

fairly be taken up by scientific and philanthropic members of the community; and perhaps many of the general, and especially the angling, public will supply funds for the acquisition of some suitable water or waters for experiments in the way of pisciculture, not so much in the hopes of receiving a pecuniary return, at least for the present, as for the purpose of practically testing the possibility of improving our own fresh-water fish supply by cultivating the species already in our rivers, ponds, and lakes, or naturalizing new ones. Such an attempt would have the sympathy of a considerable public interested in the subject, and could not fail to elicit valuable information. It is hoped that the remarks here made will not be considered as discouraging to such an inquiry. Even apart from the question of fresh-water fish as contributing to our food supply, their multiplication for the sport of the angling fraternity is a matter well worth attention, as the facilities for rational and wholesome recreation are no mean elements towards the well being of a nation, and especially of its poorer classes.

### 31.—COMPOSITION OF SOME OF THE FOOD-FISHES.

By E. T. KENSINGTON, F. C. S.

[From a book entitled "Composition of foods, waters, minerals, manures, and miscellaneous substances, compiled by E. T. Kensington, F. C. S." London, 1877.]

#### I.—ROE OF SALMON (p. 24).

Lecithin.....	7.5
Cholesterin.....	2.2
Fat.....	4.5
Albumen.....	10.3
Nuclein*.....	48.7
Protamine.....	28.8

#### II.—COMPOSITION OF CARP, TROUT, &C. (p. 24).

Constituents.	Carp.	Trout.
Water.....	80.00	80.5
Muscular fiber.....	12.00	11.1
Albumen and hæmatoglobulin.....	5.20	4.4
Alcohol extract.....	1.00	1.6
Water extract.....	1.70	0.2
Phosphate of lime, &c.....		2.2

  

Fish.	Fibrin.	Oil.
Skate.....	97	8
Haddock.....	92	8
Herring.....	92	8
Salmon.....	78	23
Eels.....	44	56

\*All albuminoid substance rich in phosphorus.

III.—COMPOSITION OF WHITEFISH, SALMON, EELS, OYSTERS, MUSSELS, SPAWN, AND LOBSTERS (p. 302).

Constituents.	Whitefish.	Salmon.	Eels.	Oysters.
Nitrogenous matter .....	18.1	16.1	9.9	14.016
Fat .....	2.9	5.5	13.8	1.515
Mineral matters .....	1.0	1.4	1.3	2.695
Non-nitrogenous matters .....	78.0	77.0	75.0	1.395
Water .....				80.385
	100.0	100.0	100.0	100.000

Constituents.	Mussels.	Spawn.	Lobster.	
			Flesh.	Soft.
Nitrogenous matter .....	11.72	21.892	19.170	12.140
Fat .....	2.42	8.234	1.170	1.444
Salts .....	2.73	1.998	1.823	1.749
Non-nitrogenous .....	7.39	4.893	1.219	.354
Water .....	75.78	62.983	76.618	84.813
	100.00	100.000	100.000	100.00

32.—A GREAT CARP.

By ALFRED MACKRILL.

[From the Fishing Gazette, February 23, 1884.]

I went on Monday last to Walton-on-Thames, to have a day's fishing with my fisherman, old George Hone. On my arrival he greeted me with, "Well, sir, I have got another big carp to show you, but it is not so big as the one you caught." He opened the well of his punt, and there was a splendid female carp which he had caught in his landing net.

The water rose very rapidly about a fortnight back, and at the end of last week fell very rapidly. On these occasions old George is always on the lookout for stranded fish, so that he may assist them back to their homes.

In the backwater at Walton, in a shallow pool, George saw the carp, and very cleverly put the landing net under the fish, and placed it in the well of his punt for my inspection. We weighed the fish, which was full of spawn, and found it turned the scales at 9½ pounds. After weighing it we returned it to the river again, close to the bough where I took the great carp in 1882, weighing 12½ pounds.

TENBY LODGE, KINGSTON HILL, SURREY.