals; has the first ray of the dorsal and anal fin serrated behind, has two barbels at the angle of the mouth, and a smaller one above on each side, small eyes, large nostrils, a high back and radiating striæ on the gill-cover. The color is a golden olive, lighter underneath.

These delicate fish, having become acclimated, and finding the Hudson River suitable to their wants, are increasing rapidly in size and numbers; but none that I have seen equal the western carp or are properly game fish.

CHAPTER XIV.

MASCALLONGE.

Esox Estor — Masqueallongé — Muskellunge — Muscalinga — Masquinongy — Maskinonge — Muscanonga.

The sides of the body are marked with numerous rounded, distinct greyish spots. Three bands of card-like teeth are situated on the roof of the mouth, on the palatines and vomer, converging to a point toward the snout. There are long, sharp, distinct teeth along the edges of the upper and lower jaw, and continued to the extremity of the latter, although some authorities assert the contrary. The gill-arches are also covered with teeth. Mascallonge reach a length of about six feet and a weight of seventy pounds, and the comparative length of the head with the whole fish is as one to four. The fin-rays are as follows:

Branchial or gill-rays 20; Dorsal 18; Pectoral 16; Ventral 11; Anal 17; Caudal 24; according to my best computation.

Br. 18; D. 21-; P. 13; V. 11; A. 21; C. 197.—Dr. De Kay.

D. 21; P. 14; V. 11; A. 17; C. 26.—Dr. Mitchill.

D. 22; P. 18; V. 13; A. 20; C. 26.—Prof. Agassiz.

The lateral line is not continuous, the under jaw is more elongated than that of the northern pickerel and some fish have on their sides dark spots on a light greyish ground.

The name of this fish is derived from Masque allongé, toug snout, which is a translation from the Canadian Indian dialect, of Masca-nonga, words which have the same signification; and from corruptions of these two designations arise our numerous names. I took great pains to ascertain precisely how the Canadian boatmen, who are a cross of the Indian and Frenchman, pronounced this name, although, in their French patois, he is ordinarily called Brochat, and the best my ears could make of it was Mas- or Muscaitung, the latter syllable being guttural. But as the most sonorous, expressive and appropriate name is Mascallonge, it is desirable that all sportsmen should employ it.

There is a dispute as to the size and weight that these fish attain, and while some writers claim for them a fabulous size, others entirely underrate them. Mr. S. D. Johnston, the proprietor of the Walton House, at Clayton, a son of Mr. Johnston, who was a prominent man in the Canadian rebellion, and for many years forced to hide among the Thousand Isles and live by his hook and spear, said that the largest fish he ever saw was taken by his father, who, in one night, speared two Mascallonge weighing respectively sixty-three and forty-two pounds. There is plenty of authority to prove that there was taken near Clayton, in the year 1859, a mascallonge that measured five feet seven inches in length, and weighed fifty-one and three-quarter pounds, that it was poor and thin, and in good condition would probably have weighed over sixty pounds. One fisherman caught in a single year twelve

LACOL

cardn the l the g the

with and ngth

> 16; best

Dr.

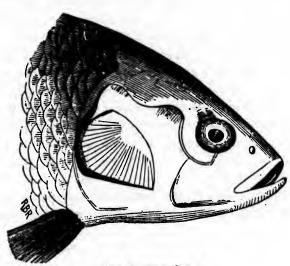
ill. ssiz. w is and mascallonge, ranging from twenty-one to forty-four pounds. Larger fish and far greater numbers may perhaps be taken in wilder waters, and, indeed, in some of the lakes in the remote parts of Canada these fish are innumerable.

Their length, proportionally to their weight, is, in consequence of their peculiar shape, excessive; a fish of twenty-five pounds' weight will measure forty-six inches in length by six in depth, and a fish of seventy pounds it is presumed would be over six feet in length. Although this is not quite equal to the great pike of Pliny, that weighed a thousand pounds, and was drawn out by a pair of oxen, and caught on a hook attached to an ox chain, it must be regarded by the most fastidious as respectable for the present degenerate days. If the accounts we receive are reliable, the pike of Europe, of which the old song erroneously says:

"Turkeys, carps, hoppes, piccarel and beer Came into England all in one year,"

vastly surpass ours in size, a fish being taken in a pond near Stockholm with a brass ring round his neck, having an inscription to the effect that he had been put into the pond by the hands of Frederick the Second in 1230, or 267 years before. He weighed 350 pounds, and measured fifteen feet, and his skeleton was a long time preserved at Manheim. The ring was arranged with springs so as to enlarge as he grew. The Shannon is said to have produced a pike of ninety-two pounds, and Lock Spey one of one hundred and forty-six; but, when reading of these accounts, I feel like the Yankee, who, when boasting of

his great country, and especially its great cataract, was somewhat taken aback by being told his land produced no volcanoes, nothing to equal Vesuvius or Etna, but who, after thinking a moment, replied: "That was true those were big fires, but he guessed Niagara had water enough to put them all out." So I think our mascallonge could eat up the biggest pike Europe can produce; and it will be a pity if, when our country is as old as Europe, we cannot tell as extensive stories.



Head of Western Carp.

oond ving the 267 d fifd at as to prone of

> hese g of

е

1•

f

es

ds
gh
nat
y a
ox
as
the

168

CHAPTER XV.

PICKEREL.

D

N

lo

bl

m

he

lov

in

wh

ere

not

duc

erm

guis

alth

tinct

out t

rays.

the 1

an a

other

tion d

dal 2

 D_0

W

In some remarkable and incompreheusible manner the good old name of Pike has fallen into disuse, and is now applied in this country to a fish that is not a pike at all, but a perch, Lucio perca, the Pike Perch, Big-eyed Pike, or Glass Eye of the Lakes; while the name Pickerel, which is merely the diminutive of Pike, is appropriated to the most gigantic and ferocious monsters of the deep. There is no fish whose appearance is more appalling, and whose appetite is more ravenous than the Great Northern Pickerel, which is alleged to attain a weight of twenty pounds, and which, in its fury, will pounce upon and swallow almost any small moving object. Nor does it much surpass the common pickerel of our ponds, which has very similar habits, and sometimes weighs as high as ten pounds.

The pickerel family, like most of the fish of America, have never been properly classified by the scientific, nor named by the vulgar. In fact, they, with the exception of the mascallonge, appear to have no specific names in common parlance, while naturalists have vague or no acquaintance with their peculiarities. Sportsmen and others speak of catching pickere¹, whether it be in the St. Lawrence, Great Northern Pickerel, which seem to

have had no scientific designation till named by Agassiz Esox Lucioides, or on Long Island, Esox Fasciatus, or on our principal inland waters, Esox Reticulatus, or in some of the lakes of the Eastern States, where a fish is caught, of which Dr. De Kay, in his "Natural History of New York," doubts the existence, and which Dr. Mitchill has dubbed the Federation Pike, Esox Tredecemradiatus. In truth, the distinction between the Mascallonge and the Great Northern Pickerel is scarcely visible even to the eye of science, and to the unlearned is marked only by a slight difference in the shape of the head and the coloring of the sides. The light tint is yellow in the pickerel and white in the mascallonge, while in the latter at times the sides have dark spots on a white ground instead of the dark network of the pick-It has even been doubted whether these fish are not identical, and the differences of size and color produced by local habits; but the views of all practical fishermen lean the other way, and they can at once distinguish the smallest mascallonge from the largest pickerel, although they are unable to point out the precise distinctive characteristics; while scientific men do make out that there is a difference in the number of the finrays. For the latter, however, although I have given the most careful attention that could be expected from an amateur, my enumeration differs from that of all others as they differ among themselves. My computation of the fin-rays gave-

the

Wor

all,

ike,

erel,

ated

leep.

and

thern

venty

and

es it

vhich

ch as

erica,

, nor

ption

es in

or no

and

n the

m to

Dorsal 18; Pectoral 16; Ventral 11; Anal 17; Caudal 24.

While according to Dr. Mitchill they were respectively,

D. 21; P. 14; V. 11; A. 17; C. 26.
And according to Dr. De Kay—
D. 21; P. 13; V. 11; A. 21; C. 194.
And according to Professor Agassiz—
D. 22; P. 18; V. 13; A. 20; C. 26.

This goes to show that either it is very difficult to count the fin-rays, or that they differ; to the latter of which suppositions my belief inclines, as I think the older the fish the more fin-rays are formed, or so hard-

ened as to be perceptible.

The habits of this class of fish are as similar as their appearance, and whether you capture a till pickerel with your fly in some shallow Long Island water, or entrap the huge mascallonge with a treble hook half concealed beneath red flannel and shining tin, they rush with the same eagerness and grasp with the same determination. I amused myself one evening on Long Island in casting over a newly-made shallow pond with my ordinary trout cast of flies, and seeing the ferocity with which pickerel, varying from four to nine inches in length, would dart upon their anticipated prey.

All pickerel inhabit sluggish water, and abound among the long, grassy pickerel weed that thrives upon a muddy bottom. The St. Lawrence, where it winds amid the beautiful Thousand Isles and forms innumerable deep and quiet bays, is their favorite home. The water, flowing from the immense lakes and holding suspended the seeds of aquatic plants, is favorable to the growth of the pickerel weed, and is in every way suitable to the fish themselves. The latter, however, have great power, and can unquestionably stem a strong current, for no

fis

doubt they ascend the rapids of that mighty river, being found in the eddies; but they prefer quiet water, where they can lurk among the weeds, watching stealthily for their prey, or bask near the surface in the warm summer sun. Both mascallonge and pickerel abound in the innumerable lakes of Lower Canada, and are so abundant in addition to being almost tasteless, as to be unsalable for food.

In other waters pickerel are found in the summer months among the lily-pads, often in water scarcely deep enough to cover their backs. The federation pike I have never taken, except in some of the remote ponds of the wild woods of Cape Cod, near Sandwich and Wareham, especially in the Little Herring Pond. And although at the time I had no knowledge of the scientific distinctions of fish, I at once recognized the description which I saw for the first time afterward, but had often sought in vain among our works on ichthyology. All the pickerel family are readily distinguishable by their having but one dorsal, and that opposite the anal fin and near the tail, and the sportsman acquainted with one will readily recognize all the tribe.

There are many ways of capturing this fish, and he is not the least particular if he is offered anything that has the semblance of food. He may be trolled for with dead bait, generally a minnow, or better, a yellow perch, on a gang of hooks, or fished for with a live bait and a float, and he will readily take a frog, provided the latter shall not, as described in the "Angler's Miseries," have the intelligence to creep out upon a stone and watch the fisherman, while the latter watches his float; but the

lt to er of the

their
entrap
acealed
ith the
ination.
casting
y trout
ickerel,
ld dart

among muddy nid the le deep or, flow-ded the wth of to the power, for no

true way in open water is to fish for him with a spoon. The last is objected to as being too destructive; but as it is clean, requires no bait, and is little trouble, and as the fish are utterly worthless either for sport or the table, the sooner they are destroyed and replaced by nobler sub stitutes the better.

Among the water-lilies the only mode is to use a long, stiff rod and short line, loaded with one buck-shot about a foot from the hook, and baited either with a minnow. the belly of a yellow perch, or better than all, a slip of the skin of pork cut into something resembling a small The latter never wears out, and can hardly be torn off, while it often is preferred to more natural food. The bait is dropped into the opening among the lily-pads, and sinking rapidly, by the weight of the shot, toward the bottom, is started up again by a twitch of the rod, and goes bobbing up and down till the pickerel, rendered frantic by such an absurd performance, can stand it no longer, and with one furious rush determines to end the gyrations of such a silly creature. Never wait for pickerel to gorge the bait, discard such old fogy notions, and by the aid of a strong rod and line, pull him out at once. At least one-half the time fish eject the bait instead of swallowing it, and no one who has ever eaten pork can question their taste. Waiting five or ten minutes, or till they make two or three runs, will not do in our rapid country. I have seen fish that were corpulent with over-feeding, and surrounded by their favorite food, young herring, taken by a piece of themselves being spun in this manner, when they would touch no other bait.

But the most wonderful mode of all is that practised in the St. Lawrence, and generally among the larger waters of Canada and the northern States. The fisherman places himself in the stern of a light canoe-shaped boat, with his face forward, the oarsman sits near the bows, of course facing aft; on each side of the fisherman are pegs like row-locks, or grooves, in the gunwale, with corresponding round holes in the stretchers on the opposite sides; two short, stiff rods are laid across the boat, projecting on each side like wings, kept in their places by the pegs, and their buts supported by the holes. long line is let out from each rod, say forty yards, armed with a spoon bait; while the fisherman holds an ordinary trolling-line in his hand, and is thus rowed about till either he, or more frequently his oarsman, perceives from the bending of the rod that he has a bite, or he feels a dead drag on his hand-line. If it falls to the share of the rod, he takes the latter up, ends it round till he can reach the line, when he pulls the fish in by hand. If he uses a reel, it is a good plan to take one or two turns of the line round it, so that it will just render. By so doing he might save the rod from breaking, which would be apt to happen with a heavy fish. Mascallonge invariably stop perfectly still when struck.

In landing a fish by hand, which is always the preferable mode, the reel only being used for an emergency, hold the line very lightly between your fingers and give to every jerk or rush. Innumerable large fish are lost by an endeavor to pull them in by force, and I have seen men, with their hands cut by the line, complaining that they had lost a mascalonge of forty pounds. Pickerel

on.
s it
the
the

bout now, p of small torn food.

pads, oward o rod, , renstand to end ait for

otions, out at nstead

inutes, in our at with

food, being other

never make many nor long-sustained rushes, but they give powerful jerks and flounces that, if resisted, will tear out or break any hook; otherwise, they can ordina rily be drawn through, or more properly over, the water like a wet rag. The person who pulls them in as though. it was a question of strength between him and the fish, deserves to lose them and have his fingers cut besides. The moment, however, the fish is at the side of the skiff, he should be either gaffed or lifted over the gunwale at once, as more are lost then than at any other time. Their jaws are mere skin and bone, the skin tearing away at once, and the bone forming no substance in which the hook can imbed itself, the latter sometimes slips out or more frequently is broken off. If you value your fingers, never put them in a pickerel's mouth or gills, which are armed with innumerable sharp and even venomous teeth. The best weather for trolling is a light, southwesterly breeze, and in large and deep waters a bright sky; in a heavy wind, it is impossible to manage the boat.

The hook should always be on wire or gimp, the former preferable as the latter is so rarely what it professes to be, and of course should be attached to the line by not less than two swivels. The best spoon is the so-called Buel's patent, with three hooks, either in one piece, or soldered firmly together, and a small elliptical piece of tin, copper or brass, made to revolve round them by means of a shoulder on the shank. This may be tin on one side and red on the other, or copper and brass, or copper or brass alone, to suit the angler's fancy, and the shank of the hooks is wound with scarlet flannel, or

covered with the ibis feather, or left uncovered, as experience shall dictate. Bright spoons are preferable on dark days, and for mascallonge the oldest and most successful fishermen use no feathers or flannel. purchasing any spoon with small, dangling hooks, or with more than three or less than two, or with any fastening of any kind except wire or gimp. Nothing else will for a moment stand the terrible teeth of these ferocious monsters. I once had an expensive imitation pearl fish, that was fastened with thin brass wire, bitten off by the first pickerel that touched it. If you use a reel, you will of course use your ordinary bass line; if not, purchase a common stout hand-line, and troll with from forty to fifty yards out. Your trolling-rod must be short, stiff and strong, not over ten feet long, and can be readily made by adding a stout top to your but and second joint; while, for weed fishing, you must have a long, stiff rod, and when the fish are heavy and tangle themselves in the weeds, which their first rush will often do, you must reach your line and draw them out by hand; by taking hold of the wire or gimp, you can readily land a tenpound fish.

These fish, both pickerel and mascallonge, can be captured in immense numbers in the St. Lawrence, at Cape Vincent, Clayton, Alexandria Bay and many other places; in Lake Champlain, near Rouse's Point; and in all the lakes of Canada; but they are dull sport in the catching and poor food in the eating. Believe no one who boasts of the fine flavor of the mascallonge, cook him as you will, he is nothing but a dirty, flabby, tasteless pickerel. And as for the sport, earry a blanket with

hey will ina ater ough fish, ides. skiff, wale time.

value th or even light,

aring

ce in

times

ters a anage

t proe line
ne son one
ptical
them

e tin ss, or d the you, take a turn with the hand-line round your leg, and stretching yourselves as best you may in the bottom of the boat, sleep comfortably till either a call from your oarsman or a tug on your leg rouses you to the dreary work of pulling in a worthless, unresisting log. When you strike and lose one fish, remain rowing round and round; if he is not much hurt, he will bite again, and where there is one there are more; remain at that spot till, by passing over the ground once or twice without a strike, you are thoroughly satisfied you have exhausted the supply. There is sometimes great beauty of scenery, and if your guide has anything to say, which he rarely has, you can, as you should be able ever to do in the open air, enjoy yourself.

The mode of fishing among the pond lilies that I have described is much more exciting, requiring continued activity, some skill and no little judgment, while there is greater risk of losing your prey. To avoid the latter casualty, if the fish weigh not over four pounds, lift him out at once, and proceed in the same way with larger fish to the extent your rod will stand. As for snapfishing, that is, using a hook so constructed as to spring open or shut the moment it feels the bite, and thus grasping the fish or imbedding an extra hook in his jaws, I have only tried it sufficiently to be disgusted with it, although probably it may work well in open water. If, however, it touches a weed, it will be sprung, and then you cannot catch a fish at all till it is reset. It was invented to avoid the hook's coming out of the pickerel's mouth, which, from the nature of the latter, it is apt to do, a difficulty which old, slow, poky, English puntand pot it a sted scehich to do have inned ere is latter ft him larger snapspring thus jaws, ith it, r. If, 1 then for them. It was kerel's apt to

punt-

 b_{l}

 \mathbf{f}

nr

ry

ien

and

fishers endeavor to remedy by allowing the pike or jack, as they call him, to gorge the bait. A pickerel, like a trout, rushes up, strikes his prey, and immediately returns with it to his haunt; he then ends it round, having generally struck it crosswise, and swallows it. This he takes much longer to do than a trout, and the English works on fishing direct you to wait five minutes or till he runs again, and then, by striking smartly, you can fix the hook into his gills or stomach, from which nothing but the knife will remove it. The disadvantage, however, is that the pickerel often eject instead of gorging the bait, and when the fisherman, having impatiently awaited his five minutes, comes to strike, he strikes naught but the thin water or the stem of a water lily. After a few such disgusting results, he will probably determine, as the writer has, to strike at once, unless, by one of those exceptional cases to all good rules, some peculiar difficulty forces him to proceed otherwise. The word spoon, that has been so frequently used, is derived from the use originally of the bowl of a pewter table-spoon, into one end of which was fastened three hooks, and into the other a swivel attached to the line, and which, by playing and flashing through the water, attracted the fish; the oldfashioned spoon is now out of use, and entirely superseded by Buel's patent. Pickerel, especially the smaller varieties, will take a fly, but not very readily; and this can hardly be said to be an established mode of fishing

There is another style of pickerel fishing which is amusing, to say the least of it, and is practised extensively throughout the State of New York. You take a

small piece of flat board about nine inches across, and pass a stick through a hole bored in the centre so as to project above and below it; the lower end is then loaded, and to the upper is attached a line of some twenty or thirty feet, that is baited with either a live or dead minnow. The line is coiled on one side of the wood, and leaving sufficient end for the bait to sink to a proper depth is fastened slightly in a slit cut in the wood like the thread of a spool. As many as you please to use are then placed in the pond and left to fish while you row about or otherwise employ yourself. If a pickerel takes the bait, the line is jerked out of the cleft, and uncoiling, allows him to carry off and pouch the bait, but when he undertakes to move away he is hooked by the resistance of the wood against the water. The motion of the float can be seen from some distance, and it is quite interesting to chase one after another that go "bobbing around," as fish after fish is hooked. A plan somewhat similar to this is described by Walton and other writers, and it is merely a modification of an old invention.

The best season for pickerel fishing is after the first of September, although they are taken at all times, including their spawning seasons of February, March and April, and are quite good, voracious and abundant in July and August. The English pike is reported to show an abstinence from food in Summer that our fish never exhibit, and, indeed, differs from ours in many particulars, and none more to his credit than his scarcity. In Summer our fish resort to the shallow water, as they are also said to do in their spawning season, and at both

times they are shot or speared without merey. In fact, the quick eye, ready hand and steady foot required for spearing renders it an exciting and reputable sport, worthy of, and often unattainable by, the best of us. In Winter, pickerel seek the warm, deep water, and are caught through a hole in the ice by a live bait on a hand line. This is said to be very exciting, provided a rude hut is built over the hole, and a fire made in the hut, and provided the fisherman, seated in a comfortable chair, provided with a book, a segar and a glass of hot punch, has an assistant to pull out the fish. It is alleged that these fish are, "during the height of the season," brilliant and beautiful; if that is so with any, except the Long Island Pickerel and the Federation Pike, the height of the season must have been too high for me to reach.

The family of the *Esocidæ* are truly typified by the voracious and terrible *Esox luceus*, wolf-fish, the true pike, from which they take their name, and include among their numbers the formidable Gar-pike, *Esox osseus* of the Southern waters. Although their flesh is hardly fit for the table, they are universally abundant, and their capture affords that kind of pleasure always derived from taking many and large animals of any description.

The principal species known in this country are:

THE MASCALLONGE, Esox Estor.

THE NORTHERN PICKEREL, Esox Lucioides, both of which inhabit the great rivers and lakes of the North.

THE COMMON PICKEREL, Esox Reticulatus, of the mid dle and northern States.

THE LONG ISLAND PICKEREL, Esox Fusciatus.

per ike use you erel and bait, oked The and at go

plan

and

n old

 $\mathbf{1d}$

to

d,

or

iu-

nd

est of cludand nt in show never

In y are both

rticu-

THE WHITE PICKEREL, Esox Vittatus, of the West.
THE BLACK PICKEREL, Esox Niger, of Pennsylvania and of Saratoga Lake, New York, which Dr. De Kay presumes to be only the young of the common pickerel.

THE FEDERATION PIKE, Esox Tredecem Radiatus, of

the eastern States.

CHAPTER XVI.

iia ay l.

of

THE GREAT NORTHERN PICKEREL.

Esox Lucioides.—This fish is very similar to the mascallonge, so much so that it is not mentioned in most of the works on American Ichthyology, being confounded with the latter. The principal differences in appearance are, that the snout of the pickerel, the under jaw especially, is shorter and more obtuse than that of the mascallonge, the light tint of its sides is yellower, and it never attains over twenty-five pounds. The markings on the sides are somewhat different, the light, elongated spots of the pickerel, being occasionally replaced in the mascallonge by dark spots on a greyish ground, and the fin-rays are not so numerous.

Dorsal 18; Pectoral 16; Ventral 10; Anal 15 and Caudal 24.

Or, according to Professor Agassiz-

D. 21; P. 16; V. 11; A. 16; C. 17.

The principal color is dark grey, lighter on the sides than on the back.

These fish are caught in all the sluggish waters of the North, and on the same ground and at the same time with the mascallonge, and coincide with him entirely in habits and disposition. They exhibit the same ferocity, are allured by the same baits, entrapped in the same manner, and, in a culinary point of view are, if possible, inferior.

CHAPTER XVII.

THE COMMON PICKEREL.

Esox Reticulatus.—These fish, which are sometimes called by the learned, and none others, Pike, have on their sides a network of dark lines upon a yellowish ground, and are named by naturalists from this peculiarity. The lines are sometimes longitudinal, and but little reticulated. The fin-rays are—

Dorsal 18; Pectoral 16; Ventral 10; Anal 14; Caudal 194. Or, according to Agassiz—

D. 20; P. 16; V. 10; A. 20; C. 18.

This fish rarely exceeds ten pounds in weight, although he has been said to attain fifteen; but in these instances has probably been confounded with the Northern Pickerel. He abounds all through the northern States, and is emphatically the *Pickerel*, when the word is used without other qualification. The darker, more sluggish and weedy the water, the more he likes it; old roots, decayed trees and a muddy bottom are his delight, and by his ferocity not a few ponds have been depopulated of superior fish. Among a certain class of fishermen he is a favorite, though utterly worthless for the table or as sport, and the little enterprise our farmers have shown has been in introducing this despicable fish into good waters, where, in consequence of his rapid increase and

voracious habits, he has soon exterminated all other varieties. Even excellent trout ponds have been treated in this way.

The largest of these fish within my range of information, are taken in Long Pond, New Jersey, a large pond, originally a natural lake, and rendered more extensive by damming. The head-waters are filled with dead trees, amid the roots of which pickerel hide and thrive. There they are said to attain ten pounds, and often exceed five. Generally, however, five is the limit, and many more are taken that weigh not over three. These fish are not found in the waters of Canada, and are usually captured with live or dead bait, or a piece of pork, although in favorable water they would undoubtedly take the spoon, like their congeners of the north. Their habits are similar to those of the northern pickerel and mascallonge.

on vish liarittle

udal

ough ances
Pick-, and used
ggish roots, and lated
en he or as hown good

e and

CHAPTER XVIII.

FEDERATION PIKE.

Esox Tredecem Radiatus.—This fish, simply so called because it has no name among fishermen and sportsmen, is almost unknown to naturalists. Dr. De Kay doubts its existence, and it is described alone by Dr. Mitchill. I take, therefore, much pleasure in adding my testimony, so far as it goes, to its existence, although after all it may be merely a northern or common pickerel so altered by a change of food and water as not to be recognizable. There were a large number taken in the Little Herring Pond, on Cape Cod near Agawam, and the secret of their existence being kept for years, we had excellent sport before the natives found it out, and with their spears and guns, fishing through the ice and killing them on the spawning-beds put a termination to their existence. A few may remain, and thus determine the question. We caught large numbers, taking them of ten pounds' weight, and readily killing in a few hours a hundred and twenty-five pounds. The fish were peculiarly beautiful in appearance, so much so that I made a rough outline which is now before me, and marked in the colors for the purpose of painting the picture of one. I afterward found the undertaking difficult, on account of the dissimilarities of the common pickerel, which I purchased in

market and endeavored to use as a guide. The water of this pond was clear as crystal, and communicated with the ocean; it was alive with herring, perch and other small fish, as thick as the gold leaf in a bottle of Eau de vie de Duntsic, and may have had a great effect upon the coloring and shape of the fish. At the time I was struck with their appearance, and examined all the works on iethyology at my command, but could find no satisfactory description.

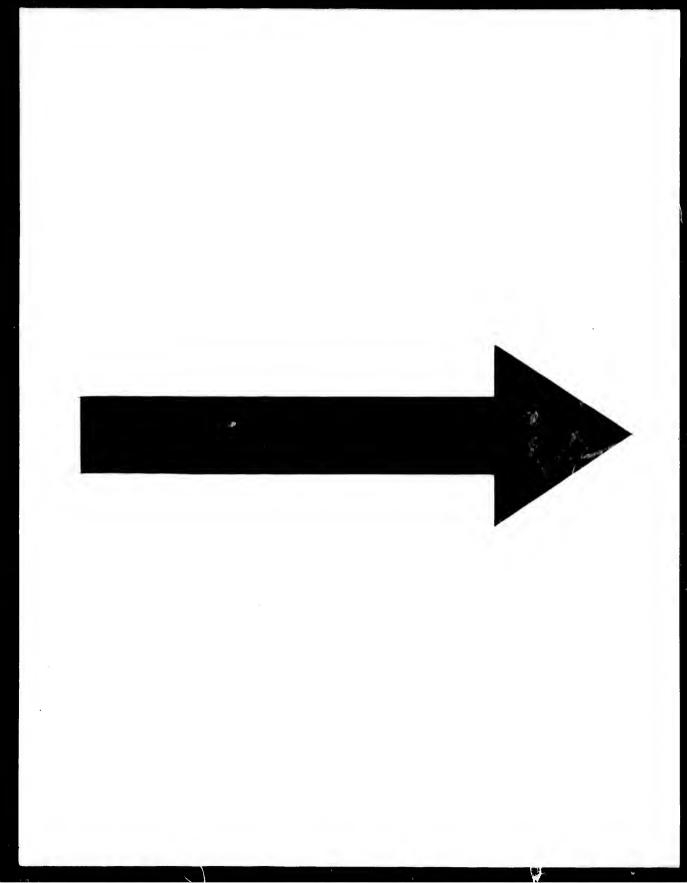
The head was that of the pickerel family; of the teeth and fin-rays I remember nothing accurately; the back was dark brownish green, growing greener on the sides, where it was interspersed with numerous lilac spots or scales, and shading off, as it descended on the sides, into light green with yellow scales; then into yellow with brilliant silvery scales, terminated on the belly in the purest white. The dorsal fin and tail were dark green, the anal burnt sienna, the ventral yellow, with, I believe, the first ray red, and the pectoral yellow and reddish. The back of the head was dark green, the gill-covers were partially covered with scales, the iris was yellow shot with pearl; between the eye and the nostril there was a spot of lighter green; the snout and tip of the under jaw were dark green; adjoining on the under jaw was a warm lilac color, becoming purplish as it advanced toward the gill-cover. The lower part of the fore gillcover was of a pearly tint, deepening into purple as it ascended; the gill-rays were a beautiful warm light mother of pearl, and behind them was a yellow tint. These colors were all exquisitely brilliant, and bid defiance to my palette. The sides were variegated with

lled nen, nbts hill. ony, all it tered

able. rring et of ellent their them tence. estion. ounds'

d and autiful utline ors for rward

dissised in



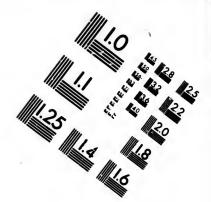
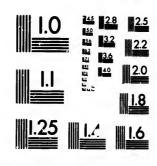


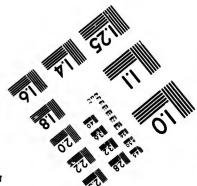
IMAGE EVALUATION TEST TARGET (MT-3)

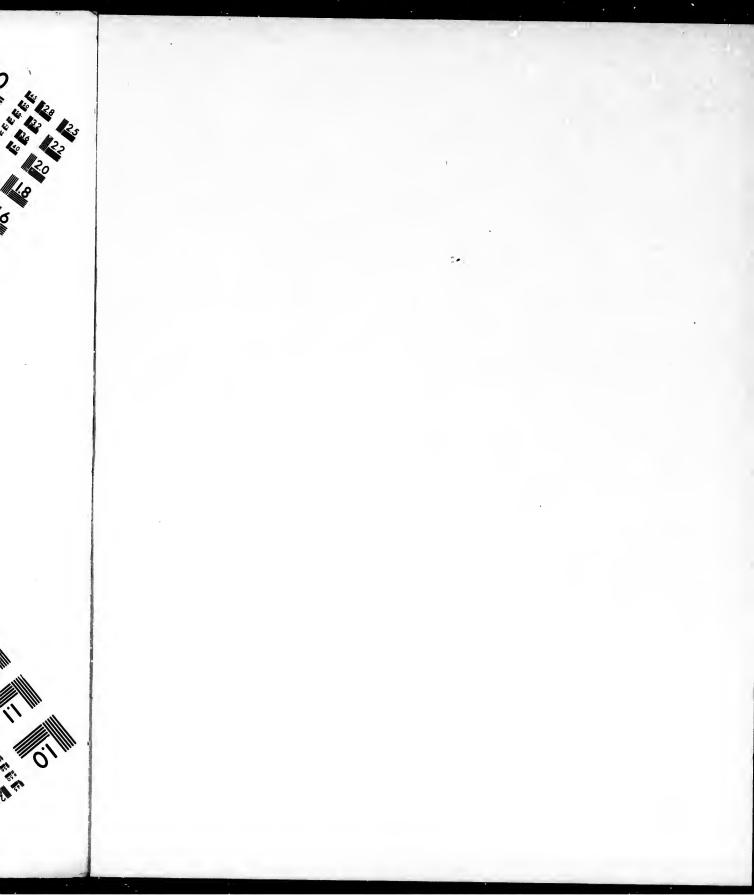


STATE OF THE STATE

Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503





irregular broken horizontal black lines, extending nearly to the tail, which was forked. Toward the belly these lines disappeared; and the scales of the whole body were small and numerous. The depth was unusually large in proportion to the length, made greater probably by my drawing the outline round the fish as he lay on his side. I took three outlines; but the best specimen weighed six pounds and a half, and was twenty-four and a half inches long to the centre of the tail, and twenty-three to the root, by five and a half deep, the head having a length of seven and a half inches.

These fish were not only remarkably beautiful, but were excellent on the table, and differed utterly in both particulars from all other pickerel. They were taken in Summer among the water lilies, with the belly of a yellow perch or a piece of themselves, and surrounded as they were by the most delicious food, visible to our eyes in unlimited quantities, were naturally dainty.

The above description accords wonderfully with that of Dr. Mitchill, and there can be no doubt that the fish are identical, although I did not count the fin-rays, which Dr. Mitchill gives at—

Br. 13; D. 13; P. 13; V. 9; A. 13; C. 21.

these body sually bably he lay specity-four il, and

nearly

ul, but in both ken in a yelided as our eyes

ep, the

th that the fish , which

CHAPTER XIX.

THE LONG ISLAND PICKEREL.

Esox Fasciatus.—This fish has no name whatever in common parlance, and naturalists have dubbed him Varied Pickerel, Mackerel Pickerel, and other terms which are unknown except to their authors. He abounds on Long Island, although he is found elsewhere throughout the State, and probably the most appropriate name would be Banded Pickerel, as his scientific appellation justly suggests. Varied pickerel is appropriate to nothing, and mackerel pike to the scomber esox, another fish altogether. This fish is distinguishable by having dark vertical bands upon his sides, and being altogether of a darker hue on the back than any other pickerel, while the pectoral, ventral and anal fins are lighter colored and sometimes reddish. A dark band passes from the eye to the angle of the jaw, and the fin-rays are—

D. 22; P. 16; V. 10; A. 18; C. 18. Or, according to Dr. De Kay—

D. 15; P. 15; V. 9; A. 14; C. 194.

This fish never exceeds one pound in weight, and one foot in length; and although endowed with all the ferocity of his family, does not apparently injure the trout ponds of Long Island, where he has a local habitation and a name. Probably he cannot destroy the larger fish,

and the young fry do not live where he resorts. It is not from want of will but of power that he is harmless, for he will take a small fly with the same ravenous eagerness that the mascallonge exhibits in seizing the deadly spoon. He is fat and free from bones, and not a bad pan fish, and in these particulars, as well as in habits and appearance, he sets his big brothers a good example.

It is rmless, eager-deadly habits a good

CHAPTER XX.

THE THOUSAND ISLES.

At the upper edge of the State of New York, where civilization terminates and Canada begins, a mighty river, the outlet of a hundred lakes and thousand streams, flows amid innumerable islands in a fierce current toward the sea. It bears upon its broad bosom in immense rafts the wealth of the forests of the Northwest. Enormous quantities of timber, collected from all its tributaries, even from the region around Lake Superior, are brought in large vessels, mostly three-masted schooners, to the head-waters of this stream, and there, at Cape Vincent or its neighborhood, are bound together into rafts, preparatory to descending the rapids. These rafts cover acres in extent, and sometimes have as many as fifty shanties built upon them to accommodate one hundred men for months, or until they shall reach Quebec or Montreal. Launched upon their journey, they are carried along by the current, and by sails when the wind is favorable, and even without the latter, moving as they do by the force of gravity faster than the stream, can be steered to some extent. Rough oars are fastened on the fore and after part, by a vigorous use of which the raft can be kept from danger and retained in the middle of the stream. They press on with resistless force, sometimes passing entirely over projecting rocks or small islands, and in one instance carrying off a lighthouse that had been located near their path. One end often runs far on shore, when the other swings round and drags it off; vessels of all kinds keep clear of them, if possible. They are bound together with withes made by twisting saplings, and so strongly that they rarely give way when rushing over rocks or descending rapids that are almost cataracts. Sometimes they are composed of logs, sometimes of rough staves. The latter are bound together in cribs, and instead of three drams making one crib, as is common in New York, three cribs make a dram; and the wood measure of the North may be said to be

1000 Staves make one Crib;

3 Cribs make one Dram;

20 Drams make one Raft.

And no one has any scruples whatever, for the country being poverty itself, the people are neither elevated nor moral, and eke out a scanty subsistence by rafting and fishing.

The people use for fishing, boats on the plan of a small whaleboat, built of thin cedar, and the surprise of my companions upon their first visit to this desolate region, was by no means small on discovering that they were expected to fish with three lines at once, holding one in their hand and having a rod projecting from each side of the boat in addition. We had arrived the evening before at Clayton, and, like true knights, finding there was to be a ball given by the natives, had attended it, and danced till the wee hours, with pretty little brighteyed girls, strange dances called by Indian names, among

r small
hthouse
id often
id drags
possible.
twisting
ay when
e almost
gs, somegether in
orib, as is
; and the

he country evated nor afting and

of a small rise of my ate region, they were ling one in each side ne evening ding there ttended it, ttle brightness, among

which the most remarkable was Moneymust. It was in the latter part of July, and the day after the ball being bright and beautiful, with a southwesterly breeze, we each selected our boatman—for only one fisherman can go in each boat—and started for a day's sport among the mascallonge and pickerel. We separated at once, some going up-stream, others across by Powder-horn and Shot-bag Islands, while I kept down along shore and ran into the bay behind the old mill.

I had on the line of my right-hand rod a Buel's patent spoon, tin on the outside and red on the inside, brightened, by being rubbed with pumice stone, till it shone like burnished silver, and, with red ibis feathers wound round the treble hook, it glanced and sparkled through the water, visible at a great distance. On the left-hand rod the spoon was copper on the inside, and the hooks were wound with scarlet flannel, while that in my hand line had copper on the outside, brightly polished, but neither feathers nor flannel round the hooks. We passed down from the outer point of the island toward the lower part of the bay without success, but when returning inside, my right-hand rod suddenly bent, and the line slowly unwound from the reel, over which I had taken a couple of turns to prevent its rendering too rapidly; dropping the hand-line, which was made fast to the seat, I seized the rod, and turning it round and reaching my line, commenced to draw it in as lightly and delicately, but steadily as possible, just holding it between the tips of my fingers. The fish was large, and when he was about half-way in, having come thus far with no other objections than a few violent flounces, he

made a fierce rush; instantly the line slipped with a steady but slight strain through my finers, and he dashed off for some distance, but soon tired, he allowed me to pull him up to the side of the boat; once there, grasping the wire above the hook, I lifted him quickly over the side and threw him on the bottom, where he flounced about vigorously and with energy enough, if exhibited sooner, to have broken almost any line. Taking the hook carefully by the shank, I twisted it out of his mouth, and weighing him with the scales that were always in my pocket, found he weighed ten pounds.

Turning at the head of the little cove, we retraced our path and struck another fish, and so over and over again, some of them making violent but unavailing efforts to escape, others slapping off just as they were being lifted into the boat, others again coming in with their heads out of water like a yawl towed behind a steamboat. Sometimes it was the right-hand rod that bent, sometimes the left, then the hand-line felt the strain-often two and sometimes all three at once; it kept me busy, to say the least of it. The reels were of little use, as the boatman had to keep rowing to prevent the lines sinking to the bottom and catching in the weeds, which, in spite of all precautions they sometimes succeeded in doing, and the strain was consequently too great for them. The bottom of the boat was filled with the long-bodied, wolfish and ravenous devils, that snapped their jaws, struggled about, their eyes gleaming with impotent fury and merciless cruelty, as ugly looking a set as the sun ever shone upon; but as they were brought in, one after another, my oarsman was delighted.

ashed me to asping er the nnced hibited ng the of his t were ds. retraced nd over g efforts re being ith their eamboat. nt, somen-often me busy, se, as the s sinking , in spite in doing, or them. g-bodied, eir jaws, tent fury s the sun one after

ith a

We remained on the same spot, rowing round until satisfied we should get no more, when we headed over toward the Canadian shore, into the far-famed region of Eel Bay. The latter takes its name from a fly that is found in the fore part of July in immense numbers on the waters of this region. It appears to one who has small claims as an entomologist to be the May-fly or famous Green and Grey Drake of England. Some that I pressed and brought to the city were recognized at once by the English fly-makers, who were delighted to see an old friend, and made a number of them for me after the pattern, saying that there was but a shade of color between them and what they had so often prepared as the May-fly at home. These flies appear in myriads; when the wind is northerly, the waves will cover the dock at Cape Vincent with them several inches Their body is long and so heavy that in the early morning, when their wings are damp with the dew, they cannot rise to fly and are readily picked up by their wings, which project invitingly above their backs. Eel Bay is named from the immense quantities of these nies that appear there; they constitute the principal food of the fish from which they derive their name, as well as of the cisco, black and rock bass, chubs, and probably many others. They rise with difficulty from the water, and fly heavily and slowly.

Our course carried us across the rapid current of the St. Lawrence, where my boatman was glad to have me haul in my lines, that dragged heavily, as there was no chance of taking fish. We were soon in the bay, an extensive reach formed by a bend in the St. Lawrence, lying upon one side, out of the force of the current, and filled with innumerable islands. It probably holds within itself a thousand isles. They are of all kinds, sliape, form and appearance, some half a mile in extent, constituting a cultivated farm, others a bare rock scarcely projecting above the surface, some covered with a dense foliage, others furnishing a single tree, and many bare of tree, bush or grass. There is immense variety of appearance, but all are inconceivably picturesque. None are very high, but at times the rocks run straight up like a wall of stone, while others are long, low and flat. They are clustered together, often affording barely room for the boat to pass, and offer to the eye every variety of shape and foliage. Amid them we now wan dered, admiring their bewitching beauty as they lay basking in the broad sunlight upon the calm bosom of the river. Seldom are they inhabited, and most of the primeval forest trees having been cut, they have grown up with a dense underwood, occasionally relieved by some tall monarch of the forest that has survived the fury of man.

Keeping close along under the overhanging tree or rock, or passing into the open water with ever-changing scenery, we drew from the "vasty deep," where the long pickerel weed could be seen reaching up toward the surface, one after another of those savage monsters, the Great Northern Pickerel. Without catching anything of wonderful size, we had taken an unusual number, when the calls of hunger warned us that the hours were fleeting faster than we thought.

Landing at the point of an island where there was a

nt, and s within sliape, , consticely proa dense any bare ariety of e. Nene raight up v and flat. ng barely eye every now.wan s they lay n bosom of most of the lave grown relieved by urvived the

where the up toward or monsters, tching any nurual numet the hours

there was a

beautiful natural grove, we set to work to build a fire and prepare our fish for dinner. The pleasantest arrangement connected with this fishing is that each boat is provided with a basket of good cold fare, a frying-pan and the necessary means of cooking; and in the middle of the day it is customary for several to meet at an appointed island, and for the fishermen to have a jolly. dinner. Although we were first to arrive, our com panions were not long behind us, and the best fish. especially the black bass, were selected, cleaned, split open, and fried in the grease tried out of a few picces of salt pork. Our provisions were combined and made quite a handsome picnic set-out, rendered more acceptable to our sharpened appetite by a few glasses of iccd champagne. Of course we had our stories to tell: how skillfully we had landed this fish, or how unfortunately we had lost that; and one man, who had struck and almost landed a mascallonge, was agitated with mingled happiness and despondency. The days were long, our boatmen had had a hard tug of it, the shade was grateful, the champagne refreshing, our cigars excellent, and consequently no one was hurried. The wind, however, kept increasing, and after a couple of hours, pleasantly passed, we once more embarked and bid each other farewell till night.

My boatman struck well in toward the Canadian shore; but although we crossed places where he had had wonderful success on many a previous occasion, and of which there were extraordinary stories of mascallonge, our luck had deserted us. However, perseverance was rewarded; suddenly my hand-line was taughtened as

though it had struck a log; for a moment it was still, then I felt the motion of the fish. The boatman instantly dropped his oars and reeled in as quickly as possible the other lines—just in time; for the fish, feeling he was caught, made one rush directly toward us. I drew in the line hand over hand, to have something to give out when he should make away again, but not nearly so fast as he moved. He passed close to us; we could see the broad back, the long nose, the fierce eye, the mighty length of the mascallonge.

"Turn the boat broadside toward him," I whispered as

he passed.

Away he went, the slack of the line hissed through the water as his increasing distance took it up, and partially deadened his way as he reached the end of it and came against the light though steady strain with which I held it. Giving to him, at first readily then more sparingly, I again turned him; this time he did not approach so near, but swung round well in-shore. Then, with a sudden rush, he came straight on, and flashed directly beneath the bottom of the boat. If the line once touched the rough surface, or caught in a splinter of the wood, we knew it would part like pack-thread. The oarsman tried to swing her round; there was no time; hastily gathering a few coils, I threw them into the water at the stern, and passing the line over my head, anxiously watched them sink. Suddenly they were taken up, the line in my hand taughtened and lifted out of water; it had not caught, and that danger was past. The struggle lasted long; again and again he darted away; once he nearly exhausted my line, and compelled me to use

considerable force, but generally I held the least possible strain on him. Finally, he made one grand rush, was foiled, allowed himself to be drawn alongside, and was neatly gaffed by the boatman.

He was an immense fish, a triton even among pickerel of ten pounds. Beauty he certainly did not possess, but grandeur and ferocity marked every lineament. huge head, immense jaws, and terrible teeth, his long, narrow body, large fins, and broad tail, and above all, his fierce, gleaming, savage eye, marked him as the undisputed master of the fresh waters. His enormous size and prodigious strength, the latter exemplified by his nearly springing over the gunwale, indicated that he had no match even in our extensive lakes, while his merciless ferocity, that would spare neither large nor small, friend nor foe, was but too apparent. His weight, as afterward ascertained, was thirty-five pounds, and his length was excessive proportionally to other fish. Although he fought well, he had not exhibited in the water the vigor he did out of it. Now that his fate was sealed, he lashed about, struggled and flounced as though his capture had just commenced, and searcely showed an intimation of approaching death or surrender. It appears to be a peculiarity of the pickerel family that they exhibit their courage and strength too late, waiting till they are manacled before they fairly rouse themselves to the emergency. Their efforts consequently afford little pleasure to the sportsman or profit to themselves.

Having captured the master spirit of the stream, we did not wish any of his smaller brethren, and while he was dying we wound up the hand line and removed the

ispered as

as still,

netantly

ible the

he was

w in the

ut when

ast as he

he broad

length of

rough the partially and came nich I held sparingly, pproach so vith a sudd directly ce touched the wood, e oarsman ne; hastily vater at the anxiously ken up, the f water; it The strugaway; once me to use spinning tackle from the others. I then took out a twelve-foot salmon leader, or casting-line, as our friends across the water express it, and fastened on it, at equal distances, five large flies, the upper dropper and tail-flies being dressed with white and ibis feathers mixed on a large sized salmon hook, while the intermediate ones were small, dark colored salmon flies. This leader, thus equipped, being fastened to one line, and a similar one, except that a small, gay spoon replaced the tail-fly, to the other, they were trolled thirty or forty yards astern, so that they sank well as we moved slowly along. Then, leaving the quiet bays, with their sluggish current and weedy bottom, we struck out boldly into the rapid water and sought the rocky shoals where black bass love to hide and wait.

The wind had increased till there was quite a sea, and it was difficult to manage the boat; but that was soon forgotten in the excitement. The fish were numerous and in excellent disposition; every shoal we crossed furnished us with several; we often took two or three at a time, and occasionally had both lines engaged at once. They were brave, vigorous and determined; madly they darted forward on feeling the hook, and threw themselves high out of water to shake it from their mouths; finding that vain, they made rush after rush to escape, again and again they leaped in the air, resolute and courageous to the last; not till they were in the net would they surrender.

Strange it was to note the different shades of their colors. Their deep sides, for they are an awkward-looking fish, and their shape gives little indication of their

tail-flies
and on a
mes were
ler, thus
milar one,
ail-fly, to
ls astern,
g. Then,
rrent and
pid water
ss love to

a sea, and
t was soon
nerous and
I furnished
at a time,
nce. They
they darted
selves high
inding that
again and
irageous to
d they sur-

les of their ard-looking on of their strength, were, in some, of that dark green, almost black, from which their name is derived; in others it was a light-green, and again in others pale yellow. Whence these variations are derived, unless it be from the shade of the ground they live on, to which all fish are said to assimilate, is not known; but it has often led to their being divided into distinct classes, or mistaken for other species. Their peculiarity of springing out of water is remarkable. Salmon and blue-fish do so frequently, trout rarely, and other fish seldom or never; but a black bass of any size will invariably make one or more desperate leaps. It is a glorious sight to see his full length above the water, and a nervous moment till the line that has been slacked is again taughtened by his strain. Such leaps are his most effective means of escape, by enabling him to shake the hook from his mouth or strike the line with his tail; and though not so persevering as the trout, generally, at the sight of the net, he makes a final, dangerous rush.

We coasted along by island after island, crossing near one named after "Old Bill Johnston," memorable for having taken an active part in the Canadian rebellion, and long forced to hide from his English pursuers. Johnston's Island, as it is called, was his favorite resort, where he was succored and warned of danger by his beautiful daughter, universally known as the Queen of the Isles. What a theme for the poet or the novelist: the father safe neither on the English shore, where he had waged unjustifiable war, nor among the Americans, who would have been compelled to surrender him, lurking among those beautiful isles, then wilder and more

densely wooded than now, trusting for his support to his rod and line-for he rarely dared to use his rifle-and to the scanty supplies brought by his daughter; the latter residing on shore watching for any expedition that might be fitted out against him, and at the first intimation darting off in her light cance in spite of rain or storm, in the daylight or impenetrable darkness, and arriving at her retreat, perhaps just in time to warn him of his danger and enable him to escape. Imagine the woman's ready wit, ever at work, ever on the watch for him; imagine the father's joy on seeing her amid his trying and wearisome solitude, and her anxiety till he is once more out of danger. The thought that such things had really happened so near to where we then were, added to our excitement, and was only dissipated on passing Whisky Island, which is in dangerous proximity to the former.

Our boat was headed down-stream and driven before the strong wind; we moved rapidly with varying success till we arrived at one little shoal, the name of which I have forgotten, or it never existed, and where we found fish innumerable. Frequently every hook on both lines was engaged; often I landed three, sometimes four, and once or twice five fish at a time. The sport was wonderfully exciting; first one rod bent, then the other; and then, while I was busy foiling the struggles of fish so numerous that they made the water foam, I would see with a feeling of despair the other rod bend and the line slowly render round the reel. It was impossible to move faster, useless to hurry; but, as quickly as I could and dared, the fish were brought to net. This shoal was

exposed to the full fury of the wind, and the water dashed in over the bow or broke against the side, while the oarsman had all he could manage to row against the blast.

Round and round this spot we moved, ever with the same result; the lines were not half out before they would be seized, it was almost impossible to keep the two rods in play. This lasted till we were both utterly worn out with the excitement and the exertion, and were compelled to give up from sheer exhaustion. My fingers had many a bloody mark left by the reel-handle, that a sudden rush had jerked from my grasp, and being compelled in the uncomfortable seat to turn my body round to reel up, my back was almost broken. The man had rowed as long as he could, but was forced to run down between the Powder-horn and Shot-bag Islands and rest awhile before breasting the storm homeward.

We had had great luck, taking in the last hour and a half seventy-three bass. It was a glorious sight when we arrived at home to see our fish laid out side by side, the mascallonge at their head, and tapering regularly down to a half-pound black bass. The latter do not average any great size, rarely exceeding three pounds and never known to be taken over six; but a day upon the St. Lawrence among those beautiful Thousand Isles, either in pursuit of the mighty mascallonge the furicus pickerel, or, best of all, the spirited black bass, will never be regretted by the poet or the sports man.

of which we found on both mes four, sport was he other; es of fish would see d the line to move could and shoal was

to hia

and to

latter

atima-

rain or

ss, and rn him

ine the

tch for

mid his

till he

at such

we then

issipated

us prox-

CHAPTER XXI.

STRIPED BASS.

Labrax Lineatus—Rock-fish of Pennsylvania and the South—Perca Labrax (Smith)—Sciena Lineata (Black.)

This fish, which has a large number of scientific names and several popular ones, belongs to the Perch family, has two spines on the after part of the gill-cover, and the margin of the fore gill-cover rough like the edge of a saw. Its color is bluish on the back, light on the sides, and white on the belly. The sides are marked by seven to nine longitudinal dark lines, from which its name is derived, the upper of which reach the tail, but the lower fade out above the anal fin. These lines sometimes are broken or consist of contiguous dots. The ventral fins are below and somewhat behind the pectorals, and have the first rays spinous. The fore part of the dorsal has nine spiny rays, and at the interval between that and the after part there is another small hard ray, while the after part is composed of twelve soft rays. The pectorals have sixteen soft rays, the ventrals one hard and five soft, the anal three hard and eleven soft, and the tail seventeen soft rays.

Whether the name Bass means Perch or not, I cannot say, although there is no such tradition among my Dutch ancestry, and I am unable to-find the word in

their Dutch dictionaries. There could, however, be no more creditable derivation, and as many authorities assert the fact, it is as well to let it pass. The fish are found along the coast from Maine to Florida, although they appear never to have visited Europe, and are the gamest salt water fish of our continent. In their season, which is at intervals from early Spring to late in Fall, they are taken on the bars and in every creek of our extensive coast. The net destroys the greater number, but they bite freely and fight bravely for their lives. Great skill and experience are requisite for their successful capture when they are shy and scarce, but when abundant or hungry, although always a dainty fish, they bite rapidly and boldly. Like the squid of the deep seas, these may be said to be the largest and smallest of fish; they are taken from an ounce to a hundred pounds' weight.

The Striped Bass becomes an object of the angler's attention in April, when he runs up the rivers to spawn. He ascends into cool fresh water, until arrested by a natural, or, too frequently, an artificial barrier. He is taken under the Cohoes Falls in the Mohawk, and at Albany and Troy in the Hudson, and reaches the very head-waters of the Delaware, where he is known as Rockfish. Many, and those the largest, do not appear to leave the salt water, and are found in the small bays and inlets. In the fall, when the cold weather sets in, they retire to the salt water coves and lagoons, where they lie imbedded in the mud or hiding near the bottom, secure against danger, or discomfort from cold or storms. Advantage is taken of this peculiarity by the market fish-

and the (Black.) ic names 1 family, , and the edge of a the sides, by seven s name is the lower etimes are entral fins and have dorsal has at and the e the after pectorals d and five d the tail

t, I cannot among my

ermen, and there is a pond on Long Island, near Sag Harbor, and others near Point Judith, that are a source of great profit to their owners. The mill-pond at Stamford having carried away the gates one Winter, and run out nearly dry, striped bass of immense size were picked

up by cart-loads from the muddy bottom.

These fish can be confined to fresh water without being permitted to visit the sea, and they will not only live and breed, but are said to be much improved by the change. In September they appear on the coast in shoals, and are taken both inside and outside of the bars, and in the bays and inlets where they resort for food. As they are much sought after and highly appreciated, and as I have added largely to my own knowledge by drawing extensively upon the experience of my friends, the following description of the numerous modes of taking them will be found rather minute.

When they first appear in April the shad are running, and hence, in the rivers that the latter frequent, shad roe is the best though most troublesome of all baits. In places where shad are not to be found, the bass are suspicious of such bait. As it is most difficult to fasten out the hook, it must be cut with the skin that envelops it, and tied on with tow, flax, or floss silk. Stonehenge, after eloquently defending the use of the salmon roe as a bait, which is ordinarily considered a kind of poaching, gives for its preparation the following directions, that apply equally well to the shad roe: Boil the roe without its envelope for twenty minutes; bruise it in a mortar to a uniform consistency; add to each pound an ounce of common salt and a quarter of an ounce of saltpeter;

beat them together and store it an earthen jar covered with a bladder. Frank Forrester recommends that the roe be well washed and thoroughly dried in the air, salted with two ounces of rock salt and a quarter of an ounce of saltpeter to a pound of spawn, dried gently and potted down, covered with melted lard or suet in earthen jars. This, either fresh or potted, is a most effective bait for striped bass, but I confess for trout my experi-

ence is to the contrary.

In streams that the shad do not frequent, striped bass are taken early in the season with shrimp threaded on longitudinally, by passing the point of the hook under the back plates; as the season advances, and crabs shed their coats, with the shedder, or better, soft crabs; and in the Fall with shrimp, the bass, or barred killey, and the spearing. In fishing with shrimp -and it is a good bait all the season through, and must be tried when others fail-use a float fastened about three feet above a swivel sinker, to the lower swivel of which are to be attached two distinct gut leaders; one of three feet, the other of two. Single gut, if large, round, and true, is decidedly preferable to double, and the hook should never be a coarse, clumsy Limerick, which has such an undeserved reputation, but a delicate Carlisle, with a broad, round bend. If very large fish are expected-and they rarely are-use No. 0; but generally No. 3 is large enough. With crab the hook must be larger. I prefer always to have the point of the hook covered, and recommend that the shrimp should be bunched on till they hide the hook entirely, and form a round, attractive bait, composed of so many shrimp as no bass ever before saw together.

ithout
t only
ed by
past in
e bars,
food.
ciated,
dge by
friends,
of tak-

nnning,
had roe
its. In
are sussten on
clops it,
ehenge,
roe as
paching,
us, that
without
ortar to
unce of
ltpeter;

In June, and throughout the Summer, the crab is a better bait ordinarily than the shrimp. I prefer the soft crab, because it does not dull the point of the hook, as will sometimes happen with a shedder that is not quite ripe; it is easily cut up into proper baits, whereas the shedder has to be skinned, or, more properly, shelled—a long and nasty operation; it is always in good order whereas others, unless carefully selected, and kept just the right time, will tear to pieces in the course of preparation; and finally, the skin of the soft crab, especially as it verges toward the buckram, enables the hook to retain its hold. Judging from human nature, I fancy the fish must prefer a nice, soft, plump bait, to one that is jagged and half full of pieces of shell.

Most writers say, fish with crab on the bottom, because there it is naturally found; I say, fish with it near the top, because no sensible fish can imagine that a quarter of a crab long since dead and dismembered has any control over its own motions. In fact there is no unbending rule for fishing; the only way is to try all plans, and if the fish will not notice your crab suspended in mid-water, take off your float and swivel sinker, put on a running sinker, as it is called, made like a piece of lead pipe with a small hole in the centre, tie a knot in the line to prevent its going down on the hook; use a single bait of a good-sized piece of crab and cast well out from you, and the first eel that comes along will astonish, not to say disgust you. The line being free, though the lead lies on the bottom, you can feel the first touch of a fish, and strike at once; whereas if the sinker were the old-fashioned deep sea lead he would have to drag its weight some distance before the fisherman would be aware of his proceedings. A man, by fishing on the bottom, although justified by a philosophy which establishes the fact that bass ought to look for crabs there, and not dangling about in mid-wat r, will surely catch three eels to one bass. The truth is, crabs are not found on the bottom in such places, generally strong foaming currents, which they never frequent unless carried away by the force of the water, and soft crabs are by their natural enemies, and many other causes, often torn into pieces and borne about by the tide.

10

r

he

n;

it

ain

ish

ged

be-

lear

uar-

any

end-

ans,

d in

t on

e of

t in

se a

well

will

frec,

the

the ould

sher-

The bait should be kept in continual motion: this is the first law of all bait fishing. It is done by twitching the rod, and induces the fish to seize the prey, which they imagine is about to escape. I have seen them time and again dart at a bait when in motion, that they had smelt round contemptuously when still. Crab is universally regarded as the preëminent bass bait in Summer, although its reputation is disputed by that wonderful production of the sea, the squid. This horrible monster, of which sailors tell such astounding stories, has illuminated the tales of olden time, and been a pet forecastle yarn with ancient and modern mariners. There are accounts of ships seized by its arms, that reached to the mastheads, and sunk or only saved by prayers to the Virgin Mary and the vigorous use of axes on its many muscular and boneless limbs; of grateful mariners presenting pictures of the dreadful encounter to the shrine of Our Lady; of huge pieces of the arms of this fish, indicating that they must have been sixty or more feet long, found in the maw of the whale, whose food they are; and horrible stories whispered with bated breath, of men in bathing drawn down by even the smaller of the monsters. Though there must be something in it, I doubt if this is all true, notwithstanding the squid is ugly enough for anything. With us the squid or cuttle-fish is harmless except to the sight, and in his native element is glad to hide himself in the obscurity of a dark liquid that he has the power of emitting, when pursued. The only bone in his body is in the middle of his stomach, and what it is put there for unless to give him an accurate idea of indigestion, no one knows. For the present it is enough to say he is good bait, although not handsome, and may be used either in trolling or still fishing.

Another excellent bait early in the Fall, although nowhere mentioned in the books, and, I believe, my own discovery, is the scollop. My attention was first called to it by some men opening them for the table and throwing the many-eyed skins into the water. The bass collected at once and rushed eagerly to the very dock, almost springing out of water to seize the coveted morsel. Upon this hint I acted, and by great care, for the scollop is extremely tender, and by passing the hook several times through the skin, I succeeded in keeping the bait on while I cast very gently. My success was astonishing, and then and afterward I took the largest fish under the most unfavorable circumstances with it, when they would not touch the most tempting crab. The heart of the scollop is pearly white, and is attractive and so good that no wonder the bass should be crazy for it. It is difficult to manage and easily washed off the hook, but if any fisherman shall see bass, as I have often, lying

W

a

de

bı

gı

B

th

th

str

COL

an

Wi

the

and

wil

ticu

mei

in a deep pool, occasionally leaping out or sluggishly showing their back fins on the surface and refusing all allurements, let him try scollops, and he will think of me in his dying hour.

.6

0

is

be

10-

K D

to

ng

ted

ost

el.

ol-

ral

ait

sh-

ish

ien

Che

and

it.

ok,

ing

As the days grow colder and the crab reassumes his impenetrable coat and dangerous pincers, shrimp again come into play, and on many occasions the belly of the white soft clam will attract the bass even earlier in the season. But in August I have had excellent sport casting, if I may use the word, for him with the spearing. Early in Summer a delicate little fish an inch or two long, pearly white and semi-transparent, with a black eye and a white band along the lateral line, makes its appearance on the shores of Long Island Sound and elsewhere, and has come to be called the spearing. It is a beautiful fish, and properly dressed might rival in delicacy the far-famed English white-bait; but it is never brought to market till later in the season, when it has grown several inches long and is comparatively tasteless. Being too small in the early summer to take a hook, they are difficult to catch; but an excellent net, both for them and killey-fish, can be made of mosquito netting stretched double between two hoop-poles, with a stout cord run along the top and bottom to receive the leads and floats respectively. The netting being of extra width, can be doubled together with the lead line laid in the bag, or, as sailors would say of a rope, in the bight, and the leads being small pipe, fastened at short intervals, will keep the net close to the bottom—an important particular. It should be five to six yards long; and two men, taking each a handle, can sweep a considerable part of the shore, and often fill a pail with minnows or spearing at one haul.

The killey-fish, so called by our ancestors from being caught in the kills or creeks, and which, by the by, are at least of three kinds without counting sticklebacks, will rush about and try to creep under the net; but spearing, which always go in shoals, when once in the net do not seem to be able to escape, and will stay there as long as it is kept in motion. No fisherman living near the water should be without this contrivance, as nothing is so annoying as to be unable to get bait; he will soon acquire considerable skill in its use, and if he is as boyish as a fisherman ought always, though grey-headed, to be, he will experience much excitement in the pursuit even of his bait. If spearing cannot be had, though that is rare, the barred killey, vulgarly called the bass killey, is the next in beauty and attractiveness; it is the Fundulus fasciatus, or striped killey-fish of De Kay, and if it cannot be had, the ugly green killey-fish, Fundulus viridescens, may be used, but with doubtful success.

To cast with spearing in the manner here suggested successfully, a stout long salmon rod will be requisite. A small hook is run through the spearing's mouth and out at his side, for he is long since dead, and a cast is made into the foaming torrent of a mill-tail or rushing tide. The bait is drawn irregularly over the surface of the water, and again cast and played like the fly. The bass strike it as trout or salmon take the latter, and there is the same skill and uncertainty in the pursuit.

I was once fishing in this manner for snapping mack-

Dear eing , are acks, pearet do long r the ing is soon s boyled, to ursuit hough e bass is the Kay, , Funal suc-

gested puisite. th and cast is ushing face of . The er, and

> uit. mack

erel, the young of the blue-fish, Temnodon saltator, with single gut half worn through, and the lightest tackle. I had been quite successful, much to the disgust of older men who were fishing in the usual manner with live killey and no luck, and finally made a cast right among a number of their floats. Suddenly, from the turbid depths, shot a huge bass, gleamed for a moment in the sunlight, and disappeared beneath the surface carrying my spearing in his mouth. It was a splendid fish, and my skill was tried to the utmost; many a run I was forced to give to, and only the great length of line I had on the reel saved him; after a good half hour's excellent sport I brought him to the net, and my companions were still more disgusted at their want of luck. I again made a few casts, catching several snappers, when another bass, full as large as the first, struck me and was landed after an equally spirited contest. This was early in September, and before the fish were taken by trolling in that neighborhood.

In June and October, bass of great size are captured off Point Judith with half a mossbunker, otherwise menhaden, hard-head or bony-fish, the *Alosa menhaden*, thrown from the rocks by rod or hand into the surf. The bait is ordinarily tied on the hook, which is large, and thrown without float or sinker as far into the sea as its weight will enable the fisherman to cast, and then slowly reeled or drawn in. Similar fishing is pursued at Newport, and bass are frequently taken of over forty pounds.

A favorite mode of catching these fish is by trolling from a boat either with rod and line or hand-line and with the natural squid, or the imitation made of pewter, tin or bone. In this mode very large fish were once taken at Hell Gate, but the glory thereof has departed. Where squid cannot be obtained, the large spearing or barred killey will answer well.

There is this redeeming quality about taking striped bass with the float and sinker, that the fishing generally being done in a rapid, and at times, boisterous current, the bait has to be kept in motion, and it is necessary to reel in and cast out every few minutes. As great skill in casting can oe obtained, and there is an immense advantage in throwing into the exact spot, it is truly a sportsmanlike mode of procedure. A good fisherman can east thirty to forty yards, or even more, into the size of a hat, without tangling the line or jerking the bait, while the tyro will generally fail reaching half the distance, and will frequently leave his baits on the way. I can cast better and further from the left side, and have heard many old fishermen say the same, but you must be able to use the rod on either side.

As there are persons so ignorant as not to know how to cast at all, and as I once found one stopping his reel with his first finger, I will say that to make a cast the line is recled up till the float touches the tip, or in case no float is used, till the bait is within a foot of it, the right hand grasps the rod at the reel, which is turned up, and the thumb placed upon it to regulate the escape of the line; the left hand is near the but; the point of the rod is then carried back behind the fisherman, and with a steady, springy rection is suddenly brought forward and the line delivered. A jerk, or the fouling of the line, which will surely happen if it is allowed to overrun, will

once rted. ng or

erally
erally
erally
erally
erally
erally
erally
exit skill
exit s

his reel cast the cast the cast of it, s turned e escape at of the line, run, will

certainly tear off your baits, and perhaps your float and sinker; the sinker must strike the water in advance of the float, or the leader is apt to hitch round the upper point of the latter.

The most scientific and truly sportsmanlike mode of taking striped bass must be admitted to be with the fly; which, unfortunately, can only be done in the brackish or fresh water. Like salmon, they will not take the fly in the salt creeks and bays, and thus, though the sport is. excellent, it is confined to few localities, and those difficult of access. Fly-fishing may be done either with the ordinary salmon rod, or in a strong current with the common bass red, by working your fly on the top of the water and giving a considerable length of line. best fly is that with the scarlet ibis and white feathers mixed, the same as used for black bass; but bass may be taken with any large fly, especially those of gay color. Excellent sport is frequently had in this way from off some open bridge, where the falling tide, mixed with the fresh water, rushes furiously between the piers.

It is generally conceded that the best time for bass fishing is at night, especially if the moon be bright. The most favorable wind is a southwesterly one, strong enough to make a good ripple on the water, and the right time of tide from half-ebb to half-flood. In the shallower in est the neap tides are preferable, as they do not drain the water so low as to alarm the fish.

In bass fishing, whether for trolling or casting, the rod should be eight to ten feet long, stiff and light, but with a certain amount of elasticity. A rod made of a piece of bamboo, cut in two joints, will, until some awkward

friend steps on and breaks it, answer as well as any other, and one that costs three dollars is in every particular as good as one worth forty. The light bamboo jointed rods of our ancestors are no more to be had; the makers say it is impossible to get the cane of the proper taper, and rods of ash and hickory have come into fashion. The latter will answer every purpose, but as they are sure to warp, the guides should be double, so that the line can be shifted from one side to the other. Patent standing guides are all the fashion with us, though the English use the old-fashioned rings made large. Of course we prefer our own invention. The funnel-top should be large, and for a valuable rod, or a particular gentleman, should be made of agate. They are infinitely superior to the old-fashioned ring-top still used in England. Avoid having many guides; they create friction, and three or four will answer every purpose.

If you are a gentleman and a man of fortune, of lavish hand and open heart, you should use what is called a grass or raw silk line, buying a new one every two weeks, by which time it will be rotted out. It does not kink or over-run, works beautifully, and will enable you to cast ten yards further than with any other; but it is not strong at best, will rot immediately if not dried after the least exposure, and costs money. If you are a poor or a careless man, buy a new flax line every year, and throw it away in the Fall, after being disgusted with it all the season. If you are neither of these, buy a plaited silk line of one hundred yards; be sure and get a new one, and take care of it.

Jines may be preserved from rotting by being dipped

other, lar as 1 rods rs say er, and . The sure to ne can tanding English urse we ould be ıtleman, superior Avoid three or

of lavish called a very two does not able you but it is ried after re a poor year, and d with it a plaited et a new

g dipped

in a mixture made of one pound of printer's varnish, half a pound of siccity, and one gill of spirits of turpentine, warmed up together, or in the ordinary drying oil sold at the paint shops, and although they do not render quite so easy, I have all mine, trout and bass lines, so prepared. I cannot take the trouble to dry my lines after every exposure, and if once forgotten, without being so protected, they are ruined. A well-made silk line is strong enough to hang oneself by, if the angler should be disgusted with life by his ill luck, and coated in this manner they will last a long time. They do not get saturated or take up water in casting, and do not stick to the rod as they otherwise would. Lines for fly fishing, prepared in a similar manner, are sold in the fishing-tackle stores, although the makers are opposed to an improvement that will diminish their business. The line is dipped in the preparation when warm, and left in all night; it is removed next morning after the mixture has been rewarmed, and is stretched in a garret or other place not exposed to the sun or rain, and the superfluous varnish wiped off, and after it is thoroughly dried, it is well rubbed. This preparation cannot be used with linen or cotton lines, as it will rot them.

In striking a bass you cannot be too quick, and when fishing with a float your line will sink in the water and enable you to trip the float and fix the hook at once. The fish must then be kept well in hand; but never exhibit severity unless compelled by circumstances; be rough, and the fish will be rough; be gentle, and he will come to you like a friend. Keep him from the rocks and bottom if possible; but give to his willful rushes till he

is content to listen to reason. By this course you will avoid feeling often that sinking of the heart that follows when the strain suddenly ceases on your line, and you

know he has escaped.

That fine game fish of the southern States usually called bass or red-fish, belongs to another family, and is the *Corvina ocellata*, or branded corvina. It is distinguished by a peculiar black spot, like a drop of ink, near the tail. It furnishes noble sport and excellent eating, abounds in the neighborhood of the Chesapeake Bay, and is highl, prized at southern tables.

(D)

Bas app ily, scient clatte seve and ing t all f according to the posed found enem

strean said t color when

preser

CHAPTER XXII.

ill ws

lly Lis

tin-1ear

ing,

and

BLACK BASS.

Gristes Nigricans (Agassiz)—Centrarchus Fasciatus (De Kay).

This fish has innumerable scientific names, while it can scarcely be said to have any distinctive popular one. Bass, either alone or with some additional appellation, is applied by common usage to almost the entire perch family, one of the largest among the American fishes, while scientific men are at as great a loss for appropriate nomenclature or accurate distinctions. There are probably several species classed under the same name as this fish, and itself differs greatly in color and appearance, according to its food, water or locality. There is no doubt that all fish, and more especially trout, change their hues according to the color of the water they inhabit, or even to the light or shade of their favorite haunts. It is supposed that they assimilate to the bottom where they are found, a provision of nature to protect them from their enemies of the air. Unquestionably the same species present a very different appearance in clear, limpid streams, and in muddy, sluggish brooks. Black Bass are said to possess of themselves the power to change their color at will, and have been known to do so repeatedly when confined in a vessel of water. They are found to

have black, green and yellow sides, according to circumstances, and often within a short distance of one another, though their backs are generally dusky black.

The gill-cover has two flat points, the teeth are minute, while the back fin, though single, is partly divided into two. It contains ten hard and fourteen soft rays; the pectoral has eighteen soft rays, the ventral six, the first one almost spinous, the anal three spines, the first very short, and twelve soft rays, and the tail sixteen soft rays. This fish has been confounded with the Lake Huron Black Bass, Huro nigricans, which is now supposed to be a different variety, characterized by two longitudinal lines or stripes running the entire length of its body.

or

of

wl

flie

ma

mi

in 1

mo

seve

tha

and

be 3

are

side

erel,

when

your

boat

a larg

if he

ferabl

A

 \mathbf{B}

The gill-rays are six and the fin-rays, as given by Dr. De Kay, are as follows, but I think liable to considerable variation.

D. 9.1.14; P. 18; V. 5; A. 3.12; C. 16;

Black Bass, belonging as they do to the perch family, have many of the habits and can be captured in the same manner as their congeners. But, as they are infinitely superior in flavor, they are equally so in game and sporting qualities. They will take minnows, shiners, grasshoppers, frogs, worms, or almost anything else that can be called a bait, and like all fish, prefer the live to the dead. They may be fished for with good stout tackle, gut leaders, a reel, and an ordinary bass rod, in the same manner as fish are generally captured by boys and blockheads. In June they affect the grassy bottom in water fifteen to twenty feet deep, but as the season advances they resort to the rocky shoals and rapid currents, where they are taken on and after the middle of

July by sportsmen with the fly. They may be captured by casting the fly as for salmon or trout, and this is by far the most sportsmanlike way, but the most destructive and usually resorted to is trolling. For casting, a two-handed seventeen foot salmon rod is preferable, while for trolling, a short bass rod is the thing. By anchoring your boat to the windward of a shoal, or by walking out on some point of rocks, you can command a great extent of water with your fly-rod, and have royal sport alone, whereas for trolling an oarsman is indispensable.

The flies to be used are the ordinary small-sized salmon flies, not too gaudy, though the first dropper and tail fly may be larger and made of white and ibis feathers mixed. In casting you will use your ordinary cast, but in trolling you may attach five or six flies to a long salmon leader at equal distances, and will frequently take several fish at a time. My experience has convinced me that a number of flies attract fish, whether trout or bass, and the more you can conveniently use the greater will be your success.

Black bass abound in the northern waters, where they are invariably trolled for with two rods, one on each side of the boat, in the same manner as in taking pickerel, but two rods are a great additional trouble, for when a fish strikes one the other has to be reeled up by your boatman, lest the hooks sink to the bottom. If the boat is kept in motion, it is almost impossible to reel in a large bass, and would make a labor of a pleasure, even if he should be eventually captured.

A small trolling spoon is excellent bait, probably preferable to the fly at all seasons except the middle of

umhēr,

into; the first very rays. Black be a

by Dr. nsider-

l lines

family,
in the
re infime and
chiners,
se that
live to
l stout
, in the
ys and
tom in
season

id cur-

Idle of

July, when the eel-fly, the principal food of the bass, is just disappearing, and the artificial fly is then a luxury. In case a spoon is used, the shank of the hook is usually wound with ibis feathers, and a Buel's patent is the favorite. It has been recommended at times to fasten a forked piece of pickerel tongue on the bend of your fly-hook, but like a similar direction as to a worm on a trout fly-hook, I have no faith in it. Another successful bait that has, in my opinion, more reputation than value, is the kill-devil, a creature that is beyond my powers of description, and must be seen to be appreciated.

i

le

P

n

aı

de

in

Se

fis

of

on

ad

th

bla

lin

The hours and days favorable for fishing are, in the main, similar for all fish; if the water is deep or turbid there may be an exception, but generally a southwesterly wind, a cloudy sky, and the morning and evening hours, will yield the best sport. This is so for black bass, and the more wind the better, until it becomes difficult to row and manage the boat. In the western wilds, where deer are plentiful, an attractive fly is made by tying a white and red tuft of deer's hair along the shank of the hook; the thread being passed round the middle of the tuft, allows the upper part of the hairs to be bent back by the motion through the water, giving an appearance of life to the bait.

An ingenious mode of proceeding is suggested in Brown's Angler's Guide, that is worthy of young American genius, to which it is attributed. A boy having caught a sun-fish, runs his hook through its nose and out at its mouth, covering the point with a lively worm. Other sun-fish, seeing their fellow have all to himself a fine, fat worm which he seems unable to master, collect

round him, and by their numbers attract the bass, who dashes in among them, and while the rest make off, swallows the one with the worm, and of course himself falls a prey to the ingenious young fisherman. This like the use of cray-fish, mice, swallows, and many other baits, may be excellent, but I have never tried it or them; so long as the fish will take a fly, I fish with nothing else; it is infinitely more exciting to kill one fish on the fly than ten with bait.

Black bass are taken among the Thousand Isles in immense numbers, but not of any great size, rarely exceeding three pounds. In Lake Champlain, near Rouse's Point, and in the lakes of Canada, they grow larger. The largest, probably, never exceeding eight pounds. They are taken in most of the waters of the northern and northwestern States, especially in the Niagara and Detroit rivers, Lake St. Clair, Lake Eric and Lake Huron. They make their appearance from deep water in May and June, grow to great excellence in July and August, but are in their best condition in September and October. They are a fine, noble game fish, and where trout are not to be had are well worthy of the sportsman's attention; when captured, which can only be done by skill and care, they prove an excellent addition to the table.

The fish usually known as trout at the South, albeit that name is applied to many varieties, is a species of black bass, and is taken by trolling with a rod and short line before the boat as it is rowed along.

xury.
sually
is the
sten a
ar flytrout
l bait

lue, is

ers of

in the turbid esterly hours, ss, and cult to where ying a of the of the

t back earance

Amerihaving and out worm.

mself a collect

CHAPTER XXIII.

ROCK BASS.

Centrarchus Eneus.—This is an entirely distinct species from the Black Bass, though, being somewhat similar in color and shape, is often confounded with them. The same may be said of the Osvego Bass, which is now ascertained to be equally distinct, though commonly known as bass, and supposed to be identical. The fish under consideration must in no wise be confounded with the Rock-fish of Pennsylvania, which is the Striped Bass, Labrax lineatus, and which the benighted Pennsylvanians would oblige us by calling by its right name.

The Rock Bass has two flat points at the angle of the gill-cover, and is distinguished from the variety last described by six or seven spines and eleven soft rays in the anal fin. The dorsal has eleven spines, and ten or twelve soft rays; the pectoral fourteen soft rays, the ventral one spine and five soft rays, and the gill-rays are six. The fin-rays are given by Dr. De Kay as follows:

D. 11.12; P. 14; V. 1.5; A. 6.11; C. 173.

This fish is found in much the same waters as the black bass, and, like the latter, made its way on the completion of the Champlain canal through it into the Hudson River. It takes any of the ordinary baits, preferring, however, the cray-fish, Astaeus Bartoni, and can be

captured even with the fly, but not readily. In the St. Lawrence River it feeds mostly on the cel-fly, so long as that lasts, choosing, I believe, the dead ones; and in July I have found them filled with that fly. They never attain the size of the larger black bass, although they are taken of over three pounds, but are a brave, voracious fish, and excellent at table.

t spemilar The now

nonly
e fish
l with

Bass,

of the st dein the swelve al one The

es the comudson erring, an be

CHAPTER XXIV.

THE PIKE PERCH.

Lucioperca Americana.—This fish is mentioned more on account of the absurd misnomers that have been applied to it, to warn persons against similar errors, than on account of its sporting qualities. There appears to be some confusion among naturalists concerning this family; there is probably an undescribed species. Dr. De Kay mentions a bluish fish which he regarded not as a distinct variety, but as an aged specimen. By a close comparison of the two, I am satisfied that although the scientific peculiarities are wonderfully alike, there are substantial differences.

The Pike Perch is called the Glass-eye, the Big-eyed Pike, the Pickerel, Pickering, and Pike of the Lakes; whereas a simple suggestion will establish the difference between it and the pikes or pickerel. The latter has all the fin-rays soft, and the ventrals in the centre of the abdomen, whereas this fish, which is a true perch, has many spinous rays, and the ventrals close beneath and just behind the pectorals.

The Pike Perch is of an olive color on the back, yellowish on the sides, and white beneath. It attains a weight of thirty pounds, and is distinguished particularly by the peculiarity of having the membrane attached to

the last two rays of the first dorsal jet black, whereas that attached to the other rays is yellow. The lower edge of the gill-cover has been described as smooth, but I find the fore part of it slightly serrated; the posterior part has one flat spine, beyond which there is a pointed membrane, and above a rudimentary spine. There is a series of sharp teeth on both jaws and the gill-arches, two in the front of each jaw being long and conspicuous. The base of the tongue is roughened but toothless, and I can find no teeth on the vomer. The scales are not large, and have the edges marked out by a series of dots.

The fins, as I make them, are-

Br. 7; D. 13.2.20; P. 10; V. 1.5; A. 1.14; C. 17.

But according to Dr. De Kay they are-

Br. 7; D. 13:1.21; P. 15; V. 1.5; A. 1.14; C. 17‡.

The color of the anal is reddish yellow; of the ventrals light yellow, and pectorals yellowish olive. There are scales on the gill-covers; those on the fore gill-cover being scattered and few. Beyond these differences my examination found the ordinary pike of the lakes to accord with the description of Dr. De Kay; but the other species that I have mentioned was very different both in color and appearance, and is, as I conceive, the true Ohio salmon, a name that has been applied to the species just described.

As for the color in the latter species, that was totally different, being so far like the salmon as to have no doubt given origin to the name. It is bluish grey on the back, greyer on the sides, and white on the abdomen. The only part of membrane of the dorsal of the salmon that is black is that attached to the last spine alone of

ned more ave been rors, than ppears to ning this

cies. Dr. led not as by a close hough the there are

Big-eyed ne Lakes; difference ter has all tre of the perch, has neath and

back, yelattains a crticularly tached to the first dorsal. The shape of the fore gill-cover is slightly different, and the spines on its edge are more distinct and regular, like teeth. There are no bars on any fin except the dorsal; there are no scales on the gill-cover, and the fins are all light and transparent. There are minute teeth on the base of the tongue.

The fish that this description is taken from were found in New York market on the 25th day of February, and may have been altered by their winter dress; but they were unknown to the fish-dealers, one of whom called my attention to them and inquired their name. They did not weigh over a pound, and the largest was fifteen inches long, of which the head was four. Of the dorsal, the second, third and fourth rays were the longest. Being but a sportsman, I mention these matters to attract the attention of the learned, who would do us a favor if they would seek out the old Indian names to apply to our anonymous fish.

There is a third described species of lucioperca or pike perch, as the word means; lucioperca grisea, that is found in the limits of New York, as well as the lucio-

perca canadensis, which belongs to Canada.

It is to be observed that Dr. De Kay puts the length of the *lucioperca americana* at 14.5, but says they are occasionally much larger; whereas the fish known as the pike of the lakes is taken in immense quantities in Lake Ontario, in April, of twenty pounds' weight, and rarely falls below five. There is a small pike perch known as the sorga, with the same general characteristics, but with the membrane attached to the last spine-ray of the first dorsal alone black. The back is yellow mottled with

cover is re more bars on the gill-

are found lary, and but they m called e. They as fifteen to dorsal, longest. to attract favor if apply to

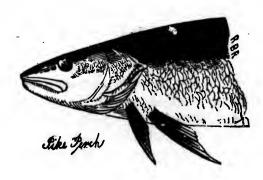
a or pike , that is the *lucio*-

they are wn as the in Lake id rarely mown as but with the first led with

black, and shaded down the sides to white on the abdomen; the first dorsal is yellow with dusky spots; the second dorsal and tail yellow with dusky bars; the gill-cover is scaled and the fore gill-cover partly scaled. It is precisely the shape of what I call the Ohio salmon but of a totally different color. Its length is about twelve inches, and its weight does not exceed a pound. The fin-rays are—

Br. 7; D. 12.1.18; P. 12; V. 5; A. 1.11; C. 17%.

There are unquestionably at least three distinct varieties, besides the grey and the Canadian pike perch; they are popularly known as the pike the sorga, and the Ohio salmon, and all are highly esteemed for the table.



CHAPTER XXV.

THE YELLOW PERCH.

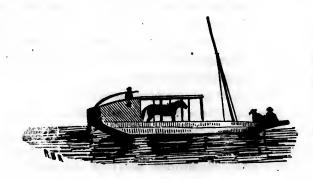
Perca Flavescens.—The Yellow Perch has, as his name indicates, a predominant yellow color on his sides; there are a number of dark vertical bars over the back, and the pectorals, ventrals and anal are orange. The gill-cover is serrated beneath and armed with a long spine, and the fore gill-cover has a toothed margin. There are two dorsals; the ventrals are beneath and slightly behind the pectorals, and the teeth are minute. The greatest weight is four or five pounds. The fin-rays are as follows—

D. 13.2.15; V. 1.5; A. 2.8; C. 17.

Unfortunately, this fish, equally despised by the gourmand and the sportsman, abounds in our fine ponds and lakes, that ought to be devoted to his noble congener, the black bass. He will take the fly if it is allowed to rest in the water, and after hooking a trout that had fouled in the weeds, I have found a perch on the second fly. He spawns in April or May, seeking the sandy shore, near projecting roots, where there is a depth of a foot of water. I have seen them crowded together, male and female, jostling and following one another round and round through the roots, pressing out milt and spawn, and so busily engaged that they could

be taken with the net or the hand. In mere wantonness and desire to diminish their numbers I destroyed all I could, hanging them on strings with the spawn streaming from them. The eggs, which were almost transparent, were in the water in masses, kept together by a glutinous substance, and each marked with a black spot, and could be taken up in the net, straining slowly through the meshes.

Yellow perch will take worm or minnow, preferring the former, and it is probable destroy numbers of young trout. Their flesh is coarse, white and tasteless. They are pursued only by boys and ladies.



as his on his es over al are armed coothed are bee teeth bounds.

y the ponds le confit is a trout erch on eeking nere is crowding one ing out could

CHAPTER XXVI.

PROPAGATION OF FISH.

THERE is no subject more important to the material welfare of our country, or that a persistent and willful disregard of the laws of nature has rendered more necessary, than the culture of the various tribes of fish that were once abundant in our rivers and lakes and along our coasts, but which are rapidly diminishing, and threaten soon to become extinct. How sad it is to think that once the glorious salmon leaped and frisked in the quiet waters of our noble Hudson, and sought bowers of love in its cool sources; that they were formerly so plenty in the Connecticut, as I have already mentioned, that a person buying shad was required to take a proportion of salmon. How great the loss, not merely to us sportsmen, but to the long-headed political economists, who calculate to a penny all that a nation would bring if put up at auction, and look at everything as a source of wealth.

Thousands of dollars are sent yearly to Nova Scotia and the Canadas to pay for salmon that even there are rapidly diminishing, whereas, with a little public spirit, they might abound at our own doors. There is no doubt that all these streams might be restored, and many others supplied with salmon, at little expense and less trouble

in fact, the sportsmen would take the affair into their own hands, if the proper legislation could be obtained. But so long as private individuals are allowed to dam the water-courses by an obstruction so constructed that the fish cannot surmount it, so long will private enterprise and public effort both be in vain. A dam, no matter how high, is rendered entirely harmless by being provided with a narrow sluiceway or flume, a few feet wide and leading to the water beneath, or by boxes placed one below another, making a number of small leaps. This the salmon can surmount, even with a moderate depth of water, and will, if left undisturbed, readily ascend at night. It occasions no loss to the proprietor, is built at little expense, and yet the want of it has cost our State alone millions. It is now required in the dams of Lower Canada, where effective laws have lately been found necessary to preserve the fish even there from annihilation, and could be introduced on all our streams for one-tenth the annual tax we pay to the British Provinces for salmon. With the destruction of the forests, saw-mills, those enemies of fish-kind, have greatly diminished, and could easily be so regulated as to do no harm, and as the same thing may be said of the tanneries, there need be nothing to drive the fish away were the waters replenished. This we sportsmen will undertake to do, if our legislature will, for a few moments, forget Republican and Democrat, and attend to the interests of their constituents by passing laws similar to these enacted for the Canadas.

It is strange indeed that, while we pay a heavy bounty to our countrymen engaged in the cod fisheries, we

aterial willful necesh that along g, and think in the vers of plenty that a

tion of

sports-

s, who

if put

Scotia ere are spirit, doubt others should be unwilling to adopt the simplest legislation to preserve, foster and protect our other fishing interests. Cod are not generally considered equal to salmon or trout, and although at present more numerous, a few years of culture might bring the latter extensively into competition. I am not in a position to give statistics, but the salmon that are sold in our markets fresh and smoked, to say nothing of that which is pickled, must amount to millions annually. No one single subject is so important and so capable of adding to the wealth of our country as the re-stocking our rivers with their natural inhabitants.

There is a very erroneous impression, encouraged, too, it is shame to say, by Smith, in his work on the fish of Massachusetts, that the wild creatures of the woods and waters must, in the nature of things, disappear before man. Now, although this is a lamentable fact, it is not a necessary consequence, and there is nothing in man's capturing fish or killing game, properly and reasonably, that will seriously diminish their numbers. Fish and birds prey on one another; for every large trout a man takes he saves a hundred small ones; for every hawk he catches hovering over his barnyard, and kills, he saves a hundred quail, and thus, although he kills them himself, he preserves them from vermin, from one another, and from birds of prey. If he will add to this a very little care and protection of the young, he will increase the supply a thousand fold.

It is calculat I that the roe of one shad or cod would stock the world, but that not one egg in a million arrives at maturity. The lowest calculation of the roe of a pound trout is five hundred, and I believe it frequently exceeds a thousand, and salmon have many more. Con ceive, for a moment, if each female trout produced one-hundred mature fish, which in three years would each produce one hundred more, the incredible number that would exist.

The waters of the earth are capable, if as well tilled, of supporting as many as the land; and there is no reason why they should not be cultivated. Nothing is simpler; as with the land a savage may scratch up the earth sufficiently with a stick to support himself and family, a scientific farmer, with proper tools, would in the same ground support a hundred times as many; so with the water, a careless, lazy person will get one fish for ten eggs, while a thorough-going, careful laborer will bring to perfection almost all.

This may be done with only the labor, which, in fact, is the greatest of pleasures, and at the small expense of feeding the fish. Young fry require fine food, such as meat or fish grated, but as they grow older, devour almost anything. Ronalds, the author of the "Fly-fisher's Entomology," having dosed them with cayenne pepper and mustard, found it not in the least disagreeable or apparently injurious.

If this were an attempt to introduce fish where they had never before existed, there might be some doubt of its success, but it is merely following a course adopted in England and France with astonishing results, by which many streams that had been as totally depopulated as the Hudson, and none could be more so, have been entirely restocked, and are now sources of great profit to

on te erests. on or a few y into istics, h and must ect is lth of

d, too,

fish of
ls and
before
is not
man's
nably,
h and
a man
wk he
aves a
imself,
r, and

would rrives of a

little

se the

their owners. There is nothing, therefore, in the least startling or original about the undertaking, and it requires public aid only because rivers are never here owned, as in England, by one great proprietor. It applies to all our fresh water and most of our salt water fish, and is in full operation upon some of the smaller ponds in this country. Where the fish are open to all, there is not sufficient interest for one person to undertake their culture, and as this must always be the case with salmon, their production must be made either a question of public interest or private enthusiasm. The latter, with the sanction of the former, will be fully sufficient for the purpose.

One invariable peculiarity of the American people is, that they attack, overturn and annihilate, and then laboriously reconstruct. Our first farmers chopped down the forests and shade trees, took crop after crop of the same kind from the land, exhausted the soil and made bare the country; they hunted and fished, destroying first the wild animals, then the birds, and finally the fish, till in many places these ceased utterly from off the face of the earth; and then, when they had finished their work, that race of gentlemen moved west to renew the same course of destruction. After them came the restorers; they manured the land, left it fallow, put in practice the rotation of crops, planted shade and fruit trees, discovered that birds were useful in destroying insects and worms, passed laws to protect them where they were not utterly extinct, as with the pinnated grouse, of Pennsylvania and Long Island, and will, I predict, ere long re-stock the streams, rivers and

ponds with the best of the fish that once inhabited them.

Another utterly erroneous impression exists that steamboats and river craft frighten away the denizens of the deep, and the disappearance of striped bass in Hell Gate is brought forward as an evidence. But the proof does not sustain the proposition; it cannot be doubted that the fish have diminished, but in Hell Gate the change was produced by blowing out Pot Rock and destroying the best eddy. It may be well to remark, for the benefit of the benighted individuals who do not reside in the city of New York, that Pot Rock was situated in the centre of Hell Gate, and being only some seven feet under water, was as much admired by the bass as it was dreaded by the steamboats, till the United States Government employed a French gentleman to blow it to pieces with gunpowder, so that there should be twenty-one feet of water over it at low tide. Since this was done the bass have left in disgust, and the steamboats have had the better of it, which they never would have had unless aided by gunpowder and a Frenchman. Of course, fish are not so numerous as they were fifty years ago, when there was little market for them, but the net is to be blamed rather than the steamboat.

The first attempt at artificial fish-culture in Europe was made by Messrs. Gehen and Remy, in France, although it appears to have been known to and practised by the Chinese for centuries, and by the Germans a hundred years previously. In 1850, the attention of the French government was called to their efforts, and M. Milne Edwards was appointed by the Minister of

here r. It water maller to all,

least

e case ther a The ly suf-

under-

ople is,
I then
I down
of the
made
roying
ne fish,
he face
I their
ew the

the reput in diffruit roying where mated

s and

Agriculture to examine into the subject. His report was so favorable and so fully confirmed by subsequent investigation, that the government took the matter under their own care, established extensive works, stocked to repletion many of the rivers, and now supply all France with impregnated egg or young fry of the best varieties.

In England, that land of sportsmen, the discovery was hailed with enthusiasm, and put in immediate and successful operation. Millions of trout and salmon were batched, and the results were truly wonderful. Rivers that had ceased to afford a single fish were made to teem with them, and large revenues were obtained from the fishing rights. Over a million fish were introduced into the waters of one company, and surprising discoveries were made as to their growth. In Scotland, a large number of young salmon or smolts, being one year old and averaging an ounce weight, were marked by cutting off the adipose dorsal fin of every hundredth fish, and allowed to descend to the sea. They returned in two or three months, the smallest weighing three pounds and a half, and the largest nine pounds and a half. that one hundred thousand out of the three hundred thousand hatched returned, having gained an average weight of five pounds, and worth in New York market forty cents a pound, will some one that is good at figures please calculate the hook and net profits.

Very confused ideas of the growth of fish are popularly entertained; numerous contradictory statements are to be found in the books and to be heard from sportsmen, but the truth is generally missed; in fact, everything depends upon the food. A strong fish grows the fastest;

the larger he becomes the more he is able to seize and bear away from his brethren. Hence, in the same hatching, I have seen trout at one year of age, the largest of which was six inches long and the smallest less than three. In two years, with good feeding and a variety of food, such as is always to be found in a newly-made pond, they will grow to weigh three-quarters of a pound. In overstocked streams, like our country brooks, where there is little on which to feed, trout never attain any considerable size; the greater number will not exceed a few ounces, and a pound fish is looked upon with awe.

The migratory trout that go to the sea in Winter grow much faster than those that remain in the fresh water, and will frequently gain a pound in one season. With this explanation, these differences of opinion are perfectly reconcilable, one observer having drawn his conclusions from individuals luxuriating on the fat of the land, or rather water, and another drawing his from some poor, half starved specimens. Range of water is indispensable to the attainment of great size; there is no species but is puny in confined limits—a result that follows naturally from the first statement; in large streams and lakes there is greater variety and abundance of food; but they will increase rapidly if well fed, no matter how restricted their dwelling-place. Frequently a trout kept in a spring will attain several pounds in weight in consequence of being well served by the children of the household. A gourmand will find his advantage in having them stall-fed, if possible, before being killed for the table.

Three-year old trout spawn, and it is said that small trout have smaller eggs than those of greater size and

invesunder ded to rance ieties. y was

Rivers
teem
on the
d into
overies
large
ear old
cutting

were

sh, and two or and a uppose undred verage narket figures

are to tsmen, ything astest; age, that the young of the latter are larger and grow faster than those of the former; but my observation has not convinced me that this is the case. The spawning season commences about the middle of October, and lasts nearly two months, some fish, like hens, laying and hatching earlier than others; a great convenience to the breeder, who is not hurried by their coming in all together. Of course, the young appear at different times, the first about the ninth of January and the last in March; they take about sixty days to hatch, according to the weather and water. When they first appear, the body of the egg, like a bag, adheres to the abdomen, and its absorption forms their support for thirty days, after which they must be fed with pieces of worm, of raw or cooked fish, and of raw or cooked meat grated or pounded fine or with boiled blood. They cat, also, small animalculæ in the spring-water, flies or insects that float upon its surface, and are especially fond of the microscopic animals in stagnant pools, and I should suppose of the minute worms generated in boiled flour allowed to turn sour. But contrary to the generally received opinion, I warn breeders to keep frogs from their trout ponds; as these live on the young fish. Although the trout may fancy frog's spawn, which is questionable, the latter more than return the compliment by preferring the young fish entire. My attention was particularly attracted to the fact that around the pond where the fry lived, the frogs were abundant, while there were none in the preserve of the big fish. I concluded they were afraid of the latter, till one day I caught and threw a frog to them, and found, much to my surprise, they would

not swallow him. Being some hundreds together, they struck at him as they would at a stick if thrown upon the water, but immediately dropped and let him escape to land. Although I tried the experiment over and over again, they had found out what he was, and now would not touch him.

nd grow

ation has

pawning

and lasts

nd hatch-

e to the

in all to-

ent times,

e last in

according

ppear, the

abdomen,

irty days,

worm, of

grated or

also, small

that float

the micro-

d suppose

ur allowed

v received

their trout

nough the

nable, the

preferring

articularly

ere the fry

re none in

hey were

rew a frog

ney would

To complete my enlightenment, I only wanted an experience which was destined soon to be furnished. I had an aquarium in which were kept, among a quantity of small minnows and other fish, a frog that had expanded from a tadpole, together with several tadpoles that were expanding rapidly. The frog had attained a

spectable size, and was a great favorite, from the readiness and suddenness with which he seized and devoured flies offered to him, and was endeared to our hearts by several hair-breadth escapes, such as jumping out of the aquarium and being lost for days round the room, and even falling out of the window, through the area grating into the cellar. He was wondrously solemn, but had a way of darting on a fly that was invariably fatal. We began to observe, however, that our small fish disappeared strangely, "leaving not a wreck behind," and always at a time when the frog seemed to have suddenly grown in circumference. This continued till my suspicions connected the two together, and one day we absolutely saw him seize and swallow a minnow half as long as his own body. His plan was to remain perfectly motionless till his destined prey swam near, when he would make one spring, and devour it at a gulp. In spite of his cannibal propensities, we kept him, although we could often see the shape of a fish under his extended sides, and our aquarium was nearly depopulated, till at last he swallowed one of his brother tadpoles, and our sense of justice constrained us to banish him to the

country.

The reason that the frogs collected round the breeding-pond was now perfectly apparent, and doubtless hundreds of fish paid for their presence. Give the fry something safer than frog spawn; they obtain so much from the water they need little extraneous food. The first thing, however, is to get the young trout to feed.

r

31

be T

su

at

In

ca

ro

di

op

ke

in

is

pa

po

WO

It may be well to remark that salmon and trout are the most difficult of all fish to breed; they require more care, and have to be watched closely in consequence of certain unfortunate habits. For instance, they will eat one another; a trout of twelve inches will dispose of one of six and think nothing of it, and this no matter how well he is fed. Perhaps he has been offended, but it rather seems to me an experiment to see how capacious his swallow is. When large and small are together, the latter, being the most active, are invariably first to seize the bait or food; no man ever caught at the first cast the largest trout out of a shoal. While the smaller ones are busy with the food, the larger seize them, sometimes even by mistake, I fancy, in making a rush at the same morsel, and if they are caught by the gills, good bye to them. After a struggle, they get ended round, and down they go head foremost, their tails often waving out of the destroyer's mouth for hours, a sad memento of their untimely fate. Fish of one year will devour those of the next, and a friend of mine lost

thousands by a yearling happening accidentally to get among the fry just hatched.

till at

d our

to the

breed-

btless

re the

obtain

aneous

g trout

out are

e more

nce of

vill eat

of one

er how

ed, but

e how

small

ve, are

n ever

shoal.

larger

cy, in

caught

e, they

t, their

hours,

ie year

ne lost

The ponds from which my experience is mostly drawn I have no part nor parcel in, further than what may be claimed from having furnished extensive advice; but I have taken a deep interest in their success, and if I speak of them as my ponds and my experiments, the party that really made them will understand and excuse me, and the public will comprehend that no egotism is intended.

They are five, and will soon be more, built of gravelly sand along a bank that is filled with pure, clear springs, and about five feet deep. In the first place, the muskrats are annoying, having in one instance tunnelled a dam and let out over a hundred breeders, and when the expense is not an object, it is well to put a fence of boards or even stone-work in the middle of the dam. These ponds all communicate with one another at the surface of the water by a sluiceway that can be closed at pleasure, and each can be drawn off dry separately. In that which might be called the highest, and communicates directly with the principal springs, are placed a row of boxes about twelve feet square and one foot deep, divided into compartments by divisions of wood, with openings cut to let the water circulate. The boxes are kept on a level by being supported on stout pegs driven into the sand, and are filled about half full of pure white gravel, leaving the water about four inches deep. There is an open passageway to the outside and through the partitions, whereby the fish can enter, and doors, composed mainly of wire, keep off leaves and twigs that would foul the water, but can be lifted at pleasure.

These boxes become more or less covered yearly with a green aquatic growth that is always found in spring water, and need a good scrubbing every Fall before they are used. The gravel need not be changed, and the water will carry off the sediment as the scrubbing liberates it.

The fish, however, do not confine themselves to these boxes, but spawn all over the pond in every little scour that the spring water makes; for as yet we have not tried extruding the eggs artificially, having attained sufficient success in the natural method.

The breeders, of which there are about three hundred. occupy two of the ponds, and the others are used for keeping the fish of the various years separate; at the age of two they are safe to be trusted and may be said to be of full age, and even in twelve months have learned a great deal about taking care of themselves. Some of the breeders weigh about a pound and a half, and anything less than six inches left among them would be devoured at once. They were originally taken on their spawning beds with a scap-net, but are now kept over from year to year, thriving well on minnow and meat, their principal food. In order to spawn, trout seek the narrow and shallow spring runs, where they can always be found in pairs, and, with a little skill, caught in a net or taken with the fly-for I utterly deny that they will not feed when spawning-and can be accumulated in that way from year to year till a large number is obtained. the small trout are in the breeding-pond, the large ones are rigidly excluded, but when they have been removed, by drawing off the water into the lower ponds,

with a spring re they and the g liber-

to these le scour ave not ed suffi-

undred, or keepe age of to be of l a great e breeding less l at once. eds with to year, pal food. shallow in pairs, with the ed when vay from While

ve been ir ponds, and the spawning season has arrived, the communication with the stew-pond is opened and the breeders let in. They do all their pairing, making their beds, spawning and milting of themselves without human help, and are allowed to remain till about the first of January, when the pond is isolated again and drawn off, so that they can be captured with a scap-net and returned to their former habitation. Care must be taken to handle them as little as possible, as handling rubs away their natural slime, and induces a sort of white fungus that will sometimes prove fatal. And you must give heed to your steps while netting the fish, lest you tread upon a spawning bed, which can be recognized by its being free from mud and leaves.

The fish, when they have determined the locality of their nest, clear away the sand and deposit the ova upon the clean pebbles, the male impregnating them at the same time. They will eat one another's spawn, and the male is ever on the watch to guard his wife from such an outrage. After the eggs have all been exuded, the parents fan the sand over, covering them entirely from sight. This is an important matter, which the artificial breeders omit, and the omission of which, doubtless, leads to the destruction of many eggs by fungus and sediment. In artificial breeding, I should strongly recommend that eggs covered with clean sand should be tested in comparison with those uncovered. A number of the eggs, after having thus been deposited, were removed and exposed uncovered to the water: they died in a few days and turned white.

The eggs when first exuded are a brilliant golden

orange, but when impregnated change to a pale, transparent yellow, with a small black spot in the centre, and on losing their vitality turn white. When one dies in artificial breeding, it communicates disease to the rest unless it is removed, but in the natural method the covering of sand isolates them and appears to prevent this. The water must flow steadily, and, if not sufficiently fresh and abundant, should be allowed to fall in little cascades, to give it life. As the operation proceeds, the change in the egg can be readily seen with the microscope, the cells of which it is composed clustering to one side. Any one curious on this subject is referred to Dr. Garlick's interesting little work on fish culture.

Every old fish having been carefully removed, the breeding-pond is refilled immediately, and the young, awkward, unwieldy little infants, soon make their appearance, and after their thirty days of self-sustenance are fed on worms cut in small pieces, on grated or pounded fish or meat cooked. Before Summer is over they are a few inches long, and are driven down into their new home by again drawing off the water of the breeding-pond

into the latter, and frightening them into it.

The number raised in this manner is perfectly surprising. From about one hundred breeders, male and female, we produced over seven thousand fish, the latter fact being determined not by guesswork but by actual count. An average of nearly one hundred and fifty young, in spite of frogs and accidents. One is apt to under-estimate instead of exaggerating the number by guessing; they are so small and lie so quiet that they almost escape observation.

ns-

ind

in

est

ovhis.

tly

ttle

the

croone

Dr.

the

ing,

ear-

fed

h or

few

ome ond

ris-

ale,

ing

An

pite

in-

are

ser-

The foregoing is all that it is necessary to do to raise fish in abundance; the main point is their protection, and this is effected by not allowing them to enter the open water till their second or even third season. more entertaining than to feed the full-grown fish, and enjoy their breaking at sticks and weeds in their eagerness and confusion; this they will often do one after another for twenty times. Their slow motions till they perceive the prey, and then the ferocity of their rushes, assimilates them to the dreaded salt water shark. With watchful eye they move cautiously about, but woe to the fly or minnow that touches the surface! A dozen rush at it and fling themselves into the air, turning suddenly on their sides by a flap of their tails, and disappear as instantly, one of them with the victim in his mouth.

The natural method of propagating fish, though abundantly successful, and so simple that there is no skill required to perform it, cannot be expected to equal the results effected by artificial fecundation. The latter, however, requires considerable care, and although a total failure is almost an impossibility, neglect will result in great loss. Each trout should produce several hundred young, and if a business is intended to be made of it, the artificial method must be pursued.

The first consideration, therefore, is to obtain a male and female fish, fully prepared to spawn. This is determined by the ease with which the eggs and milt can be pressed from them; for if it requires more than the lightest pressure, the spawn will not be mature, and the parent's life may be destroyed if the operation is persisted in. The only entire failure I ever heard of was effected in this manner, a friend succeeding in killing

several fish without raising one.

Where there can be made a convenient stew-pond, with a gravelly head-water or springy sides, there is no difficulty, as the fish may be taken at any time, and may be kept here till the proper season arrives. But it is said, though on questionable authority, if there are no appropriate spawning-beds at hand, the nature of the fish changes, and they either delay or cease spawning altogether. The roe is incased in a skin, the rupture of which will produce death till the time of maturity, when it is absorbed and the eggs lie free in the abdomen and can be readily extruded.

The female is taken in the hand when ready—and observe that fish as well as other animals will be gentle in proportion as they are handled gently—the abdomen is pressed carefully with the other hand, the eggs are forced out and allowed to fall into a basin or pail of pure fresh spring water. When all the spawn is deposited, it is as well to agitate it with a feather, and, if there is extraneous matter, to pour off and renew the water. The male fish is then taken and treated in the same way, the milt being allowed to fall into the same basin and brought into thorough contact with the eggs by the use of the feather again. The milt of one male will answer for the spawn of several females, and it is said that the milt will be renewed in the male in the course of a few days; but this, not corresponding at all wth the female, is at least doubtful. The reason of the superabundance of milt over the roe is a simple provision of nature to make

up for the quantity that must inevitably be washed away by the water, without coming in contact with the latter in the natural process.

was

ling

ond.

no

may it is

no

fish

oge-

nich

t is

can

and

ntle

nen

are

ure

, it

is

er.

ay,

ind

use

ver

the

ew

ig

 \mathbf{of}

ke

The impregnation of the eggs may be ascertained by their alteration in color, exchanging the orange for a yellow tinge, and by the presence of the black spots, as in the natural process; when it is thoroughly effected, the water is poured off and fresh supplied. Care should be taken to preserve the most perfect cleanliness; sediment is very destructive to the vitality of the embryos.

There are several modes of disposing the spawn, either in boxes, half full of white pebbles, with sides perforated with holes, or in wicker baskets, either with or without pebbles. It is nowhere recommended to cover the eggs with sand; but as the fish naturally pursues this course, and as great injury is produced by sediment and delicate aquatic plants, and as disease is communicated from one to another, I would decidedly advise that it should be given a trial, and the comparative results observed. It would certainly preserve the eggs from many of their principal dangers from water-bugs and insects, from dirt and infection, and can do no injury to the young fry, which, when hatched, readily make their way through it to the pure water.

These baskets or boxes are arranged in various ways, according to convenience, and will do well so long as a pure stream of spring water, about 32 to 35 degrees of temperature, flows through them, whether directly from the spring or intermediately through one another. By allowing a few inches' fall from one to another, the water is a crated and its vivifying powers increased. Care must

is

OV

pa

Th

the

rea

up

ing

ges

oth

sub

is (

nat

tho

The

and

imp

upo

freq

wit

egg

box

satu

the

if if

free

the

hate

faci

Y

be taken to remove the sediment, fungus and minute plants as they form, together with all eggs that turn white and die. The boxes should be covered with an open-work cover, either of lattice-work or wire, to keep out leaves. A large species of sieve, of galvanized wire, can be obtained at the stores, and answers well for this purpose, and also to make doors to the breeding-boxes and to be fitted over the outlets or communications between the breeding-ponds, to keep the fish separate.

The water should be four inches deep in the boxes, and its temperature affects the rapidity of development. A thorough examination should be made every few days, and if the sediment increases beyond control, the eggs may be bodily removed into a clean box. When the young appear they may be left in the boxes or allowed to escape into the pond at large, and will take care of themselves if there be no larger fish around; in the latter case expect to see them no more. If regularly fed, large numbers can be kept without trouble or danger in narrow accommodations until they attain a respectable size.

Since writing the above I have had an opportunity of examining Fry's excellent and thorough little work on fish-breeding, which, though principally a translation, exhausts the subject in its present stage, and contains all the requisite instruction. It is recommended to place the fecundated ova on willow hurdles suspended in boxes an inch or thereabout beneath the water, so that they could be conveniently removed and examined. An excellent substitute would probably be, what can be found universally throughout our country, a champagne basket. It

is asserted that the same water may be used over and over again if filtered, and that it may be allowed to pass from one box to another to an unlimited extent. That in case aquatic vegetation makes its appearance, the eggs can be transferred to a clean hurdle. The reader is solemnly warned against heaping up the eggs upon one another, a fault entirely inexcusable considering the small space they occupy, and a good food is suggested in the fecundated eggs and consequent young of other species.

The transportation of fish is one of the most important subjects that presents itself, and with full grown trout is one of the most difficult to effect. But the impregnated eggs can be carried with care for hundreds or thousands of miles with little loss and no inconvenience. The best and healthiest looking spawn must be selected, and if it can be left for a few days to mature after impregnation, so much the better; it may be deposited upon sand or the leaves of plants found in the waters it frequents, placed in a wooden or tin box, and covered with similar leaves or sand, upon which another layer of eggs and leaves or sand can be placed, and so on till the box is full, when it is dipped in water and thoroughly saturated. The lid is put on to prevent any motion of the contents, and it can be carried almost any distance if it is occasionally dipped in water at a low but not a freezing temperature. Upon arriving at its destination, the contents are poured out carefully, and the eggs hatched in the ordinary way.

Young trout a few months old can be transported with facility in water cooled with ice. For travelling by rail-

turn an keep vire, this

oxes be-

nent.
lays,
eggs
the
owed
re of
e lat-

er in table ty of

k on tion, s all place oxes ould llent

iver-It road, the most convenient plan is to have round zinc cans of about two feet and a half diameter and three feet in depth, with the top projecting over on the inside, pierced with minute holes, and carried down into the water for a short distance, leaving a place in the centre of six inches diameter, where the ice can be kept without danger of injuring the fish. On the upper edge of one side, there is a small door through which the fish can be poured. By continually renewing the ice, yearlings may be transported without difficulty, fifty or more in a can. It is supposed the cold reduces their respiration, or possibly the dissolving ice communicates air to the water. Trout of half a pound or over cannot be carried more than a score or even a dozen together, or they will die in spite of the greatest care in a few hours.

1

0

iı

0

fa

m

tl

aı

ar

b€

re

at

tre

be

em

ex

wh

be

the

the

bre

5

The cans have handles to which ropes are fastened by broad hooks, and may be suspended from the beams of the baggage cars, where they sway slowly forward and back, and do not shake and jolt out the water as they

otherwise would.

It may be well to remark, for the benefit of those desiring to stock trout ponds, that Mr. Aaron S. Vail, of Smithtown, Long Island, has devoted his attention to the artificial culture of trout; that he has been very successful and is willing to stock ponds with any number of young trout at reasonable rates, and has generally quite a number of both young and old fish on hand. I believe he charges for young trout of one or two months seven dollars a hundred, but for larger fish of one year or more he expects five or six dollars a dozen; his expenses of travel to be paid, but the fish to be charged for as deliv-

ered alive and healthy at the place of destination. For more accurate information it would be better to communicate with him direct, and his breeding apparatus is well worth a visit.

cans

t in

rced

for six

dan-

side.

ı be

may

can.

ossi-

ater.

more

l die

ed by

ms of

and

they

those

il, of to the

suc-

er of

quite

elieve

seven

more

es of

leliv.

Besides the trout and salmon the only other fresh water fish worth breeding is probably the black bass. There are many localities where the water is too warm or quiet for trout, which demand cold and rapid currents flowing from fresh springs. The black bass will thrive in almost any clear pond with a pebbly or sandy beach on which they can deposit their ova. Like all the perch family, they spawn in April and May, and hatch in a much shorter time than trout, or in about two weeks; they build their nests in the sand, and extrude the milt and roe by pressing upon or between roots and stones, and either cover or leave exposed their eggs. They may be treated in the same manner as trout, but do not require the running water nor one half the care and attention. Their increase is still more rapid.

Undoubtedly the mascallonge could be acclimated and treated in the same manner, and the striped bass might be introduced into and confined to the fresh water with eminent advantage.

There is also an opportunity for novel and interesting experiments in the crossing of various species, upon which there is little definitely known except that it can be done. The spawn of trout has been impregnated with the milt of salmon and has produced young, but what the young were, and whether they were capable of breeding among themselves, is not settled.

Salmon give a much greater quantity of eggs than the

trout, estimated at over 10,000 in a medium sized fish. The young, called usually pinks, remain in the fresh water one year after hatching, when they are termed smolts, and descend to the sea, returning in a few months, generally about the middle of June, weighing from one to ten pounds, and are then called grilse. After they have spawned as grilse and again returned to the sea, they are termed salmon. They grow with astonishing rapidity in salt water, a large fish doubling his weight in a little over a month, until a certain size is attained, when their growth almost ceases. Smolts rise readily at the fly, and may be mistaken for trout, which they somewhat resemble. I have taken great numbers of them when fishing for trout in Canada, and was at first somewhat at a loss to tell what they were. Of course I relieved them carefully of the hook, and returned them to their native element.

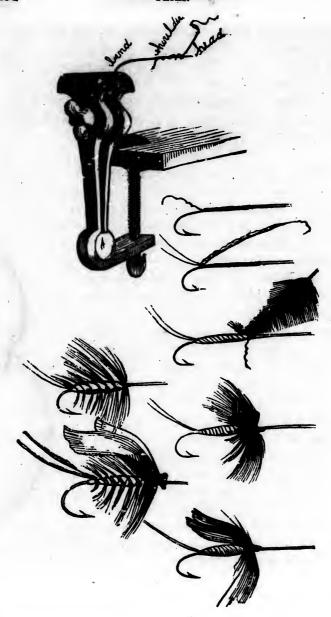
Salmon spawn in pools, on rough, gravelly beds, composed of small stones about the size of a walnut, and according to some accounts, require several days to deposit all the roe and milt. They should be taken by the net when engaged in this operation, and treated in the same manner as trout, or placed in a tub where they can be held by head and tail, and the spawn expressed without injury. This course may be pursued with all fish whose weight would render them unmanageable out of water, but will not generally be found necessary. They spawn in November or December, hatch in March or April, and next March or April descend to the ocean. In other particulars they do not differ materially from trout, and the rules for the propagation of the latter will apply

fish.
fresh
med
nths,
n one
they
sea,
shing
eight
ined,
ly at
omethem

comd acposit
e net
same
held
thout
vhose
vater,
pawn

, and other, and apply

omerse I them equally well to them. They remain in the fresh water during the Winter, descend to the sea early in the Spring, and return in June. They invariably return to the river where they have bred, and in the course of their ascent will overcome powerful rapids and considerable falls. For a more full account of their habits, the reader is referred to the appropriate title.



CHAPTER XXVII.

FLIES AND KNOTS.

Ir is generally considered that fly-making cannot be taught by written instruction, but this depends somewhat on the intelligence of the scholar, who must not undertake to conceive the result before he has waxed his thread, but should be content to follow the directions word by word. At all events there is something that the experienced, and an immense deal that the partially instructed beginner may add to his store of knowledge, and if the following directions will not make a novice perfect, they may aid him when he has had a few personal lessons. To tie a fly, the gut should be singed in a candle or bitten at one end, and the hook and thread waxed to insure the hook's not coming off, which, when a fine fish has it in his mouth, is a heart-rending casualty. Take a few turns with the thread on the shank of the bare hook, nearly to the head, then applying the gut, whip it firmly on by working back to the bend; under the last turns at the bend insert whisks for the tail dubbing, floss or herl for the body, and tinsel if desired. The floss, silk and dubbing are generally spun or twisted in with the thread, and then wound back toward the shoulder, but they may be wound on before, with, or after the thread. Care must be taken that the turns

at the bend be firm, and when the material is carried back, the body is finished with a couple of turns of the silk, a hackle is then introduced under them and firmly ly secured. Wind the hackle round the hook at the place where it is inserted, and when it is sufficiently thick, and the fibres which constitute the legs stand out well, tie it down. Prepare your wings by stripping off the requisite number of fibres, and tie them on, either single or divided, and finish off. To make a buzz-fly, that is, one with the hackles the whole length of the body instead of only at the shoulder, insert a hackle at the bend at the same time with the body and tail, and twist it round the body after that is put on, and fasten it at the shoulder. The wings are sometimes laid on pointing up the shank, and afterward bent down and brought in their places. And thus, if any one desires, he may make a fly.

Few people in this stage of civilization dress their own trout flies, and although skill in the art will enable you to make a better selection in your purchases, it is rarely useful at the riverside. The better plan is to have a great variety, keep them safe from moths by the use of a linen bag, and fish often enough to prevent the gut's decaying. I have flies that have been in my possession for fifteen years, and yet seem to be as good as ever. You would require a knapsack to keep all the articles requisite to dress every fly, and would waste half your day in the operation. Nor is it yet settled that by imitating the natural insect you gain any advantage; one half the most skillful fishermen assert that the fly, as for instance, the scarlet ibis, need resemble nothing on earth, or in the

waters under the earth, and that the sharp-sighted fish are never deceived by thinking ours the natural insect, but take him for some new and undescribed species. As for myself, to use the quaint language of the editor of the "Knickerbocker," "sometimes I think so, and then again I don't, but mostly I do." On certain occasions it would seem that the closer the imitation the better, on others the less the similarity the greater the success. Upon this question my friends stand like the hackle on a well-dressed fly, "every which way." At any rate, it is no time to be dubbing when you ought to be fishing, and if you cast a long line and a light fly and the fish will not rise, you may be sure they will not.

r

e

ιt

d

t-

ıt

y

n

u

y

at

n

n

 \mathbf{d}

þ

e

е

The various flies that appear upon the surface of the numerous and varying waters of our country, from the borders of Mexico to the confines of Labrador, would furnish the subject for an instructive and interesting work.

The natural flies, whether hatched from the caddis at the bottom of the streams, or from the burrows in the ground, or the knots on the limbs, or the cocoons amid the leaves of trees, are more numerous than those of any European country. As a class, they are larger, the ephemeræ especially, and although often found to be similar in general appearance, furnish many species unknown there. They have never been properly described and classified, and no satisfactory work has been written, at all thorough and reliable, in which an attempt is made to record their nature and habits.

Many of them do not return every year, but seem to require several seasons to mature, and the earliest fly of one season may not be that of another. Every observant

fisherman has noticed flies at one time that he may not see again for a long period, and has found his imitations of them perfectly useless.

The first tree that puts forth leaves in the spring is the maple, and its buds are a bright scarlet. As they drop into and are swept along the surface of the water by the wind, the fish seize them, no doubt either decoyed by their appearance or attracted by insects that may be concealed upon or within them. The scarlet ibis resembles these buds nearer than any other known thing, and is probably mistaken by the fish for them.

When commencing this work, it had been my intention not only to describe the artificial flies in general request, but to give the habits, periods and names of the natural ones of which they were imitations, without which latter information the former would have been far from complete. But the obstacles in my way were so numerous, the confusion existing as to names, localities, and times of appearance was so utter, the difficulty of finding any satisfactory work on the natural insects so great, that I was almost in despair; on the point, however, of making the attempt, rash as it appeared, I was informed that the matter had been undertaken by a friend of mine, who is every way equal to the task. Although much relieved, there was still something to be done to give a general idea of the flies in use with us. On this subject, the only work existing of any value is the supplement to Frank Forester's "Fish and Fishing," written by a gentleman who is a thorough sportsman, and alongside of whom I have often had the pleasure of casting the fly. The directions in the body of that work itself,

like write auth ang the

between paramature reason gaudalone Prover migrathe fit a favorounce some

water filmy, along never repres althous same should have l

with

cipal

The

like many other parts of it, are copied from the English writers, and in our waters are utterly valueless. The author, although a splendid sportsman, was not as an angler acquainted with our trout streams and ponds, and the contributor of the supplement judged rather too exclusively from his experience on Long Island.

ot ns

he

op he

by

n-

les

is

en-

ral the

out

far

SO

ies,

of

80

ow-

was

end ngh

to this

up-

ten

nging

self,

The first and most striking difference to be observed between the systems of the two countries is in the comparative size of the flies, those of America, following the natural insect, being larger, and, probably for a similar reason, gaudier. It is a remarkable fact that the most gaudy of all, the scarlet ibis, is prominently successful alone in the streams of Long Island and of the British Provinces. As many of the Long Island trout yearly migrate to the sea, in which peculiarity they resemble the fish of the latter place, it may be that this fly is only a favorite with sea-going fish. A little tinsel wound round the body is supposed to improve its efficiency, as some fishermen suggest from a resemblance to the principal Winter food of the trout, the salt water minnow.

The earliest fly on the Long Island ponds is a dark water fly, with a brownish red body and legs, and black, filmy, transparent wings. It is rather large, is wafted along upon and occasionally rises from the water, and never appears in any considerable numbers. It is usually represented by the English or female cow-dung, which, although not similar in coloring, presents somewhat the same general appearance. The wings, being transparent, should not be imitated with a black feather, although I have had great success when these flies were on the water with a fly that had black wings and a claret body and

legs. The orange dun, with a body tinged with brown, would be a good imitation.

The next natural fly, which is smaller than the last, is of a greenish yellow, and is also caricatured by the cowdung. But it is decidedly recommended to make a more faithful copy, which the writer has done with eminent success. In speaking of this matter, it is important to add that the midges, such as the black gnat and others, are out earlier, and it is to the larger flies alone that reference is made. The earliest of the species mentioned appears in ordinary seasons about the first of March, and the next about a week later. At this period, and at all periods, of a bright day a large black gnat with black hackle, black or dark blue body, silver tinsel at the tail, and dark wings, is usually successful.

Shortly after the greenish fly, come many others, appearing almost together, and among them the cowdung and the yellow sally, the latter occasionally fairly covering the water. About this time the professor an swers well, although I have never discovered its prototype, if it has any, and shortly afterward an unimitated brown fly, together with the blue blow and cinnamon, and in warm weather innumerable others. In the latter part of April and early part of May, the bushes and streams are alive with the gay little beauties, of every color, size and shape, and the fish make them their principal food. But the waters are growing clear, the deception is becoming apparent to the fish's eye, and the insects, though in reality larger, must have more delicate substitutes. At such times a small red bodied fly, with dun wings, has proved extremely killing, and although large, white,

go. are is l

the the wa ed wit gre legs whi low ning till crue latte ante win late ard mor a th and done succ ter i

although bodi

rown,

ast, is cowmore minent ant to others, as that ationed ch, and at all

ı black

he tail,

others, ne cowy fairly ssor an s protomitated on, and ter part streams lor, size al food. becomough in

es. At

igs, has

white,

gelatinous ephemeræ swim upon the water, the midges are on quiet days the most successful; and when the sky is bright, subdued colors are in principal demand.

In June there are prominent, among many others, the black fly, with body, wings, legs and antennæ all of the same sable hue, busy the entire day dancing over the water a veritable dance of death, for it is often terminated by the fatal rush of the watchful trout; a dun fly, with greyish dun mottled wings, grey legs, and light green body; another fly with similar wings, but red legs, and a rich brown body-none of these having any whisks in their tails; another beautiful and delicate yellow fly, that appears generally in the morning and evening, and flies heavily and slowly from place to place, till it falls suddenly, and is forever submerged in the cruel waters. Its legs, body and wings are yellow, the latter being the palest, and it has two short whisks and antennæ of the same color. All the foregoing have four wings, in the black and yellow varieties strongly reticulated, and all but the last swim well under water. - Toward night a frail whitish fly makes its appearance still more fragile than its yellow compeer; it has two wings, a thick body and long whisks. The eyes of the yellow and white fly are black spots, and although I never have done much with a white fly, a small yellowish drake was successful when the yellow flies were abundant. A better imitation however could be made of pure yellow.

On one occasion I was struck with the fact that although I did not know these insects were on the water, my only successful flies were a yellowish fly, a green-bodied, dun winged fly, and a similar fly with a brown

body, and I hit on them accidentally after trying a great

variety.

Hackles, in our Long. Island ponds, are, by universal testimony, a failure, and the palmers worthless; and throughout the breadth and length of our country, the winged flies are vastly preferable. The hackles and palmers are intended to represent the caterpillars, which our fish very sensibly ignore alongside of the innumerable beautiful, delicate and gaudy flies, and which under no circumstances are found except in the fresh-water brooks. Through all the early Spring, the stomachs of the trout will be found filled with the shells of the caddis, and these, if they could be obtained, would doubtless be a killing bait. Fortunately they cannot be, and are not to my knowledge used here at all.

In our mountain streams the fish are generally extremely numerous, though small, and will eagerly seize any fly presented to them, vying with one another to be first. The following is a good assortment, and will, in addition to those already mentioned, be sufficient for all waters: The alder-fly, English partridge hackle, hackles of all colors, red and black ants, the devil-fly with a yellow body, the tail of one red and one black whisk, black hackles and red and black wings, dark mackerel, red spinner, English blue jay, fern-fly, orange dun, the camlets of various colors, grey, dun and black midges, the coachman, the stone-fly, the May-flies, millers for night-work, the sand-fly, the various other duns, the turkey brown, and a large light grey fly.

As each maker employs different colors and feathers for the same fly, these descriptions are rather indefinite; great

versal; and y, the s and which umerunder-water machs of the

would

not be.

nerally eagerly nother id will, ent for hackle, evil-fly

black
, dark
orange
black
y-flies,
other

athers finite; but by taking a number of various shades, you can readily select the most effective. The well-known flies should be dressed after Ronalds as far as practicable. It is to be regretted that there is not more uniformity and pride in, or practical acquaintance with, the subject among our principal tackle-makers. With the English makers it has always been an especial care that their flies should be dressed well and with uniformity; but here, anything that can be palmed off on an ignorant or indulgent public, or a barbarous country trade, is all that is desired. It is better always to send a pattern, with instructions to copy it precisely, and that no originality of variation will be permitted. Then, and then only, can you obtain what you wish. So much for trout-flies.

To make a salmon-fly, the following additional directions, most of which apply equally to carefully made trout-flies, will be found convenient. Tie on the gut as before directed; upon reaching the bend, fasten the spring pliers on to the thread, and do not take them off till the fly is finished. Take two turns with the silk over a strip of tinsel, pass the latter several times round the hook to form the tag, fasten it with the silk and cut it off; introduce the floss for the tip, take several turns evenly, tie it down and cut off the end; introduce the tail and then a piece of herl, wind the herl at the root of the tail and fasten it; take in a new piece of tinsel and a hackle by rubbing back all the fibres but a few at the point; leave both pointing from the head. Take a small piece of mohair between your fingers, break it over and over again into small pieces, lengthen it out and twist it round the silk toward the left, as otherwise it will

unlay in winding; wind the silk and mohair together round the shank to the shoulder, leave a space of bare hook sufficient for the wings. Wind in loose coils first the tinsel and then the hackle, and fasten both at the shoulder. Strip two wings from feathers that have been taken from the opposite sides of the bird, place them together, hold them firmly on the hook with the left forefinger and thumb, and fasten them securely. Cut off the ends, insert a piece of herl, wind it over the head and tie it down. Lay the end of the silk back down the shank, and take three turns with the other part over silk, hook and gut; pass the gut end through the loop three times and draw the silk tight. Two turns of silk should hold the different parts during the entire operation, and a couple of half hitches under the wings at the shoulders are sometimes used to fasten off. The feathers should be mated to make neat wings, and if they are laid right side out they will close round the hook; if otherwise, they will stand out. Do not fail to varnish at the head with wood varnish, or some other kind that will dry rapidly. The hackle may be introduced at the shoulder. Where herl or floss is used for the body, it is wound on separately from the tying silk, which is sometimes passed in loose coils afterward. A second hackle of a different color, or a feather wound like a hackle, may be introduced after the first, or after the wings and before the head is finished, and is called the legs. The wings must be tied above the dubbing on the hook, or they are liable to turn, especially where floss silk is used for the body.

tl

m

he

ha

sli,

bo

sai

fea

bri

gol

bod

bod

gre

The following is a list of Canadian salmon flies, copied

from the work on Salmon Fishing in the Provinces, edited by Colonel Alexander, supposed to be by Dr. Adamson, with two of my own added; the latter having been furnished by a friend of extended experience, are warranted excellent:

er

re

ils

at

ve

ho

ly.

the

ack

her

ugh

irns tire

ings The

d if

the

ther ntro-

l for silk,

A

bund

after alled

g on

here

pried

No. 1. Louise.—An extremely beautiful fly, having wings composed of the golden pheasant's top-knot, breast feather and tail, with sprigs from the green parrot, blue macaw and kingfisher; the body is of fiery blown mohair, with gold twist; the head of orange mohair; the tail, a single feather from the golden pheasant's top-knot; reddish-brown hackle and jay legs.

No. 2. EDWIN.—A much simpler fly and often equally efficacious among the fins, the wings being composed of the golden pheasant's tail feather with a dash of yellow macaw; the body, yellow mohair; ribs, of black silk; head, black mohair; tail, golden pheasant's top-knot; hackle, yellow; and scarlet silk tip.

No. 3. Forsyth.—Wings of the yellow macaw, with a slight dash of mallard wings at each side; yellow mohair body, with black ribs; head, black; tail, golden pheasant's top-knot; hackle, yellow, with light blue silk tip.

No. 4. Stephens.—Wings of golden pheasant's breast feather, with slight mixture of mallard; body of reddish brick-colored silk, gold twist; head, black ostrich; tail, golden pheasant's top-knot; hackle, red, to match the body; tip, blue silk.

No. 5. Ross.—Wings of mallard and peacock's herl; body, cinnamon-colored silk, gold twist; no head; tail, green parrot; red and black hackles and black tip.

No. 6. THE PARSON.—This is a beautiful and efficient

fly. The wings are mixed, and very similar to those of No. 1, but have a slight mixture of wood duck in them; the body is of very dark claret silk, with gold twist; head, black ostrich; tail, golden pheasant's top-knot; hackle dark claret; legs, blue, with a tip of yellow and gold.

No. 7. STRACHAN.—Mixed wings, chiefly of golden pheasant's tail, yellow macaw and jay's wing; body of crimson silk with gold twist; head, black ostrieh; tail, golden pheasant; black hackle, with jay's wing legs; tip,

yellow and gold.

No. 8. Langevin.—Wings, body, tail, hackle, legs, tip all yellow, made of the dyed feathers of the white goose; the head of black ostrich, and the twist of black silk.

No. 9. Whiteher.—Mixed wings, of mallard and hooded merganser, the latter being like the teal wing, only more of a yellowish green, or the tail of the golden pheasant may be used; head, black ostrich herl; black hackle and black mohair body, with a thin rib of silver; tip, yellow silk; and tail from the top-knot of the golden pheasant.

No. 10. GREY FLY.—Mixed wings, of mallard, turkey, golden pheasant's neck and top-knot, and sprigs of blue macaw; head of black ostrich heel; legs, carmine; grey hackle; body of a grey mohair, with silver ribs, and tip of silver and deep orange silk; tail, mixed grey mallard and tail of the golden pheasant.

It will be observed that the foregoing are not imitations of any natural insect, but merely fanciful combinations of beautiful colors. The more harmonious the tints the finer the effect. Some of them are gay flies, gaudier in da

ost

b

0

W

go

leg of san osti

end

thir

spri hacl blue tag

N

sant head than I should recommend; modest colors suit the salmon as they do the ladies of our country. For the rivers of New Brunswick more particularly, I would add the following, requesting the reader to bear in mind that larger and more brilliant flies are permitted among the rougher waters and heavier fish of the Canadas.

No. 11. Nicholson.—Wings mallard with sprigs of blue macaw; body, blood-red mohair, head of black ostrich-herl; hackles, one blood red and one dark blue wound on together; gold ribs and tip; tail, mallard and golden pheasant neck. This is one of the best flies ever cast on the Miramichi or Nipisiquit, and is simple and inexpensive.

No. 12. Chamberlain.—Turkey wing, the lighter and darker fibres mixed, or turkey and mallard; head, black ostrich herl; orange mohair body and hackle, yellow legs, silver or gold ribs and tip and black silk twist; tail of golden pheasant top-knot.

No 13. Darling.—Wings of turkey and golden pheasant neck feather and sprigs of blue macaw; head, black ostrich; hackles, black along the stem, but with reddish ends; tip, orange silk; tail, golden pheasant top-knot; thin gold ribs and tag and black mohair body.

No. 14. Major.—Wings of mallard and turkey with sprigs of blue macaw; head, claret herl; light red hackle, and orange legs; body, deep purple mohair; tip, blue silk: tail, golden pheasant neck feathers; ribs and tag gold tinsel.

No. 15. Captain.—Wings of turkey and golden pheasant tail and neck feathers and sprigs of blue macaw; head claret herl; red hackle; body, claret mohair; tip,

y of tail, ; tip,

of

nı ; ist ;

ot;

and

lden

s, tip oose; .k. and

wing, olden black ilver; olden

, turigs of mine; s, and mal-

imitanbinae tints udier orange silk; silver tag, gold ribs, and tail of golden

plieasant top-knot.

No. 16. Cariboo.—Wings of turkey and mallard with sprigs of macaw, and a few fibres from the golden pheasant's neck; head of black ostrich herl; claret legs; grey hackle; body of grey cariboo hair or mohair; lower part of tip golden yellow silk, and upper part black silk; tail, golden pheasant top-knot, and gold tag. This fly, with various modifications, is extensively used by the resident fishermen of Fredericton.

No. 17. Emmer.—No head; wings of black and golden pheasant neck feather with sprigs of macaw; body, black mohair; black hackle; gold tip and twist; a turn of black herl taken just above the tail, which is golden pheasant crest.

No. 18. Lillie.—Wings and tail dark grey turkey; body, mohair of the same dull color; yellow silk tip; red hackle, and no head. This is almost identical with the stone fly, and approximates in color to the natural

fly, and is generally dressed on a small hook.

There is no limit to the list of salmon flies that might be given; artistic beauty is a great point to be gained, but further than that nothing is positively ascertained on the subject. I was once visiting a well known salmon river with fifty dozen flies loaned to me by an excellent angler who was one of the oldest habitués of the stream. Another excellent fisherman looked over my books with an unapproving air, and after my return told me that he was surprised I had taken any fish at all, for my flies were totally unsuited to the river. It is, however, generally conceded that different waters require different

to sh

fi

0

flic ord tin and firs

Thi of Occove hea fast and

wh

intr bod vari rend flies, and those in vogue in Canada are much gayer than those of New Brunswick. In Great Britain it was once the custom, as it still is in Wales, to use sombre colors; in England and Ireland the gayest are now the rage; perhaps it will be the same here, and in the end we may find that handsome, gaudy feathers answer best.

The turkey wing is of various colors, but where no other specific direction is given, the common mixture of black and brown is intended. Some sportsmen pretend to assimilate their flies to the sand-lance, others to the shrimp; as the salmon obtain neither in fresh water, there is little to choose between the plans.

As will be seen, therefore, from the foregoing, salmon flies are much more complicated than trout flies, and require more skill in their manufacture. The wings are ordinarily made of numerous fibres, frequently of distinct feathers, which are fastened separately upon one another, and usually called toppings. The hook is often first tied securely with thick silk and then varnished, while a small loop instead of a length of gut is used. This is allowed to dry, and finer silk, usually the color of the intended fly, is employed to tie the feathers. Occasional fastenings may be made by taking a hitch over the whole, and varnish is applied, especially at the head and tail. After the hook is tied on, the silk is made fast at the bend, where the tinsel, the whisks, the body and the hackle are inserted; the latter may, however, be introduced after several turns have been taken with the body, and the body may be divided into sections of various colors, in a manner that the least practice will render easy.

lden

with chealegs; ower silk; s fly,

v the

olden black irn of golden

nrkey; k tip; al with natural

might gained, rtained salmon cellent stream. ks with he that ny flies; geneifferent

It is no small matter to give a list of the requisite flymaking materials, but the following are a few of the most important:

Silk of various colors, wax, nippers, scissors, a bench vice, picker, spring pliers, varnish, hooks and gut, tinsel of gold and silver, twisted and plain; hackles of all colors, feathers of the mallard, teal, woodcock, golden, silver and argus pheasants, turkey, macaws, curlew, ruffed grouse, ibis, blue-jay, black-bird, fresh water rail, guinea fowl, common chicken, and any and all other birds that may come in the angler's way; dubbings of mohair, pig's hair, wool, seal's fur, rat's, mole's and squirrel's fur; floss silk of all colors, and peacock's and ostrich herl. Dyed feathers had better be purchased of the tackle makers, and should include blue, purple, orange, yellow, brown, green, crimson and scarlet hackles, and yellow wing feathers.

a

h

sp

it

th

tra

of

is

do

pa

ser

in

tai

me

the

fly

fine

tha

There is a Limerick hook now made with the shank turned over so as to form a loop into which the gut is inserted and the trouble of tying the gut is avoided. They have come into general use among the Irish and Scotch fishermen, and are a great aid to the man that ties his own flies. The gut in ordinary fly fishing wears out just above the hook, a difficulty that is entirely removed by this improvement, and it is by no means so ugly or ungainly as might be supposed. This is no new discovery, but has been practised with common American hooks for a considerable period, and might be advantageously used in many kinds of fishing, and applied to all hooks.

Hooks are numbered in the most singular manner, no

two makers agreeing, and some indulging in remarkable eccentricities. But as Limerick hooks are generally used for fly-making, the numbers 2, 1, 1½, 0 and ½ will include all that is requisite. No. 1½ is my favorite for ordinary purposes, but a few ¾ may be desirable in heavy water, with an occasional monster for foaming rapids.

The charges for dressing trout flies in this country are exorbitant, whereas in England they can be purchased of the best makers at from seventy-five cents to a dollar and a half per dozen; we are charged from a dollar and a half to three dollars, and generally furnished an inferior article. There is an abominable article of wholesale traffic sold for fifty cents a dozen, that is beneath any sportsman's notice. I have imported a great many, but it is a troublesome operation, and the best way is to bear the imposition meekly.

The English and Irish salmon flies are, on the contrary, expensive; a great deal-of the neck and top-knot of the golden pheasant and of the wings of the blue-jay is employed, birds which cost from ten to twenty-five dollars a piece, and which only furnish twenty to thirty pairs of each kind of feathers. The use, therefore, of several long crest and neck feathers at fifty cents a pair in the wing, and five or six from the top-knot for the tail, besides other expensive materials and the employ ment of the best workmanship, will make a fly dear at the original cost. Blacker, the great English rod and fly maker, has been paid two guineas apiece for his finest. The reader may console himself by remembering that salmon were taken with the fly before the golden

flythe

ench
insel
f all
lden,
rlew,
rail,
other
gs of

and ed of urple, ckles,

squir-

shank
gut is
oided.
h and
n that
wears
atirely
ans so
o new
meri-

er, no

ht be

id ap-

pheasant was heard of as one of the indispensable ingredients. A little practice will enable the angler to make flies himself, and add to his sport the consciousness of invention.

Except in that way, and except for salmon fishing, the sportsmen of our country have no time to waste tying flies. The regular shops charge a heavy profit over the amount paid the workman, and if the purchaser is capable of telling a good fly, the best plan is to go direct to the latter, explain what is wanted, and show an interest in the proceeding. A half dozen of each of the foregoing specimens, firmly fastened on strong, round, even gut, will last two months' daily salmon fishing in wellstocked streams. An average loss of four or five a day would be by no means surprising, although a single one might kill a great many fine fish. Hooks are apt to be broken at the bend by striking against a rock, from carelessness, or the awkward handling of too long a line. If you find a hook broken in that way, lay it primarily to this cause, and watch the sweep of your cast.

After the fly is made, tying it on to the leader and the leader to the line is an important matter, and as it is always desirable to put the right knot in the right place, the following directions may do something toward enabling one to effect that object, and after a little practice will be found entirely intelligible. The gut lengths of the droppers should be short, to prevent their fouling round the leader.

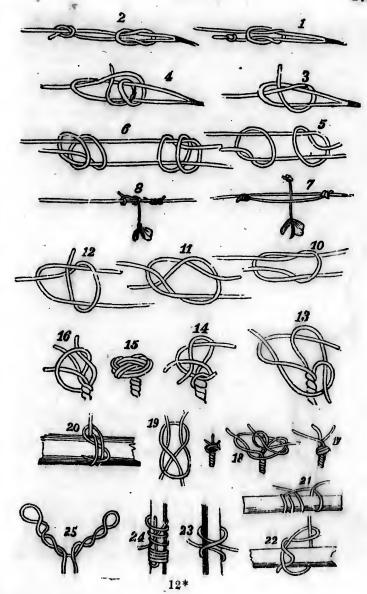
No. 1 and No. 2 are both good ties to fasten the leader to the line. No. 3 is a becket-hitch, and No. 4 a double becket-hitch. No. 5 is a single water knot.

the of the apat to erest core-

day one o be care-If ly to

d the
it is
lace,
enaetice
hs of
uling

o. 4 a knot.



No. 6 is a double water knot. The latter are used for tying lengths of gut together. But recollect that before a knot is made in gut it must be wet, and had better be soaked for some time in warm water. In using the double knot, the ends need not be whipped down. No. 7 shows how a dandy fastens his droppers to the leader. No. 8 shows how a lazy man does the same thing.

No. 10 is a reef, or square knot. No. 11 is a granny knot, and you had better not knot that knot as a reef knot at sea. The former never slips, and yet never jams; the latter always slips and always jams. No. 12 is a

bowline, the best knot of all.

No. 13 is a wall. No. 14, a wall and crown; follow the strands round with the ends, and it is a double wall and crown. No. 15, a Mathew Walker, is made by unlaying the strands a sufficient distance, and carrying one end underneath and through its own bight, then the next underneath through the bight of the first and its own bight, and then the third underneath through the bight of the first and second and then its own. No. 16 shows the first strand passed; No. 17 is the finished knot. A diamond knot, No. 18, is made by laying the strands back along the rope, then passing the first end over the second through the bight of the third, the second over the third and through the first, and so on drawing all tight. It may be crowned like a wall.

No. 19 is a sheet bend. No. 20, a studding sail bend. No. 21, a rolling hitch. No. 22, a timber hitch. No. 23, a clove hitch. A whipping is put on as shown by No. 24, by first passing the turns over one end, and then the

hε

other end under the last few turns, and drawing it close. No. 25 is called a cat's paw. These knots will probably be sufficient without adding the hangman's knot, with its seven professional turns, and a choice among them will often be found convenient, while a glance at the cut will refresh an imperfect recollection.

10

re

be

he

m.

he

me

my

 \mathbf{eef}

ms;

is a

llow

wall

by

ying

h the

d its

the

o. 16

shed

the

end

the

o on

bend.

0. 23,

0, 24,

h the

In tying flies or hooks, it is well to use varnish occasionally, in fact wherever it can be done without injuring the appearance of the colors; no fly will last well that has not been varnished. In making the wings of salmon flies, it is usual to put on numerous fibres, often of different feathers, and tie them on separately. This renders the wings more pliable, but destroys their beauty and harmony. A number of inconsistent colors will injure the effect of one another; the contrast between body and wings should be decided, and the unity and coherence of the latter should be preserved. If the tip of the feather is used and fastened by the stem, it will slip unless firmly secured. There is great difference in the adhesion of the fibres of different feathers, but a little practice will determine the selection.

Black bass flies are generally made with a red body, gold twist, and wings of ibis and white, or black and white, or peacock's herl and white; but a beautiful and effective fly is made as follows: wings, two plumes of the silver pheasant with two smaller ones of ibis over them; body, blood-red mohair; furnace hackle; blue floss tip; gold tag, and ibis tail.

In salmon fishing it is customary to use but one fly, as two sixteen-pound fish would be troublesome to handle; but occasionally a dropper is added at the

upper end of the casting line to attract their attention.

Three flies are sufficient for trout fishing, and are desirable, although frequently failing to hook the fish in consequence of lying on or close to the leader. This is in a measure prevented by short, stiff gut lengths, but when the rises are mainly at the upper flies, many will be missed.

In this connection it may be well to mention that coloring gut, especially for bright, transparent waters, is an error; remember the fish from below look at it against the sky, and will see it the plainer the more it is colored. The less distinguishable to the angler the more apparent it is to them. This can be proved without difficulty, by holding against the light two strands, one plain and the other colored. For salmon, it should, if single, be round and strong; for trout, fine and delicate.



CHAPTER - XXVIII.

n is

at ill

at

is

it

re

ler

bar

wo

on.

ine

INSECTS.

There is nothing more beautiful, wonderful and interesting than insect life; there is nothing that offers a wider field for examination or affords more gratifying results. Under the head of insects are classed, in popular language, all the minute animals; but only those having six legs and two antennæ, and which undergo one or more changes or metamorphoses should be included; most of them have wings, and their name is derived from the word *insecta*, divided, which is applied to the divisions or articulations of their bodies. The outer part of their body is slightly bony, and to it the muscles are attached.

Insects exist in myriads; whole families are still undescribed, and many species unknown. Even in the old countries new discoveries are made yearly, and in the New World it can hardly be said that anything is authenticated on the subject. Facts concerning the commonest are most remarkable. One class of white ants, like our southern fellow countrymen, makes slaves of a darker race. Many beautiful flies live only a few hours. The eyes of the common house fly are composed of numerous surfaces or lenses, and their life, habits and instincts are a study in themselves. Being so numerous

and so nearly allied, their classification is entirely imperfect, and like a similar attempt with any other part of animal life, a failure. Almost every scientific writer has invented a system of entomological distribution for himself, and their united efforts have produced endless confusion; the arrangement generally followed is that of Latreille, the father of modern entomology.

Insects are by him divided into two great divisions: those that live by chewing, mandibulata, and those that live by sucking, haustellata, whence the name applied to some of the human family. Of the former the beetles, coleoptera, are prominent, and among the latter the butterflies, lepidoptera. It is to be observed that the bees, although furnished with a sucking apparatus to collect honey, feed with mandibles, and are in the first class.

Latreille further divides the various groups as follows; and although English authors have made many changes, the alterations are of such doubtful utility that the original classification will be retained.

The first class is that of insects without wings, such as the thysanura, or those having a bushy tail, which are mandibulate. Parasites or lice, and fleas, both of which are suctional, the last having a metamorphose, but the first two not. All others have wings, but the second class includes those that have a hard covering or case, called an elytron, over their wings; the beetles, which have a horny wing cover and perfect metamorphose; the dermoptera, which have a horny wing cover but an imperfect metamorphose; the orthoptera, or straight-winged insects, their wings folding longitudinally, and having a

leathery cover-all of which are mandibulate; and the hemiptera, which have the wings half leathery and half membranous, and the mouth suctorial, and in both of the latter the metamorphose is imperfect. In the third class the wings are naked and alike; it includes the neuroptera, or nerve-winged insects, in which the veins of the wings are like a net; the hymenoptera, the wings being membranous, and veined lengthwise-both families being mandibulate; the lepidoptera, or scale-winged insects, having delicate scales on the wings-this order is suctorial, and the entire three orders have four wings; the rhipiptera, which are mandibulate and have two balances or halteres before the wings which close like a fan, whence their name is derived, and the diptera, which have two halteres behind the wings-in these families there are only two wings.

:

ιt

to

s,

10

ae

to

rst

8;

es,

gi.

as

re ch

ne

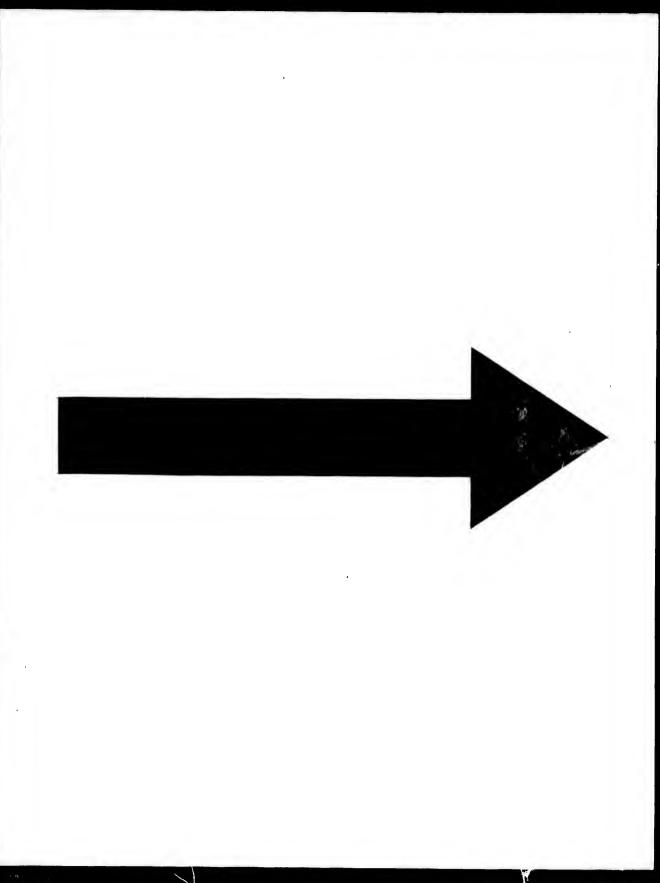
hd

e, ch

he

nd The orthoptera include, as familiar examples, cockroaches, crickets, katydids, and grasshoppers; the neuroptera white ants, May-flies, caddis-flies, dragon-flies or devil's darning needles, and hoodlbugs; the hymenoptera common ants, wasps and bees; the lepidoptera butter-flies, moths, silk-worms, and humming-birds; the hemiptera plant lice, cochineals, and locusts; the diptera mosquitoes, house-flies, horse-flies, and bot-flies.

The order homiptera is frequently divided into two, according as the wings are of a uniform texture, homoptera, or of a varied texture, heteroptera; the lepidoptera are divided into three classes—those that fly by day, and generally have the antennæ knobbed; those that fly in the twilight and have the antennæ thickened, and those that are nocturnal and have the antennæ slender. The



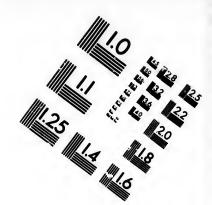
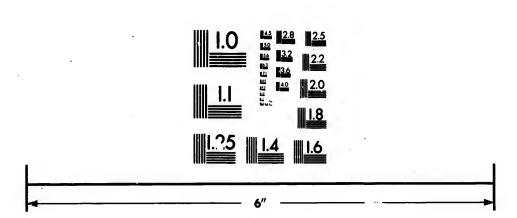
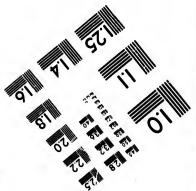


IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503





English writers have transposed the families grillides and locustides to suit the popular translation of the Scriptures, and have introduced a separate order called trichoptera.

As they are principally minute objects, wise men wisely concluded the deficiency should be made up in length of name, and but one class appears under the weight of less than four syllables. The families composing these orders are almost innumerable, and only those that are allied to the subject in hand can even be mentioned. Amateur entomologists prefer the coleoptera for their beauty and variety, and collections of insects are mainly composed of brilliant, gaudy and wondrous beetles, varying in size from the giant, as large as the pretty fist of one of the reader's little female acquaintances, to the pigmy that is hardly perceptible to the eye. is the beautiful and useful lady-bird, the wonderful lightning-bug, the elephant beetle with trunk and tusks, the hercules with stout heavy limbs, the palm weevil, whose disgusting grubs are eaten as delicacies by the deluded people of St. Domingo, and many other dangerous looking fellows with long sharp snouts that are really harmless, and innocent looking fellows that are really danger-The fly-fisher, however, relies for his pleasure mainly upon his imitations of the neuroptera and diptera, and not so much upon the coleoptera.

0

0

tl

in

ti

01

no

tii

in

fli

re

an

The young of the insect tribe, when it issues from the shell in the shape of a worm, is known as the larva, although the larvæ of some butterflies are called caterpillars, and of certain flies maggots. When the larva begins its metamorphose it is named a pupa or chrysalis.

and the covering with which it surrounds itself a pupacase or cocoon. It then undergoes a wonderful change, becoming the full-formed insect or imago—the ugly worm, that a short time previous had surrounded itself with a silken cocoon, bursting its case and flying off a gay, attractive and resplendent butterfly. From crawling meanly over the ground or the foliage, leaving a slimy streak behind, or horrible with a greenish smooth body and clinging feet, or disgusting with innumerable bristles, it soars away, its gay plumage glittering in the sunlight as it flits from flower to flower, the envy and admiration of the human female sex. How much is there not in beauty!

Many insects live for years as worms, and but a few hours in their perfect state. The *ephemeræ*, so called from appearing in the morning and dying before night, often do not reach half that age, although if the sexes are separated they will sometimes attain the great age of several weeks. They may be regarded as sacrificing their lives for the tender passion. They cover our waters in Summer, warmed into existence by the sun's rays, flitting in a graceful but inefficient way from place to place, or floating calmly upon the surface, dropping back into nonentity with the departing sunlight. They are sometimes, especially in the southern country, quite large, and include what among fishermen are known as the May flies.

0

в

е

In some classes the change from the larva is not so remarkable, the worm having much of the appearance, and many of the distinctive marks of the perfect fly, as for example the bee; in these the metamorphose is

said to be imperfect. The eyes of insects are either compound, composed of numerous lenses, amounting in certain butterflies to thirty thousand, or simple, called stemmata, the latter alone being found in the larvæ, although in some of the beetles the larvæ have eyes in the head and tail both. They are often long in maturing; one species of locust, as is well known, remains seventeen years before coming to perfection, and many other families continue several years as larvæ. Some of the larvæ live in the earth, some in wood, and others under water; some hide themselves in a cocoon ere their metamorphose is effected, others build houses of stones or sticks, others have no protection; but all are wonderful. One swims upon the water, another walks upon its surface, a third crawls along at the bottom, although the majority live upon dry land. In defence they use a sting, simulate death, eject a poisonous liquid, or emit an offensive smell. The eggs mature in the running or stagnant water, in the ground, in the limbs of trees, in the foliage and stems, or in the fruit. Grasshoppers in the East, grubs among savages, snails among Frenchmen, ants among Brazilians, locusts among prophets, and, if all reports are true, certain minute parasites among Italians, have furnished pleasing and nutritious food.

But of all the marvels of insect life, that which is least consonant with nature and least credible to human understanding, is the fact that they appear spontaneously. Why should a few drops of rain in a dusty road produce animalculæ never seen before? Why should a little permanent dirt originate two distinct parasites, according as

01

lo

W

pa

er

Th

lin

flie

pri

it accumulates on the head or body? Why should new insects year after year make a perpetually changing warfare against the farmer's crops in gradation with the exhaustion of the soil? Why should the Hessians bring the Hessian fly, or vice versa, as you please? And a great many other Whys which never have been and never will be answered till the "heavens shall be rolled up as a scroll."

r

ts

10

it

or

in

in

h-

ts,

es

นธ

st

an

y.

ce

er-

28

Insects feed voraciously on leaves, vegetables, fruit, on human blood—sad to relate—and fortunately on one another. Mosquitoes, thank Heaven, have parasites that cling to the delicate rings of their bodies, stinging the arch-stinger, and inflicting by their venomous bites the same agonies the sufferers inflict on others. It is to be hoped those gentlemen will increase and multiply, and after exterminating mosquitoes may pay their addresses to the black gnats. Certain families, especially of the coleoptera, emit a species of phosphorescent light in the dark, occasionally light enough to read by. The majority of insects have wings, but many have not, and in some only one gender is winged. A few kinds, such as the locusts, katydids, crickets, death-ticks, emit sounds, to which man's sympathies have added either a pleasant or painful association, and produce these peculiar cries generally by rubbing the wings or some part of the body. The wings of insects do not exceed four, and are often limited to two; their legs are six; some have antennæ or feelers, others long whisks from their tails.

The neuroptera, or net-winged insects, florfliegen, gauzeflies, as they are called by the Germans, include the principal pets of the fly-fisher. Their bodies are long, tapering and delicate; their wings, four, almost transparent and marked with net-like veins. They keep in continual motion for the purpose of catching smaller insects, on which they mainly feed, and generally deposit their eggs in the water, where the grubs live from one to two years on plants or other insects.

That most fearful looking, but really narmless and beneficent creature, the devil's darning-needle, or dragon-fly, libellula, is a remarkable specimen of this family. They are called demoiselles by the French, wasserjunfern, watervirgins by the Germans; but, in spite of these pretty appellations, are the tyrants of the surface of the ponds; they seize and tear to pieces all other insects, including butterflies and mosquitoes, and will clear a house of the common fly. They are cruel, rapacious and insatiable, and I do not know of their ever being used as bait for trout.

The phryganea, or water-moth, is one of the favorites of the fly-fisher. Its grubs surround themselves with a case formed of wood or grass, and are used by him as bait under the name of caddis-worms. They are the favorite food of the trout in early spring. But the ephemeridæ include most of the specimens imitated by the fisherman. The larvæ of these live in the water, for one or more years, and then, swimming to the surface, suddenly change into winged insects, delicate and beautiful. They sometimes appear in myriads, their dead bodies covering the water. A few make a second change after flying about for a time, and crawl out of their skins once more, leaving their old clothes, to all appearance perfect, sticking to a tree or fence. On their first appear

sta

the

on

ance they are said to be in the pseudimago state, and to them the name duns is applied by the fly-fisher; when they change to the imago or perfect fly, they are called piscatorially spinners. There are exceptions to this uniformity, as with the May-flies; the green drake is the pseudimago, and the grey drake the imago.

The phryganida and ephemerida are easily distinguished; in the former the wings lie close along the back, projecting beyond the body; the antennæ or' feelers are long, and there are no whisks; in the latter the wings stand upright from the body like a butterfly's, the antennæ are very short, and there are two, or occa-

sionally three, long delicate whisks.

y

3 5.

g

16

le,

or

es

8

as

he

he

bу

for

ce,

au-

ad

ge

ins

ace

ar-

The phryganida attach their eggs to the foliage overhanging the water, whence upon hatching the larvæ fall, and immediately proceed to construct, of twigs or gravel, miniature houses like a snail's shell, where they reside in peace and safety. These cases are lined with silk, spun from the insect's mouth, and are so light as not seriously to impede its swimming and rambling in search of food, and being open at both ends, allow him a view of the outside world. The larvæ live mainly on aquatic plants, and when the proper time arrives, they close the ends of their houses with a species of grating, and commence the dormant state of the pupa. In this they remain a few days, and then emerging from their case, they ascend to the surface, burst their skin, and fly away in their perfect state of beauty.

The ephemeridæ deposit their eggs in the water, where they soon hatch, and where the grub, which lives usually on clay or vegetabl; matter, resides, occasionally for several years, hiding under stones or in holes in the mud. It then becomes a pupa, and after accomplishing its time. rises to the surface, throws off its skin, and flies away, bearing the name of dun; it shortly alights on a tree or fence, and sheds its entire skin, withdrawing even its delicate wings and minute whisks from their previous covering. Its colors in the second stage are usually more brilliant, and under the name spinner it enjoys the pleasures of life, perpetuates its species and dies in a few hours. While laying its eggs, it will be noticed either resting on the water or floating up and down over it. Certain species can swim well under water, and I believe descend to the bottom to deposit their eggs. I have had numbers alight on my pants when I was wading a rapid stream, run down my legs to the bottom, crawl over the stones, and with a zig-zag motion swim against the current to the surface. Rocks are frequently seen darkened with flies, that on any sudden approach drop into the water and disappear.

The ephemeridæ include the blue dun, which becomes the red spinner in its final state; the marsh brown, which changes to the great red spinner; the turkey brown, that is transformed into the little dark spinner; the iron blue dun, that becomes the jenny spinner; the green and grey drakes, the July and August duns, and many others. The phryganidæ comprise the sand and cinnamon flics and the grannom or green-tail, besides many undescribed. Of the diptera, which are distinguished by having but two wings, we have the cowdung-fly, the golden dun midge, and the black gnat; of the beetles, the peacock and fern flic and marlow buzz; of the hymenoptera, the

ov tic stu

val led

ple

idle

mei

and hav

and

liari

pres their

n

m

red ant and orange-fly; and occasionally crickets and grasshoppers are imitated.

These are a few, and but a few, of the beautiful insects that sport around or upon our lovely lakes and streams; the advancing heat of Spring warms them into life; they burst forth, enchanting man with their beauty, and gaily pass a few days or hours, surrounded by innumerable dangers, which they seem never to heed. One kind succeeds another as the summer advances, usually the more gaudy during the greatest heat, till they crowd the ponds, the air, the bushes with indescribable brilliancy. I have seen, toward evening, yellow sallies appear in myriads, their dead bodies literally covering the water; and in the St. Lawrence rivers, dead eel-flies lie in such masses as to give the effect of sea-weed.

8

8

9

a-

W

er

it.

Ve

ad

pid

the

cur-

ned

the

mes

hich

that

blue

and

hers.

flics

bed.

but

dun

cock

, the

It is very desirable that fishermen should, for their own sakes as well as the sake of science, pay more attention to the habits and peculiarities of these insects. The study of nature in its minute productions is wonderful; the observations of individuals combined is of great value, and adds immensely to the general store of knowledge; something more would be effected than the mere pleasure of taking a large mess, and the reproach of idleness removed from our enjoyments. To be sure, the men of science, by the use of ridiculous foreign names and the confounding of a confused and worthless system, have done all they can to discourage such an undertaking and repel such aid; but every one can note the peculiarities that are heretofore mentioned, can even readily preserve a specimen and mark the times and manner of their appearance and the length of their duration, and though he may fail to obtain the scientific name, can determine the species and ascertain the habits of a few members of the most wonderful, intricate, and interesting portion of the creation.



ha an sta upo from his

of e provent Transfer Black concerning these of the hot p

the compa

CHAPTER XXIX.

CAMP LIFE.

One of the most important matters that demand the sportsman's attention, is the equipment he should take with him to make his life in the woods pleasant. He will have many annoyances and even hardships to encounter, and should be as well prepared to meet them as circumstances will permit. The following directions are founded upon the idea he intends to retire to the wilderness, far from the abode of man, where he will have to trust for his support to his own exertions, and although many of them may seem superfluous, and to the robust may savor of effeminacy, to those who desire real comfort they will prove acceptable.

The great pest of the wild woods is—not tigers nor panthers, not bears nor wolves, not even snakes—but something far smaller but infinitely more terrible—THE BLACK FLY! If it were possible for the uninitiated to conceive or the pen to describe the horrors conveyed in these words, I should endeavor to record them. Think of the rack, the boot, the thumb-screw, the wheel; think of being rent asunder by wild horses, or torn in bits with hot pincers; think of the tortures of the inquisition, or the cruel fanaticism of India, and smile; they do not compare with the black fly. When mosquitoes hover

round you day and night, when they fill the air you breathe and deafen your ears with their hum, when your hands, face and body are covered with itching lumps, it is hard to bear. But mosquitoes are comparatively quiet in the sun-light, and are partially affected by smoke; they can be influenced by a smudge, can be frightened off and sometimes killed; they do not compare with the sand-fly.

The latter, almost invisible to the naked eye, comes in absolute myriads; it settles upon every inch of exposed flesh; it creeps into every crevice; it cannot be frightened away, but must be brushed off; its worst attacks are at night, when tired nature is pining for a little rest; its bite does not itch, but burns like fire, till face, hands and neck feel as though they had been scalded. But the sand fly, bad as he is, can be persuaded out of your tent by a fire; he does not abound except in sandy localities; his bite does not draw blood, nor raise a lump, and is not permanent; he does not compare with the black fly.

n

a

a

hε

cli

fro

fec

to

abo

War

may

best

top

faste

face

inch

piece

The latter comes without a warning note; he bites till the blood runs in a stream, and inflicts the sharpest pain; he clings fast till he is absolutely rubbed off, and crawls up your sleeve or pants or down your neck; he loves not the fire, nor fears the smoke; he cannot be enticed nor driven away. The mosquito comes numerous as the rain-drops in a shower; the sand-fly as the motes in sunlight; but the black fly like the sand of the desert when the simoom is raging. Resignation can endure the first, stoicism the second, but nothing the last.

All three of these pests are found abundantly in the woods, and without being prepared for them, instead of

pleasure, the sportsman's trip would be one long torture. People have been known to be completely disfigured by their bites, and I have had my neck as thoroughly girdled as though it had been done with a hot iron. Their bite inflames the blood, and if accompanied with the free use of ardent spirits, may produce unpleasant consequences. Let no man through foolhardiness brave their attacks, thinking he can rough it and not give way before such pitiful insects; as brave and strong men as ever lived have had their pleasure destroyed by these curses of our country, and he will repent his rashness, if not in sack-cloth and ashes, in blood and misery. I have seen a hard-working man so worn out by their attacks as to fall fast asleep standing up leaning against a rock in a hot July sun, that by its excessive warmth had for the moment driven the torments away. He wore a veil, but not being properly arranged, the flies could climb up its folds, and it was little protection.

One may well ask how is it possible to defend oneself from such irrepressible villains; nor can it be done perfectly; with the best precautions there will be enough to try nerve and temper. Gauntlets of leather drawn above the wrists over the coat sleeve will, though rather warm, effectually protect the hand, and when oppressive, may be cooled by being dipped in water. A veil is the best thing for the face; a piece of elastic run round the top will enable you to slip it over your straw hat and fasten it above the brim, which will keep it out from the face; a spring wire or whalebone hoop sewed in a few inches below, will keep it off your nose, and another piece of elastic round the bottom will hold it tight around

; its s and t the r tent lities; is not

uo

ur , it

iet

ke;

the

s in

osed

ened

re at

pain;
rawls
loves
nticed
as the
n sunwhen

in the

first,

your cravat, so that the flies cannot make their way beneath it; or the latter may be omitted to enable you to wipe your face and rub off those stragglers that will find their way in, notwithstanding your precautions. There is a light substance called tissue, that makes a cool but delicate veil, and is preferable to the ordinary barege, and for mosquitoes and black flies, bobinet is still lighter, but sand-flies might pass the meshes.

n

b

p

no

de

50

ne

yo:

one

der

alw

you

rain sary

one thro

WOO

pins

to th

while

for v

Various ointments have been tried with partial success; among them, tar ointment has lately become conspicuous, as also oil with a few drops of creosote, but my favorite has always been a mixture of the oil of pennyroyal with an equal amount of almond or sweet oil; this is both-cleanly and effectual, and need only be renewed once a day. But remember it must be the oil and not the essence of pennyroyal, which latter is utterly worthless. Care must be taken with it, as with the others, not to let them run into the eyes, as they will produce unpleasant smarting. This composition is death on black flies, and quite successful against mosquitoes; but it is well, also, to be provided with tar ointment, which will not spill if the bottle is broken.

For clothes, the best suit is of strong duck, heavy enough to resist an able-bodied mosquito, but as loose as possible, so that warm flannels, of which every description should be taken in abundance, can be worn beneath. Flannel coats, shirts and drawers or pantaloons can be crowded into a small space, and are excellent for keeping out cold, and are not rendered unpleasant by moisture. It must be borne in mind that the Summers in Canada are occasionally absolutely cold, and for weeks

in July, I have shivered in every coat and flannel I had with me.

Moccasins are the things for the canoe, but if you try to clamber over rocks or wade streams in them, your feet will be bruised and cut severely. It is advisable to wear stout ankle gaiters that lace up, with heavy ironnailed slippers that may be fastened with a strap and buckle over them, after you have left the canoe, and by means of which you can cling to the rocks without slipping so frequently as you otherwise would. You will wear a straw hat, of course, and where mosquitoes are not innumerable, your flannel underclothes will make a delightful boating suit. Never use anything but woollen socks for any sort of hard walking, and by having your net handle shod with iron, and carrying it in one hand, you will make your way among the slippery rocks with comparative safety.

The bedding should consist of plenty of blankets, and one or two of them coated with India rubber and rendered waterproof, to keep off the moisture that will always rise from the ground at night, to wrap the rest of your clothes in, and to protect them and yourself from rain and wet. A stout leather strap and buckle is necessary for the latter purpose. The best tent is a circular one without any ridge-pole, but supported by a rope run through a pulley attached to three long poles cut in the woods, and placed in the shape of a tripod above. The pins are driven into the cloth itself, and hold it so close to the ground that no insects can penetrate beneath, while a flap effectually closes the door. There is a hole for ventilation at the top, which, in a rain, may be closed

ou ill ns.

ny

is is

but penoil; be the er is

will eath oes; ent,

eavy
se as
pripath.
be
eep-

oists in eeks with a canvas cap. A stout post may be set up in the centre with a few nails on which to hang clothes. This tent should only be used at a permanent camp; and for travelling, the ordinary tent with a ridge-pole, as more accurately described hereafter, is preferable; a piece of oiled cloth laid over sticks planted slanting in the ground,

will keep off the rain and dew.

A round tent of twenty-four feet in circumference will not accommodate more than two men luxuriously, whereas one of double that circumference will hold five times the number. A large tent is a great comfort and not much trouble. A separate tent should of course be taken for your men, and another simple one for a makeshift and a dining-room. To arrange the latter is your first care on arriving at your permanent camping-ground, the table is of bark, either birch or spruce, nailed fast to posts, and shielded by some protection from the rain; the seats are either a large log or the barrels you have brought with you to carry stores and fish, or else stools ingeniously chipped from the trunks of trees with the branches for legs. A dressing-stand is then arranged, with a wash-basin made of birch bark; the fire-place is rigged up with a ridge-pole supported on two notched sticks, and with a hooked withe to support the kettle, and your sylvan home is furnished.

p

bı

tle

wi

an

ab

an tha

gai unc

ete

wit

ful

will

1100

in t

bisc

Befo

lesso

To support and gratify the inner man, it is well to have with you all conceivable little delicacies, such as nutmegs, allspice, preserved fruits, meats and vegetables, sweet oil, lemons and raisins, sardines, chocolate, citric acid and ginger; but the necessaries are clear salt pork, flour, rice, oat-meal and Indian-meal, coffee, tea, brown

is

or

re

of

ıd,

vill

re-

nes

not

be

ke-

our

ınd,

st to

ain;

ave

tools

the

ged,

e is

hed

ttle,

l to

n as

bles,

itric

ork,

own

and white sugar, red and black pepper, fine and coarse salt, butter, sauces, preserved and fresh eggs, solidified milk, ales and ardents according to consumption, potatoes, smoked beef, pickles, piccalilly, matches, the essence of coffee, bacon, ham, dried beans and peas, hominy, cigars, onions, bread, crackers, molasses, tobacco, desiccated meats and soups. Many of these articles may be advantageously stowed in the barrels intended for packing fish, but the butter should be put up in air-tight jars in small quantities, and may in hot weather be buried under water in the sand. The oil tried out of the pork is usually used for frying; but if you have sufficient butter the latter is infinitely preferable.

For cooking you will need an iron pot and boiling kettle, tin kettles fitting inside of one another, a frying-pan with a handle like the kettle, a coffee-pot, some knives and tin plates, cups, spoons, forks and deep dishes, and above all an oyster broiler. The latter has thin wires, and, having two surfaces, can be turned more readily than a gridiron. It should be used extensively: fish and game split open and broiled, well basted with butter, are undeniable, and will be found a pleasant change from the eternal fry. Large fish may be boiled and served up with a little of the liquor strengthened with a teaspoonful of Worcestershire sauce. The greatest difficulty will be found with the bread; the latter may be kept a couple of weeks, and when excessively dry, by steaming in the pot will be rendered eatable, but not good. Ship biscuit must be the main reliance for a long tramp. Before taking your departure, if you could obtain a few lessons in cooking from some elderly lady friend whose youth has not been so entirely devoted to dress as to prevent her knowing something of her household duties, and will carry with you a few simple recipes, you will not regret it.

As no one can be certain of perfect health or freedom from accident, it is well to be provided with plenty of sticking and court plaster, cholera medicine and Rochelle salts; but generally the fine exercise and open air are a brave preventive against sickness. Do not forget brown soap to wash the dishes, candles for light in the evening, and cream of tartar and soda to make the flour rise.

p

W

pi

to

tų

me

Ma

eve

wh

two

too

pac

pari

kett

turn

purs clear

The most necessary tools are an axe, a hatchet, one of Aiken's patent diminutive awl tool-chests, with which to mend broken rods, needles and thread to mend torn clothes, some rosin to mend the canoes, and a supply of various sizes of nails for numerous purposes, while a file and sharpening stone will be found useful additions. An india-rubber water-proof bag is admirable as a receptacle for clothes or blankets, which should be heavy, and a tin wash-basin and an air-pillow will be great additional comforts. Fresh eggs may be conveniently stowed in the barrels of coarse salt used for curing fish.

Of the foregoing there are none you can comfortably omit, and besides them there are plenty you would do well to have; but the judgment and taste of each individual will suggest the additions.

As one of the first objects will be to preserve the fish you catch, a preparation of eight ounces of sugar, two ounces of salt, half an ounce of brown pepper, well rubbed into fish from which the back bone has been removed, and which are allowed to dry in the sun, will *

preserve them over a month. They should be packed in barrels with layers of bark between, and will prove more edible than when simply smoked; by smoking they may be kept for years, and the fisherman long have the proud pleasure of offering to friend at breakfast a little of the salmon he killed and smoked himself the previous Summer in Canada.

In warm weather, fish merely salted cannot be kept long, and pickling in brine utterly destroys their flavor; but if the latter method must be adopted, a pickle of two parts salt and one part common brown sugar will keep them forever. Before cooking, however, they should be well soaked. Pickling in vinegar with a few cloves is probably the best mode where it is possible.

The gum for mending the canoes—and it is surprising how large a hole it will fill—is made of one part rosin to three parts balsam gum, fused together. If the aperture is very extensive, a piece of linen saturated with melted gum should be applied. In New Brunswick and Maine it is usual to mix rosin and grease, which answers every purpose.

To smoke fish, it is necessary to salt them in a tub, where they can form a brine, and leave them thus for two days, and then hang them in a smoke-house, not too near the fire, for as many weeks, when they are to be packed in layers, separate. Fish are soused by being partially boiled, and having vinegar boiled in copper kettles mixed with allspice and poured over them. Iron turns the vinegar black, and hence this mode cannot be pursued in the woods. Small fish may be headed, cleaned and packed in a jar, which is then filled up with

13*

nd

m

·e·

of elle wn

ing,

torn
y of
a file
An

tacle
nd a
onal
d in

ably d do indi-

> fish two well rewill *

vinegar and allspice and baked all night. Next day fresh vinegar is added to make up for the evaporation, and lard is run in to exclude the air. They keep well and taste excellent.

An air-tight can is now made, with a cover that fits into a trough which can be filled with melted rosin. This may be used over and over again, and is peculiarly adapted to the woods. It must be hermetically sealed while the contents are boiling, but without sealing might be advantageously used to protect sugar and such things from the wet. The same cover is applied to brown earthen jars, which are well suited for carrying butter.

Literature will be found a great resource in the woods, and although Harper's last Monthly may be permissible on account of the shortness of its stories, nothing should be taken of too interesting a character, lest it divert attention from the main object in view. This work will

80

fu

bı

pe

br

gr

an

are

OVe

gre

You

tryi

mad

any

seas

be found extremely safe.

In giving the foregoing directions it is assumed that the reader intends to travel with canoes, and does not expect to make any extensive portages, or, as they are called in American, "carries;" for if the men are expected to back the traps for any considerable distance, the only admissible articles are fishing-tackle, penny-royal, an axe, the tents, pork, ship biscuit, tea, sugar, pepper, salt, tea-kettle, matches and a frying-pan. The slightest weight becomes a mountain on such occasions, and it will require stout muscles to carry enough for their own sustenance. In salmon-fishing this is rarely necessary, unless a man would be an explorer, and the adventurous are always sufferers.

As it is possible none of my reader's female acquaintance have ever soiled their rosy fingers-Heaven save the mark!—with domestic cookery, an outline of the theory of that science may be advantageous. There are certain well known rules that have no exceptions, unless in the hands of a genius, and which apply to classes and divisions of edibles. For instance, a little salt must always be thrown into the water before anything is boiled in it. Thus, again, with the great class of fried cakes: milk thickened with flour, and an egg or two, and a pinch of salt, makes griddle; add squash, boiled and mashed, and you have squash cakes; employ boiled and mashed rice in place of squash, and there is produced the delicate rice cake; introduce Indian-meal, which has been first scalded, and you have Indian cakes. This class of cakes is made by pouring the preparation, in large tablespoonfuls at a time, on a greased griddle or frying-pan. In broiling, frying, roasting, baking, or stewing, salt and pepper are first rubbed on the article to be cooked; in broiling, baking, or roasting, it is basted with butter or grease, and in frying the butter is first put in the pan and heated. Potatoes boiled, and cut thin when cold, are delicious fried. In stewing, a little water is poured over the meat, and the cooking is done with a cover on.

ıt

r-

ls,

9:ر

ıld

ert

vill

hat

not

are

ex-

Ce,

ral,

er,

test

vill

us-

ry,

bus

Frying is with butter or grease alone; stewing with grease and a little water; and boiling with water alone. You determine when things are done by the color and trying how they resist a fork. An excellent chowder is made by putting pork, fish, cracker, meat, clams, and anything else that is handy, with vegetables, sufficient seasoning, and a little water, and stewing it well. Stew-

ing can hardly be carried to excess, as from the closeness of the vessel the nutritious particles cannot escape.

The best omelette the tyro can make, and excellent it will be found, is by frying eggs, which are first beaten up and seasoned, till they are not quite firm. They must be stirred all the while to keep them from burning, and if they are done hard are ruined.

A white sauce is made of flour and butter well mixed together, stirred into hot water and allowed to boil for fifteen minutes; a hard boiled egg may be chopped up

and added if desired. This is the appropriate sauce for salmon. A brown gravy is made from the drippings of the meat, and some burnt sugar or browned crumbs add-

ed and warmed up.

The following is an accurate recipe for griddle cakes: one pint of boiled rice, three tablespoonfuls of flour, two tablespoonfuls of milk and two eggs. While for fried cakes it will be observed that flour, milk and eggs are used, for ordinary cakes flour, butter and eggs are necessary, with sugar added for sweetening. Thus, a good cake is made of five cups of flour, three cups of sugar, two cups of butter and four eggs. This cake must be baked slowly, which could be done in a piece of birch bark inclosed in heated stones, allowing room for it to rise.

tl

a

O

82

p

cl

be

cr

ar

The simplest and best way to boil a salmon is to slash him on the sides with vertical cuts to the bone, having previously drawn, opened and cleaned him, to wash him well in the nearest spring, put him into boiling water sufficiently salt to bear an egg, and cook him seven or eight minutes to every pound of weight, and serve him with some of the water he was cooked in for sauce. The latter may be thickened with flour and butter. He should, like all other fish, be cooked fresh.

Broiled fish, or, if they are large, slices of fish, cook better wrapped in a piece of paper oiled; and the one-half of a salmon spread out, tacked on a board and roasted by a hot fire is excellent; and in cooking small fish suspended by a twig near the fire, Frank Forester recommends that a small stick with a piece of pork threaded on it, should be inserted to keep the belly open, and a biscuit placed below to catch the drippings. A hot fire will cook a fish thus in ten minutes.

d

r

r. f

1-

3:

70

d

re

sd

r,

e

h

to.

h

 \mathbf{g}

11

r

To bake a fish he is wrapped in oiled paper or birch bark, and placed in an oven built of stones laid in a hollow, and from which the fire has just been removed, other heated stones are placed above him, and the fire is raked back over the whole.

It will be hardly necessary to remark, in connection with these directions, that fish must be cleaned and have the gills removed and be well washed and scaled before they can be cooked; that when the word butter is used, and my reader have no butter, he must use such grease or oil as he may have; that in all cases he can add such sauces and spices to his condiments as he may relish and possess. Among all the variety of prepared sauces, anchovy for salmon and Worcestershire for meats are the best, but lemon alone gives an excellent flavor.

To bread anything, whether it be fried oysters or fried eels, dip them in the yolk of egg beaten up, and then in cracker pounded fine, or they may first be dipped in flour and afterward in egg and cracker. Tea is made by 100 ...ing a little hot water on the leaves and allowing it to draw by the fire for ten minutes and then filling up with hot water. Coffee, by putting the coffee, mixed with the yolk of an egg, into boiling water and allowing it to boil once—no more, on your life. If you do not wish to use an egg, put in a teaspoonful of cold water immediately on taking it from the fire. This is done to clear it. Chocolate is made by melting a cake broken into small pieces in warm water, adding a cup of milk after it is perfectly smooth, and boiling for twenty minutes. An excellent tea is made of yellow birch bark.

Bread, especially if it is a little stale, is much improved by toasting, which should be done by approaching it close to the fire, even throwing it on the coals and burning the outside almost black. If buttered and covered with brown sugar and eaten hot it makes an excellent dessert.

It salt pork is to be broiled, it should be cut thin, and may be soaked well in water, dipped in Indian-meal, so as to bread it, and then broiled or fried brown. It can

be used in soup by being boiled in two waters.

Smoked beef is good if stewed a few minutes with a lump of butter mixed with flour and enough milk to cover the whole, which may be seasoned with pepper. Fried fish that has become cold can be revived in the same way; the flour may be omitted and some salt must be added.

An onion may be boiled in bread sauce, and removed before serving, or pepper may be added; celery chopped and cooked in a stew or sauce adds a peculiarly pleasant flavor. Tough meat of all kinds should be stewed, and except salt pork, meat should be rarely fried. The fore'05

nd he

ter

If of

his

ke

of

ity

rk.

red

080

the

ert.

and

, so

can

h a

to

er.

the

ust

ed

 \mathbf{e} d

nt

hd

e-

rith a

going are soon acquired by practice, and experience will suggest many valuable alterations; but they are all the directions necessary to make camp life not merely comfortable, but by the aid of a good appetite extremely pleasant. Cookery is no mean science, and a knowledge of it will prove interesting and advantageous not only in the wilderness, but so long as Irish cooks shall rule our kitchens and ruin our digestions, in the realms of civilization.

To unite economy in space and weight with the utmost amount of accommodation, the following sized tents will be found to answer for two fisherman and five guides or even four fishermen.

The tent of the gentlemen should be four cloths deep, each cloth of twenty-six inches, and cut twenty feet long, so that there should be ten feet on each side of the ridgepole; the wall takes about three feet, at the upper edge of which a small piece is tabled in where the bolt-rope passes, to shed the rain. There is an extra strip of canvas along the ridge, with two small grummets in each end, inside the tent, to receive the poles; but there is no bolt-rope except along the wall, and there must be no cross seams, as they are sure to leak. A shoulder is left on the poles, which are thrust into the grummets and a spreader is forced up between them and sustained as a ridge-pole by a notch cut in each. There are three tent ropes on each side, with a stout line and toggle, or button where they join the tent, to trice up the walls in warm weather; the doors, which are at both ends, lap well over, and are secured by a strong galvanized hook and eye, and are closed with strings. Along the bottom of the wall are rings to peg it down, and the width is the same as the depth. This tent sets up eight feet high, and is quickly pitched if the poles are retained, which can be readily done, as they are convenient in the bottom of the canoe to keep other baggage from the wet. The size may be diminished to eight feet square, but will be found rather cramped, especially in wet weather, when the fisherman is more or less compelled to stay indoors, and will not permit of what is often desirable, accommodating a visitor.

For the men, a simple strip of canvas eight feet square, with sloping sides, is all that is required. In fact, in cold weather an open tent with a fire in front is preferable to all others, and can be kept as warm as an oven. A Sibley tent has many advantages, but must be large, and is troublesome to transport. In cold weather, logs should be cut down and laid up with mud like a hut, or boards driven into the ground close together to form the foundation, and the tent set over them. It will be warmer

bo

ez

po

te

Tł wl

wi

M

an the

gu

and more roomy.

Where there is naught to be shot, and as little to be caught, no man has any business in the woods; but as bad marksmanship or scarcity of game may cause the first, or a rise of water the second, it is well to know that a pound of biscuit and a pound of pork per day is all that a man requires for his support. A fair allowance however would be, considering it merely as an addition to the proceeds of the gun and rod, a pound of biscuit or bread, and half a pound of pork. Where flour is taken the amount of bread may be reduced; but as the staff of life occasionally becomes wet and moldy, it is

better to be well supplied. Half a pound of solidified milk will last one man ten days, a pound of tea thirty, and half a pound of tobacco one week. Eight pounds of brown sugar, the same of butter, a bushel of potatoes, and two gallons of molasses are sufficient for two anglers and five men one week. It is not customary to give men milk, sugar or coffee; they are carried only for the gentlemen, and the above calculations are made on that footing. These computations may be relied on, and will be found extremely useful; although the luxuries of camp life may fail, the necessaries must not be exhausted. There is no fun in having to send a couple of your best men fifty miles for provisions, when salmon, are rising or a long journey is to be made. Time devoted to pleasure is precious; a day wasted is indeed a loss.

d

0

)-

is d ls h-

er

0

s

e

V

8

And now, good reader, farewell. In looking over this book, I perceive how far short I have fallen of my own expectations, and feel how greatly I must have disappointed yours. Much has been badly said, much omitted, and no doubt much unintentionally misstated. Opinions differ, and experience leads to contrary results. There are game fish, and modes of taking them, with which doubtless I am unacquainted, and yet I hope you will find something here that has not been written before. My aim has been to induce sportsmen to study the habits and proper designation of the different varieties of game they pursue, to apply the appropriate names and distinguish the various species. My hope is to elevate their

purpose above the mere indulgence of that peculiar innate pleasure experienced in the chase, and at the same time, if possible, to press upon the attention of naturalists the vast assistance they might obtain from their humbler brethren by reducing their language to the standard of ordinary comprehension; and above all, to insist, by every consideration of humanity, upon the absolute necessity of preventing the cruel, wanton, and untimely destruction of the beautiful inhabitants of our woods and waters. These have been my objects; it is for you to judge how far I have succeeded. But, reader, let me warn you: neither praise nor dispraise overmuch. In either case I shall write another book, to justify the former or disprove the latter.



ros in or

be be or the

APPENDIX.

iar me ralieir the

, to the and our

t is der,

uch. the

CAP. LXII.

AN ACT RESPECTING FISHERIES AND FISHING.

Protection to Fisheries.

1. The Governor in Council may grant special fishing leases and licenses on lands belonging to the Crown, for any term not exceeding nine years, and may make all and every such regulation or regulations as may be found necessary or expedient for the better management and regulation of the Fisheries of the Province.—22 V. c. 86, s. 4.

2. The Governor may, as occasion shall require, appoint two Superintendents of Fisheries, one for Upper and one for Lower Canada. Four Overseers may be appointed by the Commissioners of Crown Lands, in such places, and in such divisions of territory, as may be considered necessary.—*Ibid.* s. 5.

5. The Governor in Council may cause to be set apart any river or other water for the natural or artificial propagation of salmon, trout or other fish.—Ibid. s. 8.

6. The Governor in Council may grant permission to fish in the rivers within the King's Posts. -Ibid. s. 9.

7. Whoever throws overboard ballast in any river, harbor or roadstead, where fishing is carried on, or the remains of offal of fish, in any such river, or within three miles of the coast of the mainland, or of any island, or on any fishing-bank, shall incur a fine not exceeding eighty dollars, and the master or owner of such vessel or boat, from which such ballast or offal of fish shall have been thrown, shall be held liable for every such offence: Provided always that it shall be lawful for any person to bury such offal of fish on the mainland or any island at a distance of not less than an acre from the beach thereof.—Ibid. s. 11.

807

8. No one shall anchor near the shore in such a manner as to impede the throwing and hauling of seines, or the setting of standing nets.—*Ibid.* s. 12.

9. No one shall set standing nets in such a manner as to impede

the throwing or the hauling of seines.—Ibid. s. 13.

10. No one shall set seines or nets in such a manner as to impede the navigation or anchorage in any bay, harbor or roadstead, or other

place required for navigation -Ibid. s. 14.

20. No one shall fish for, catch or kill salmon in any way whatever, between the first day of August and the first day of March in any year; except only that it shall be lawful to fish for salmon with a rod and line, in the manner known as fly-surface-fishing, from the first of March to the first of September in any year, in Upper or Lower Canada.—Ibid. s. 24.

21. No one shall use any net, or take salmon in any way whatever, at any salmon-leap, or where any artificial salmon pass shall have been constructed, nor in any pools or ponds where salmon are

wont to spawn.—Ibid. s. 25.

22. Whoever obstructs the main channel or course of any river, either by placing therein nets or fishing apparatus of any kind, or any obstacles of any kind whatever, for the purpose of taking salmon or any other species of fish, shall thereby incur for each offence a fine not exceeding twenty dollars, and the forfeiture of his fishing apparatus; and in no case shall the said channel or course so left open be less than one-third of the whole breadth of such river.—

Ibid. s. 26.

23. The owner of any dam or slide where fish may ascend, shall, for the purpose of affording a passage to the fish, attach and maintain to each dam or slide, a fishway of such form and dimensions as shall be determined by the Superintendent of Fisheries, under a penalty of four dollars for each day on which he shall fail so to do after two months' notice by the superintendent.—Ibid. s. 27.

for

du

de

sh

do

int

in

otl

24. Any salmon taken in contravention of the twentieth section of this act, shall subject all parties concerned in the breach of the said section, whether the actual transgressors or accessories, to a penalty of not more than forty dollars, nor less than twenty dollars, together with the forfeiture of the fish, cance, boat or other vessel in which the fish may have been placed, or to imprisonment for a period of not more than six months, nor less than three months.—

Ibid. s. 28.

25. The meshes of any net used for the taking of salmon shall not be less than five inches in extension, knot to knot, under penalty

and on pain of forfeiture of the nets.—Ibid. s. 29.

26. No one shall fish with any net or seine whatever, of a less sized mesh than one and a half inches on the square, in any lake, river or bay, or in any of the waters of Upper Canada.—*Ibid.* s. 30.

27. No one shall fish for, catch or kill any kind of trout in any

way whatever, between the twentieth of October and the first of

February in any year, in Lower Canada.—1 bid. s. 31.

28. No one shall kill any kind of speckled trout, in any way whatever, between the twentieth of October and the first of April in any year; nor shall any speckled trout be killed at any time by means of nets or seines in any inland lake, river or stream in Upper Canada.—Ibid. s. 32.

29. No one shall eatch trout, by means of nets or seines, in any lake or river, or at the outlet or inlet of any lake, or in any river except the river St. Lawrence, in Lower Canada.—Ibid. s. 33.

30. Except in the Lakes Huron and Superior, no one shall catch salmon-trout between the fifteenth day of November and the first day of February.—Ibid. s. 34.

31. Except as aforesaid, no one shall catch maskinonge, pickerel or black bass, between the fifteenth of March and the fifteenth day

of May.—Ibid. s. 35.

32. No one shall buy, sell or have in possession any salmon, salmon-trout, nor any kind of trout, bass nor maskinonge, taken in contravention of this act; and any fish so taken may be declared forfeited by any magistrate whom-sever, and any person so found in possession of any of the aforementioned fish, or of any part or portion thereof, shall be held to have obtained the same in violation of the provisions of this act, except only upon legal proof to the contrary, which proof shall devolve wholly upon the person accused.—

Ibid. 8, 36.

33. No one shall construct any fish pound in any river.-

Ibid. s. 37.

1.0

ing

ede

ede

her

at-

in

rith

the

or or

hat-

hall

are

iver,

l, or

mon

ice a

left

er.-

hall,

ain-

S 85

er a do

tion

the

OB

ars.

ssel

r a

not lty

ess

30. пу 34. The Superintendent of Fisheries may grant written permission to any person or persons who may be desirous of obtaining spawn for bond fide artificial or scientific purposes, to fish for that purpose, during the close season; and any person who willfully injures or destroys any place set apart for the artificial propagation of fish, shall incur a fine of not less than twenty dollars nor more than forty dollars.—Ibid. s. 38.

36. No one shall throw lime, or any chemical substance or drug, into any water frequented by any one of the kind of fish mentioned in this act, and any person found guilty of having thrown lime or any other chemical substance or drug in such waters, shall be subjected to a penalty of not less than twenty dollars and not more than forty

dollars for each offence.-- Ibid. s. 40.

White-fish in the Rivers Niagara, Detroit and St. Clair.

47. Any person who uses or employs, or causes to be used or employed, any seine or other nets of a greater length than fifty fathoms, for the taking of white-fish in any of the rivers Detroit, Saint Clair, or Niagara, within Upper Canada, shall, for every such

offence, forfeit the sum of five hundred dollars.—3 W. 4, c. 29, s. 1. 22 V. c. 86, s. 30.

48. Any person found fishing for white-fish in either of the said rivers within Upper Canada, with seines, gill-nets or other nets, on the first day of the week, called Sunday, shall forfeit for every such offence the sum of two hundred dollars.—3. W. 4, c. 29, s. 2.

White-fish in Upper Canada.

49. Any person who attempts to divert the natural progress or running of the white-fish within Upper Canada, by shingling or other device, shall forfeit for every such offence the sum of five hundred dollars, or be imprisoned, not exceeding three months, at the discretion of the court.—3 W. 4, c. 29, s. 3.

50. All forfeitures incurred under the three last preceding sections of this act may be recovered by action of debt, with costs of suit, before any court having competent jurisdiction; one moiety thereof to the person who sues for the same, and the other moiety to be paid into the hands of the Receiver General.—8 W. 4, c. 29, s. 5.

CROWN LANDS DEPARTMENT.

FISHERIES.

Toronto, 20th December, 1858.

C

by

ha

fo

fis

ab

up

pre

at

tro

or

ha

ing

sile

Cro

tro

Fis

Pursuant to certain provisions of the statute 22d Vict. cap. 86, the Governor General in council has been pleased to adopt the following Regulations for Salmon and Sea-trout Fisheries in Lower Canada:

By-Law A.—In agreement with the intent and meaning of the 4th and 7th sections of the Fishery Act, it is hereby declared that henceforth the Crown, for all practical purposes, resumes and recenters formally into possession of all fishing stations for salmon and seatrout appertaining thereto, in Lower Canada, and that no claim by priority or by reason of past occupation of any of these places, shall hereinafter exist, and that any party or parties continuing to occupy and use any net-fishery for salmon or sea-trout without obtaining lease or license therefor under authority from the Crown, shall, after previous notice, become liable to such pains and penalties as are imposed by the aforesaid act—saving moreover, all other recourse in like cases provided by law.

B.—Neither stake-nets, drift-nets, gill-nets, float or stell-nets, scoop-nets, seines, weirs, nor other self-acting machine whatsoever

shall be used within the course of any river or stream frequented chiefly by salmon and sea-trout, at a greater distance from the mouth thereof than the usual mark of tidal floods, or inside of such other actual limit as may be assigned in the field to each estuary holding by the Superintendent of Fisheries for Lower Canada, or by the stipendiary magistrate in charge of the government vessel for the protection of fisheries.

aid

on

uch

ther

ired

cre-

ions

suit,

reof

paid

58.

6, the

e fol-

ower

e 4th

ence-

nters

sea-

n by

shall

cupy

ining

after

are

se in

nets,

ver

C.—All nets, or other lawful appliances for the capture of salmon and sea-trout, shall be placed within the estuary fishings at distances of not less than 200 yards apart, the interval so designated to mean along either side of the stream, and such measurement to leave the space clear from any net on one side to another net upon the opposite shore, without separate intermediate nots, or other device, being set anywhere therein.

D.—The Superintendent of Fisheries for Lower Canada, or the stipendiary magistrate in command of the government vessel for the protection of fisheries, may prescribe, either by written or published instruction, or on sight, the open space between nets to be set in bays, and elsewhere along the coast.

E.—At the outside of the chamber and in the pound of every set or stake-net for the capture of salmon and sea-trout, there shall be maintained a flap or "door" at least ten inches square, which must be left open, affording free egress and passage to salmon and trout, from sundown on Saturdays until sunrise on Mondays.

F.—All other persons are forbidden to take fish of any kind, and in any manner, within limits covered by leases or licenses from the Crown, except by special permission of the lessees or licentiates.

G.—The fishing for, taking, and killing of any salmon or sea-trout by aid of torch-light or other artificial light, and by means of spears, harpoon (négog), jigger-hooks, or grapuel, is hereby absolutely forbidden.

H.—Indians may, for their own bona fide use and consumption, fish for, eatch or kill salmon and trout by such means as are next above prohibited during the months of May, June and July, but only upon waters not then leased, licensed or reserved by the Crown; provided always that each and every Indian thus exempted shall be at all times forbidden to sell, barter or give away any salmon and trout so captured or killed in the manner hereinbefore described.

I.—The receipt, gift, purchase, sale and possession by any person or persons other than Indians of any salmon or trout which may have been speared or taken as aforesaid, shall be punishable according to law; and every fish so found or had in violation of this rule, shall become forfeited and disposable as the law directs.

J.—No fishing shall be allowed in any water set apart by the Crown for purposes of natural or artificial breeding of salmon and trout, except under express sanction from the Superintendent of Fisheries for Lower Canada.

K.—Hereafter, no slabs or edgings, or other mill rubbish, shall be drifted awaste, or be suffered to drift awaste, into any salmon and sea-trout rivers or streams in Lower Canada.

L.—For any breach of the foregoing Regulations the penalty attached shall be as declared in the 42d section of the statute 22d

Vict., cap. 86.

The publication of the present By-laws in both the French and English languages, in the Official Gazette, shall be sufficient notice to give legal effect.

P. M. VANKOUGHNET,

Commissioner.

5

net

Sai

fort

gill.

und

whi

dree

I

I

CROWN LANDS DEPARTMENT.

FISHERIES BRANCH.

Quebec, 16th May, 1860.

Pursuant to certain provisions of the statute 22 Vict. cap. 62, Consolidated Statutes of Canada, His Excellency the Governor General in council has been pleased to adopt the following

Fishery Regulations for Upper Canada:

By Law No. 1.—The Crown having, for the purposes of the Act 22d Vict. cap. 62, Consolidated Statutes of Canada, practically resumed and reëntered formally into possession of all fishing stations within the Province of Canada, it is, pursuant to the said statute, further provided that the following Regulations shall hereinafter apply to the fisheries of Upper Canada, and any person or persons, continuing to occupy or use, directly or indirectly, any such net-fishing without lease from the Crown, shall become liable to the pains and penalties imposed by the Fisheries Act—saving moreover all other recourse in like cases provided by law.

No. 2.—The use of pound-nets is hereby prohibited.

No. 3.—It is forbidden to fish for, capture or kill fish by means of

spears; except only by Indians.

No. 4.—No net or other device shall be so placed as entirely to obstruct the passage of fish into and from their accustomed resorts for the purposes of spawning and increasing their species.

No. 5.—Inlets and outlets around Burlington Bay and Dundas Marsh shall be deemed to be, for the application of the Fisheries Act, waters forming part of the said bay and marsh, as described in section 23 of the said statute.

No. 6.—No fishing shall be allowed in any water which may have been leased or set apart by the Crown for natural or artificial pro-

pagation of fish, except by express sanction of a fishery officer, or officers.

No. 7.—All other persons are forbidden to take fish, for purposes of trade, within the limits covered by leases from the Crown—except

only by written permission of the lessees.

No. 8.—The receipt, gift, purchase, sale or possession of any fish had in contravention of these Regulations shall be punishable according to law; and the article so had and all materials so unlawfully used therefor, shall become subject to forfeiture and disposal as the law directs.

No. 9.—Hereafter no slabs or edgings, or other mill rubbish, shall be sent adrift in any river or stream which may have been leased or reserved by the Crown for propagation, or where fishways have been

erected.

No. 10.—For any and every breach of the foregoing Regulations the penalty attached shall be as declared by the aforesaid statute—saving moreover all other recourse in like cases provided by law.

The first publication of the present By-laws in both the English and French languages, in the Canada Gazette, shall be sufficient notice to give legal effect; and the production of a copy, purporting to be printed by the queen's printer, shall be prima facie evidence of every such Regulation, and that it is in force as law.

And each contravention of any of the aforesaid By-laws may be

stated as an offence against the Fisheries Act.

P. M. VANKOUGHNET, Commissioner.

STRAITS OR RIVERS NIAGARA, DETROIT, AND SAINT CLAIR.

ACT 3 WILLIAM IV. CAP. 29.

ABSTRACT.

Sec. I.—It is forbid to use, or cause to be used, any seine or other net for the capture of white-fish, in the straits or rivers Detroit, Saint Clair and Niagara, of greater length than fifty fathoms; under forfeiture of one hundred and twenty-five pounds.

II.—It is forbid to fish in the said straits or rivers, with seines, gill-nets, or other nets, on the first day of the week, called Sunday;

under penalty, for every such offence, of fifty pounds.

III.—It is forbid to divert the natural progress or running of white-fish, by shingling or other device; upon penalty of one hundred and twenty-five pounds, or imprisonment.

14

O. Conrnor wing

nd

lty

ınd

to

Act cally tions tute, after sons,

all s of

ains

y to orts

ries l in

ave roIV .- Repealed.

V.—It is provided that one moiety of the forfeitures incurred under this Act shall be applied to the public uses of the province, and the other moiety to whomsoever shall have sued out such complaint.

BURLINGTON BAY.

ACT 6 WILLIAM IV. CAP. 15.

ABSTRACT.

SEC. I.—Repealing clause.

II.—It is unlawful to draw any seine or other net in Burlington Bay; except at a distance of one-half mile from the land at the outlet thereof.

To

pro

pas

ma

the

and var add

the

stre

swa

stor

of s

ble

soft

dete

a le

sea

are

avid

chu

T

III.—It is illegal at any time to set gill-nets in the waters of said bay, or to use any device whatsoever, so as to prevent the free pass-

age of fish to and from the aforesaid bay.

IV.—For each offence against the provisions of this Act, the offender shall incur a fine of not more than five pounds nor less than ten shillings, and in default of payment, will be imprisoned; one moiety of fine to be paid to the Orown, and the other moiety to complainant.

DAMS OF FISH PONDS.

ACT 4 & 5 VICT. CAP. 26.

ABSTRACT.

SEC. XV.—And be it enacted, that if any person shall unlawfully and maliciously break down, or otherwise destroy, the dam of any fish pond, or of any water which shall be private property, or in which there shall be any private right of fishery, with intent thereby to take or destroy any of the fish in such pond or water, or so as thereby to cause the loss or destruction of any of the fish, or shall unlawfully and maliciously put any lime or other noxious material in any such pond and water, with intent thereby to destroy any of the fish therein, or shall unlawfully and maliciously break down or otherwise destroy the dam of any mill-pond, every such offender shall be guilty of a misdemeanor, and being convicted thereof, shall be punished accordingly.

FISHING ON SUNDAY.

ACT 8 VICT. CAP. 45.

ABSTRACT.

SEC. III.—Prohibits all fishing and shooting on Sundays, under penalty not to exceed ten pounds, nor be less than five shillings and costs.

MR. WHITCHER'S REPORT.

To the Hon. P. M. VANKOUGHNET,

Commissioner of Crown Lands, etc.

Sir—Your directions of the 17th of May last, honored me with the service of inspecting and taking inventories of certain public properties within the territory known as "The King's Posts," preparatory to their resumption by government at the expiry of lease with the Hon. Hudson's Bay Company. Obedient to which I have made a personal and minute inspection of the several premises with the view of ascertaining their actual state. The results of such examination, and other information affecting their delivery and acceptance, as between the Company and the Crown, form the subject of various special communications and of a General Report already addressed to the Department.

The river Marguerite discharges a large volume of water, and in the tidal portion affords tolerable salmon fishery. The lower course is much broken by abrupt falls, and the fish not ascending the stream to the more highly aërated waters of its sources, are ill-shapen and coarse, and but of middling size. The spawning-places swarmed with salmon fry. A trifling outlay in the construction of stone basin steps would overcome the main obstacles to the ascent of salmon along this stream.

The river Pentecost is smaller, and has a high fall quite inaccessible to fish, some three miles from its month, where the bottom is soft and muddy, and the shores clayey, which peculiarities probably deter salmon from entering it. In the entrance, and for upward of a league along the St. Lawrence bank westward, there is excellent sea trout fishing for nets. The trout reach four pounds' weight, and are well flavored. They take the artificial fly and bait with great avidity at ebb and flow of the tide, particularly inside the embou chure.

ngton e out-

arred ince.

such

f said pass-

t, the is than l; one iety to

wfully
of any
or in
nereby
so as
shall
rial in
of the
otherhall be

pun-

Stress of weather compelled me to advance from here to Trinity Bay, without exploring the river Calumet, where I am informed there once was an abundance of salmon.

There are several fair salmon, and many good sea trout fishing

stands on this part of the coast.

The Trinity River I consider a valuable stream. Of the estuary portion I shall not now speak, having described its fishings, etc., in the previous season's report. An almost uninterrupted passage for near forty miles admits salmon into a part of this stream where it widens and is divided by small islands. Here seems to be the breeding-ground; and it is so distant from any place where fish taken could be disposed of, and the labor of navigating it with a canoe, even lightly laden, is so formidable that salmon may again multiply there in primeval quiet. Hitherto the estuary has been over-netted, and the river barred across by gill-nets. Hence the decline of the fishery. Now, however, fair play is insured, and the natural consequence will be a rapid restoration of the river to its pristine cele-

brity.

Some three leagues west are the forks of the famous Godbout. Here, too, the spawning-beds in the northeast branch are admirably sheltered and spacious. The northwest arm communicates through a long deep lake with one of the feeders of the Manicouagan River. The Godbout salmon breed also in a north tributary of this lake; and from appearance it might be inforred that they lie also within the main outlet. Were spearing everywhere prohibited, and reasonable netting alone allowed, there cannot be a doubt that the supply of salmon from this river would in a few years become almost inexhaustible. Indeed, when we recollect the dire havoc and riotous abuse of fishing which this beautiful stream has already suffered, nothing save a knowledge of its extensive and fine breeding-places could enable us to account for the present existence of any remnant of former abundance. There is encouragement in the hope that protective measures strictly enforced will fast multiply and improve the run of salmon resorting to this rich river.

E

11

iı

C

n

0

tl

c ir

p

a

n

Ъ

I cannot close this report without touching upon the subject of

spearing by Indians.

The practice of capturing salmon by torchlight and spears is justly held to be most pernicious. Employed, as it almost invariably is, at a time when the waters of each river are lowest and clearest, whilst the salmon are balked at the base of steep falls, awaiting the next freshet, and congregate during sultry nights near the mouths of little rivulets emptying into the main stream, or loiter about the tails of pools, spear-fishing involves excessive slaughter. Sometimes in the course of one night as many salmon will be thus killed and maimed as an ordinary net-fishery along the coast, or in the estuaries, can capture throughout the regular fishing season. Practised

during Autumn and periods of reproduction, as is still more frequently the case, it becomes indescribably bad—it is the crowning act of extirpation. The luckless fish are then killed at a stage which makes the bare feature of destroyal in the highest degree deplorable. They have won their devious way from the luscious pastures of old ocean, through labyrinths of nets and a multitude of watery perils. Urged onward by strong instincts, they have surmounted incredible difficulties, and achieved marvels of adventurous travel. They are now arrived at nature's free hospitals of piscary lying-in. water-way by which they came is in many parts impassably shoal, and no more heavy breeders can reach the same high grounds, or supply their places, for that year at least. And after all, lean from exertion and thin food; dark and slimy from the physical drain and unhealthy action incident to the procreative state, perhaps sluggish and heavy with thousands of ova, or busied in the exhaustive labor and anxious cares of depositing their prolific burden, they are ruthlessly slain by the spear. With every dead or wounded fish there perish in embryo from ten to thirty, forty, fifty, even as high as sixty thousand. Spawners and milters both suffer. Is it, then, possible to exaggerate the ruinous consequences of such improvidence?

There are also other features in this practice contributing to the waste and injustice which it so entails. The salmon taken by spear are, comparatively speaking, worthless as a marketable commodity. But, being easily taken, the captors willingly dispose of them at miserable prices, and in barter for the cheapest kinds of goods; for rusty pork and molded biscuits. The wrong to the public, of suffering the richest and finest fish in Canadian waters—the precious capital of our rivers—to be thus traded in when almost valueless, and under circumstances that admit only of unscrupulous fishermen and dishonest traders deriving some mean benefits thereby, is These dealers adroitly scarify the ugly portions, disguise their ill-conditioned bargain by dry salting, or hot pickle, and concealing the unwholesome fish at the bottom of the tubs, or dispersing them among other sound pieces, thus palm them off upon the Costing little at prime, the sale is a ready one below average market price. If consumers were but once to see a few specimens of unseasonable salmon struck by the spear, they would remeinber the loathsome sight, and rather than venture the chances of again eating such deleterious food, would eschew salmon altogether.

If the river fisheries become exhausted through this custom, the whole public suffers, because these streams are the nurseries which breed supplies and furnish wealth to the 'longshore and estuary fishings. Besides, to tolerate it must always expose crown lessees to the risk of having their limits suddenly deteriorated by the bold encroachments of spearers. To punish them, even, cannot restore the damage. Years, indeed, must elapse ere the pirated rivers can reco-

ni**ty** med

ing iary , in

e it eediken noe, iply ted.

the nsecele-

oout.
ably
ough
iver.
ake;
ithin

pply nextous red, aces

nant prothe

stly s, at lilst

litails in and ua-

sed

ver from the effects of successive or casual devastations. And while there remains a loophole for escape, as between the Indians and abetting traders, active temptations on either side will drive them to calculate their mutual chances of evading the law.

The qualified exemption of Indians under the Fishery Regulations arose, I feel assured, from motives humane and considerate. Those considerations doubtless were influenced by arguments in support of such exception, drawn from the apparent necessities of Indian life. Experience dissipates this cause of sympathy. It proves that the Montaignais, Micmacs, Naskapis and Metifs, seldom spear salmon in any considerable quantities for present subsistence; and to smoke, or dry, or pickle them for winter use, never. They go to the salting-vats of the nighest trader—pork, tea, sugar, tobacco, and sometimes spirits, principally returning to the wigwam in exchange. I, of course, speak of the Indians whilst near the St. Lawrence, whether from the interior or residing by turns near the seaboard. It is quite a mistaken notion that they kill and cure salmon for provision-

ing the inland hunt.

The experienced missionary, Père Arnaud, in his evidence to the Indian Commissioners, says, "These Indians care for nothing but hunting and fishing." Indeed I think that, as regards several of them, the native love of excitement in the chase has somewhat to do with their pertinacious pursuit of salmon by spears and flumbeaux. It is a passion among some of the bands; and I must admit the habit has peculiar fascinations, and to many it is strangely excit-Nothing can exceed the wild excitement with which these men pursue it. The sombre night-scene of the forest river seems to delight them. The elder man occupies the stern of the canoe, while the younger takes "the post of honor" forward. The murmur of waterfalls and rapids, drown those exclamatory Ughs! and the frequent splash that would else disturb the pervading stillness. With steady, stealthy speed the light birchen boat enters the rapid, and outting through its white waters glides smoothly over the fall and into the "tail" of the peol above, or across the quiet "reach." The blazing torch, stuck in a cleft stake and leaning over the bow of the canoe, glares with dazzling lightness. The flame and shadow, swayed by ripples, conceal the spearers' forms, and bewilder the doomed salmon. Like moths, they sidle toward the fatal light; their silvery sides and amber-colored eyeballs glisten through the rippled water. The dilated eyes, the expanding nostrils and compressed lips of the swarthy canoemen, fitly picture their eager and excited mood. A quick, deadly aim, a sudden swirl, and those momentary convulsive wriggles tell the rest. The aquatic captive, with blood and spawn, and slime and entrails, besmear the inside of the canoe. Often the quarry is transfixed with wonderful precision and instantly killed, the spinal marrow being pierced by the barb, and the strong springy times of the spear paralyzing in their sharp pinch

W

p

C

111

C

th

in

Q

or

di

an

is

th

di

ale

an

ba

m

bu

arg

tio

of

oil

the whole muscular system, the fin-rays spread in a feeble quiver, and the once powerful fish dies literally without a struggle. During a single night from fifty to two hundred salmon may be thus slaughtered, and half as many more lacerated in their efforts to escape, the pools at such seasons being too shallow to afford certain safety in retreat. The bed of coarse boughs, the chill and hungry awaking at sunrise, the mixture of peril and fagging which form the return down a swift stream, broken by falls, and rocks, and rapids, with here and there a tedious portage, over which several hundred pounds of fish, and bruised and blistered canoes must be transported—all these exertions appear but natural to Indians, and not worthy of comparison as against the fruits of so much toil, converted at last into six, eight, or ten dollars' worth of provisions and store goods, or perhaps a demijohn of home-made rum. Speared salmon are sold to traders at their own price, as the deteriorating mode of capture so much depreciates the fish. The illegality of the purchase or exchange, also, often is pleaded as a risk for which a further propor-

tional deduction in the value of barter must be made.

ns

84

ns

130

ort

an

126

al-

to

to

and

ge.

lie-

t is

on-

tho

but

of

it to

um-

limit

keit-

nese

s to

hile

of

fre-

Vith

and

and

The

the

ow,

the

ht;

tho

)111**-**

hnd

110-

ith

the

and

ach

That the ludians must suffer starvation by being deprived of the "native liberty" to ruin our salinon fisheries, is a very flimsy apology on the part of those who still desire to perpetuate so flagrant With the exception of some families or Naskapis, who have imprudently left their upland hunting-grounds and wandered toward the rocky coasts, where sickness soon debilitates and cuts off whole encampments, the lower St. Lawrence Indians do not endure privations similar to many of the tribes in western Canada. comparative immunity is certainly due in great measure to the paternal solicitude exercised by the exemplary missionaries of the Roman Catholic Church. Almost total abstinence from "fire water" is not the least of a beneficent improvement resulting from these self-denying missions. Were there not another salmon to be caught between Quebec and Labrador, the extinction could not occasion to Indians one tithe of the misery depicted by persons whose interest or prejudice it is to excite a sympathetic feeling favorable to the continuance of facilities for spearing. I make no mere vague assertion; it is a deduction from practical observations and inquiry. The Indians themselves know this, and it makes them all the more reckless and disregardful of the future in their ravages. Trout are plentiful all along the coast, and the inner lakes swarm with them. Every bay and bank teems with codfish. The rod and line and bait will catch both in hundreds. Hooks and lines are cheap as spearing implements. Seals are plenty everywhere. The product of one seal will buy the fishing-gear of a family for the entire year. But, it is argued, they need pork and flour, tea and sugar, guns and ammunition, which can be bought with salmon carcasses. Yes, and all of these articles can be better had in exchange for trout, cod, sealoil, skins and furs. Birch canoes, baskets, and other manufactures,

find rapid sale. Canoes bring from eight to twenty-four dollars apiece, in cash. Necessity, therefore, is simply ar excuse, equally deceptious and unfounded. It is the habitual indolence of most of these Indians which lies at the root of the matter. It ties them down to frequented spots, where inducements held out by cunning traders, whether on land or afloat, are irresistible.

Is there, then, sufficient reason why their inveterate habits should

be humored at the cost of extirpating the supply of salmon?

I have the honor to be, sir,

Very respectfully, Your obedient servant, W. F. WHITCHER, J. P.

QUEBEC, 81st December, 1859.

NOTE TO THE TRIP TO LA VAL.

For the information of those who may desire to trust themselves alone to the companionship of the Canadian French, the following list has been added of a few words that will be most necessary, and many of which will be found in no French dictionary:

| | Sat |
|-------------|--------------|
| Potak, | Potetoe. |
| Batture. | Shoal. |
| Baril, | Barrel. |
| Brulot, | Sand-fly. |
| Buchan, | Smudge. |
| Brochat. | Mascallonge. |
| Chaloupe, | Pilot-boat. |
| Perche. | Rod. |
| Egog, | Spear. |
| Gruyot, | Porridge. |
| Belluat, | Blueberry. |
| Pleindurer, | To fill. |
| | |
| Peinturer, | To paint. |
| Cite, | Here. |
| Roches, | Rocks |
| Pilote, | Pilot. |
| | |

| Sapin, Moustique, Ecoree, Aborder, Filer, Coude, Mizzin, Grande voile, Luff, Arrive, Tapecu, Jib, Stambo, Bagage, Epinette, Marounquin, | Balsam fir. Black fly. Bark. To trim in. To ease off. Sheet. Foresail. Mainsail. Luff. Keep off. Jigger. Jib. Steamboat. Baggage. Spruce. Mosquito. |
|---|---|
| maiounquin, | mosquiw. |

NOTE TO TRIP TO NEW BRUNSWICK.

Fish of all kinds are extremely cheap in the provinces. Salmon, near Boiestown, sell for sixty cents apiece, regardless of size, and grilse for twenty. In other places salmon are five cents a pound, while smoked fish are worth one dollar and twenty-five cents apiece. Lobsters are a nuisance to the fisherman, from their numbers; and herring are abundant.

The expenses of a trip for two fishermen visiting both the Miramichi and Nipisiquit, and occupying a month, were as follows:

| Fare to St. John | \$12 | 00 |
|----------------------------|-------|-----|
| State room | | 00 |
| To Fredericton | 8 | 00 |
| Extra to Wilson's | 11 | 00 |
| Stores for the Miramichi | 32 | 34 |
| Men's wages | 60. | 00 |
| Extra to Newcastle | 17 | 00 |
| Fare to Chatham | 1 | 40 |
| " Bathurst | | 00 |
| Stores on the Nipisiquit | 29 | 95 |
| Men's wages | 50 | 00 |
| Wagon to the Round Rocks | 4 | 00 |
| Extra on return to Chatham | 14 | 00 |
| Fare to St. John | 8 | 00 |
| " Bosen | 11 | 00 |
| Meals and other expenses | 35 | 00 |
| Delicacies | | .00 |
| ya. Es | \$306 | 69 |

CLASSIFICATION.

Every naturalist originates a classification for himself; thank Heaven, I am only a sportsman, and shall merely refer to that of Cuvier. He makes grand divisions of fish into the bony and cartilaginous; the former being separated into spinous and soft rayed, the latter into those with free or fixed gills.

Acanthopterygii, fin-rays spinous, including the percido, or perch family, which has the edge of the gill-cover, or fore gill cover, or both, denticulated or armed with spines; the checks not mailed, and teeth on both jaws, the vomer and palatines. In this family are comprised the perca or perch proper, the labrax or salt-water bass,

144

deof nem ning

ould

elves wing , and the huro or black bass of Lake Huron, the lucio perca or pike perch, the seranus or groupa, the centropristes or sea bass, the grystes or black bass, the centrarchus or rock bass—two genera generally confounded—the pomotis or sun-fish, and several others so rare in our

waters that they are omitted.

The second family of the spine-rayed order is the triglidæ, which is similar to the percidæ, except that the cheeks are mailed as it were by the suborbitals being greatly extended and articulated with the fore gill-cover. It includes the trigla prionotus and dactylopterus or gurnard and flying-fish; the cottus, sculpin or bull-head; the hemitripterus, also known as sculpin; and the gasterosteus or stickleback; besides many genera that are rare.

The third family is the *scienida*, which have no teeth in the palatines or vomer, but have scales on the base of the vertical fins; otherwise they resemble the perch family. They comprise the *leiostomus* or Lafayette, the *otolithus* or weak-fish, the *corvina* or lake sheepshead and branded drum or red-fish of the South, the

umbring or king-fish, the pogonias or salt-water drum.

The fourth family is the *sparidæ*, which has no spines or denticulations on the gill-covers, and no teeth on the palate, but has large scales. It includes the *sargus* or salt-water sheepshead and sand-

porgee, and the pagrus or common porgee.

The next family that frequents our waters is the scombridæ, which has no spines or denticulations on the gill-covers, and no scales on the vertical fins; the scales are small. It includes the scomber or mackerel proper, the thynnus or tunny, the pelamys or bonito, the trichiurus or ribbon fish, the xiphias or sword-fish, the naucrates or pilot-fish, the corange or yellow mackerel, the seriols or rudder-

fish, the temnoson or blue fish the rhombus or harvest-fish.

The next family is the atherinidæ, represented by the silversides or sand-smelts; and the next the mugilidæ. It has minute teeth, entire and large scales extending over the head, and comprises the mugil or mullet proper. The next family is the gobidæ, which have an elongated body, small scales or none, the spines of the dorsal flexible, and the ventrals, when present, before the pectorals, and it includes the gunnellus or butter-fish, the zoarces or eel-pout; and the next the lophidæ, which usually have no scales, but ccasionally spiny plates in lieu of them, and have the carpal bones elongated to support the pectorals. The lophius proper is the sea-devil or fishing-frog, a rapacious creature, well known on our coast by various names, and the batrachus, the well-known toad-fish.

The last of the spine-rayed families is the *labrida*, which have fleshy lips covering the jaws, toothless tongue and palate, three pharyngeals, two above and one beneath, furnished with teeth, sharp or flattened, and an oblong, scaly body. This family comprises the *etenolabrus* or bergall, otherwise chogset or cunner, and the *tautoga*,

tautog or black-fish.

The mulacopterygii, or soft-rayed, are separated into the abdominal, which have the ventrals in the centre of the abdomen; the subbrachial, which have the ventrals at the shoulder; and the apodal, or footless, that is without lower fins.

h,

or

n-

ur

ich

ere

the

rus

the

:le-

ıla-

ns;

the

the

icu-

ırge

ınd-

nich

On

r or

the

ates

der-

ides

eth.

the

ave

rsal

d it

the

ally

l to

ng-

nes,

ave ree

> arp the

ga

or

Of the abdominal, the first family is that of the *silurida*. It is distinguished by a naked, slimy skin, a large head with several filaments, usually a second adipose dorsal, and the first ray of the dorsal and pectoral a strong articulated spine. They comprise the cat-fish, bull-pouts, bull-heads and horned-pouts, as you please to call them, the common kinds being classed under the genus pimelodus.

The second family is the cyprinida, which have small jaws, a weak mouth, mostly toothless, large scales, one dorsal, and teeth on the pharyngeals. The cyprinus carpio is the common carp, the cyprinus auratus the gold-fish, both of which were imported and are not indigenous. This family also includes the abramis or bream, sometimes called dace; the labeo, chub or chub-sucker; the catustomus or common sucker, of which genus the species are known by varied popular appellatives, such as mullet, barbel, dace, horned-dace, golden mullet, red-horse and shoemaker; the genus leuciscus or dace proper, also the red-fin, roach and shiners; the fundulus or killifish, otherwise minnow or mumnychog; and the hydragira or fresh-water minnow.

The next family, the esocides, has one dorsal opposite the anal, an elongated body, and a large mouth filled with sharp teeth. It includes the esox or pickerel and mascallonge; the belone or sea-pike, sometimes miscalled gar-fish and sea-snipe; the ecomber esox or bill-fish; and the exocetus or flying-fish proper.

The family of the fistularida includes the pipe-fish; and the next family of importance is that of the salmonida, comprising the salmo salar or salmon, the salmo fontinalis or American brook trout, the salmo confinis or lake trout, and the salmo amethystus or Mackinaw salmon, the osmerus or smelt, and the coregonus or white-fish and Otsego bass.

The family of the clupida has a single dorsal and compressed scaly body. It includes the clupea or herring, the alosa or shad, alewife and mossbunker; and the family of the saurida has only one common representative, called the buffalo-fish.

Of the sub-brachial we have the family gadida, which have the jaws and point of the vomer armed with rasp-like teeth, and two or three dorsals. Morrhua, cod, tom-cod or frost-fish, haddock and the melucius, or hake, form the most considerable genera; the lota or burbot of the lakes, and the merlangus or pollack, are also taken in large numbers.

The next family, the planids, has a flat body, the under side white and the upper dark, both eyes on one side of the head, and a dorsal extending the entire length of the back. It includes the hip-

poglussus or halibut; the platesea, flounder, fluke and flat-fish; the

pleuronectes or turbot; and the achirus or sole.

Of the apodals, or those without lower fins, we have the anguillide or eels, and the genus conger or conger eel, and the ammodytes or sand-lance.

The subdivision lophobranchii, which is distinguished by having

little tufts at the gills, has the following families:

The syngnathide, which have the body armed with transverse plates, and have a large gill-cover and single dorsal. It includes the

syngnathus or pipe-fish, and the hippocampus or sea-horse.

The subdivision plectonathi have concealed gills and a narrow fissure for gill opening; the family gymnodontida has in lieu of teeth a bony substance like enamel, and includes the diodon or balloon-fish and the tetraodon or swell-fish, both of which can inflate themselves. The family balistida is represented by the file or fool-fish.

Of the cartilaginous fish the eleutheropomi have free gills with a strong cover, but no rays, and include the family of the sturionide, which have large bony plates in longitudinal rows and a mouth underneath and toothless. The genus acipenser or sturgeon is alone

common.

The order plagiostomi has fixed gills without cover; the family squalida, which has the gill-holes never underneath, comprises the carcharias or shark, the lamna or mackerel shark, the mustellus or dog-fish, the selachus or basking shark, and the zygana or hammer-headed shark.

The family raids has a flattened body, large pectorals and branchial opinings underneath. It comprises the rays, the skates and

the devil-fish.

The order cyclostomi includes the family petromyzonida, which has neither pectorals nor ventrals comprising the petromyzon or sea-

lamprey and the ammocates or common lamprey.

These are the principal varieties of fish found in the waters of the northern section of America according to their scientific designations and their confused and intricate popular appellations. Perhaps in time, with the diffusion of knowledge and the efforts of sportsmen, uniformity may be obtained, and the language of Massachusetts be comprehensible to the inhabitants of lowa. To effect this object should be the desire of all, and it is to be hoped that naturalists and sportsmen will mutually aid one another by ascertaining the appropriate name of each species, and when ascertained, by applying it invariably.

-fish; the

e anguilmmodytes and the second second

and the second

by having

transverse cludes the

a narrow in lieu of diodon or can inflate he file or

ills with a urionida. a mouth on is alone

the family prises the ustellus or hammer-

and brankates and

which has n or sea-

ers of the designa-Perhaps ortsmen, usetts be is object lists and approolying it

