## FRESH-WATER FISHES IN THEIR SEASON. JANUARY AND FEBRUARY.

FRESH-WATER FISHES IN THEIR SEASON.

ANNUARY AND FERBUARY.

If we except the salmon, the fresh-water shees of the British idea have at present no commercial value, as they are not captured, either individually or in the agarcagetic, for the purposes of commercial; that to present who commercial value, as they are not captured, either individually or in the agarcagetic, for the purposes of commercia; but to person who may found in the large English or Scottish lakes or carght in the small rivules that residually an interest of the control of 400 miles and a large number of fine fivers and lakes, the total number of 400 miles and a large number of fine fivers and lakes, the total number of 100 miles and a large number of fine fivers and lakes, the total number of 100 miles and a large number of fine fivers and lakes, the total number of 100 miles and a large are obliged, in Onespagence, to countent themselves with the realisation of that old proverb which tells them that small residual to the proverb which tells them that small way down in the north, on the lakes of Commberation of the miles and the same of the contented to still day in a pure on the Thanse, happy, when evining arrives, to find their patience rewarded with a sheer's dozen of stupid gudgeon. But sway down in the north, on the lakes of Commberation of the patience of the patience of the content of the patience of the pat

"pirate of the waters," as the pike has come to be named, affords capital sport to the ungler, as it is a facility fish, and grows to a large size. Pike spaw in March and Agril, when the fall leaves is hilding-place in the deep water and March and Agril, when the fall leaves is hilding-place in the deep water and March and Agril, when the fall leaves is hilding-place in the deep water day hatched, and they grow rapidly from the first, attaining a size of about 10 hin in twelve months, and they continue to grow or prapilly that by the time they are fearly rease old they will have attained a fearch of 21 in. Before that a state of about four pounds a year, when well supplied with food. The aparties of this fish is not easily satisfied, and numerous extraordinary stories of its powers of eating and digesting have been from line to time perialed. Mr. capital of the pounds have seen then killed in the neighbouried of a sheal of parx, and, nowithstanding their rapidity of digestion, have seen four or far with alten out of the stomeof of each. Mr. Scodiart, one of our chief authorities on angiling materia, has called the young gentles, and calculates that it is a streeted of water to mission, where there is good feeding, there will be at least a thousand pike, and that these young sentor. There are many stories told alout the vonetty of this she, or many, indeed, as almost to lead one to suppose that the larger part of them had been traveled. But if had for them be true, the pike has carrainly general them in the pike of the pike of them be true. The pike has the pike of the pike of them be true, the pike has ested in the larger part of them be always to the pike of the pike of the pike and the pike of the pike

# FRESH-WATER FISHES IN THEIR SEASON.

MARCH AND APRIL.

FRESH-WATER FISHES IN THEIR SEASON.

MARCH AND APPILL.

The salmon, which is our most valuable individual fab, comes into season in February, and continues legally good for food for a space of seven months; the periods for its caparar being defined by Acts of Parliament. By a little arrangement, however, we might have this fine red fish on our table during the other froe months of the year as well. As we now know so much about (for there are late and early rivers, and we have seen clean fish in prime order for the table in December) as to have it fit for use as well in November as in Jane. The natural history of the almon has contributed more to electhrical the contribution of growth led at one time to the destruction of being ignorance as to its conditions of growth led at one time to the destruction of being ignorance as to its conditions of growth led at one time to the destruction of being ignorance as to its conditions of growth led at one time to the destruction of being ignorance as to its conditions of growth led at one time to the destruction of being ignorance as to associate the contribution of the fact that the part was the young of that fish. For a series of years to materniate took the trouble to watch the spawing beds of to minister the south of the fact that the part was the young of that fish. For a series of years to materniate took the trouble to watch the spawing beds of to minister the part was the part was to maternial took the trouble to watch the spawing beds of to minister the season of the salmon and the season of the salmon that the salmon that the spawing beds of the part was the part was the salmon that the salmon that the salmon that the salmon tha

food? Where does it go to when it reaches the salt water? &c. The salmon must feed largely, for there is no other way of accounting for its rapid growth; and in the sea it no doubt finds congenial food and a plentiful supply. The old story of its rushing away to the North Pole is totally without foundation. The salmon, like all other fishes; is very local, and never goes far away from the estuary of its own particular stream. It is said to be driven from the salt water in consequence of becoming infested with some kind of vernin, which can only be killed by fresh, water, and, vice versa, fresh-water lice impelling it again to seek the sea. The average period of life given to a salmon is seldom more than four years—such is the demand for the fish, and such the variety of means adopted to capture it. The eggs are deposited from October to January, and they take various periods to come to life; according to the temperature to which they are exposed; some ripen and brits the shell in ninety days, while others will require another month before they are hatched. Half the quantity hatched, for instance, last year (viz., 1863) will be descending to the sea about April or May (1864)—a few serie earlier than that. These will return as sizeable grilses in June, Jüly, and August. Next year the second moiety of the fish will depart for the sea, and come back also as grilses, whilst all that are left of last year's fish will be returning at the same time as salmon eight or ten pounds in weight? Salmon seldom now attain a weight of more than from fitteen to eighteen pounds. Long ago sixty-pound fish were by no means rare, and twelve years back salmon weighing thirty and forty pounds used frequently to be seen on our fishmongers' counters. In the golden ago of the fisheries salmon are said to have been very plentiful and attainable for food by all classes of the community, the price being a mere trille; but railways how carry away our sea produce with such rapidity to far-off ottles and populous towns, where there is an increa

favourable result as already to have increased the rental of the river Tay very considerably.

Some of our anglers will not waste their time on any fish less noble than the salmon; indeed, for sport there is no fish like it. An angler on the Tay or the Tweed, or on a Welsh river, with a sixteen-round fish at the end of his line, is not in the enjoyment of a sincenire, although his would not for any money have his work done by deputy. We have seen before now a gentleman play a fish for seven hours rather than yield his rod to the attendant gillie, who could have landed the fish in half an hour's time. It is a thrilling moment to find that for the first time one has notked a sulmon; it produces a kind of nervous-ness that does not at all tend to the speedy landing of the fish. The first idea is to hanl our scaly friend out of the water by sheer force; but that plan must be speedfly given up, for the fish makes a dash up stream that runs out the line in fine style; then, when once he gets a bite of his bridle, down he comes, or away he goes sulking into some hiding-place. In a brief time he comes out again with renewed force, and dashes about till you become so fatigned as almost not to care whether you land him or not. It is impossible to say how long an angler may have to "play" a salmon or large griles; but if he sinks himself to the bottom of a deep pool, it will likely be a business of hours to get him safe into the landing net, if he be not lost altogether, as, in his exertions to escape, he may chafe through the line, and so regain his liberty; and during the progress of the battle the angler may have to wade or be pulled into the stream once or twice, so that he comes in for a thorough ducking, and may, as we have seen, have to go home, after a hard day's work, without being rewarded by the capture of a single fish. Plenty of good salmon angling can be had in the north of Scotland, where there are always fishings to be let; and there is northing better, either for health or recreation, than a day on a sulm

the place, who will show him at the cess poors are not what flies he ought to use, and give him many useful hints on other points as well.

In former times there were more ways of killing a salmon than by angling for him. Parties used to be made up for the purpose of "burning the water," a practice which prevailed largely on the Tweed, and which afforded good rough sport. The burning took place a little after sinset, when an old boat was commissioned for the purpose, and flaming torches of pinewood were lighted to lure the fish to their destruction. The leister, a sharp iron fork, was used on these occasions with deadly power. Rude mirth and song were usually the order of the night on these occasions; and the practice, being illegal, was not without a spice of danger, or at least a chance of a ducking. Burning the water it must, however, be confessed wis more a picturesque way of poaching than a means of adding legitimately to the produce of the fisheries as a branch of commerce. It would have been well for the salmon fisheries had the arts of poaching never extended beyond the rude practice we have alinded to; but now poaching has become a business, and countless thousands of the fish are swept off the breeding-beds by means of a rude net or a few blankets joined together. There is on most rivers an organised system of taking and disposing of the fish, France affording the chief outlet for this kind of food, an outlet, however, which we hope a recent Act of Parliament will effectually close up. Legislation on the salmon question has of late been greatly extended, various powerful Acts of Parliament having been passed for the better regulation of the fisheries.

## FRESH-WATER FISHES IN THEIR SEASON. MAY AND JUNE.

FRESH-WATER FISHES IN THEIR SEASON.

MAY AND JUNE.

The salmon family embraces all kind of trout and also some of the curious fishes peculiar to Scotland—as the powan and the vendace, likewise the grayling and beroital argentine, and, of course, the exquisite fish taken in grayling and beroital argentine, and, of course, the exquisite fish taken in findeed, of all our fresh-water fishes, the one that is most plentiful and the out that is most worthy of notice by angiers is the trout! It can be fished for with a crooked pin in the most this strong, or be captured by elaborate to suit all takes; there are well of the provides of it as the heart of the course of the co

his provess with the angle. The usual way of taking the great lake trout is to engage a boat to fish from, and which must be rowed genity through the water. The proper bat is a small trout, with at lease half a dozen hooks projecting from it; and the tackle requires to be prodigiously strong, as the fish is the term of the part of the property of the part of the p his prowess with the angle. The usual way of taking the great lake trout is to engage a boat to fish from, and which must be rowed gently through the water. The proper bait is a small trout, with at least half a dozen hooks projecting from it; and the tackle requires to be prodigiously strong, as the fish a powerful one, although not quite so active as some others of the trout kind, but it is a powerful one.

## THE ILLUSTRATED LONDON ALMANACK FOR 1864.

#### FRESH-WATER FISHES IN THEIR SEASON.

JULY AND AUGUST.

THE accompanying scene will be at once recognised by our home anglers—it is Teddington Lock, on the Thames. We have been talking grandly about highland streams and northern lochs, but the river scenery of England is, in its way, equally beautiful, and no river is more charming than the Thames. It is a classic stream, and its praises have been sung by the poets and celebrated by the historian. After Mrs. S. C. Hall and Thorne, it were vain to repeat its review.

by the historian. After Mrs. S. C. Hall and Thorne, it were vain to repeat its praises:

Glide rently, thus for ever glide,
O Thames! that anglers all may see
As now fall that anglers all may see
As now fall that anglers all may see
As now fall that the property of the control of the country of the control of the country is and not till the waters of the Thame join it in Oxfordshire is it known as the Isis, and not till the waters of the Thame join it in Oxfordshire is it known as the Isis, and not till the waters of the Thame join it in Oxfordshire is it known as the Isis, and not till the waters of the Thame join it in Oxfordshire is it known as the Isis and not till the waters of the Thame is mall at first, and flows through some beautiful scenery and highly-cultivated country; its banks are studded with castles and palaces, beautiful towns, and sung villages; while well-stored gardens and cultivated fields give smiling evidence of plenty all along its course. When we consider that the Thames flows past Windox, Hampton Court, and Richmond, that it laves the grassy lawns of Twickenham, waters the pardens of Kew, and that it lears upon its bosom the gigantic commerce of London, we can at once realise its importance, and can understand its being called the King of British rivers, although it is neither so long, nor does it contain so voluminous a body of water, as some other of our British streams. The total length of the River Thames is 215 miles, and the area of the country it waters is 6160 square miles. It has as affluents a great many fine streams, including the River Lodden, as also the Wey and the Mole. We are not entitled to consider it here in its picturesque aspects—our business with it is piscatorial, and we are able to certify that it is rich in fishes of a certain kind—

The bright-eyed perch with fins of Tyrian cye, The silver eel in shining volumes rolled, The yellow carp in scales bedropp'd with gold, Swift trout diversified with crimson stains, And pike, the tyrants of the watery plains.

The silver eel in shining volumes rolled,
The yellow carp in scales bedropp'd with gold,
Swift trout diversified with crimson stains,
And pike, the tyrants of the watery plains.

Considering that all its best fishing points are accessible to an immense population, many of whom are afflicted with a mania for angling, it is quite wonderful that there is a single fish of any description left in it; and yet, but a year or two ago, the "pen of the war" bagged a seven-pound trout near Watton Bridge! We may be allowed just to run over a few Thames localities, and note what fish may be taken at them. Above Teddington at different places an occasional trout may be pulled out, but, although the finest trout in the world may be got in the Thames, they are, unfortunately, so scarce in the meantime, that it is hardly worth while to lose one's time in the all but vain endeavour to lure them from their home. Pike fishing or trolling will reward the Thames angler better than trouting. There are famous pike to be taken every here and there—in the deep pools and at the weirs, and, as the fish is voracious, a moderately good angler, with proper bait, is likely to have some sport with this fish. But the speciality of the Thames, so far, at least, as most anglers are concerned, is the quantity of fishes of the carp kind which it contains, as also perch. This latter fish may be taken with great certainty about Maidenhead, Cookham, Pangbourne, Walton, Labham, and Wallingford Road; and a kindred fish, the pope, in great plenty, may be sought for in the same localities. Then the bearded barbel is found in greater plenty in the Thames than anywhere else, and, as it is a fish of some size and of great courage, it affords fair sport to the angler. The best way to take the barbel is with the "Ledger" (see the "Thames Angler, by Arthur Smith"), and the best places for this kind of fishing are the deeps at Kingston Bridge, Sunbury Lock, Halliford, Chertsey Weir, and in the deeps at Kingston Bridge, Sunbury Lock, Halliford, Chertsey Weir, and

With hurried steps With nurried steps
The anxious angler paces on, nor looks aside,
Lest some brother of the angle, ere he arrive,
Possess his favourite swim.

Possess his favorite swim.

In our division for September and October the reader will find a few words about the natural history of the carp family, which is a numerous one, and, if not so interesting as the Salmoniade, it deserves some consideration in an economical point of view.

Dr. Buckland, in a recent lecture on fish-hatching, told us what had been achieved on the Thames in respect of adding to its finny population; and who knows, when we subtract the sewage of the great city from the river, but that we may again be able to feast on that inimitable fish luxury, the Thames salmon—an impossibility, we should fancy, in the present polluted state of the river. The Doctor's figures as to fish turned into that river last year are as follows:—

Rhine salmon English trout 6.000 French tront .. Ombre chevalier ... Grayling ... 3,000 2,000 Total 35,000 These fish were hatched at Hampton, near Hampton Court, in two sets of boxes erected in the greenhouse of Stephen Ponder, Esq., and the experiment has proved so successful, as to induce a belief that we shall one day have back in the Thames the famous salmon for which it was once so celebrated! We are not sanguine as to this. Salmo Salar must visit the sea, and, how it is ever to go and return through the liquid filth of London is a puzzle that we cannot solve. When London is properly drained and the sewage not sent into the river, it will be time enough to hope for the success of such an experiment.

has proved so successful, as to motice a conet unat we small use any acceptance in the Thames the famous assignment for which it was once so celebrated? We cover to go and return through the legislifish of Lendon is a puzzle that we cover to go and return through the legislifish of Lendon is a puzzle that we cover to go and return through the legislifish of Lendon is a puzzle that cover to go and return through the legislifich of Lendon is a puzzle that cover the cover that the cover the cover the cover that cover the co

## THE ILLUSTRATED LONDON ALMANACK FOR 1864.

#### FRESH-WATER FISHES IN THEIR SEASON. SEPTEMBER AND OCTOBER.

FRESH-WATER FISHES IN THEIR SEASON.

SEPTEMBER AND OCTOBER.

THE carp family is very numerous, embracing the fishes illustrated in July and Angust as well as those of September and October; and we may, perhaps, be here allowed to state, in admiration of the power which illustrates this Almanack, that it is not an easy matter to paint a fish so as accurately to transmit to cannot at exquisite shape and glowing colours. The moment it is drawn from out its own element the chape afters and the colours fade; and in different localities the fish have, like the chameleon, different colours, so that the artist must have a quick eye and a responding hand to catch the rapidly-leeting hues. Nothing, for instance, can be more beautiful than to watch the hauling of a drift of herring nets. As breadth after breadth emerges from the water, the magnificent colours of the fish fash, with ever-changing, hues upon the eye, a wonderful pantominic mixture of glancing blue and gold, and silver and purple, blended into one great burning glow of harmolious colour. But, class for the painter lunless he can instantaneously fix the burnished mass, the light of its colour will be extinguished, list beauty be dimmed long before the boat has time to reach the quay. The brilliant and gaudy fashes of the tropics are indeed gorgeous, as is the plumage of ropical birds; but for fine taste and beautifully-blended colour they are not to be compared to the common herring of our British waters. There is one of the carp family which is of a beautiful colour, and with which all are familiar—we mean the golden carp, which may be seen floating in its crystal prison in nearly every home of taste, and which swarms in the ponds as Hampton Court and in the tropical waters of the Crystal Palace at Sydenham. These gold and sfiver fish are supposed to be naives of China, whence they were introduced into this country by the Portuguese about the end of the seventeenth century, and have become, especially of late years, so common as to be hawked about the streat

igh, one would fanny:—

I ask, what warrant-fixed them (like a spell
Off witchearts fixed them) in the crystal cell;
To wheel with languid motion round and round,
Beautiful, yet in mourraid durance bound?

Beautiful, yet in mourraid durance bound?

For their quick sense, our weekest house farraid,
And whither could they dast, if selects with fear?

No sheltering stone, no tangled root was near.

When fire or taper ceased to chort the room,
They wore away the night in storless gloom;
And when the sun first dawned upon the streams,
How faint their vortion of his vilid beams!

Thus, and unable to complain, they fored,
While not one joy of ours by them was shared.

While not one joy or cuts by these was stared.

Goldfish ought never to be purchased except from some very respectable dealer. We have known repeated cases where the whole of the fish bought have died within an hour or two of being taken home. These golden carp which are reared for sale are usually spawned and bred in warmish water, and they ought in consequence to be acclimated or "tempered" by the dealer before they are parted with.

Returning to the common carp, we may speak of it as being a most useful pond fish. It is a sort of vegetarian, or, at any rate, we may class it among the least carnivorous fishes; it feeds chiefly upon vegetables or decaying organic matter, and very few of them prey upon their kind; while some, it is thought, pass the winter in a torpid state. There is a rhyme which tells us that—

Turkeys, carp, hops, pickersl, and beer, Came into England all in one year.

Eame into hagland all in one year.

But this couplet must, we think, be wrong, as some of these items were in use long before the carp was known; indeed, it is not exactly known when this fish was first introduced into England, or where it was brought from, but we think it extremely possible that it was brought from Germany. In ancient times there used to be immense ponds filled with carp in Prussia, Saxony, Bohemia, Mecklenburg, and Holstein, and the fish was bred and brought to market with as much regularity as if it had been a fruit or a vegetable. The carp yields its spawn in great quantities, no fewer than 700,000 eggs having been found in a fish of moderate weight (10 lb.); and, being a hardy fish, it is easily cultivated, so that it would be profitable to breed in ponds for the fishmarkets of populous places, and the fish salesmen assure us that there would be a large demand for good fresh carp. It is necessary, according to the best authorities, to have the ponds in suites of three—viz., a spawning-pond, a nursery, and a receptacle for the large fish, and to regulate the numbers of breeding fish according to the surface of water. It is not our intention to go minutely into the construction of fishponds; but we may be allowed to say that it is always best to select such a spot for their site as gives the engineer as little trouble as possible. Twelve acres of water divided into three parts

would allow a splendid series of ponds, the first to be three acres in extent, the second an acre more, and the third to be five acres; and here it may be observed that, with water as with land, a given space can only yield a given amount of produce, therefore the ponds must not be overstocked with brood. Two hundred carp, twenty tench, and twenty jack per acre is an ample stock to begin with. A very profitable annual return would be obtained from these twelve acres of water; and, as many country gentlemen have even larger sheets than twelve acres, we recommend this plan of stocking them with carp to their attention. There is only the expense of construction to look to, as an under-keeper or gardener could do all that was necessary in looking after the fish. A gentleman having a large estate in Saxony, on which was situated no less than twenty ponds, some of them as large as twenty-seven acres, found that his stock of fishes added greatly to his income. Some of his carp weighed litty pounds each, and, upon the occasion of draining one of his ponds, a supply of fish weighing five thousand pounds was taken out; and for good carp it would be no exaggeration to say that supence per pound weight could easily be obtained, which, for a quantity like unto that of this Saxon gentleman, would amount to a sum of £125 sterling. Now, we have the authority of an eminent lish salesman for stating that ten times the quantity her indicated could be disposed of among the Jews and Catholics of London in a week, and, could a regular supply be obtained, an unlimited quantity might be disposed of. would allow a splendid series of ponds, the first to be three acres in extent, the

centle easily be obtained, which, for a quantity like unto that of this Saxon gentleman, would amount to a sum of £125 steriling. Now, we have the authority of an emiment fish selection of £125 steriling. Now, we have the authority of an emiment fish selection of £125 steriling. Now, we have the authority of an emiment fish selection of £125 steriling. Now, we have the authority of an emiment group to be disposed of among the Jews and Catchlics of London in a week, and, could a regular supply be obtained, an unlimited quantity might be disposed of what can be done in the way of growing pond fish, we may state that near Brussle there are several ponds for rearing the kind of fish we was also that near Brussle there are several ponds for rearing the kind of fish we was also that near Brussle there are several ponds for rearing the kind of fish we was also the operations performed on that gentleman's fish-lakes of La Hulpe and Bolafate. Although the proprietor has a pretty good supply of water for these ponds, in fear of the qualities of the streams being different, he exchanges his fish from Bolisfatto La Hulpe, and vice verse, an operation which is easily effected by means of large barrels filled with water. The joiling of the eart keeps the fish from a company of stream at the bumphole admits a plential supply of air. The effect which such a change has upon Jack is very remarkable, in their weight after removal is about ten pounds a voice of the series of the se

His bait the least red worm that may be found, And at the bottom it doth always He, Whereat the greedy gudgeon bites so sound That hooks and all he awalloweth by and by.

Gudgeons were, and indeed are still, so numerous that it was at one time supposed that they spawned twice a year. This arose, no doubt, from the fact of the fish of different waters spawning at different times. Every river has its own season; some are earlier than others—some later. Hence, if a proper study of the different spawning seasons of all our British rivers was entered into we might have clean salmon and other wholesome fish all the year round.

## FRESH-WATER FISHES IN THEIR SEASON.

NOVEMBER AND DECEMBER.

FRESH-WATER FISHES IN THEIR SEASON.

NOVEMBER AND DECEMBER.

The grayling, as may be seen from our Drawing, is a delicate but heautiful fish. The gray-ling possesses more than usual interest just at present from the many successful actions; which are being made to noclimately in the very been originally introduced into Dritish rivers by the monks. There is every probability of this having been the case; indeed, from what we know now of plasicalizors, we can readily guess how the feat was accomplished, although Tarrell and others during the three properties of the complex of the comple

on almanack For 1864.

If the searcity must be in the waste of the eggs and the destruction of the fry, and the true way to restore the status upo was to afford the young fish protection, which he concluded must be done by securing the eggs and guarding them till they came to life, and afterwards feeding the fish of the protection, which he concluded must be done by securing the eggs and guarding them till they came to life, and afterwards feeding the life to the French waters. He began at first by collecting the eggs of trent and other fash, and she has enabled to protect the pawn from all kinds of enemies, having before him, at the same time, the certainty that all the eggs defeating a slight percentage, would come to life. Then, again, the young fish, being protected from their numerous conductive point. Growing before in his operations as his experience increased, Remy and his make sure of their eggs by hand manipulation, the fructionation of shur same again; and the status of the eggs by hand manipulation, the fructionation of shur same state of their eggs by hand manipulation, the fructionation of shur eggs being an external act. In Funce—we mean, of course, that division experimented upon by Remy—became once more so populous as so natured the stemation of some of the great scientific men of the country. The result sample seatly for the protection of the state of the