few dark spots on the gill covers, which extend along the lateral line throngk; the entire length of the body. These are most conspicuous in the females.The fins are then soft and the sides aud belly covered with sea-lice.

As sparwing time approaches and the fish seck the swift, shallow waters at the head of the streams, considerable changes take place in their appearance. The male assumes the appearance known in England as "Red" fisl. The sides take on an orange hue, paling into yellow on the belly, the spots become of a bloody-red, and are seen on the dorsal and caudal fins; the back becomes greenish, and the cheek is striped with orange. The lower jaw also dongates into a hooked cartilarinous excrescence, which fits into the upper. The females grow darker, particularly upou the back, fins, and gill-covers, and are now called " Black" fish.

After spawning they are lank and lean, with heads much larger inproportion to their bodies. The females change ta a greyish color on the back and yellow on the sides, with red and dusky spots alternating above the lateral line, and extended upon the dorsal and caudal fins, winile the pectoral, ventral, and anal fins become of a blueish grey. They are now called Kelts.

In the classification given on the thirtietl page of this magazine, the Salmon belongs to the order called Cycloids; in the system heretofore in use, it falls under the order of soft-rayed abdominal fishes; family Salmonidx $x_{r}$ geuns Salmo: specific name, Salmo salar.

The body is covered with thin oval scales, but the head is smooth or free from scales. There are two dorsal fins, the first with thirtcen rays, the second fatty, long and rounded, and without any rays. The pectoral fins have twelve rays, and the rentral nine, the anal fin nine, and the caudal mineteen. The head is one-fifth of the whole length of the fish, the cyes aresmail, and the nostrils are placed much nearer to the eyes than to the point of the nose. The lateral line is straight, and runs very nearly through the ccutre. In adults, the caudal fin is lumated, hut in the young fish it is considerably forked. The branchiostegous rays, or bony rays of the gillcorers, are usually from ten to twelve, but are not alpass the same on both sides. It has stroug sharp teeth on all the maxillary and both palatine bones; there are one or two teeth, rarly more thau two, and frequently but one, on the vomer, and tliree to five on the tongue.

Such are some of the leading features by which this beautiful fish may be distinguished, beautiful indeed, whether it swims in its native element, its sides sparkling like molten silver, or smoking on the table it graecs the beginuing of the feast.

As soon as the rivers are free from ice, say from the middle of May to the first of June, the Salmon, grown fat and silvery on their sea-found food, appear in the Estuaries, where they usually remain for a time, going up with the flond and returning with the Ebb. In those rivers of Great Britainwhich run clear as carly as February, they have been observed to make a second migration to the sea before running up to spawn. Iam not informed whether this has been observed in any of the Salmon rivers of the Provinces,

