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SUMMARY

Chapter I : A large number of streams in the « Canton de Vaud » (Switzerland) were surveyed from 1960 to 1965 by means of an electrical fishing apparatus: 122 samples were taken from 37 rivers and from 62 different localities. « The Boiron Experiment » proves that such fishing gives an accurate picture of the fish fauna in any given place. P. 70

Chapter II : The results of the different samplings yielded by the streams of the canton are systematically set forth. All the places are briefly described : width, depth, velocity of the water, nature of the bottom of the stream, banks and slope. After each description I indicate the results of the surveys in that place. Two streams were examined with particular care : the Talent and the Broye. They were then divided into « piscicole zones ». The problem concerning the recurrence of « piscicole zones » in the same river is discussed. P. 77

Chapter III : The area of distribution of the 27 observed species is set forth, commented upon and sometimes illustrated by means of a map. P. 106

Chapter IV : The problem regarding the method to be used to determine the piscicole zones of running water is discussed : a method based on the physical characteristics of the river (recommended by HUET) or the method involving a systematic inventory of the fauna (recommended by ILLIES). A twofold technique is used in the present study, based on the association of fish species and on hydrological characteristics. The notion of a lacustral zone is introduced.

The places are classed according to piscicole zones : 39 belong to the Trout zone, 13 to the Grayling zone and 10 to the Barbus zone. The salmonids region is decidedly predominant ; on the one hand because of the often steep incline of the rivers and on the other hand because of the relatively low temperature of the water. The influence of other factors : the velocity of the water, the depth and width of the river, the situation and climate of the place is made manifest.

The delicate problem of establishing the limits of a piscicole zone is discussed ; a problem which is sometimes non-existent since one often passes gradually from one piscicole zone to another. Temperature plays a particularly important role in the examined rivers which results from the brevity of their courses. P. 117

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